

Keywords - Filler metal classification
Comparative trade names

AWS FMC:2000

Filler Metal Comparison Charts

Compiled by
AWS Technical Department

Abstract

More than 80 producers and marketers of filler metals have supplied trade names of thousands of products conforming to AWS filler metal classifications. Products are tabulated by filler metal classifications within the thirty individual specifications.



American Welding Society

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American Welding Society
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The *Filler Metal Comparison Charts* are a collective effort of the AWS Technical Staff to provide information to assist with the selection of competitive commercial products.

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Foreword

AWS FMC:2000, *Filler Metal Comparison Charts*, is the tenth revision of this popular comparison of trade names of welding electrodes and rods. A5.0-57 listed the products of sixty one companies producing material conforming to the various classifications of twelve AWS filler metal specifications. Subsequent revisions in 1959, 1966, 1971, 1978, 1980, 1983, 1986, 1989 and 1993 reflect the growth of the filler metal market.

The American Welding Society receives many inquiries concerning filler metals and their classifications. The following questions are most often asked:

1. What is the classification of Brand X?
2. Is Brand X in the same classification as Brand Y?
3. Who makes, or supplies, these brands?

To provide a single comprehensive source for this type of information, the American Welding Society publishes the *Filler Metal Comparison Charts*. These charts constitute a cross-reference between the AWS filler metal classifications and the brand name designations used by the suppliers. While the individual charts are extensive, it is recognized that they are not all-inclusive. There are filler metals available that may conform to AWS specifications, but the manufacturers chose not to supply the required information.

The "G" classification indicates that the filler metal is of a *general* classification. It is general because not all of the particular requirements specified for each of the other classifications are specified for the specific classification. The intent in establishing this classification was to provide a means by which filler metals that differ in one respect or another (chemical composition, for example) from all other classifications (meaning that the composition of the filler metal — in the case of the example—does not meet the composition specified for any of the classifications in the specification) can still be classified according to the specification. The purpose is to allow a useful filler metal—one that otherwise would have to await a revision of the specification—to be classified immediately, under the existing specification.

CONSUMERS ARE ADVISED THAT TWO FILLER METALS WITH THE SAME "G" CLASSIFICATION MAY BE SUBSTANTIALLY DIFFERENT. BRAND "B" SHOULD NOT BE USED TO REPLACE BRAND "A" WITHOUT A THOROUGH COMPARISON OF PROPERTIES OF BOTH FILLER METALS.

Information regarding brand names and their classifications was obtained from the suppliers and subsequently verified by them. Names, addresses, and telephone numbers of suppliers, where available, appear at the end of the charts.

THE INFORMATION IN THESE COMPARISON CHARTS HAS BEEN OBTAINED FROM THE MANUFACTURER OR SUPPLIER OF THE PARTICULAR FILLER METAL AT THE TIME OF ISSUE. therefore, THE AMERICAN WELDING SOCIETY ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LISTINGS. FILLER METALS ARE NOT "APPROVED" BY THE AMERICAN WELDING SOCIETY. THE MANUFACTURER OR SUPPLIER SHOULD BE CONSULTED REGARDING CERTIFICATION OF COMPLIANCE TO SPECIFICATIONS AND AVAILABILITY OF EACH ITEM.

Filler metals are grouped according to AWS filler metal specification, which are listed in numerical order. The filler metals classifications are in the order in which they appear in their respective specification. The flux-electrode combination listings for AWS A5.17 and AWS A5.23 are ordered by chemical composition first, then by strength, heat treatment, etc.

Two other method of entering the charts are available. If the AWS classification designation of the desired filler metal is known, the appropriate page number can be obtained from the Index of AWS Classification designations. If the brand name is known, the page or pages on which that brand appears can be found in the Index of Brand Names.

Information concerning the manufacturing requirements, usability, and the mechanical, chemical, and other properties of a filler metal must be obtained from the respective AWS filler metal specification.¹ In cases where written assurance of specification compliance or manufacturing controls is desired (or must be documented), the user must consult the manufacturer.

Comments concerning this publication are invited, both from users and from organizations wishing to have filler metals listed. Correspondence should be addressed to the Managing Director, Technical Services, American Welding Society, 550 N.W. LeJeune Road, Miami, Florida 33126.

¹ Filler metal specifications may be purchased from the American Welding Society, 550 N.W. LeJeune Road, Miami, Florida 33126.

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A5.1-91, CARBON STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.1-91, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding

E6010

| SOURCE | PRODUCT |
|---|--|
| AIR LIQUIDE CANADA INC. | LA 6010 |
| Airco Filler Metals | Pipe-Craft |
| American Filler Metals Company | AFM 6010 |
| American Welding Alloys | AWA 6010 |
| Arcweld Products, Ltd. | EASYARC 10, EASYARC 10+ |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS S-6010 |
| Bohler Thyssen Welding USA, Inc. | Thyssen Cel 70,Bohler Fox Cel |
| CARBO-WELD Schweissmaterialien GmbH | CARBO RC 3 |
| Champion Welding Products | CHAMPION E6010 |
| D&H Secheron Electrodes Limited | CELLUTHERME |
| Electromanufacturas S.A | West Arco XL-610 , ZIP 10-T ; West Rode 600/10 |
| ESAB AB | Pipeweld 6010 |
| ESAB WELDING & CUTTING PRODUCTS | SUREWELD 10-P; SUREWELD AP-100 |
| EXSA S.A. - División Soldaduras OERLIKON | Cellocord P, PT |
| EXSA S.A.- División Fontargen | FON E 51 A, FON E 51 AT |
| HILARIUS HAARLEM HOLLAND BV | HILCO Pipeweld 6010 |
| Hobart Welding Products | PIPEMASTER 60 |
| HYUNDAI WELDING PRODUCTS, INC. | S-6010.D |
| Indura S.A. Industria y Comercio | INDURA 6010 |
| Industrial Welding Corporation | NIHONWELD N-6010 |
| Inweld Corporation | INWELD 6010 |
| Kobe Steel, LTD. | KOBE-6010 |
| Lincoln Electric Co. | Fleetweld 5P, 5P+, Easy-Arc 10 |
| Lincoln Electric Company (Australia) Pty Ltd | Fleetweld 5P, Fleetweld 5P+ |
| McKay Welding Products | MCKAY 6010 PM |
| Messer - MG Systems & Welding Inc. | MG 6010 |
| Murex Welding Products | Murex 6010 |
| Nassau Research Corp. | Tartan |
| NATWELD | E6010 |
| Stoody Company - Thermadyne Industries | Cigweld Pipearc 6010 |
| Thermal Arc | Thermal Arc TA-10 |
| Uniweld Products, Inc. | Unipipe 6, UNI-6010 |
| Washington Alloy Company | USA 6010 |

A5.1-91, CARBON STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.1-91, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding

E6011

| SOURCE | PRODUCT |
|---|--|
| AIR LIQUIDE CANADA INC. | LA ULTRA 11 |
| Airco Filler Metals | EASY-ARC 6011, 6011C |
| American Filler Metals Company | AFM 6011 |
| American Welding Alloys | AWA 6012 |
| Arcweld Products, Ltd. | ARCWELD 230 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS S-6011 |
| Champion Welding Products | CHAMPION E6011 |
| Cronatron Welding Systems | Cronaweld E 6011 |
| Electromanufacturas S.A | West Arco ACP-611 SS |
| ESAB WELDING & CUTTING PRODUCTS | SUREWELD SW-14 |
| EXSA S.A. - División Soldaduras OERLIKON | Cellocord AP |
| EXSA S.A.- División Fontargen | FON E 51 B |
| HARRIS WELCO | WELCO E6011 |
| Hobart Welding Products | HOBART 335A, HOBART 335C |
| HYUNDAI WELDING PRODUCTS, INC. | S-6011.D |
| Indura S.A. Industria y Comercio | INDURA 6011, 230P, 230S, 230, P. Azul |
| Industrial Welding Corporation | NIHONWELD N-6011 |
| Inweld Corporation | INWELD 6011 |
| Lincoln Electric Co. | Fleetweld 35, 35C, 35LS, 35+, 180, Arcweld 230 |
| Lincoln Electric Company (Australia) Pty Ltd | Fleetweld 35, Fleetweld 35LS |
| McKay Welding Products | MCKAY 6011, SOFT-ARC 6011 |
| Messer - MG Systems & Welding Inc. | MG 6011, MG 511 |
| Murex Welding Products | Murex 6011, 6011C |
| Nassau Research Corp. | Tartan |
| NATWELD | E6011 |
| Sodel Ltd | Sodel 30 |
| Stoody Company - Thermadyne Industries | Cigweld Ferrocraft 11 |
| Thermal Arc | Thermal Arc TA-11 |
| Uniweld Products, Inc. | UNI-6011 |
| Washington Alloy Company | USA 6011 |
| Weld Mold Company | 201 |

E6012

| SOURCE | PRODUCT |
|---------------------|---------------|
| Airco Filler Metals | EASY-ARC 6012 |

A5.1-91, CARBON STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.1-91, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding

E6012 (Continued from previous page)

| SOURCE | PRODUCT |
|--|-----------------------------------|
| American Filler Metals Company | AFM 6012 |
| American Welding Alloys | AWA 6012 |
| Champion Welding Products | CHAMPION E6012 |
| D&H Secheron Electrodes Limited | POPULAR |
| Electromanufacturas S.A | West Arco FP-612, ZIP-12 |
| ELGA AB | P 41 |
| ESAB WELDING & CUTTING PRODUCTS | SUREWELD SW-612 |
| EXSA S.A. - División Soldaduras OERLIKON | Overcord F, M |
| EXSA S.A.- División Fontargen | FON E 52 |
| HILARIUS HAARLEM HOLLAND BV | HILCO BROWN |
| Hobart Welding Products | HOBART 12 |
| Indura S.A. Industria y Comercio | INDURA 6012 |
| Industrial Welding Corporation | NIHONWELD N-6012 |
| Inweld Corporation | INWELD 6012 |
| Lincoln Electric Co. | Fleetweld 7, Resistens 100, Supra |
| Lincoln Electric Company (Australia) Pty Ltd | Fleetweld 7, Shieldarc 6012 |
| Messer - MG Systems & Welding Inc. | MG 6012 |
| Murex Welding Products | Murex 6012 |
| Nassau Research Corp. | Tartan |
| Uniweld Products, Inc. | UNI-6012 |
| Washington Alloy Company | USA 6012 |

E6013

| SOURCE | PRODUCT |
|---|--|
| AIR LIQUIDE CANADA INC. | LA 6013, LA6013P |
| Airco Filler Metals | EASY-ARC 6013, 6013D |
| American Filler Metals Company | AFM 6013 |
| American Welding Alloys | AWA 6013 |
| Arctec Alloys Limited | ARCTEC 220 |
| Arcweld Products, Ltd. | SATINARC |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS R-143, AS R-144, AS R-146, AS R-132 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO RR 6, CARBO RR B 7 |
| Champion Welding Products | CHAMPION E6013 |
| Chosun Steel Wire Company | CR-13 |
| Cronatron Welding Systems | Cronaweld E 6013 |

A5.1-91, CARBON STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.1-91, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding

E6013 (Continued from previous page)

| SOURCE | PRODUCT |
|---|---|
| D&H Secheron Electrodes Limited | NORMA, MEDIO, EXOBEL, ECONOTHERME |
| Electromanufacturas S.A | West Arco SW-10, SW-613, SUPER SW-613; West Rode 600/13 |
| ELGA AB | P 31, P 39, P 40, P 43, P 44, P 45 S, P 46 |
| ELGA AB | P 42 |
| ESAB AB | OK 43.32, 46.00, 50.10, 50.40 |
| ESAB WELDING & CUTTING PRODUCTS | SUREWELD SW-15; SUREWELD 6013LV |
| EXSA S.A. - División Soldaduras OERLIKON | Overcord, Overcord S, Overcord 6013 |
| EXSA S.A.- División Fontargen | FON E 53, FON E 54 |
| Faiter Elettrodi S.p.A | ETAFAITER/M |
| HARRIS WELCO | WELCO E6013 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Red Extra, Velveta, Velora, Performa |
| Hobart Welding Products | HOBART 447A, HOBART 447C |
| HYUNDAI WELDING PRODUCTS, INC. | S-6013LF, S-6013.V, S-6013.G |
| Indura S.A. Industria y Comercio | INDURA 90, 90A, 6013 |
| Industrial Welding Corporation | NIHONWELD N-6013 |
| Inweld Corporation | INWELD 6013 |
| Kobe Steel, LTD. | B-33, RB-26, TB-24, TBI24, TB-43,ZERODE-44, ZERODE-33LS |
| Lincoln Electric Co. | Fleetweld 37, 37+, 57, Satinarc, Omnia 21, 30, 46, Panta, Universalis, Pantafix, Cumulo |
| Lincoln Electric Company (Australia) Pty Ltd | Shieldarc 6013 |
| McKay Welding Products | MCKAY 6013 |
| Messer - MG Systems & Welding Inc. | MG 6013 |
| Murex Welding Products | Murex 6013, 6013D |
| Nassau Research Corp. | Tartan |
| NATWELD | E6013 |
| Sodel Ltd | Sodel 31 |
| Stoody Company - Thermadyne Industries | Cigweld Ferrocraft 13 |
| Thermal Arc | Thermal Arc TA-13 |
| Uniweld Products, Inc. | UNI-6013 |
| Washington Alloy Company | USA 6013, MS3V |
| Weld Mold Company | 200 |

A5.1-91, CARBON STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.1-91, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding

E6019

| SOURCE | PRODUCT |
|--------------------------------|-----------------------------------|
| Industrial Welding Corporation | NIHONWELD N-101 |
| Kobe Steel, LTD. | B-10, B-14, B-17, BI-14, ZERODE-1 |

E6020

| SOURCE | PRODUCT |
|---------------------------------|------------------|
| Champion Welding Products | CHAMPION E6020 |
| D&H Secheron Electrodes Limited | UNITHERME |
| Industrial Welding Corporation | NIHONWELD N-6020 |

E6022

| SOURCE | PRODUCT |
|---------------------------------|------------------|
| Chosun Steel Wire Company | CL-101 |
| D&H Secheron Electrodes Limited | CELLUTHERME |
| Hobart Welding Products | HOBART 1139 |
| Industrial Welding Corporation | NIHONWELD N-6022 |
| Lincoln Electric Co. | Fleetweld 22 |

E6027

| SOURCE | PRODUCT |
|--|--------------------|
| American Welding Alloys | AWA 6027 |
| D&H Secheron Electrodes Limited | DEEPEX |
| Electromanufacturas S.A | West Arco ZIP-27 |
| ESAB AB | OK Femax 39.50 |
| EXSA S.A. - División Soldaduras OERLIKON | Ferrocito 27 |
| EXSA S.A.- División Fontargen | FON E 59 |
| HYUNDAI WELDING PRODUCTS, INC | S-6027.LF |
| Indura S.A. Industria y Comercio | FACILARC 15 |
| Industrial Welding Corporation | NIHONWELD N-6027 |
| Lincoln Electric Co. | Jetweld 2 |
| Murex Welding Products | Murex 6027 |
| Washington Alloy Company | USA 6027 |

E7014

| SOURCE | PRODUCT |
|-------------------------|---------------|
| AIR LIQUIDE CANADA INC. | LA 7014 |
| Airco Filler Metals | EASY-ARC 7014 |

A5.1-91, CARBON STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.1-91, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding

E7014 (Continued from previous page)

| SOURCE | PRODUCT |
|---|------------------------------|
| American Filler Metals Company | AFM 7014 |
| American Welding Alloys | AWA 7014 |
| Arcweld Products, Ltd. | EASYARC 14 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS R-116 |
| Champion Welding Products | CHAMPION E7014 |
| Chosun Steel Wire Company | CR-14 |
| D&H Secheron Electrodes Limited | RAPIDEX |
| Electromanufacturas S.A | West Arco ZIP-14 |
| ESAB AB | OK 46.16 |
| ESAB WELDING & CUTTING PRODUCTS | SUREWELD SW-15IP |
| HARRIS WELCO | WELCO E7014 |
| Hobart Welding Products | HOBART 14A |
| HYUNDAI WELDING PRODUCTS, INC. | S-7014.F |
| Indura S.A. Industria y Comercio | FACILARC 14 |
| Industrial Welding Corporation | NIHONWELD N-7014 |
| Inweld Corporation | INWELD 7014 |
| Lincoln Electric Co. | Fleetweld 47, Easy-Arc 14 |
| McKay Welding Products | MCKAY 7014 |
| Messer - MG Systems & Welding Inc. | MG 7014 |
| Murex Welding Products | Murex 7014 |
| Nassau Research Corp. | Polaris |
| NATWELD | E7014 |
| Stoody Company - Thermadyne Industries | Cigweld Ferrocraft 21 |
| Uniweld Products, Inc. | UNI-7014 |
| Washington Alloy Company | USA 7014 |
| Weld Mold Company | 204 |

E7015

| SOURCE | PRODUCT |
|----------------------------------|-----------------------|
| American Welding Alloys | AWA 7015 |
| Champion Welding Products | CHAMPION E7015 |
| Euroweld, Ltd. | E7015 |
| Industrial Welding Corporation | NIHONWELD N-7015 |
| Nassau Research Corp. | Polaris |

A5.1-91, CARBON STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.1-91, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding

E7016

| SOURCE | PRODUCT |
|--|--|
| Airco Filler Metals | EASY-ARC 7016 |
| American Filler Metals Company | AFM 7016 |
| American Welding Alloys | AWA 7016 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS B-268 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO BR 10 D |
| Champion Welding Products | CHAMPION E7016 |
| D&H Secheron Electrodes Limited | INDOTHERME |
| Electromanufacturas S.A | West Arco WIZ-16 |
| ELGA AB | P 47, P 47 D, P 47 P |
| ESAB AB | OK 53.00, 53.04, 53.05, 53.16, 53.68, 53.70 |
| ESAB WELDING & CUTTING PRODUCTS | SUREWELD 70LA-2 |
| Euroweld, Ltd. | E7016 |
| EXSA S.A. - División Soldaduras OERLIKON | Univers |
| EXSA S.A.- División Fontargen | FON E 60 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Basic 55 |
| HYUNDAI WELDING PRODUCTS, INC. | S-7016.G, S-7016.H, S-7016.LF, S-7016.M, S-7016.O |
| Indura S.A. Industria y Comercio | INDURA 7016 |
| Industrial Welding Corporation | NIHONWELD N-7016 |
| Kobe Steel, LTD. | LB-24, LB-26, LB-47, LB-50A, LB-52, LB-52A, LB-52U, LB-52UL, LBM-26, LBM-52, ZERODE-52, LB-57, BL-76 |
| Lincoln Electric Co. | Jet-LH 7016, Lincoln 16P Baso 100, Conarc 51 (E7016-1) |
| Lincoln Electric Company (Australia) Pty Ltd | Jetweld LH-76, Shieldarc 7016 |
| Murex Welding Products | Murex 7016 |
| Sodel Ltd | Sodel 127 |
| Washington Alloy Company | USA 7016 |

E7018

| SOURCE | PRODUCT |
|---------------------------------------|---|
| AIR LIQUIDE CANADA INC. | LA 7018, LA 18 PLUS, LA 18 LMP, LA EXCELARC 18, NUCLEARC 7018 |
| Airco Filler Metals | EASY-ARC 7018 MR, 7018AC, CODE-ARC 7018 MR, 7018 N MR |
| American Filler Metals Company | AFM 7018, 7018-1 |
| American Welding Alloys | AWA 7018 |
| Arctec Alloys Limited | ARCTEC 224 (Super 18) |
| Arcweld Products, Ltd. | EASYARC 528MR (E7018-1), EASYARC 428MR (E7018-1), |

A5.1-91, CARBON STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.1-91, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding

E7018 (Continued from previous page)

| SOURCE | PRODUCT |
|---|--|
| | EASYARC 328(E7018-1), EASYARC 328 AC |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS B-248, AS B-255, AS B-204 |
| Bohler Thyssen Welding USA, Inc. | UTP 614 Kb, Thyssen 120K |
| CARBO-WELD Schweissmaterialien GmbH | CARBO B 10 |
| Champion Welding Products | CHAMPION E7018 |
| Chosun Steel Wire Company | LC-318 |
| Cronatron Welding Systems | Cronaweld E 7018 |
| D&H Secheron Electrodes Limited | SUPRATHERME, SUPRATHERME (SPL) |
| Electromanufacturas S.A | West Arco WIZ-18, WIZ-18S; West Rode 09, 70 Básico |
| ELGA AB | P 48 P |
| ELGA AB | P 48 S, P 51, LB-52LT-18 |
| ESAB AB | OK 48.00, 48.04, 48.05, 48.15, 48.18, 48.68, 55.00 |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 7018, 7018-1, 7018-AC, 7018-SR |
| Euroweld, Ltd. | E7018, E7018-1 |
| EXSA S.A. - División Soldaduras OERLIKON | SUPERCITO, SUPERCITO 18 |
| EXSA S.A.- División Fontargen | FON E 61 |
| HARRIS WELCO | WELCO E7018 |
| HILARIUS HAARLEM HOLLAND BV | HILCO BASIC DIRECTA, BASIC SUPER (7018-1) |
| Hobart Welding Products | HOBART 418, 718MC, 18AC, Quantum Blue 7018-1 |
| HYUNDAI WELDING PRODUCTS, INC. | S-7018.G |
| Indura S.A. Industria y Comercio | INDURA 7018-RH, 7018-CA |
| Industrial Welding Corporation | NIHONWELD N-7018 |
| Inweld Corporation | INWELD 7018 |
| Kobe Steel, LTD. | LB-52-18, LTB-52A |
| Lincoln Electric Co. | Jetweld LH-70, LH-73, LH-75 MR (E7018-1), Jet-LH 78 MR, Lincoln 7018 MR, Lincoln 7018AC, Lincoln LH 7018N MR, Lincoln 7018-1, Excalibur 7018, Excalibur 7018-1, Baso 120, Baso G (E7018-1), Baso 48SP (E7018-1), Conarc 49, Conarc 49C (E7018-1) |
| Lincoln Electric Co. | Optimarc, Formula 1-LH, Easy-Arc 328, 428 MR, 528 MR, 328 AC |
| Lincoln Electric Company (Australia) Pty Ltd | Jetweld LH-70, Jetweld LH-75 MR (E7018-1), Shieldarc 7018 |
| McKay Welding Products | McKay 7018XLM, SOFT-ARC 7018-1, McKay 7018 AC |
| Messer - MG Systems & Welding Inc. | MG 7018, MG 518 |
| Murex Welding Products | Murex B7018 MR, 7018 MR, 7018AC, Murex Speedex HTS-M MR, Murex Speedex HTS-N MR |

A5.1-91, CARBON STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.1-91, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding

E7018 (Continued from previous page)

| SOURCE | PRODUCT |
|--|-----------------------|
| Nassau Research Corp. | Polaris |
| NATWELD | E7018 |
| Sodel Ltd | Sodel 318 |
| Stoody Company - Thermadyne Industries | Cigweld Ferrocraft 61 |
| Thermal Arc | Thermal Arc TA-18 |
| Uniweld Products, Inc. | UNI-7018, UNI-7018AC |
| Washington Alloy Company | USA 7018, USA 7018-1 |

E7018M

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| Airco Filler Metals | CODE-ARC 7018M MR |
| American Welding Alloys | AWA 7018M |
| ELGA AB | P 48 |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 7018-M |
| Euroweld, Ltd. | E7018M |
| Industrial Welding Corporation | NIHONWELD N-7018M |
| Lincoln Electric Co. | Lincoln 7018M MR |
| Murex Welding Products | Murex Speedex 7018M MR |

E7024

| SOURCE | PRODUCT |
|---|---------------------------------|
| AIR LIQUIDE CANADA INC. | LA 7024, LA 24 HD |
| Airco Filler Metals | EASY-ARC 7024 |
| American Filler Metals Company | AFM 7024 |
| American Welding Alloys | AWA 7024 |
| Arcweld Products, Ltd. | EASYARC 12 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS DT-180, AS DT-165 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO RR 11 |
| Champion Welding Products | CHAMPION E7024 |
| Chosun Steel Wire Company | CR-24 |
| D&H Secheron Electrodes Limited | FERROVITE |
| Electromanufacturas S.A | West Arco ZIP-24 |
| ELGA AB | MAXETA 10, MAXETA 11, MAXETA 16 |
| ELGA AB | MAXETA 11S |
| ESAB AB | OK Femax 33.60, 33.80 |

A5.1-91, CARBON STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.1-91, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding

E7024 (Continued from previous page)

| SOURCE | PRODUCT |
|---|--|
| ESAB WELDING & CUTTING PRODUCTS | SUREWELD 7024; SUREWELD 7024-1 |
| EXSA S.A. - División Soldaduras OERLIKON | Ferrocito 24 |
| EXSA S.A.- División Fontargen | FON E 58 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Regina 150 (7024-1), Regina 160, Regina 180 |
| Hobart Welding Products | HOBART 24 |
| HYUNDAI WELDING PRODUCTS, INC. | S-7024.F |
| Indura S.A. Industria y Comercio | FACILARC 12, FACILARC 13 |
| Industrial Welding Corporation | NIHONWELD N-7024 |
| Inweld Corporation | INWELD 7024 |
| Kobe Steel, LTD. | ZERODE-43F, ZERODE-50F |
| Lincoln Electric Co. | Jetweld 1 (E7024-1), Jetweld 3, Easy-Arc 12, Ferrod 120T, 135T, 160T, 185T, Ferrod 165A (E7024-1), Autoferrod 2 (E7024-1), Geofors |
| Lincoln Electric Company (Australia) Pty Ltd | Shieldarc 7024 |
| McKay Welding Products | MCKAY 7024 |
| Messer - MG Systems & Welding Inc. | MG 7024 |
| Murex Welding Products | Murex 7024 |
| Nassau Research Corp. | Polaris |
| Sodel Ltd | Sodel 314 |
| Stoody Company - Thermadyne Industries | Cigweld Ferrocraft 22 |
| Thermal Arc | Thermal Arc TA-24 |
| Uniweld Products, Inc. | UNI-7024 |
| Washington Alloy Company | USA 7024 |
| Weld Mold Company | 224 |

E7027

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| ELGA AB | MAXETA 5, MAXETA 6 |
| Industrial Welding Corporation | NIHONWELD N-7027 |
| Kobe Steel, LTD. | ZERODE-27 |

E7028

| SOURCE | PRODUCT |
|-------------------------|---------------|
| AIR LIQUIDE CANADA INC. | LA 7028 |
| Airco Filler Metals | EASY-ARC 7028 |
| American Welding Alloys | AWA 7028 |

A5.1-91, CARBON STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.1-91, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding

E7028 (Continued from previous page)

| SOURCE | PRODUCT |
|--|-------------------------------------|
| Arcweld Products, Ltd. | ARCWELD SUPER 28 |
| Champion Welding Products | CHAMPION E7028 |
| Chosun Steel Wire Company | LC-328 |
| D&H Secheron Electrodes Limited | FERROVITE - B |
| Electromanufacturas S.A | West Arco ZIP-28 |
| ELGA AB | MAXETA 20, MAXETA 21, MAXETA 22 |
| ESAB AB | OK Femax 38.48, 38.65, 38.85, 38.95 |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 7028 |
| Euroweld, Ltd. | E7028 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Basic 160 |
| HYUNDAI WELDING PRODUCTS, INC. | S-7028.F |
| Industrial Welding Corporation | NIHONWELD N-7028 |
| Kobe Steel, LTD. | LB-52-28, LBF-52A, LBI-52H |
| Lincoln Electric Co. | Jetweld LH-3800, Conarc L150, V180 |
| Murex Welding Products | Murex 7028 |
| Washington Alloy Company | USA 7028 |

E7048

| SOURCE | PRODUCT |
|---|---------------------------------|
| Airco Filler Metals | CODE-ARC 7048 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS B-235 |
| ELGA AB | LB 52 T |
| ELGA AB | LB-26V, P 54 |
| ESAB AB | OK 53.35 |
| Euroweld, Ltd. | E7048 |
| HYUNDAI WELDING PRODUCTS, INC. | S-7048.V |
| Industrial Welding Corporation | NIHONWELD N-7048 |
| Kobe Steel, LTD. | LB-26V, LB-52T, LB-52V, ZERO-6V |
| Lincoln Electric Co. | Baso 26V |
| Murex Welding Products | Murex 7048 |
| Washington Alloy Company | USA 7048 |

A5.2-92, CARBON AND LOW ALLOY Bare Gas Welding Rods

See ANSI/AWS A5.2-92, Specification for Carbon and Low Alloy Steel Rods for Oxyfuel Gas Welding

R45

| SOURCE | PRODUCT |
|--|---|
| AIR LIQUIDE CANADA INC. | HERCULES IRON |
| All-State Welding Products | RG45 |
| American Filler Metals Company | AFM RG45 |
| Champion Welding Products | CHAMPION R45 |
| Crown Alloys Company | Crown #5 |
| Electromanufacturas S.A | West Arco Velosol, West Rode West -Iron |
| ESAB WELDING & CUTTING PRODUCTS | OXWELD 7 |
| EXSA S.A. - División Soldaduras OERLIKON | A-1C |
| EXSA S.A.- División Fontargen | FON A 100 GV0 |
| HARRIS WELCO | WELCO W-1060 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Fer G1 |
| Indura S.A. Industria y Comercio | INDURA 17 |
| Inweld Corporation | INWELD RG-45 |
| Lincoln Electric Co. | Lincoln R45 |
| Nassau Research Corp. | Tartan |
| NATWELD | RG45 |
| SOWESCO | Pinnacle Alloys R45 |
| Uniweld Products, Inc. | STEEL 45 |
| Washington Alloy Company | RG 45 |
| WELDWIRE COMPANY INC. | RG45 |

R60

| SOURCE | PRODUCT |
|--|------------------------------|
| AIR LIQUIDE CANADA INC. | LA SUPERWELD |
| All-State Welding Products | RG60 |
| American Filler Metals Company | AFM RG-60 |
| Champion Welding Products | CHAMPION R60 |
| Crown Alloys Company | Crown #4 |
| ESAB AB | OK Gasrod 98.70 |
| ESAB WELDING & CUTTING PRODUCTS | OXWELD 1HT |
| EXSA S.A. - División Soldaduras OERLIKON | A-2C |
| EXSA S.A.- División Fontargen | FON A 100 GVI |
| HARRIS WELCO | WELCO W-1200 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Fer G2, Fer G3, Fer G4 |
| Inweld Corporation | INWELD RG-60 |

A5.2-92, CARBON AND LOW ALLOY Bare Gas Welding Rods

See ANSI/AWS A5.2-92, Specification for Carbon and Low Alloy Steel Rods for Oxyfuel Gas Welding

R60 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|---------------------|
| Lincoln Electric Co. | Lincoln R60 |
| Nassau Research Corp. | Tartan |
| NATWELD | RG60 |
| SOWESCO | Pinnacle Alloys R60 |
| Uniweld Products, Inc. | STEEL 60 |
| Washington Alloy Company | RG 60 |
| WELDWIRE COMPANY INC. | WW RG60 |

R65

| SOURCE | PRODUCT |
|--|---------------------|
| AIR LIQUIDE CANADA INC. | LA Hi-Tensile |
| All-State Welding Products | RG65 |
| American Filler Metals Company | AFM RG-65 |
| Champion Welding Products | CHAMPION R65 |
| D&H Secheron Electrodes Limited | FERROVITE-B |
| ESAB WELDING & CUTTING PRODUCTS | OXWELD 32CMS |
| EXSA S.A. - División Soldaduras OERLIKON | A-2 Mo C/P |
| EXSA S.A.- División Fontargen | FON A 100 GVII |
| Nassau Research Corp. | Tartan |
| SOWESCO | Pinnacle Alloys R65 |

A5.3-91, ALUMINUM AND ALUMINUM ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.3-91, Specification for Aluminum and Aluminum Alloy Electrodes for Shielded Metal Arc Welding

E1100

| SOURCE | PRODUCT |
|---|-----------------------|
| American Welding Alloys | AWA 1100 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS AL-99 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO AL 99,8 |
| Champion Welding Products | CHAMPION E1100 |
| Euroweld, Ltd. | E1100 |
| HILARIUS HAARLEM HOLLAND BV | HILCO ALUMINIL 99,8 |
| Lincoln Electric Co. | AI 99.8 |
| Messer - MG Systems & Welding Inc. | E 1100 |
| Washington Alloy Company | Aluminum 99FC |

E3003

| SOURCE | PRODUCT |
|------------------------------------|-----------------------|
| Champion Welding Products | CHAMPION E3003 |
| HILARIUS HAARLEM HOLLAND BV | HILCO ALUMINIL Mn |
| Messer - MG Systems & Welding Inc. | E 3003 |

E4043

| SOURCE | PRODUCT |
|---|--|
| Airco Filler Metals | Airco 43 |
| All-State Welding Products | 34 |
| American Filler Metals Company | Alum Arc |
| American Welding Alloys | AWA 4043 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS Alsi-5 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO AL SI 5 |
| Champion Welding Products | CHAMPION E4043 |
| COR-MET INC. | 4043 |
| Cronatron Welding Systems | Cronaweld E 4043 |
| Crown Alloys Company | Royal 300 |
| Electromanufacturas S.A | West Alum |
| Euroweld, Ltd. | E4043 |
| EXSA S.A. - División Soldaduras OERLIKON | ALCORD 5 Si, EXSA 4043 |
| EXSA S.A.- División Fontargen | FON E 406 |
| HARRIS WELCO | WELCO 26 |
| HILARIUS HAARLEM HOLLAND BV | HILCO ALUMINIL Si 5, ALUMINIL Si 12 (4047) |
| Inweld Corporation | INWELD A3AL |

A5.3-91, ALUMINUM AND ALUMINUM ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.3-91, Specification for Aluminum and Aluminum Alloy Electrodes for Shielded Metal Arc Welding

E4043 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------------|-----------------------------|
| Lincoln Electric Co. | Aluminweld 43, RepTec AISi5 |
| Messer - MG Systems & Welding Inc. | MG 400 |
| Murex Welding Products | Murex 4043 |
| Nassau Research Corp. | Neptune |
| NATWELD | ALUMINUM ELECTRODE |
| Oxford Alloys, Inc. | OXFORD E4043 |
| Sodel Ltd | Sodel 18, Sodel 118 |
| Uniweld Products, Inc. | UNI-4043 |
| Washington Alloy Company | Aluminum 345 |
| Weld Mold Company | 11C |
| WELDWIRE COMPANY INC. | WW 4043 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E209-15

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| Astrolite Alloys | Astrolite 209-15 |
| Euroweld, Ltd. | E209-15 |
| Industrial Welding Corporation | NIHONWELD NSS-209D |
| Oxford Alloys, Inc. | OXFORD E209-15 |

E209-16

| SOURCE | PRODUCT |
|--------------------------------|------------------------------|
| Astrolite Alloys | Astrolite 209-16 |
| Industrial Welding Corporation | NIHONWELD NSS-209 |
| Oxford Alloys, Inc. | OXFORD E209-16 |
| Washington Alloy Company | USA 209-16 , Nitro 50 Coated |
| WELDWIRE COMPANY INC. | WW 209-16 |

E209-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 209-17 |
| Industrial Welding Corporation | NIHONWELD NSS-209-17 |

E209-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 209-25 |
| Euroweld, Ltd. | E209-25 |
| Industrial Welding Corporation | NIHONWELD NSS-209-25 |

E209-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 209-26 |
| Euroweld, Ltd. | E209-26 |
| Industrial Welding Corporation | NIHONWELD NSS-209-26 |

E219-15

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| Astrolite Alloys | Astrolite 219-15 |
| Industrial Welding Corporation | NIHONWELD NSS-219D |
| Oxford Alloys, Inc. | OXFORD E219-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E219-16

| SOURCE | PRODUCT |
|---------------------------------|------------------------------------|
| Astrolite Alloys | Astrolite 219-16 |
| Industrial Welding Corporation | NIHONWELD NSS-219 |
| Oxford Alloys, Inc. | OXFORD E219-16 |
| Washington Alloy Company | USA 219-16, Nitro 40 Coated |
| WELDWIRE COMPANY INC. | WW 219-16 |

E219-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 219-17 |
| Industrial Welding Corporation | NIHONWELD NSS-219-17 |

E219-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 219-25 |
| Euroweld, Ltd. | E219-25 |
| Industrial Welding Corporation | NIHONWELD NSS-219-25 |

E219-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 219-26 |
| Euroweld, Ltd. | E219-26 |
| Industrial Welding Corporation | NIHONWELD NSS-219-26 |

E240-15

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Astrolite Alloys | Astrolite 240-15 |
| Industrial Welding Corporation | NIHONWELD NSS-240D |
| Oxford Alloys, Inc. | OXFORD E240-15 |

E240-16

| SOURCE | PRODUCT |
|---------------------------------|------------------------------------|
| Astrolite Alloys | Astrolite 240-16 |
| Industrial Welding Corporation | NIHONWELD NSS-240 |
| Oxford Alloys, Inc. | OXFORD E240-16 |
| Washington Alloy Company | USA 240-16, Nitro 35 Coated |
| WELDWIRE COMPANY INC. | WW 240-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E240-17

SOURCE**PRODUCT**

Astrolite Alloys

Astrolite 240-17

Industrial Welding Corporation

NIHONWELD NSS-240-17

E240-25

SOURCE**PRODUCT**

Astrolite Alloys

Astrolite 240-25

Euroweld, Ltd.

E240-25

Industrial Welding Corporation

NIHONWELD NSS-240-25

E240-26

SOURCE**PRODUCT**

Astrolite Alloys

Astrolite 240-26

Euroweld, Ltd.

E240-26

Industrial Welding Corporation

NIHONWELD NSS-240-26

E307-15

SOURCE**PRODUCT**

Arcos Alloys

Arcos E307-15

Champion Welding Products**CHAMPION E307-15**

D&H Secheron Electrodes Limited

SIA

ELGA AB

CROMAROD 307 B

ESAB AB

OK 67.45

Euroweld, Ltd.

E307-15

Industrial Welding Corporation

NIHONWELD NSS-307D

Oxford Alloys, Inc.**OXFORD E307-15****Washington Alloy Company****USA 307-15**

WELDWIRE COMPANY INC.

E307-15

E307-16

SOURCE**PRODUCT**

American Welding Alloys

AWA 307-16

Arcos Alloys

Arcos E307-16

Askaynak Kaynak Teknigi Sanayi Ticaret A.S.

AS P-307S, AS P-308L

Champion Welding Products**CHAMPION E307-16**

D&H Secheron Electrodes Limited

SIA (Rutile)

Electromanufacturas S.A

West Rode 201014

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E307-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|----------------------------------|
| Euroweld, Ltd. | E307-16 |
| EXSA S.A. - División Soldaduras OERLIKON | CITORIEL 801 |
| EXSA S.A.- División Fontargen | FON E 107 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilchrome 307 R |
| Industrial Welding Corporation | NIHONWELD NSS-307 |
| Lincoln Electric Co. | RepTec 126 |
| Messer - MG Systems & Welding Inc. | E307-16 |
| Oxford Alloys, Inc. | OXFORD E307-16 |
| Washington Alloy Company | USA 307-16, Armorweld 307 |
| Weld Mold Company | 307C |
| WELDWIRE COMPANY INC. | E307-16 |

E307-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-307-17 |

E307-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| ESAB AB | OK 67.52 |
| Euroweld, Ltd. | E307-25 |
| Industrial Welding Corporation | NIHONWELD NSS-307-25 |

E307-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| ELGA AB | ELGALLOY MIX 18 |
| Euroweld, Ltd. | E307-26 |
| EXSA S.A.- División Fontargen | FON E 1107 H |
| Industrial Welding Corporation | NIHONWELD NSS-307-26 |

E308-15

| SOURCE | PRODUCT |
|----------------------------------|-------------------------|
| Airco Filler Metals | CODE-ARC 308/308L-V MR |
| All-State Welding Products | 308-15 |
| Arcos Alloys | Arcos E308-15 |
| Bohler Thyssen Welding USA, Inc. | UTP 68Kb |
| Champion Welding Products | CHAMPION E308-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E308-15 (Continued from previous page)

| SOURCE | PRODUCT |
|--|---|
| Crown Alloys Company | Crown 308-15 |
| D&H Secheron Electrodes Limited | BATOX-A |
| Electromanufacturas S.A | Cromarco 308-15 |
| EXSA S.A. - División Soldaduras OERLIKON | Inox A |
| Industrial Welding Corporation | NIHONWELD NSS-308-15 |
| Lincoln Electric Co. | Stainweld 308-15, Red Baron 308/308L-V MR |
| McKay Welding Products | 308/308H DC LIME |
| Murex Welding Products | Murex 308/308L-V MR |
| Oxford Alloys, Inc. | OXFORD E308-15 |
| Sodel Ltd | Sodel 308-15 |
| Washington Alloy Company | USA 308-15 |
| Weld Mold Company | 308-15 |
| WELDWIRE COMPANY INC. | E308-15 |

E308-16

| SOURCE | PRODUCT |
|--|--|
| Airco Filler Metals | CODE-ARC 308/308H MR |
| All-State Welding Products | 308-16 |
| American Filler Metals Company | AFM 308-16 |
| American Welding Alloys | AWA 308-16 |
| Arcos Alloys | Arcos E308-16 |
| Champion Welding Products | CHAMPION E308-16 |
| Crown Alloys Company | Crown 308-16 |
| D&H Secheron Electrodes Limited | RUTOX-A |
| Dytron Corporation | 308-16 |
| Electromanufacturas S.A | Cromarco 308-16 |
| EXSA S.A. - División Soldaduras OERLIKON | Inox AW |
| HARRIS WELCO | WELCO E308-16 |
| Hobart Welding Products | SMOOTHARC PLUS 308/308H-16 |
| HYUNDAI WELDING PRODUCTS, INC. | S-308.16 |
| Indura S.A. Industria y Comercio | INDURA 19-9 |
| Industrial Welding Corporation | NIHONWELD NSS-308 |
| Inweld Corporation | INWELD 308-16 |
| Kobe Steel, LTD. | HIMELT-308, NC-38 |
| Lincoln Electric Co. | Stainweld 308/308L-16, Red Baron 308/308H MR |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E308-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|-------------------------|
| McKay Welding Products | 308/308H AC-DC |
| Messer - MG Systems & Welding Inc. | 6308-16 |
| Midalloy, Inc. | Chromax E308-16 |
| Murex Welding Products | Murex 308/308H MR |
| Nassau Research Corp. | Gemini |
| NATWELD | E308-16 |
| Nippon Welding Rod Co., Ltd. | WEL 308 |
| NOF Corporation | RNY308, EN308 |
| Oxford Alloys, Inc. | OXFORD E308-16 |
| Sodel Ltd | Sodel 308-16 |
| Stoody Company - Thermadyne Industries | Stoody 308-16 |
| Techalloy Company, Inc. | RACO 308/308H |
| Uniweld Products, Inc. | UNI-308-16 |
| Washington Alloy Company | BetterArc 308-16 |
| Weld Mold Company | 308-16 |
| WELDWIRE COMPANY INC. | E308-16 |

E308-17

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------|
| Airco Filler Metals | DRAG'N-ARC 308/308L |
| All-State Welding Products | Smoothcote Plus 308L |
| Arcos Alloys | Arcos E308-17 |
| Avesta Welding Products Inc. | AVESTA 308-17 |
| Hobart Welding Products | DIAMOND ARC 308/308H-17 |
| Industrial Welding Corporation | NIHONWELD NSS-308-17 |
| Lincoln Electric Co. | Blue Max 308/308L AC-DC |
| McKay Welding Products | STERLING 308/308H-17 |
| Murex Welding Products | Mur-Arc 308/308L |
| Nippon Welding Rod Co., Ltd. | WEL AZ 308 |
| Oxford Alloys, Inc. | OXFORD E308-17 |
| WELDWIRE COMPANY INC. | WW 308-17 |

E308-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-308-25 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E308-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Airco Filler Metals | EASY-ARC 308 AC-DC |
| Industrial Welding Corporation | NIHONWELD NSS-308-26 |
| Murex Welding Products | Ferrocure 308 AC-DC |
| Sodel Ltd | Sodel 308 HR |

E308H-15

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| Arcos Alloys | Arcos E308H-15 |
| Champion Welding Products | CHAMPION E308H-15 |
| D&H Secheron Electrodes Limited | BATOX - AH |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 308/308H-15 |
| Euroweld, Ltd. | E308H-15, 16 |
| Industrial Welding Corporation | NIHONWELD NSS-308HD |
| McKay Welding Products | 308/308H DC LIME |
| Oxford Alloys, Inc. | OXFORD E308H-15 |
| Sodel Ltd | Sodel 308H-15 |
| Washington Alloy Company | USA 308H-15 |
| WELDWIRE COMPANY INC. | E308H-15 |

E308H-16

| SOURCE | PRODUCT |
|---------------------------------------|--------------------------------|
| Airco Filler Metals | CODE-ARC 308/308H MR |
| American Filler Metals Company | AFM 308H-16 |
| American Welding Alloys | AWA 308H-16 |
| Arcos Alloys | Arcos E308H-16 |
| Bohler Thyssen Welding USA, Inc. | UTP 6820 |
| Champion Welding Products | CHAMPION E308H-16 |
| D&H Secheron Electrodes Limited | RUTOX - AH |
| Electromanufacturas S.A | Cromarco 308H-16; West Rode 4H |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 308/308H-16 |
| Euroweld, Ltd. | E308H-16 |
| Hobart Welding Products | SMOOTHARC 308/308H-16 |
| Industrial Welding Corporation | NIHONWELD NSS-308H |
| Lincoln Electric Co. | Red Baron 308/308H MR |
| McKay Welding Products | 308/308H AC-DC |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E308H-16 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------------|------------------------|
| Messer - MG Systems & Welding Inc. | 6308H-16 |
| Midalloy, Inc. | Chromax E308H-16 |
| Murex Welding Products | Murex 308/308H MR |
| Nassau Research Corp. | Gemini |
| Nippon Welding Rod Co., Ltd. | WEL 308HTS |
| NOF Corporation | RNY308HT |
| Oxford Alloys, Inc. | OXFORD E308H-16 |
| Sodel Ltd | Sodel 308H-16 |
| Techalloy Company, Inc. | RACO 308/308H |
| Washington Alloy Company | USA 308H-16 |
| WELDWIRE COMPANY INC. | E308H-16 |

E308H-17

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------|
| Arcos Alloys | Arcos E308H-17 |
| Avesta Welding Products Inc. | AVESTA 308H-17 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4948 B |
| ELGA AB | CROMAROD 308 H |
| Hobart Welding Products | DIAMOND ARC 308/308H-17 |
| Industrial Welding Corporation | NIHONWELD NSS-308H-17 |
| McKay Welding Products | STERLING 308/308H-17 |
| Oxford Alloys, Inc. | OXFORD E308H-17 |
| WELDWIRE COMPANY INC. | WW 308H-17 |

E308H-25

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Euroweld, Ltd. | E308H-25 |
| Industrial Welding Corporation | NIHONWELD NSS-308H-25 |

E308H-26

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Euroweld, Ltd. | E308H-26 |
| Industrial Welding Corporation | NIHONWELD NSS-308H-26 |
| Sodel Ltd | Sodel 308H HR |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E308L-15

| SOURCE | PRODUCT |
|---|--------------------------|
| Airco Filler Metals | CODE-ARC 308/308L-V MR |
| All-State Welding Products | 308L-15 |
| Arcos Alloys | Arcos E308L-15 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS P-308L |
| Avesta Welding Products Inc. | AVESTA 308L-15 |
| Bohler Thyssen Welding USA, Inc. | UTP 68 LCKb |
| Champion Welding Products | CHAMPION E308L-15 |
| Chosun Steel Wire Company | NC-308L |
| Crown Alloys Company | Crown 308L-15 |
| D&H Secheron Electrodes Limited | BATOX - B |
| Electromanufacturas S.A | Cromarco 308L-15 |
| ESAB AB | OK 61.35 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 308L-15 |
| Euroweld, Ltd. | E308L-15 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Brown |
| Industrial Welding Corporation | NIHONWELD NSS-308LD |
| Inweld Corporation | INWELD 308L-15 |
| Lincoln Electric Co. | Red Baron 308/308L-V MR |
| McKay Welding Products | 308L DC LIME |
| Murex Welding Products | Murex 308/308L-V MR |
| Oxford Alloys, Inc. | OXFORD E308L-15 |
| Sodel Ltd | Sodel 308L-15 |
| Washington Alloy Company | USA 308L-15 |
| Weld Mold Company | 308L-15 |
| WELDWIRE COMPANY INC. | E308L-15 |

E308L-16

| SOURCE | PRODUCT |
|---------------------------------------|-------------------|
| Airco Filler Metals | CODE-ARC 308L MR |
| All-State Welding Products | 308L-16 |
| American Filler Metals Company | AFM308L-16 |
| American Welding Alloys | AWA 308L-16 |
| Arcos Alloys | Arcos E308L-16 |
| Arctec Alloys Limited | ARCTEC E308L-16 |
| Bohler Thyssen Welding USA, Inc. | UTP 6820 LC |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E308L-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--|
| Champion Welding Products | CHAMPION E308L-16 |
| Crown Alloys Company | Crown 308L-16 |
| D&H Secheron Electrodes Limited | RUTOX - B |
| Dytron Corporation | 308L-16 |
| Electromanufacturas S.A | Cromarco 308L-16, 308L-16 Premium; West Rode 4L Básico |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 308L-16 |
| EXSA S.A. - División Soldaduras OERLIKON | Inox AW ELC |
| EXSA S.A.- División Fontargen | FON E 124 |
| HARRIS WELCO | WELCO E308L-16 WELCO E308L-16 VERTICAL DOWN |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 304 |
| Hobart Welding Products | SMOOTHARC PLUS 308L-16 |
| HYUNDAI WELDING PRODUCTS, INC. | S-308L.16N |
| Indura S.A. Industria y Comercio | INDURA 308L |
| Industrial Welding Corporation | NIHONWELD NSS-308L |
| Inweld Corporation | INWELD 308L-16 |
| Kobe Steel, LTD. | HIMELT-308L, NC-38L, NC-38LT, NC-38EL, NC-38ULC |
| Lincoln Electric Co. | Stainweld 308/308L-16, Red Baron 308L MR |
| McKay Welding Products | 308L AC-DC |
| Messer - MG Systems & Welding Inc. | 6308L-16 |
| Midalloy, Inc. | Chromaz E308L-16 |
| Murex Welding Products | Murex 308L MR |
| Nassau Research Corp. | Gemini |
| NATWELD | E308L-16 |
| Nippon Welding Rod Co., Ltd. | WEL 308L, 308LA, 308ELC, 308ULC |
| NOF Corporation | RNY308L, 308L3, 308L2, 308LA, EN308L |
| Oxford Alloys, Inc. | OXFORD E308L-16 |
| Sodel Ltd | Sodel 308L-16 |
| Stoody Company - Thermadyne Industries | Stoody 308L-16 |
| Techalloy Company, Inc. | RACO 308L |
| Uniweld Products, Inc. | UNI-308L-16 |
| Washington Alloy Company | BetterArc 308L-16 |
| Weld Mold Company | 308L-16 |
| WELDWIRE COMPANY INC. | E308L-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E308L-17

| SOURCE | PRODUCT |
|--|---|
| Airco Filler Metals | DRAG'N-ARC 308/308L |
| All-State Welding Products | Smoothcote Plus 308L |
| Arcos Alloys | Arcos E308L-17 |
| Arctec Alloys Limited | ARCTEC E308L-17 |
| Avesta Welding Products Inc. | AVESTA 308L-17 |
| Bohler Thyssen Welding USA, Inc. | Bohler EAS 2-A, Thyssen JEW |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4316 AC |
| Crown Alloys Company | Crown 308L-17 |
| ELGA AB | CROMAROD 308 LP, CROMAROD 308 L, CROMAROD 308 L-140 |
| ELGA AB | CROMAROD 308LV |
| ESAB AB | OK 61.30 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 308L-17 PLUS |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 308R |
| Hobart Welding Products | DIAMOND ARC 308L-17 |
| Industrial Welding Corporation | NIHONWELD NSS-308L-17 |
| Lincoln Electric Co. | Blue Max 308/308L AC-DC |
| McKay Welding Products | STERLING 308L-17 |
| Murex Welding Products | Mur-Arc 308/308L |
| Nippon Welding Rod Co., Ltd. | WEL AZ 308L |
| Oxford Alloys, Inc. | OXFORD E308L-17 |
| Techalloy Company, Inc. | RACO 308L |
| WELDWIRE COMPANY INC. | WW 308L-17 |

E308L-25

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Euroweld, Ltd. | E308L-25 |
| Industrial Welding Corporation | NIHONWELD NSS-308L-25 |

E308L-26

| SOURCE | PRODUCT |
|--------------------------------|--------------------------|
| Euroweld, Ltd. | E308L-26 |
| EXSA S.A.- División Fontargen | FON E 1124 H |
| Industrial Welding Corporation | NIHONWELD NSS-308L-26 |
| Sodel Ltd | Sodel 308L HR, Sodel 130 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E308Mo-15

| SOURCE | PRODUCT |
|---|---------------------------|
| Arcos Alloys | Arcos E308Mo-15 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS P-308Mo |
| Champion Welding Products | CHAMPION E308Mo-15 |
| Industrial Welding Corporation | NIHONWELD NSS-308MoD |
| Oxford Alloys, Inc. | OXFORD E308Mo-15 |
| Washington Alloy Company | USA 308Mo-15 |
| WELDWIRE COMPANY INC. | E308Mo-15 |

E308Mo-16

| SOURCE | PRODUCT |
|---------------------------------------|---------------------------|
| American Filler Metals Company | AFM 308Mo-16 |
| American Welding Alloys | AWA 308Mo-16 |
| Arcos Alloys | Arcos E308Mo-16 |
| Champion Welding Products | CHAMPION E308Mo-16 |
| ESAB AB | OK 63.32 |
| Industrial Welding Corporation | NIHONWELD NSS-308Mo |
| Inweld Corporation | INWELD 308Mo-16 |
| Oxford Alloys, Inc. | OXFORD E308Mo-16 |
| Washington Alloy Company | USA 308Mo-16 |
| WELDWIRE COMPANY INC. | E308Mo-16 |

E308Mo-17

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Industrial Welding Corporation | NIHONWELD NSS-308Mo-17 |

E308Mo-25

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Industrial Welding Corporation | NIHONWELD NSS-308Mo-25 |

E308Mo-26

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Industrial Welding Corporation | NIHONWELD NSS-308Mo-26 |

E308MoL-15

| SOURCE | PRODUCT |
|--------------|------------------|
| Arcos Alloys | Arcos E308MoL-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E308MoL-15 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|-----------------------------|
| Champion Welding Products | CHAMPION E308MoL-15 |
| D&H Secheron Electrodes Limited | D&H-309 LMo, D&H 309 LMo-15 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 308MoL-15 |
| Industrial Welding Corporation | NIHONWELD NSS-208MoLD |
| Oxford Alloys, Inc. | OXFORD E308MoL-15 |
| Washington Alloy Company | USA 308MoL-15 |
| WELDWIRE COMPANY INC. | WW 308MoL-15 |

E308MoL-16

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| American Filler Metals Company | AFM 308MoL-16 |
| American Welding Alloys | AWA 308MoL-16 |
| Arcos Alloys | Arcos E308MoL-16 |
| Champion Welding Products | CHAMPION E308MoL-16 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 308MoL-16 |
| Industrial Welding Corporation | NIHONWELD NSS-308MoL |
| Oxford Alloys, Inc. | OXFORD E308MoL-16 |
| Washington Alloy Company | USA 308MoL-16 |
| Weld Mold Company | 308LMo-16 |
| WELDWIRE COMPANY INC. | WW 308MoL-16 |

E308MoL-17

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------|
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4431 AC |
| Industrial Welding Corporation | NIHONWELD NSS-308MoL-17 |

E308MoL-25

| SOURCE | PRODUCT |
|--------------------------------|-------------------------|
| Euroweld, Ltd. | E308MoL-25 |
| Industrial Welding Corporation | NIHONWELD NSS-308MoL-25 |

E308MoL-26

| SOURCE | PRODUCT |
|--------------------------------|-------------------------|
| Euroweld, Ltd. | E308MoL-26 |
| Industrial Welding Corporation | NIHONWELD NSS-308MoL-26 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E309-15

| SOURCE | PRODUCT |
|----------------------------------|-------------------------|
| Airco Filler Metals | CODE-ARC 309/309L-V MR |
| All-State Welding Products | 309-15 |
| Arcos Alloys | Arcos E309-15 |
| Bohler Thyssen Welding USA, Inc. | UTP 6824 Kb |
| Champion Welding Products | CHAMPION E309-15 |
| Crown Alloys Company | Crown 309-15 |
| D&H Secheron Electrodes Limited | D&H 309-15 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 309/309H-15 |
| Industrial Welding Corporation | NIHONWELD NSS-309D |
| Lincoln Electric Co. | Red Baron 309/309L-V MR |
| McKay Welding Products | 309 DC LIME |
| Murex Welding Products | Murex 309/309L-V MR |
| Oxford Alloys, Inc. | OXFORD E309-15 |
| Sodel Ltd | Sodel 309-15 |
| Washington Alloy Company | USA 309-15 |
| Weld Mold Company | 309-15 |
| WELDWIRE COMPANY INC. | E309-15 |

E309-16

| SOURCE | PRODUCT |
|--|---------------------------------|
| Airco Filler Metals | CODE-ARC 309/309L MR |
| All-State Welding Products | 309-16 |
| American Filler Metals Company | AFM 309-16 |
| American Welding Alloys | AWA 309-16 |
| Arcos Alloys | Arcos E309-16 |
| Bohler Thyssen Welding USA, Inc. | UTP 6824 |
| Crown Alloys Company | Crown 309-16 |
| D&H Secheron Electrodes Limited | CRONITHERME-25/12 |
| Dytron Corporation | 309-16 |
| Electromanufacturas S.A | Cromarco 309-16; West Rode 2212 |
| ESAB AB | OK 67.62 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 309/309H-16 |
| EXSA S.A. - División Soldaduras OERLIKON | Inox 309 |
| HARRIS WELCO | WELCO E309-16 |
| Hobart Welding Products | SMOOTHARC PLUS 309-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E309-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|---|
| HYUNDAI WELDING PRODUCTS, INC. | S-309.16N |
| Industrial Welding Corporation | NIHONWELD NSS-309 |
| Inweld Corporation | INWELD 309-16 |
| Kobe Steel, LTD. | HIMELT-309, NC-39, NCA-309 |
| Lincoln Electric Co. | Stainweld 309-16, Red Baron 309/309L MR |
| McKay Welding Products | 309 AC-DC |
| Messer - MG Systems & Welding Inc. | 6309-16 |
| Midalloy, Inc. | Chromax E309-16 |
| Murex Welding Products | Murex 309/309L MR |
| Nassau Research Corp. | Brutus |
| NATWELD | E309-16 |
| Nippon Welding Rod Co., Ltd. | WEL 309 |
| NOF Corporation | RNY309, 309A, EN309 |
| Oxford Alloys, Inc. | OXFORD E309-16 |
| Sodel Ltd | Sodel 309-16 |
| Stoody Company - Thermadyne Industries | Stoody 309-16 |
| Techalloy Company, Inc. | RACO 309 |
| Uniweld Products, Inc. | UNI-309-16 |
| Washington Alloy Company | BetterArc 309-16 |
| Weld Mold Company | 309-16 |
| WELDWIRE COMPANY INC. | E309-16 |

E309-17

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------|
| Airco Filler Metals | DRAG'N-ARC 309/309L |
| All-State Welding Products | Smoothcote Plus 309L |
| Arcos Alloys | Arcos E309-17 |
| Avesta Welding Products Inc. | AVESTA 309-17 |
| Hobart Welding Products | DIAMOND ARC 309-17 |
| Industrial Welding Corporation | NIHONWELD NSS-309-17 |
| Lincoln Electric Co. | Blue Max 309/309L AC-DC |
| McKay Welding Products | STERLING 309-17 |
| Murex Welding Products | Mur-Arc 309/309L |
| Nippon Welding Rod Co., Ltd. | WEL AZ 309 |
| Oxford Alloys, Inc. | OXFORD E309-17 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E309-17 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------|-----------|
| WELDWIRE COMPANY INC. | WW 309-17 |

E309-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-309-25 |

E309-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------------|
| ELGA AB | CROMAROD 309 S |
| Industrial Welding Corporation | NIHONWELD NSS-309-26 |
| Sodel Ltd | Sodel 309 HR, Sodel 309 HP |

E309L-15

| SOURCE | PRODUCT |
|----------------------------------|-----------------------------|
| Airco Filler Metals | CODE-ARC 309/309L-V MR |
| Arcos Alloys | Arcos E309L-15 |
| Champion Welding Products | CHAMPION E309L-15 |
| Chosun Steel Wire Company | NC-309L |
| Crown Alloys Company | Crown 309L-15 |
| D&H Secheron Electrodes Limited | D&H 309L-15 |
| ESAB AB | OK 67.75 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 309L-15 |
| Euroweld, Ltd. | E309L-15 |
| Industrial Welding Corporation | NIHONWELD NSS-309LD |
| Inweld Corporation | INWELD 309L-15 |
| Lincoln Electric Co. | Red Baron 309/309L-V MR |
| McKay Welding Products | MCKAY 309L-15, 309L DC LIME |
| Murex Welding Products | Murex 309/309L-V MR |
| Oxford Alloys, Inc. | OXFORD E309L-15 |
| Sodel Ltd | Sodel 309L-15 |
| Washington Alloy Company | USA 309L-15 |
| WELDWIRE COMPANY INC. | E309L-15 |

E309L-16

| SOURCE | PRODUCT |
|---------------------|----------------------|
| Airco Filler Metals | CODE-ARC 309/309L MR |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E309L-16 (Continued from previous page)

| SOURCE | PRODUCT |
|---|---------------------------|
| All-State Welding Products | 309L-16 |
| American Filler Metals Company | AFM 309L-16 |
| American Welding Alloys | AWA 309L-16 |
| Arcos Alloys | Arcos E309L-16 |
| Arctec Alloys Limited | ARCTEC E309L-16 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS P-309L |
| Bohler Thyssen Welding USA, Inc. | UTP 6824 LC |
| Champion Welding Products | CHAMPION E309L-16 |
| Crown Alloys Company | Crown 309L-16 |
| D&H Secheron Electrodes Limited | D&H 309L |
| Dytron Corporation | 309L-16 |
| Electromanufacturas S.A | Cromarco 309L-16 Premium |
| ESAB AB | OK 67.60 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 309L-16 |
| EXSA S.A. - División Soldaduras OERLIKON | Inox 309ELC |
| EXSA S.A.- División Fontargen | FON E 132 |
| HARRIS WELCO | WELCO E309L-16 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 309 S |
| Hobart Welding Products | SMOOTHARC PLUS 309L-16 |
| HYUNDAI WELDING PRODUCTS, INC. | S-309L.16N |
| Indura S.A. Industria y Comercio | INDURA 309L |
| Industrial Welding Corporation | NIHONWELD NSS-309L |
| Inweld Corporation | INWELD 309L-16 |
| Kobe Steel, LTD. | HIMELT-309L, NC-39L |
| Lincoln Electric Co. | Red Baron 309/309L MR |
| McKay Welding Products | 309L AC-DC |
| Messer - MG Systems & Welding Inc. | 6309L-16 |
| Midalloy, Inc. | Chromax E309L-16 |
| Murex Welding Products | Murex 309/309L MR |
| Nassau Research Corp. | Brutus |
| NATWELD | E309L-16 |
| Nippon Welding Rod Co., Ltd. | WEL 309L |
| NOF Corporation | RNY309L, RNY309L2, EN309L |
| Oxford Alloys, Inc. | OXFORD E309L-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E309L-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--------------------------|
| Sodel Ltd | Sodel 309L-16 |
| Stoody Company - Thermadyne Industries | Stoody 309L-16 Series II |
| Techalloy Company, Inc. | RACO 309L |
| Uniweld Products, Inc. | UNI-309L-16 |
| Washington Alloy Company | BetterArc 309L-16 |
| Weld Mold Company | 309L-16 |
| WELDWIRE COMPANY INC. | E309L-16 |

E309L-17

| SOURCE | PRODUCT |
|--|------------------------------------|
| Airco Filler Metals | DRAG'N-ARC 309/309L |
| All-State Welding Products | Smoothcote Plus 309L |
| Arcos Alloys | Arcos E309L-17 |
| Arctec Alloys Limited | ARCTEC E309L-17 |
| Avesta Welding Products Inc. | AVESTA 309L-17 |
| Bohler Thyssen Welding USA, Inc. | Bohler CN 23/12-A, Thyssen 25/14EW |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4332 AC |
| Crown Alloys Company | Crown 309L-17 |
| ELGA AB | CROMAROD 309 L, CROMAROD 309 MoL |
| ELGA AB | CROMAROD 309L-140 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 309L-17 PLUS |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 309 R |
| Hobart Welding Products | DIAMOND ARC 309L-17 |
| Industrial Welding Corporation | NIHONWELD NSS-309L-17 |
| Lincoln Electric Co. | Blue Max 309/309L AC-DC |
| McKay Welding Products | STERLING 309L-17 |
| Murex Welding Products | Mur-Arc 309/309L |
| Nippon Welding Rod Co., Ltd. | WEL AZ 309L |
| Oxford Alloys, Inc. | OXFORD E309L-17 |
| Techalloy Company, Inc. | RACO 309L |
| WELDWIRE COMPANY INC. | WW 309L-17 |

E309L-25

| SOURCE | PRODUCT |
|----------------|----------|
| Euroweld, Ltd. | E309L-25 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E309L-25 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-309L-25 |

E309L-26

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Euroweld, Ltd. | E309L-26 |
| Industrial Welding Corporation | NIHONWELD NSS-309L-26 |
| Sodel Ltd | Sodel 309L HR |

E309Cb-15

| SOURCE | PRODUCT |
|----------------------------------|---------------------------|
| Arcos Alloys | Arcos E309Cb-15 |
| Champion Welding Products | CHAMPION E309Cb-15 |
| D&H Secheron Electrodes Limited | D&H 309 Cb-15 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 309Cb-15 |
| Euroweld, Ltd. | E309Nb-15, 16 |
| Industrial Welding Corporation | NIHONWELD NSS-309CbD |
| Oxford Alloys, Inc. | OXFORD E309Cb-15 |
| SOWESCO | Pinnacle Alloys E309Cb-15 |
| Washington Alloy Company | |
| WELDWIRE COMPANY INC. | E309Cb-15 |

E309Cb-16

| SOURCE | PRODUCT |
|---------------------------------------|--------------------------------|
| American Filler Metals Company | AFM 309Cb-16 |
| American Welding Alloys | AWA 309Cb-16 |
| Arcos Alloys | Arcos E309Cb-16 |
| Bohler Thyssen Welding USA, Inc. | Thyssen 24/12ENbW, UTP 6824 Nb |
| Champion Welding Products | CHAMPION E309Cb-16 |
| D&H Secheron Electrodes Limited | D&H 309 Cb |
| Electromanufacturas S.A | Cromarco 309Cb-16 |
| ESAB AB | OK 67.68 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 309Cb-16 |
| HYUNDAI WELDING PRODUCTS, INC. | S-309Cb.16 |
| Industrial Welding Corporation | NIHONWELD NSS-309Cb |
| Inweld Corporation | INWELD 309Cb-16 |
| Messer - MG Systems & Welding Inc. | 6309Cb-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E309Cb-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|------------------|
| Nippon Welding Rod Co., Ltd. | WEL 309Nb |
| NOF Corporation | RNY309Cb |
| Oxford Alloys, Inc. | OXFORD E309Cb-16 |
| Stoody Company - Thermadyne Industries | Stoody 309CbL-16 |
| Washington Alloy Company | USA 309Cb-16 |
| WELDWIRE COMPANY INC. | E309Cb-16 |

E309Cb-17

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Industrial Welding Corporation | NIHONWELD NSS-309Cb-17 |

E309Cb-25

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Euroweld, Ltd. | E309Cb-25 |
| Industrial Welding Corporation | NIHONWELD NSS-309Cb-25 |

E309Cb-26

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Euroweld, Ltd. | E309Cb-26 |
| Industrial Welding Corporation | NIHONWELD NSS-309Cb-26 |

E309Mo-15

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| Arcos Alloys | Arcos E309Mo-15 |
| Champion Welding Products | CHAMPION E309Mo-15 |
| D&H Secheron Electrodes Limited | D&H 309 Mo-15 |
| Industrial Welding Corporation | NIHONWELD NSS-309MoD |
| Oxford Alloys, Inc. | OXFORD E309Mo-15 |
| Washington Alloy Company | USA 309Mo-15 |
| WELDWIRE COMPANY INC. | E309Mo-15 |

E309Mo-16

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| American Filler Metals Company | AFM 309Mo-16 |
| American Welding Alloys | AWA 309Mo-16 |
| Arcos Alloys | Arcos E309Mo-16 |
| Champion Welding Products | CHAMPION E309Mo-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E309Mo-16 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------------|--------------------------------------|
| D&H Secheron Electrodes Limited | D&H 309 Mo |
| Electromanufacturas S.A | Cromarco 309Mo-16; West Rode 2212 Mo |
| Euroweld, Ltd. | E309Mo-15 |
| EXSA S.A.- División Fontargen | FON E 138 Mo |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 309Mo |
| HYUNDAI WELDING PRODUCTS, INC. | S-309Mo.16 |
| Industrial Welding Corporation | NIHONWELD NSS-309Mo |
| Inweld Corporation | INWELD 309Mo-16 |
| McKay Welding Products | MCKAY 309Mo-16 |
| Messer - MG Systems & Welding Inc. | 6309Mo-16 |
| Midalloy, Inc. | Chromax E309Mo-16 |
| Nassau Research Corp. | Brutus |
| Nippon Welding Rod Co., Ltd. | WEL 309Mo |
| NOF Corporation | RNY309Mo, EN309Mo |
| Oxford Alloys, Inc. | OXFORD E309Mo-16 |
| Washington Alloy Company | USA 309Mo-16 |
| Weld Mold Company | 309LMo-16 |
| WELDWIRE COMPANY INC. | E309Mo-16 |

E309Mo-17

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| ELGA AB | CROMAROD 309 MoL-150 |
| ELGA AB | CROMAROD 309MoLP |
| Industrial Welding Corporation | NIHONWELD NSS-309Mo-17 |

E309Mo-25

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Industrial Welding Corporation | NIHONWELD NSS-309Mo-25 |

E309Mo-26

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| ELGA AB | CROMAROD 309 MoL-S |
| ELGA AB | CROMAROD 309MoL-S |
| EXSA S.A.- División Fontargen | FON E 109 S |
| Industrial Welding Corporation | NIHONWELD NSS-309Mo-26 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E309MoL-15

| SOURCE | PRODUCT |
|-------------------------------------|----------------------------|
| Arcos Alloys | Arcos E309MoL-15 |
| Avesta Welding Products Inc. | AVESTA P5 BASIC |
| Champion Welding Products | CHAMPION E309MoL-15 |
| D&H Secheron Electrodes Limited | D&H 309L Mo-15 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 309MoL-15 |
| Euroweld, Ltd. | E309MoL-15 |
| Industrial Welding Corporation | NIHONWELD NSS-309MoLD |
| Oxford Alloys, Inc. | OXFORD E309MoL-15 |
| Washington Alloy Company | USA 309MoL-15 |
| WELDWIRE COMPANY INC. | WW E309MoL-15 |

E309MoL-16

| SOURCE | PRODUCT |
|---|-----------------------------------|
| American Filler Metals Company | AFM 309MoL-16 |
| American Welding Alloys | AWA 309MoL-16 |
| Arcos Alloys | Arcos E309MoL-16 |
| Bohler Thyssen Welding USA, Inc. | Thyssen 23/11MoZLW, UTP 6824 MoLC |
| Champion Welding Products | CHAMPION E309MoL-16 |
| D&H Secheron Electrodes Limited | D&H 309L Mo |
| Electromanufacturas S.A | Cromarco 309MoL-16 Premium |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 309MoL-16 |
| Indura S.A. Industria y Comercio | INDURA 309 MoL |
| Industrial Welding Corporation | NIHONWELD NSS-309MoL |
| Inweld Corporation | INWELD 309L Mo-16 |
| Kobe Steel, LTD. | NC-39MoL |
| Lincoln Electric Co. | Red Baron 309MoL MR |
| McKay Welding Products | 309MoL AC-DC |
| Messer - MG Systems & Welding Inc. | 6309MoL-16 |
| Nippon Welding Rod Co., Ltd. | WEL 309MoL |
| NOF Corporation | RNY309MoL, 309MoL2 |
| Oxford Alloys, Inc. | OXFORD E309MoL-16 |
| Sodel Ltd | Sodel 309L Mo-16 |
| Stoody Company - Thermadyne Industries | Stoody 309MoL-16 |
| Washington Alloy Company | USA 309MoL-16 |
| WELDWIRE COMPANY INC. | WW 309MoL-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E309MoL-17

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------|
| Avesta Welding Products Inc. | AVESTA P5 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4459 AC |
| ESAB AB | OK 67.70 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 309Mo R |
| Industrial Welding Corporation | NIHONWELD NSS-309MoL-17 |
| Nippon Welding Rod Co., Ltd. | WEL AZ 309MoL |
| Oxford Alloys, Inc. | OXFORD E309MoL-17 |

E309MoL-25

| SOURCE | PRODUCT |
|--------------------------------|-------------------------|
| Euroweld, Ltd. | E309MoL-25 |
| Industrial Welding Corporation | NIHONWELD NSS-309MoL-25 |

E309MoL-26

| SOURCE | PRODUCT |
|--------------------------------|-------------------------|
| Euroweld, Ltd. | E309MoL-26 |
| Industrial Welding Corporation | NIHONWELD NSS-309MoL-26 |

E310-15

| SOURCE | PRODUCT |
|---|--------------------|
| All-State Welding Products | 310-15 |
| Arcos Alloys | Arcos E310-15 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS P-310B |
| Astrolite Alloys | Astrolite 310-15 |
| Avesta Welding Products Inc. | AVESTA 310-15 |
| Champion Welding Products | CHAMPION E310-15 |
| Cronatron Welding Systems | Cronaweld 310 |
| Crown Alloys Company | Crown 310-15 |
| D&H Secheron Electrodes Limited | D&H 310-15 |
| ESAB AB | OK 67.15 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 310-15 |
| Euroweld, Ltd. | E310-15 |
| Industrial Welding Corporation | NIHONWELD NSS-310D |
| Inweld Corporation | INWELD 310-15 |
| Oxford Alloys, Inc. | OXFORD E310-15 |
| Washington Alloy Company | USA 310-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E310-15 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------|---------|
| Weld Mold Company | 310-15 |
| WELDWIRE COMPANY INC. | E310-15 |

E310-16

| SOURCE | PRODUCT |
|---|---|
| Airco Filler Metals | CODE-ARC 310 MR |
| All-State Welding Products | 310-16 |
| American Filler Metals Company | AFM 310-16 |
| American Welding Alloys | AWA 310-16 |
| Arcos Alloys | Arcos E310-16 |
| Arctec Alloys Limited | ARCTEC E310-16 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS P-310R |
| Astrolite Alloys | Astrolite 310-16 |
| Bohler Thyssen Welding USA, Inc. | UTP 68H |
| Champion Welding Products | CHAMPION E310-16 |
| Crown Alloys Company | Crown 310-16 |
| D&H Secheron Electrodes Limited | D&H 310-16 |
| Dytron Corporation | 310-16 |
| Electromanufacturas S.A | Cromarco 310-16; West Rode 5 |
| ESAB AB | OK 67.13 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 310-16 |
| Euroweld, Ltd. | E310-16 |
| EXSA S.A. - División Soldaduras OERLIKON | INOX CW |
| EXSA S.A.- División Fontargen | FON E 126 |
| HARRIS WELCO | WELCO E310-16 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilchrome 310 R |
| Hobart Welding Products | SMOOTHARC PLUS 310-16 |
| HYUNDAI WELDING PRODUCTS, INC. | S-310.16 |
| Indura S.A. Industria y Comercio | INDURA 25-20 |
| Industrial Welding Corporation | NIHONWELD NSS-310 |
| Inweld Corporation | INWELD 310-16 |
| Kobe Steel, LTD. | NC-30 |
| Lincoln Electric Co. | Stainweld 310-16, Red Baron 310 MR, RepTec 46 |
| McKay Welding Products | 310 AC-DC |
| Messer - MG Systems & Welding Inc. | 6310-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E310-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|-----------------|
| Midalloy, Inc. | Chromax E310-16 |
| Murex Welding Products | Murex 310 MR |
| Nassau Research Corp. | Gemini |
| NATWELD | E310-16 |
| Nippon Welding Rod Co., Ltd. | WEL 310 |
| NOF Corporation | RNY310 |
| Oxford Alloys, Inc. | OXFORD E310-16 |
| Sodel Ltd | Sodel 310-16 |
| Stoody Company - Thermadyne Industries | Stoody 310-16 |
| Techalloy Company, Inc. | RACO 310 |
| Uniweld Products, Inc. | UNI-310-16 |
| Washington Alloy Company | USA 310-16 |
| Weld Mold Company | 310-16 |
| WELDWIRE COMPANY INC. | E310-16 |

E310-17

| SOURCE | PRODUCT |
|-------------------------------------|----------------------|
| Astrolite Alloys | Astrolite 310-17 |
| Avesta Welding Products Inc. | AVESTA 310-17 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4842 AC |
| ELGA AB | CROMAROD 310 |
| Industrial Welding Corporation | NIHONWELD NSS-310-17 |
| Oxford Alloys, Inc. | OXFORD E310-17 |

E310-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 310-25 |
| Euroweld, Ltd. | E310-25 |
| Industrial Welding Corporation | NIHONWELD NSS-310-25 |

E310-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 310-26 |
| Euroweld, Ltd. | E310-26 |
| EXSA S.A.- División Fontargen | FON E 1126 H |
| Industrial Welding Corporation | NIHONWELD NSS-310-26 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E310H-15

| SOURCE | PRODUCT |
|--|--------------------------|
| Arcos Alloys | Arcos E310H-15 |
| Astrolite Alloys | Astrolite 310H-15 |
| Bohler Thyssen Welding USA, Inc. | Thyssen CR |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4846 B |
| Champion Welding Products | CHAMPION E310H-15 |
| D&H Secheron Electrodes Limited | D&H-310 HC |
| ESAB AB | OK 67.26 |
| Euroweld, Ltd. | E310H-15 |
| Industrial Welding Corporation | NIHONWELD NSS-310HD |
| Inweld Corporation | INWELD 310HC-15 |
| Oxford Alloys, Inc. | OXFORD E310H-15 |
| Sodel Ltd | Sodel 310HC-15 |
| Washington Alloy Company | USA 310H-15 |
| Weld Mold Company | 310HC-15 |
| WELDWIRE COMPANY INC. | E310HC-15 |

E310H-16

| SOURCE | PRODUCT |
|------------------------------------|--------------------------|
| American Welding Alloys | AWA 310H-16 |
| Arcos Alloys | Arcos E310H-16 |
| Astrolite Alloys | Astrolite 310H-16 |
| Champion Welding Products | CHAMPION E310H-16 |
| D&H Secheron Electrodes Limited | D&H 310 HC |
| Industrial Welding Corporation | NIHONWELD NSS-310H |
| Messer - MG Systems & Welding Inc. | 6310H-16 |
| Midalloy, Inc. | Chromax E310HC-16 |
| Nassau Research Corp. | Gemini |
| Oxford Alloys, Inc. | OXFORD E310H-16 |
| Techalloy Company, Inc. | RACO 310HC |
| Washington Alloy Company | USA 310H-16 |
| Weld Mold Company | 310HC-16 |
| WELDWIRE COMPANY INC. | E310HC-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E310H-17

| SOURCE | PRODUCT |
|-------------------------------------|-----------------------|
| Astrolite Alloys | Astrolite 310H-17 |
| Avesta Welding Products Inc. | AVESTA 310H-17 |
| Industrial Welding Corporation | NIHONWELD NSS-310H-17 |

E310H-25

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Astrolite Alloys | Astrolite 310H-25 |
| Euroweld, Ltd. | E310H-25 |
| Industrial Welding Corporation | NIHONWELD NSS-310H-25 |

E310H-26

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Astrolite Alloys | Astrolite 310H-26 |
| Euroweld, Ltd. | E310H-26 |
| Industrial Welding Corporation | NIHONWELD NSS-310H-26 |

E310Cb-15

| SOURCE | PRODUCT |
|----------------------------------|---------------------------|
| Arcos Alloys | Arcos E310Cb-15 |
| Astrolite Alloys | Astrolite 310Cb-15 |
| Champion Welding Products | CHAMPION E310Cb-15 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 310Cb-15 |
| Euroweld, Ltd. | E310Nb-15 |
| Industrial Welding Corporation | NIHONWELD NSS-310CbD |
| Oxford Alloys, Inc. | OXFORD E310Cb-15 |
| Washington Alloy Company | USA 310Cb-15 |
| WELDWIRE COMPANY INC. | E310Cb-15 |

E310Cb-16

| SOURCE | PRODUCT |
|---------------------------------------|---------------------------|
| American Filler Metals Company | AFM 310Cb-16 |
| American Welding Alloys | AWA 310Cb-16 |
| Arcos Alloys | Arcos E310Cb-16 |
| Astrolite Alloys | Astrolite 310Cb-16 |
| Bohler Thyssen Welding USA, Inc. | UTP 68H Cb |
| Champion Welding Products | CHAMPION E310Cb-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E310Cb-16 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------------|---------------------|
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 310Cb-16 |
| Industrial Welding Corporation | NIHONWELD NSS-310Cb |
| Inweld Corporation | INWELD 310Cb-16 |
| Messer - MG Systems & Welding Inc. | 6310Cb-16 |
| Nassau Research Corp. | Gemini |
| Nippon Welding Rod Co., Ltd. | WEL 310Nb |
| Oxford Alloys, Inc. | OXFORD E310Cb-16 |
| Techalloy Company, Inc. | RACO 310Cb |
| Washington Alloy Company | USA 310Cb-16 |
| Weld Mold Company | 310CB-16 |
| WELDWIRE COMPANY INC. | E310Cb-16 |

E310Cb-17

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Astrolite Alloys | Astrolite 310Cb-17 |
| Industrial Welding Corporation | NIHONWELD NSS-310Cb-17 |

E310Cb-25

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Astrolite Alloys | Astrolite 310Cb-25 |
| Industrial Welding Corporation | NIHONWELD NSS-310Cb-25 |

E310Cb-26

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Astrolite Alloys | Astrolite 310Cb-26 |
| Industrial Welding Corporation | NIHONWELD NSS-310Cb-26 |

E310Mo-15

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| Arcos Alloys | Arcos E310Mo-15 |
| Astrolite Alloys | Astrolite 310Mo-15 |
| Champion Welding Products | CHAMPION E310Mo-15 |
| D&H Secheron Electrodes Limited | D&H 310 Mo-15 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 310Mo-15 |
| Euroweld, Ltd. | E310Mo-15 |
| Industrial Welding Corporation | NIHONWELD NSS-310MoD |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E310Mo-15 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|------------------|
| Inweld Corporation | INWELD 310Mo-15 |
| Oxford Alloys, Inc. | OXFORD E310Mo-15 |
| Washington Alloy Company | USA 310Mo-15 |
| WELDWIRE COMPANY INC. | E310Mo-15 |

E310Mo-16

| SOURCE | PRODUCT |
|------------------------------------|---------------------|
| All-State Welding Products | 310Mo-16 |
| American Filler Metals Company | AFM 310Mo-16 |
| American Welding Alloys | AWA 310Mo-16 |
| Arcos Alloys | Arcos E310Mo-16 |
| Astrolite Alloys | Astrolite 310Mo-16 |
| Champion Welding Products | CHAMPION E310Mo-16 |
| Electromanufacturas S.A | Cromarco 310Mo-16 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 310Mo-16 |
| Industrial Welding Corporation | NIHONWELD NSS-310Mo |
| Inweld Corporation | INWELD 310Mo-16 |
| McKay Welding Products | 310Mo AC-DC |
| Messer - MG Systems & Welding Inc. | 6310Mo-16 |
| Nassau Research Corp. | Gemini |
| Nippon Welding Rod Co., Ltd. | WEL 310Mo |
| NOF Corporation | RNY310Mo |
| Oxford Alloys, Inc. | OXFORD E310Mo-16 |
| Sodel Ltd | Sodel 310Mo-16 |
| Techalloy Company, Inc. | RACO 310LMo |
| Washington Alloy Company | USA 310Mo-16 |
| Weld Mold Company | 310LMo-16 |
| WELDWIRE COMPANY INC. | E310Mo-16 |

E310Mo-17

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Astrolite Alloys | Astrolite 310Mo-17 |
| Industrial Welding Corporation | NIHONWELD NSS-310Mo-17 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E310Mo-25

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Astrolite Alloys | Astrolite 310Mo-25 |
| Euroweld, Ltd. | E310Mo-25 |
| Industrial Welding Corporation | NIHONWELD NSS-310Mo-25 |

E310Mo-26

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Astrolite Alloys | Astrolite 310Mo-26 |
| Euroweld, Ltd. | E310Mo-26 |
| Industrial Welding Corporation | NIHONWELD NSS-310Mo-26 |

E312-15

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| Arcos Alloys | Arcos E312-15 |
| Astrolite Alloys | Astrolite 312-15 |
| Champion Welding Products | CHAMPION E312-15 |
| D&H Secheron Electrodes Limited | D&H-312 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 312-15 |
| Euroweld, Ltd. | E312-15 |
| Industrial Welding Corporation | NIHONWELD NSS-312D |
| Oxford Alloys, Inc. | OXFORD E312-15 |
| Washington Alloy Company | USA 312-15 |
| WELDWIRE COMPANY INC. | E312-15 |

E312-16

| SOURCE | PRODUCT |
|---|--------------------|
| Airco Filler Metals | CODE-ARC 312 AC-DC |
| All-State Welding Products | 312-16 |
| American Filler Metals Company | AFM 312-16 |
| American Welding Alloys | AWA 312-16 |
| Arcos Alloys | Arcos E312-16 |
| Arctec Alloys Limited | ARCTEC E312-16 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS P-312 |
| Astrolite Alloys | Astrolite 312-16 |
| CARBO-WELD Schweissmaterialien GmbH | CARBOTRODE 903 |
| Champion Welding Products | CHAMPION E312-16 |
| Cronatron Welding Systems | Cronaweld E 312-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E312-16 (Continued from previous page)

| SOURCE | PRODUCT |
|---|---|
| Crown Alloys Company | Crown 312-16 |
| D&H Secheron Electrodes Limited | D&H 312 |
| Dytron Corporation | 312-16 |
| Electromanufacturas S.A | Cromarco 312-16, 312-16 Premium, West Rode 800, West Rode 80 Básico |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 312-16 |
| Euroweld, Ltd. | E312-16 |
| EXSA S.A. - División Soldaduras OERLIKON | Inox 29/9 |
| EXSA S.A.- División Fontargen | FON E 106 |
| HARRIS WELCO | WELCO E312-16 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 312 |
| Hobart Welding Products | SMOOTHARC PLUS 312-16 |
| HYUNDAI WELDING PRODUCTS, INC. | S-312.16 |
| Indura S.A. Industria y Comercio | INDURA 29-9S |
| Industrial Welding Corporation | NIHONWELD NSS-312 |
| Inweld Corporation | INWELD 312-16 |
| Kobe Steel, LTD. | NC-32 |
| Lincoln Electric Co. | Stainweld 312-16, RepTec 29 |
| McKay Welding Products | 312 AC-DC |
| Messer - MG Systems & Welding Inc. | 6312-16 |
| Midalloy, Inc. | Chromax E312-16 |
| Nassau Research Corp. | Brutus |
| NATWELD | E312-16 |
| Nippon Welding Rod Co., Ltd. | WEL 312 |
| NOF Corporation | RNY312 |
| Oxford Alloys, Inc. | OXFORD E312-16 |
| Stoody Company - Thermadyne Industries | Stoody 312-16 |
| Techalloy Company, Inc. | RACO 312 |
| Washington Alloy Company | USA 312-16, 312-16 Blue UM |
| Weld Mold Company | 312-16 |
| WELDWIRE COMPANY INC. | E312-16 |

E312-17

| SOURCE | PRODUCT |
|------------------|------------------|
| Astrolite Alloys | Astrolite 312-17 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E312-17 (Continued from previous page)

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------------|
| CARBO-WELD Schweissmaterialien GmbH | CARBO 29/9 AC |
| ELGA AB | ELGALLOY MIX 29, CROMAROD 312 |
| ESAB AB | OK 68.81, 68.82 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 312 R |
| Industrial Welding Corporation | NIHONWELD NSS-312-17 |
| Oxford Alloys, Inc. | OXFORD E312-17 |

E312-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 312-25 |
| Euroweld, Ltd. | E312-25 |
| Industrial Welding Corporation | NIHONWELD NSS-312-25 |

E312-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 312-26 |
| Euroweld, Ltd. | E312-26 |
| EXSA S.A.- División Fontargen | FON E 1106 H |
| Industrial Welding Corporation | NIHONWELD NSS-312-26 |

E316-15

| SOURCE | PRODUCT |
|---------------------------------|-------------------------|
| Airco Filler Metals | CODE-ARC 316/316L-V MR |
| All-State Welding Products | 316-15 |
| Arcos Alloys | Arcos E316-15 |
| Astrolite Alloys | Astrolite 316-15 |
| Champion Welding Products | CHAMPION E316-15 |
| Crown Alloys Company | Crown 316-15 |
| D&H Secheron Electrodes Limited | BATOX-Mo |
| Industrial Welding Corporation | NIHONWELD NSS-316D |
| Inweld Corporation | INWELD 316-15 |
| Lincoln Electric Co. | Red Baron 316/316L-V MR |
| McKay Welding Products | 316 DC LIME |
| Murex Welding Products | Murex 316/316L-V MR |
| Oxford Alloys, Inc. | OXFORD E316-15 |
| Sodel Ltd | Sodel 316-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E316-15 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|------------|
| Washington Alloy Company | USA 316-15 |
| Weld Mold Company | 316-15 |
| WELDWIRE COMPANY INC. | E316-15 |

E316-16

| SOURCE | PRODUCT |
|---|--|
| Airco Filler Metals | CODE-ARC 316/316L MR |
| All-State Welding Products | 316-16 |
| American Filler Metals Company | AFM 316-16 |
| American Welding Alloys | AWA 316-16 |
| Arcos Alloys | Arcos E316-16 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS P-316S |
| Astrolite Alloys | Astrolite 316-16 |
| Champion Welding Products | CHAMPION E316-16 |
| Crown Alloys Company | Crown 316-16 |
| D&H Secheron Electrodes Limited | RUTOX - Mo |
| Dytron Corporation | 316-16 |
| Electromanufacturas S.A | Cromarco 316-16 |
| EXSA S.A. - División Soldaduras OERLIKON | Inox BW |
| HARRIS WELCO | WELCO E316-16 |
| Hobart Welding Products | SMOOTHARC PLUS 316/316H-16 |
| HYUNDAI WELDING PRODUCTS, INC. | S316.16N |
| Indura S.A. Industria y Comercio | INDURA 18-12Mo |
| Industrial Welding Corporation | NIHONWELD NSS-316 |
| Inweld Corporation | INWELD 316-16 |
| Kobe Steel, LTD. | HIMELT-316, NC-36 |
| Lincoln Electric Co. | Stainweld 316/316L-16, Red Baron 316/316L MR |
| McKay Welding Products | 316/316H AC-DC |
| Messer - MG Systems & Welding Inc. | 6316-16 |
| Midalloy, Inc. | Chromax E316-16 |
| Murex Welding Products | Murex 316/316L MR |
| Nassau Research Corp. | Brutus |
| Nassau Research Corp. | Gemini |
| NATWELD | E316-16 |
| Nippon Welding Rod Co., Ltd. | WEL 316 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E316-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|-------------------------|
| NOF Corporation | RNY316, EN316 |
| Oxford Alloys, Inc. | OXFORD E316-16 |
| Sodel Ltd | Sodel 316-16 |
| Stoody Company - Thermadyne Industries | Stoody 316-16 |
| Techalloy Company, Inc. | RACO 316 |
| Uniweld Products, Inc. | UNI-316-16 |
| Washington Alloy Company | BetterArc 316-16 |
| Weld Mold Company | 316-16 |
| WELDWIRE COMPANY INC. | E316-16 |

E316-17

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------|
| Airco Filler Metals | DRAG'N-ARC 316/316L |
| All-State Welding Products | Smoothcote Plus 316L |
| Arcos Alloys | Arcos E316-17 |
| Astrolite Alloys | Astrolite 316-17 |
| Avesta Welding Products Inc. | AVESTA 316-17 |
| Hobart Welding Products | DIAMOND ARC 316/316H-17 |
| Industrial Welding Corporation | NIHONWELD NSS-316-17 |
| Lincoln Electric Co. | Blue Max 316/316L AC-DC |
| McKay Welding Products | STERLING 316/316H-17 |
| Murex Welding Products | Mur-Arc 316/316L |
| Nippon Welding Rod Co., Ltd. | WEL AZ 316 |
| Oxford Alloys, Inc. | OXFORD E316-17 |

E316-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 316-25 |
| Euroweld, Ltd. | E316-25 |
| Industrial Welding Corporation | NIHONWELD NSS-316-25 |

E316-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 316-26 |
| Euroweld, Ltd. | E316-26 |
| Industrial Welding Corporation | NIHONWELD NSS-316-26 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E316-26 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------|--------------|
| Sodel Ltd | Sodel 316 HR |

E316H-15

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| Arcos Alloys | Arcos E316H-15 |
| Astrolite Alloys | Astrolite 316H-15 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 316/316H-15 |
| Euroweld, Ltd. | E316H-15 |
| Industrial Welding Corporation | NIHONWELD NSS-316HD |
| McKay Welding Products | 316/316H DC LIME |
| Oxford Alloys, Inc. | OXFORD E316H-15 |
| Sodel Ltd | Sodel 316H-15 |
| Washington Alloy Company | USA 316H-15 |
| WELDWIRE COMPANY INC. | E316H-15 |

E316H-16

| SOURCE | PRODUCT |
|----------------------------------|-----------------------|
| American Filler Metals Company | AFM 316H-16 |
| American Welding Alloys | AWA 316H-16 |
| Arcos Alloys | Arcos E316H-16 |
| Astrolite Alloys | Astrolite 316H-16 |
| Bohler Thyssen Welding USA, Inc. | UTP 6820 Mo |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 316/316H-16 |
| Hobart Welding Products | SMOOTHARC 316/316H-16 |
| Industrial Welding Corporation | NIHONWELD NSS-316H |
| McKay Welding Products | 316/316H AC-DC |
| Midalloy, Inc. | Chromax E316H-16 |
| Nassau Research Corp. | Gemini |
| Oxford Alloys, Inc. | OXFORD E316H-16 |
| Sodel Ltd | Sodel 316H-16 |
| Washington Alloy Company | USA 316H-16 |
| WELDWIRE COMPANY INC. | E316H-16 |

E316H-17

| SOURCE | PRODUCT |
|--------------|----------------|
| Arcos Alloys | Arcos E316H-17 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E316H-17 (Continued from previous page)

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------|
| Astrolite Alloys | Astrolite 316H-17 |
| Avesta Welding Products Inc. | AVESTA 316H-17 |
| Hobart Welding Products | DIAMOND ARC 316/316H-17 |
| Industrial Welding Corporation | NIHONWELD NSS-316H-17 |
| McKay Welding Products | STERLING 316/316H-17 |
| Oxford Alloys, Inc. | OXFORD E316H-17 |

E316H-25

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Astrolite Alloys | Astrolite 316H-25 |
| Euroweld, Ltd. | E316H-25 |
| Industrial Welding Corporation | NIHONWELD NSS-316H-25 |

E316H-26

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Astrolite Alloys | Astrolite 316H-26 |
| Euroweld, Ltd. | E316H-26 |
| Industrial Welding Corporation | NIHONWELD NSS-316H-26 |
| Sodel Ltd | Sodel 316H HR |

E316L-15

| SOURCE | PRODUCT |
|----------------------------------|---|
| Airco Filler Metals | CODE-ARC 316/316L-V MR |
| All-State Welding Products | 316L-15 |
| Arcos Alloys | Arcos E316L-15 |
| Astrolite Alloys | Astrolite 316L-15 |
| Bohler Thyssen Welding USA, Inc. | UTP 68 MoLC Kb |
| Champion Welding Products | CHAMPION E316L-15 |
| Chosun Steel Wire Company | NC-316L |
| Crown Alloys Company | Crown 316L-15 |
| D&H Secheron Electrodes Limited | BATOX-D, RUTOX-D |
| ESAB AB | OK 63.35 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 316L-15; 316LF5-15; CRYOARC 316L-15 |
| Euroweld, Ltd. | E316L-15 |
| Industrial Welding Corporation | NIHONWELD NSS-316LD |
| Inweld Corporation | INWELD 316L-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E316L-15 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|-------------------------|
| Lincoln Electric Co. | Red Baron 316/316L-V MR |
| McKay Welding Products | 316L DC LIME |
| Murex Welding Products | Murex 316/316L-V MR |
| Oxford Alloys, Inc. | OXFORD E316L-15 |
| Sodel Ltd | Sodel 316L-15 |
| Washington Alloy Company | USA 316L-15 |
| Weld Mold Company | 316L-15 |
| WELDWIRE COMPANY INC. | E316L-15 |

E316L-16

| SOURCE | PRODUCT |
|---|--|
| Airco Filler Metals | CODE-ARC 316/316L MR |
| All-State Welding Products | 316L-16 |
| American Filler Metals Company | AFM 316L-16 |
| American Welding Alloys | AWA 316L-16 |
| Arcos Alloys | Arcos E316L-16 |
| Arctec Alloys Limited | ARCTEC E316L-16 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS P-316L |
| Astrolite Alloys | Astrolite 316L-16 |
| Bohler Thyssen Welding USA, Inc. | UTP 6820 Mo LC |
| Champion Welding Products | CHAMPION E316L-16 |
| Cronatron Welding Systems | Cronaweld E 316L-16 |
| Crown Alloys Company | Crown 316L-16 |
| D&H Secheron Electrodes Limited | RUTOX - D, RUTOX - F, RUTOX - F(SPL) |
| Dytron Corporation | 316L-16 |
| Electromanufacturas S.A | Cromarco 316L-16, 316L-16 Premium, West Rode 3L Básico |
| ESAB AB | OK 63.20, 63.34 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 316L-16; 316LF5-16 |
| EXSA S.A. - División Soldaduras OERLIKON | INOX BW ELC |
| EXSA S.A.- División Fontargen | FON E 125 |
| HARRIS WELCO | WELCO E316L-16 WELCO E316L-16 VERTICAL DOWN |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 316 |
| Hobart Welding Products | SMOOTHARC PLUS 316L-16 |
| HYUNDAI WELDING PRODUCTS, INC. | S-316L.16N |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E316L-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--|
| Indura S.A. Industria y Comercio | INDURA 316L |
| Industrial Welding Corporation | NIHONWELD NSS-316L |
| Inweld Corporation | INWELD 316L-16 |
| Kobe Steel, LTD. | HIMELT-316L, NC-36L, NC-36LT, NC-36EL, NC-36ULC |
| Lincoln Electric Co. | Stainweld 316/316L-16, Red Baron 316/316L MR, RepTec 210 |
| McKay Welding Products | 316L AC-DC |
| Messer - MG Systems & Welding Inc. | 6316L-16 |
| Midalloy, Inc. | Chromax E316L-16 |
| Murex Welding Products | Murex 316/316L MR |
| Nassau Research Corp. | Gemini |
| Nippon Welding Rod Co., Ltd. | WEL 316L, 316LA, 316ELC, 316ULC, 316LC |
| NOF Corporation | RNY316L, 316L3, 316L2, 316LC, EN316L |
| Oxford Alloys, Inc. | OXFORD E316L-16 |
| Sodel Ltd | Sodel 316L-16, 316L-16VD, 316L-16SP |
| Stoody Company - Thermadyne Industries | Stoody 316L-16 Series II |
| Techalloy Company, Inc. | RACO 316L |
| Uniweld Products, Inc. | UNI-316L-16 |
| Washington Alloy Company | BetterArc 316L-16 |
| Weld Mold Company | 316L-16 |
| WELDWIRE COMPANY INC. | E316L-16 |

E316L-17

| SOURCE | PRODUCT |
|--|---|
| Airco Filler Metals | DRAG'N-ARC 316/316L |
| All-State Welding Products | Smoothcote Plus 316L |
| Arcos Alloys | Arcos E316L-17 |
| Arctec Alloys Limited | ARCTEC E316L-17 |
| Astrolite Alloys | Astrolite 316L-17 |
| Avesta Welding Products Inc. | AVESTA 316L-17 |
| Bohler Thyssen Welding USA, Inc. | Bohler EAS 4M-A, Thyssen GEW |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4430 AC |
| Crown Alloys Company | Crown 316L-17 |
| ELGA AB | CROMAROD 316 L, CROMAROD 316 LP, CROMAROD 316 L-140, CROMAROD 316 LT, CROMAROD 316 LV |
| ESAB AB | OK 63.30, 63.41 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E316L-17 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|-------------------------|
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 316L-17 PLUS |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 316 R |
| Hobart Welding Products | DIAMOND ARC 316L-17 |
| Industrial Welding Corporation | NIHONWELD NSS-316L-17 |
| Lincoln Electric Co. | Blue Max 316/316L AC-DC |
| McKay Welding Products | STERLING 316L-17 |
| Murex Welding Products | Mur-Arc 316/316L |
| Nippon Welding Rod Co., Ltd. | WEL AZ 316L |
| Oxford Alloys, Inc. | OXFORD E316L-17 |
| Techalloy Company, Inc. | RACO 316L |
| WELDWIRE COMPANY INC. | WW 316L-17 |

E316L-25

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Astrolite Alloys | Astrolite 316L-25 |
| Euroweld, Ltd. | E316L-25 |
| Industrial Welding Corporation | NIHONWELD NSS-316L-25 |

E316L-26

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| Arctec Alloys Limited | ARCTEC STAINFER |
| Astrolite Alloys | Astrolite 316L-26 |
| Bohler Thyssen Welding USA, Inc. | UTP 68 Ti Mo |
| Euroweld, Ltd. | E316L-26 |
| EXSA S.A.- División Fontargen | FON E 1125 |
| Industrial Welding Corporation | NIHONWELD NSS-316L-26 |
| Sodel Ltd | Sodel 316L HR, Sodel 131 |

E317-15

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| Arcos Alloys | Arcos E317-15 |
| Astrolite Alloys | Astrolite 317-15 |
| Champion Welding Products | CHAMPION E317-15 |
| Industrial Welding Corporation | NIHONWELD NSS-317D |
| Oxford Alloys, Inc. | OXFORD E317-15 |
| Washington Alloy Company | USA 317-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E317-16

| SOURCE | PRODUCT |
|------------------------------------|-------------------|
| American Filler Metals Company | AFM 317-16 |
| American Welding Alloys | AWA 317-16 |
| Arcos Alloys | Arcos E317-16 |
| Astrolite Alloys | Astrolite 317-16 |
| Champion Welding Products | CHAMPION E317-16 |
| Dytron Corporation | 317-16 |
| Electromanufacturas S.A | West Rode 20134 |
| HYUNDAI WELDING PRODUCTS, INC. | S-317.16 |
| Industrial Welding Corporation | NIHONWELD NSS-317 |
| Inweld Corporation | INWELD 317-16 |
| Messer - MG Systems & Welding Inc. | 6317-16 |
| Oxford Alloys, Inc. | OXFORD E317-16 |
| Washington Alloy Company | USA 317-16 |
| Weld Mold Company | 317-16 |
| WELDWIRE COMPANY INC. | WW 317-16 |

E317-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Arcos Alloys | Arcos E317-17 |
| Astrolite Alloys | Astrolite 317-17 |
| Industrial Welding Corporation | NIHONWELD NSS-317-17 |
| Oxford Alloys, Inc. | OXFORD E317-17 |

E317-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 317-25 |
| Industrial Welding Corporation | NIHONWELD NSS-317-25 |

E317-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 317-26 |
| Electromanufacturas S.A | West Rode 20134 |
| Industrial Welding Corporation | NIHONWELD NSS-317-26 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E317L-15

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| Arcos Alloys | Arcos E317L-15 |
| Astrolite Alloys | Astrolite 317L-15 |
| Champion Welding Products | CHAMPION E317L-15 |
| D&H Secheron Electrodes Limited | BATOX - E |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 317L-15 |
| Euroweld, Ltd. | E317L-15 |
| Industrial Welding Corporation | NIHONWELD NSS-317LD |
| Inweld Corporation | INWELD 317L-15 |
| Oxford Alloys, Inc. | OXFORD E317L-15 |
| Washington Alloy Company | USA 317L-15 |
| WELDWIRE COMPANY INC. | E317L-15 |

E317L-16

| SOURCE | PRODUCT |
|---|--------------------------|
| American Filler Metals Company | AFM 317L-16 |
| American Welding Alloys | AWA 317L-16 |
| Arcos Alloys | Arcos E317L-16 |
| Arctec Alloys Limited | ARCTEC E317L-16 |
| Astrolite Alloys | Astrolite 317L-16 |
| Bohler Thyssen Welding USA, Inc. | UTP 317 LC Titan |
| Champion Welding Products | CHAMPION E316L-16 |
| D&H Secheron Electrodes Limited | RUTOX - E |
| Dytron Corporation | 317L-16 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 317L-16 |
| HARRIS WELCO | WELCO E317L-16 |
| HYUNDAI WELDING PRODUCTS, INC. | S-317L.16 |
| Indura S.A. Industria y Comercio | INDURA 317L |
| Industrial Welding Corporation | NIHONWELD NSS-317L |
| Inweld Corporation | INWELD 317L-16 |
| Kobe Steel, LTD. | NC-317L |
| Lincoln Electric Co. | Red Baron 317L MR |
| McKay Welding Products | 317L AC-DC |
| Messer - MG Systems & Welding Inc. | 6317L-16 |
| Midalloy, Inc. | Chromax E317L-16 |
| Nippon Welding Rod Co., Ltd. | WEL 317L |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E317L-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--------------------------------|
| NOF Corporation | RNY317L, 317L3 |
| Oxford Alloys, Inc. | OXFORD E317L-16 |
| Sodel Ltd | Sodel 317L-16, Sodel 317L-16VD |
| Stoody Company - Thermadyne Industries | Stoody 317L-16 Series II |
| Techalloy Company, Inc. | RACO 317L |
| Uniweld Products, Inc. | UNI-317L-16 |
| Washington Alloy Company | USA 317L-16 |
| Weld Mold Company | 317L-16 |
| WELDWIRE COMPANY INC. | E317L-16 |

E317L-17

| SOURCE | PRODUCT |
|--|------------------------------------|
| Arcos Alloys | Arcos E317L-17 |
| Arctec Alloys Limited | ARCTEC E317L-17 |
| Astrolite Alloys | Astrolite 317L-17 |
| Avesta Welding Products Inc. | AVESTA 317L-17 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4440 AC |
| ELGA AB | CROMAROD 317 L, CROMAROD 317 L-140 |
| ESAB AB | OK 64.30 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 317L-17 PLUS |
| Industrial Welding Corporation | NIHONWELD NSS-317L-17 |
| McKay Welding Products | STERLING 317L-17 |
| Nippon Welding Rod Co., Ltd. | WEL AZ 317L |
| Oxford Alloys, Inc. | OXFORD E317L-17 |
| WELDWIRE COMPANY INC. | WW 317L-17 |

E317L-25

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Astrolite Alloys | Astrolite 317L-25 |
| Euroweld, Ltd. | E317L-25 |
| Industrial Welding Corporation | NIHONWELD NSS-317L-25 |

E317L-26

| SOURCE | PRODUCT |
|------------------|-------------------|
| Astrolite Alloys | Astrolite 317L-26 |
| Euroweld, Ltd. | E317L-26 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E317L-26 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-317L-26 |

E318-15

| SOURCE | PRODUCT |
|-------------------------------------|------------------------------|
| Arcos Alloys | Arcos E318-15 |
| Astrolite Alloys | Astrolite 318-15 |
| Avesta Welding Products Inc. | AVESTA 318-15 |
| Champion Welding Products | CHAMPION E318-15 |
| D&H Secheron Electrodes Limited | BATOX-Mo (St), RUTOX-Mo (St) |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 318-15 |
| Euroweld, Ltd. | E318-15 |
| Industrial Welding Corporation | NIHONWELD NSS-318D |
| Oxford Alloys, Inc. | OXFORD E318-15 |
| Washington Alloy Company | USA 318-15 |
| WELDWIRE COMPANY INC. | E318-15 |

E318-16

| SOURCE | PRODUCT |
|---|----------------------------|
| Arcos Alloys | Arcos E318-16 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS P-318 Super |
| Astrolite Alloys | Astrolite 318-16 |
| Bohler Thyssen Welding USA, Inc. | UTP 68 Mo |
| Champion Welding Products | CHAMPION E318-16 |
| D&H Secheron Electrodes Limited | BATOX - Mo (St), RUTOX - C |
| Electromanufacturas S.A | Cromarco 318-16 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 318-16 |
| EXSA S.A.- División Fontargen | FON E 125 Cb |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 318 |
| HYUNDAI WELDING PRODUCTS, INC. | S-318.16 |
| Industrial Welding Corporation | NIHONWELD NSS-318 |
| Inweld Corporation | INWELD 318-16 |
| Kobe Steel, LTD. | NC-318 |
| Lincoln Electric Co. | Arosta 318 |
| Messer - MG Systems & Welding Inc. | 6318-16 |
| Nippon Welding Rod Co., Ltd. | WEL 318 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E318-16 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|-----------------------|
| NOF Corporation | RNY318 |
| Oxford Alloys, Inc. | OXFORD E318-16 |
| Techalloy Company, Inc. | RACO 318 |
| Washington Alloy Company | USA 318-16 |
| WELDWIRE COMPANY INC. | E318-16 |

E318-17

| SOURCE | PRODUCT |
|--|-----------------------|
| Astrolite Alloys | Astrolite 318-17 |
| Avesta Welding Products Inc. | AVESTA 318-17 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4576 AC |
| ELGA AB | CROMAROD 318 |
| ESAB AB | OK 63.80 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 318 R |
| Industrial Welding Corporation | NIHONWELD NSS-318-17 |
| Oxford Alloys, Inc. | OXFORD E318-17 |

E318-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 318-25 |
| Industrial Welding Corporation | NIHONWELD NSS-318-25 |

E318-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 318-26 |
| Industrial Welding Corporation | NIHONWELD NSS-318-26 |

E320-15

| SOURCE | PRODUCT |
|----------------------------------|-------------------------|
| Arcos Alloys | Arcos E320-15 |
| Astrolite Alloys | Astrolite E320-15 |
| Champion Welding Products | CHAMPION E320-15 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 320-15 |
| HARRIS WELCO | WELCO E320-15 |
| Industrial Welding Corporation | NIHONWELD NSS-320D |
| Inweld Corporation | INWELD 320-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E320-15 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|----------------|
| Oxford Alloys, Inc. | OXFORD E320-15 |
| Washington Alloy Company | USA 320-15 |
| Weld Mold Company | 3320-15 |
| WELDWIRE COMPANY INC. | E320-15 |

E320-16

| SOURCE | PRODUCT |
|------------------------------------|--------------------|
| American Filler Metals Company | AFM 320-16 |
| American Welding Alloys | AWA 320-16 |
| Astrolite Alloys | Astrolite E320-16 |
| Champion Welding Products | CHAMPION E320-16 |
| Cronatron Welding Systems | Cronaweld E 320-16 |
| Dytron Corporation | 320-16 |
| Industrial Welding Corporation | NIHONWELD NSS-320 |
| Inweld Corporation | INWELD 320-16 |
| Messer - MG Systems & Welding Inc. | 6320-16 |
| Nassau Research Corp. | Gemini |
| NATWELD | E320-16 |
| Oxford Alloys, Inc. | OXFORD E320-16 |
| Techalloy Company, Inc. | RACO 320 |
| Uniweld Products, Inc. | UNI-320-16 |
| Washington Alloy Company | USA 320-16 |
| Weld Mold Company | 3320-16 |
| WELDWIRE COMPANY INC. | E320-16 |

E320-17

| SOURCE | PRODUCT |
|-------------------------------------|----------------------|
| Astrolite Alloys | Astrolite E320-17 |
| CARBO-WELD Schweissmaterialien GmbH | CARBOWELD 135 |
| Industrial Welding Corporation | NIHONWELD NSS-320-17 |

E320-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite E320-25 |
| Industrial Welding Corporation | NIHONWELD NSS-320-25 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E320-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite E320-26 |
| Industrial Welding Corporation | NIHONWELD NSS-320-26 |

E320LR-15

| SOURCE | PRODUCT |
|----------------------------------|---------------------------|
| Arcos Alloys | Arcos E320LR-15 |
| Astrolite Alloys | Astrolite E320LR-15 |
| Bohler Thyssen Welding USA, Inc. | UTP 3320 LC |
| Champion Welding Products | CHAMPION E320LR-15 |
| Euroweld, Ltd. | E320LR-15 |
| Industrial Welding Corporation | NIHONWELD NSS-320LRD |
| Inweld Corporation | INWELD 320LR-15 |
| Oxford Alloys, Inc. | OXFORD E320LR-15 |
| Washington Alloy Company | USA 320LR-15 |
| WELDWIRE COMPANY INC. | WW 320LR-15 |

E320LR-16

| SOURCE | PRODUCT |
|---------------------------------------|---------------------------|
| American Filler Metals Company | AFM 320LR-16 |
| American Welding Alloys | AWA 320LR-16 |
| Astrolite Alloys | Astrolite E320LR-16 |
| Champion Welding Products | CHAMPION E320LR-16 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 320LR-16 |
| Industrial Welding Corporation | NIHONWELD NSS-320LR |
| Inweld Corporation | INWELD 320LR-16 |
| Midalloy, Inc. | Chromax E320LR-16 |
| Nassau Research Corp. | Gemini |
| Nippon Welding Rod Co., Ltd. | WEL 320LR |
| Oxford Alloys, Inc. | OXFORD E320LR-16 |
| Techalloy Company, Inc. | RACO 320LR |
| Uniweld Products, Inc. | UNI-320LR-16 |
| Washington Alloy Company | USA 320LR-16 |
| WELDWIRE COMPANY INC. | WW 320LR-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E320LR-17

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Astrolite Alloys | Astrolite E320LR-17 |
| Industrial Welding Corporation | NIHONWELD NSS-320LR-17 |

E320LR-25

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Astrolite Alloys | Astrolite E320LR-25 |
| Industrial Welding Corporation | NIHONWELD NSS-320LR-25 |

E320LR-26

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Astrolite Alloys | Astrolite E320LR-26 |
| Industrial Welding Corporation | NIHONWELD NSS-320LR-26 |

E330-15

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| Arcos Alloys | Arcos E330-15 |
| Astrolite Alloys | Astrolite 330-15 |
| Champion Welding Products | CHAMPION E330-15 |
| Euroweld, Ltd. | E330-15 |
| Industrial Welding Corporation | NIHONWELD NSS-330D |
| McKay Welding Products | MCKAY 330-15 |
| Oxford Alloys, Inc. | OXFORD E330-15 |
| Washington Alloy Company | USA 330-15 |
| Weld Mold Company | 330-15 |
| WELDWIRE COMPANY INC. | E330-15 |

E330-16

| SOURCE | PRODUCT |
|----------------------------------|------------------|
| American Filler Metals Company | AFM 330-16 |
| American Welding Alloys | AWA 330-16 |
| Arcos Alloys | Arcos E330-16 |
| Astrolite Alloys | Astrolite 330-16 |
| Bohler Thyssen Welding USA, Inc. | UTP E330-16 |
| Champion Welding Products | CHAMPION E330-16 |
| Crown Alloys Company | Crown 330-16 |
| D&H Secheron Electrodes Limited | D&H 330C |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E330-16 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------------|-------------------|
| Dytron Corporation | 330-16 |
| HARRIS WELCO | WELCO E330-16 |
| Industrial Welding Corporation | NIHONWELD NSS-330 |
| Inweld Corporation | INWELD 330-16 |
| McKay Welding Products | 330 AC-DC |
| Messer - MG Systems & Welding Inc. | 6330-16 |
| Midalloy, Inc. | Chromax E330-16 |
| Nassau Research Corp. | Gemini |
| NATWELD | E330-16 |
| Nippon Welding Rod Co., Ltd. | WEL 330 |
| NOF Corporation | RNY330 |
| Oxford Alloys, Inc. | OXFORD E330-16 |
| Techalloy Company, Inc. | RACO 330 |
| Uniweld Products, Inc. | UNI-330-16 |
| Washington Alloy Company | USA 330-16 |
| Weld Mold Company | 330-16 |
| WELDWIRE COMPANY INC. | E330-16 |

E330-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 330-17 |
| Industrial Welding Corporation | NIHONWELD NSS-330-17 |

E330-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 330-25 |
| Industrial Welding Corporation | NIHONWELD NSS-330-25 |

E330-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 330-26 |
| Industrial Welding Corporation | NIHONWELD NSS-330-26 |

E330H-15

| SOURCE | PRODUCT |
|---------------|----------------|
| Arcos Alloys | Arcos E330H-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E330H-15 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| Astrolite Alloys | Astrolite 330H-15 |
| Champion Welding Products | CHAMPION E330H-15 |
| D&H Secheron Electrodes Limited | D&H - 330-C |
| Euroweld, Ltd. | E330H-15 |
| Industrial Welding Corporation | NIHONWELD NSS-330HD |
| Nippon Welding Rod Co., Ltd. | WEL HT-40 |
| Oxford Alloys, Inc. | OXFORD E330H-15 |
| Washington Alloy Company | USA 330H-15 |
| Weld Mold Company | 330HC-15 |
| WELDWIRE COMPANY INC. | E330H-15 |

E330H-16

| SOURCE | PRODUCT |
|------------------------------------|--------------------------|
| American Welding Alloys | AWA 330H-16 |
| Arcos Alloys | Arcos E330H-16 |
| Astrolite Alloys | Astrolite 330H-16 |
| Champion Welding Products | CHAMPION E330H-16 |
| Industrial Welding Corporation | NIHONWELD NSS-330H |
| Messer - MG Systems & Welding Inc. | 6330H-16 |
| Midalloy, Inc. | Chromax E330H-16 |
| Nassau Research Corp. | Gemini |
| Oxford Alloys, Inc. | OXFORD E330H-16 |
| Techalloy Company, Inc. | RACO 330HC |
| Washington Alloy Company | USA 330H-16 |
| Weld Mold Company | 330HC-16 |
| WELDWIRE COMPANY INC. | E330H-16 |

E330H-17

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Astrolite Alloys | Astrolite 330H-17 |
| Industrial Welding Corporation | NIHONWELD NSS-330H-17 |

E330H-25

| SOURCE | PRODUCT |
|------------------|-------------------|
| Astrolite Alloys | Astrolite 330H-25 |
| Euroweld, Ltd. | E330H-25 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E330H-25 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-330H-25 |

E330H-26

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Astrolite Alloys | Astrolite 330H-26 |
| Euroweld, Ltd. | E330H-26 |
| Industrial Welding Corporation | NIHONWELD NSS-330H-26 |

E347-15

| SOURCE | PRODUCT |
|--|-----------------------------|
| Arcos Alloys | Arcos E347-15 |
| Astrolite Alloys | Astrolite 347-15 |
| Avesta Welding Products Inc. | AVESTA 347-15 |
| Champion Welding Products | CHAMPION E347-15 |
| D&H Secheron Electrodes Limited | BATOX-A (St), RUTOX - A(St) |
| ESAB AB | OK 61.85 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 347-15 |
| Euroweld, Ltd. | E347-15 |
| EXSA S.A. - División Soldaduras OERLIKON | Inox A+Cb |
| Industrial Welding Corporation | NIHONWELD NSS-347D |
| Inweld Corporation | INWELD 347-15 |
| Lincoln Electric Co. | Stainweld 347-15 |
| Oxford Alloys, Inc. | OXFORD E347-15 |
| Washington Alloy Company | USA 347-15 |
| Weld Mold Company | 347-15 |
| WELDWIRE COMPANY INC. | E347-15 |

E347-16

| SOURCE | PRODUCT |
|---|-------------------|
| Airco Filler Metals | CODE-ARC 347 MR |
| All-State Welding Products | 347-16 |
| American Filler Metals Company | AFM 347-16 |
| American Welding Alloys | AWA 347-16 |
| Arcos Alloys | Arcos E347-16 |
| Arcweld Products, Ltd. | ARCWLD 347 AC/DC |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS P-347 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E347-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|------------------------------------|
| Astrolite Alloys | Astrolite 347-16 |
| Bohler Thyssen Welding USA, Inc. | UTP 6820 Nb, Thyssen HEW |
| Champion Welding Products | CHAMPION E347-16 |
| Crown Alloys Company | Crown 347-16 |
| D&H Secheron Electrodes Limited | RUTOX - A (St), RUTOX - B (St) |
| Dytron Corporation | 347-16 |
| Electromanufacturas S.A | Cromarco 347-16; West Rode 4Cb |
| ESAB AB | OK 61.81 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 347-16 |
| EXSA S.A. - División Soldaduras OERLIKON | Inox AW+Cb |
| EXSA S.A.- División Fontargen | FON E 124 Cb |
| HARRIS WELCO | WELCO E347-16 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 347 |
| Hobart Welding Products | SMOOTHARC PLUS 347-16 |
| HYUNDAI WELDING PRODUCTS, INC. | S-347.16 |
| Indura S.A. Industria y Comercio | INDURA 347 |
| Industrial Welding Corporation | NIHONWELD NSS-347 |
| Inweld Corporation | INWELD 347-16 |
| Kobe Steel, LTD. | NC-37, NC-37L |
| Lincoln Electric Co. | Stainweld 347-16, Red Baron 347 MR |
| McKay Welding Products | 347 AC-DC |
| Messer - MG Systems & Welding Inc. | 6347-16 |
| Midalloy, Inc. | Chromax E347-16 |
| Murex Welding Products | Murex 347 MR |
| Nassau Research Corp. | Gemini |
| NATWELD | E347-16 |
| Nippon Welding Rod Co., Ltd. | WEL 347, 347L |
| NOF Corporation | RNY347, RNY347L |
| Oxford Alloys, Inc. | OXFORD E347-16 |
| Sodel Ltd | Sodel 347-16 |
| Stoody Company - Thermadyne Industries | Stoody 347-16 |
| Techalloy Company, Inc. | RACO 347 |
| Uniweld Products, Inc. | UNI-347-16 |
| Washington Alloy Company | USA 347-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E347-16 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------|----------------|
| Weld Mold Company | 347-16 |
| WELDWIRE COMPANY INC. | E347-16 |

E347-17

| SOURCE | PRODUCT |
|--|-----------------------|
| Arcos Alloys | Arcos E347-17 |
| Astrolite Alloys | Astrolite 347-17 |
| Avesta Welding Products Inc. | AVESTA 347-17 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4551 AC |
| ELGA AB | CROMAROD 347 |
| ESAB AB | OK 61.80, 61.86 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 347 R |
| Industrial Welding Corporation | NIHONWELD NSS-347-17 |
| Lincoln Electric Co. | Blue Max 347 AC-DC |
| McKay Welding Products | STERLING 347-17 |
| Oxford Alloys, Inc. | OXFORD E347-17 |
| WELDWIRE COMPANY INC. | WW 347-17 |

E347-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 347-25 |
| Industrial Welding Corporation | NIHONWELD NSS-347-25 |

E347-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 347-26 |
| Industrial Welding Corporation | NIHONWELD NSS-347-26 |

E349-15

| SOURCE | PRODUCT |
|----------------------------------|-------------------------|
| Arcos Alloys | Arcos E349-15 |
| Astrolite Alloys | Astrolite 349-15 |
| Champion Welding Products | CHAMPION E349-15 |
| Euroweld, Ltd. | E349-15 |
| Industrial Welding Corporation | NIHONWELD NSS-349D |
| Oxford Alloys, Inc. | OXFORD E349-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E349-15 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|------------|
| Washington Alloy Company | USA 349-15 |
| WELDWIRE COMPANY INC. | E349-15 |

E349-16

| SOURCE | PRODUCT |
|--------------------------------|-------------------|
| American Welding Alloys | AWA 349-16 |
| Arcos Alloys | Arcos E349-16 |
| Astrolite Alloys | Astrolite 349-16 |
| Champion Welding Products | CHAMPION E349-16 |
| Dytron Corporation | 349-16 |
| Industrial Welding Corporation | NIHONWELD NSS-349 |
| Inweld Corporation | INWELD 349-16 |
| Oxford Alloys, Inc. | OXFORD E349-16 |
| Washington Alloy Company | USA 349-16 |
| WELDWIRE COMPANY INC. | E349-16 |

E349-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 349-17 |
| Industrial Welding Corporation | NIHONWELD NSS-349-17 |

E349-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 349-25 |
| Euroweld, Ltd. | E349-25 |
| Industrial Welding Corporation | NIHONWELD NSS-349-25 |

E349-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 349-26 |
| Euroweld, Ltd. | E349-26 |
| Industrial Welding Corporation | NIHONWELD NSS-349-26 |

E383-15

| SOURCE | PRODUCT |
|---------------------------------|----------------|
| D&H Secheron Electrodes Limited | D&H 150L(Spl.) |
| Euroweld, Ltd. | E383-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E383-15 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| Industrial Welding Corporation | NIHONWELD NSS-383D |
| Oxford Alloys, Inc. | OXFORD E383-15 |

E383-16

| SOURCE | PRODUCT |
|----------------------------------|-------------------|
| Bohler Thyssen Welding USA, Inc. | UTP 3127 LC |
| D&H Secheron Electrodes Limited | D&H 150L (SPL) |
| Industrial Welding Corporation | NIHONWELD NSS-383 |
| Oxford Alloys, Inc. | OXFORD E383-16 |

E383-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| ELGA AB | CROMAROD 383 |
| Industrial Welding Corporation | NIHONWELD NSS-383-17 |

E383-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-383-25 |

E383-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-383-26 |

E385-15

| SOURCE | PRODUCT |
|----------------------------------|--------------------|
| Bohler Thyssen Welding USA, Inc. | Thyssen 20/25 Cu |
| Euroweld, Ltd. | E385-15 |
| Industrial Welding Corporation | NIHONWELD NSS-385D |
| Lincoln Electric Co. | Jungo 4539 |
| Oxford Alloys, Inc. | OXFORD E385-15 |
| Washington Alloy Company | USA 904L-15 |
| WELDWIRE COMPANY INC. | WW 385-15 |

E385-16

| SOURCE | PRODUCT |
|----------------------------------|-----------------------------|
| American Filler Metals Company | AFM 385-16 |
| Bohler Thyssen Welding USA, Inc. | Thyssen 20/25 CuW, UTP 1925 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E385-16 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|-----------------------|
| D&H Secheron Electrodes Limited | D&H 150L |
| ESAB AB | OK 69.33 |
| Industrial Welding Corporation | NIHONWELD NSS-385 |
| Midalloy, Inc. | Chromax E385-16 |
| Oxford Alloys, Inc. | OXFORD E385-16 |
| Techalloy Company, Inc. | RACO 385 |
| Washington Alloy Company | USA 904L-16 |
| WELDWIRE COMPANY INC. | WW 385-16 |

E385-17

| SOURCE | PRODUCT |
|-------------------------------------|-----------------------|
| Avesta Welding Products Inc. | AVESTA 904L |
| ELGA AB | CROMAROD 385 |
| ESAB AB | OK 69.33 |
| Industrial Welding Corporation | NIHONWELD NSS-385-17 |
| Oxford Alloys, Inc. | OXFORD E385-17 |

E385-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Euroweld, Ltd. | E385-25 |
| Industrial Welding Corporation | NIHONWELD NSS-385-25 |

E385-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Euroweld, Ltd. | E385-26 |
| Industrial Welding Corporation | NIHONWELD NSS-385-26 |

E410-15

| SOURCE | PRODUCT |
|----------------------------------|-------------------------|
| Arcos Alloys | Arcos E410-15 |
| Astrolite Alloys | Astrolite 410-15 |
| Bohler Thyssen Welding USA, Inc. | UTP 66 |
| Champion Welding Products | CHAMPION E410-15 |
| D&H Secheron Electrodes Limited | D&H - 13 Cr |
| ESAB AB | OK 68.15 |
| Euroweld, Ltd. | E410-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E410-15 (Continued from previous page)

| SOURCE | PRODUCT |
|--|-------------------------|
| EXSA S.A. - División Soldaduras OERLIKON | Citochrom 13 |
| EXSA S.A.- División Fontargen | FON E 127 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilchrome 410 |
| Industrial Welding Corporation | NIHONWELD NSS-410D |
| Inweld Corporation | INWELD 410-15 |
| Oxford Alloys, Inc. | OXFORD E410-15 |
| SOWESCO | Pinnacle Alloys E410-15 |
| Washington Alloy Company | USA 410-15 |
| WELDWIRE COMPANY INC. | E410-15 |

E410-16

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------------|
| American Filler Metals Company | AFM 410-16 |
| American Welding Alloys | AWA 410-16 |
| Arcos Alloys | Arcos E410-16 |
| Astrolite Alloys | Astrolite 410-16 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4009 MPR |
| Champion Welding Products | CHAMPION E410-16 |
| Crown Alloys Company | Crown 410-16 |
| Dytron Corporation | 410-16 |
| Electromanufacturas S.A | Cromarco 410-16; West Rode 13 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 410-16 |
| Euroweld, Ltd. | E410-16 |
| HARRIS WELCO | WELCO E410-16 |
| Indura S.A. Industria y Comercio | INDURA 410 |
| Industrial Welding Corporation | NIHONWELD NSS-410 |
| Inweld Corporation | INWELD 410-16 |
| Kobe Steel, LTD. | CR-40 |
| McKay Welding Products | 410 AC-DC |
| Midalloy, Inc. | Chromax E410-16 |
| Nassau Research Corp. | Gemini |
| NATWELD | E410-16 |
| Nippon Welding Rod Co., Ltd. | WEL 410 |
| NOF Corporation | RNY410 |
| Oxford Alloys, Inc. | OXFORD E410-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E410-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--|-------------------|
| Stoody Company - Thermadyne Industries | Stoody 410-16 |
| Techalloy Company, Inc. | RACO 410 |
| Uniweld Products, Inc. | UNI-410-16 |
| Washington Alloy Company | USA 410-16 |
| Weld Mold Company | 410C-16 |
| WELDWIRE COMPANY INC. | E410-16 |

E410-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 410-17 |
| Industrial Welding Corporation | NIHONWELD NSS-410-17 |

E410-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 410-25 |
| Euroweld, Ltd. | E410-25 |
| EXSA S.A.- División Fontargen | FON E 1127 H |
| Industrial Welding Corporation | NIHONWELD NSS-410-25 |

E410-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 410-26 |
| Euroweld, Ltd. | E410-26 |
| Industrial Welding Corporation | NIHONWELD NSS-410-26 |

E410NiMo-15

| SOURCE | PRODUCT |
|--|-----------------------------|
| Arcos Alloys | Arcos E410NiMo-15 |
| Astrolite Alloys | Astrolite 410NiMo-15 |
| Champion Welding Products | CHAMPION E410NiMo-15 |
| D&H Secheron Electrodes Limited | D&H - 444L |
| ESAB AB | OK 68.25 |
| Euroweld, Ltd. | E410NiMo-15 |
| EXSA S.A. - División Soldaduras OERLIKON | Citochrom 134 |
| EXSA S.A.- División Fontargen | FON E 127 / 4 |
| Industrial Welding Corporation | NIHONWELD NSS-410NiMoD |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E410NiMo-15 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------|--------------------|
| Nippon Welding Rod Co., Ltd. | WEL 410NiMo |
| Oxford Alloys, Inc. | OXFORD E410NiMo-15 |
| Sodel Ltd | Sodel 410NiMo-15 |
| Washington Alloy Company | USA 410NiMo-15 |
| WELDWIRE COMPANY INC. | E410NiMo-15 |

E410NiMo-16

| SOURCE | PRODUCT |
|--|-----------------------|
| American Filler Metals Company | AFM 410NiMo-16 |
| American Welding Alloys | AWA 410NiMo-16 |
| Arcos Alloys | Arcos E410NiMo-16 |
| Astrolite Alloys | Astrolite 410NiMo-16 |
| Bohler Thyssen Welding USA, Inc. | UTP 6635 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4351 MPR |
| Champion Welding Products | CHAMPION E410NiMo-16 |
| ESAB AB | OK 68.17 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 410NiMo-16 |
| Euroweld, Ltd. | E410NiMo-16 |
| Indura S.A. Industria y Comercio | INDURA 410 Ni Mo |
| Industrial Welding Corporation | NIHONWELD NSS-410NiMo |
| Inweld Corporation | INWELD 410NiMo-16 |
| Kobe Steel, LTD. | CR-410NM |
| McKay Welding Products | 410NiMo AC-DC |
| Midalloy, Inc. | Chromax E410NiMo-16 |
| Nassau Research Corp. | Gemini |
| Nippon Welding Rod Co., Ltd. | WEL 410NiMo |
| Oxford Alloys, Inc. | OXFORD E410NiMo-16 |
| Stoody Company - Thermadyne Industries | Stoody 410NiMo-16 |
| Techalloy Company, Inc. | RACO 410NiMo |
| Washington Alloy Company | USA 410NiMo-16 |
| Weld Mold Company | 410NiMo-16 |
| WELDWIRE COMPANY INC. | E410NiMo-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E410NiMo-17

| SOURCE | PRODUCT |
|--------------------------------|--------------------------|
| Astrolite Alloys | Astrolite 410NiMo-17 |
| Industrial Welding Corporation | NIHONWELD NSS-410NiMo-17 |

E410NiMo-25

| SOURCE | PRODUCT |
|--------------------------------|--------------------------|
| Astrolite Alloys | Astrolite 410NiMo-25 |
| ELGA AB | CROMAROD 410 NiMo |
| Euroweld, Ltd. | E410NiMo-25 |
| EXSA S.A.- División Fontargen | FON E 1127 / 4 H |
| Industrial Welding Corporation | NIHONWELD NSS-410NiMo-25 |

E410NiMo-26

| SOURCE | PRODUCT |
|--------------------------------|--------------------------|
| Astrolite Alloys | Astrolite 410NiMo-26 |
| Euroweld, Ltd. | E410NiMo-26 |
| Industrial Welding Corporation | NIHONWELD NSS-410NiMo-26 |

E430-15

| SOURCE | PRODUCT |
|----------------------------------|-------------------------|
| Arcos Alloys | Arcos E430-15 |
| Astrolite Alloys | Astrolite 430-15 |
| Champion Welding Products | CHAMPION E430-15 |
| D&H Secheron Electrodes Limited | D&H - 17 Cr |
| Euroweld, Ltd. | E430-15 |
| Industrial Welding Corporation | NIHONWELD NSS-430D |
| Oxford Alloys, Inc. | OXFORD E430-15 |
| Washington Alloy Company | USA 430-15 |
| WELDWIRE COMPANY INC. | E430-15 |

E430-16

| SOURCE | PRODUCT |
|--|-------------------------|
| American Welding Alloys | AWA 430-16 |
| Arcos Alloys | Arcos E430-16 |
| Astrolite Alloys | Astrolite 430-16 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO 4015 MPR |
| Champion Welding Products | CHAMPION E430-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E430-16 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------------|-----------------------|
| Dytron Corporation | 430-16 |
| Euroweld, Ltd. | E430-16 |
| Industrial Welding Corporation | NIHONWELD NSS-430 |
| Inweld Corporation | INWELD 430-16 |
| Kobe Steel, LTD. | CR-43 |
| Messer - MG Systems & Welding Inc. | 6430-16 |
| Nassau Research Corp. | Gemini |
| Nippon Welding Rod Co., Ltd. | WEL 430 |
| NOF Corporation | RNY430 |
| Oxford Alloys, Inc. | OXFORD E430-16 |
| Techalloy Company, Inc. | RACO 430 |
| Uniweld Products, Inc. | UNI-430-16 |
| Washington Alloy Company | USA 430-16 |
| Weld Mold Company | 430C-16 |
| WELDWIRE COMPANY INC. | E430-16 |

E430-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 430-17 |
| Industrial Welding Corporation | NIHONWELD NSS-430-17 |

E430-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 430-25 |
| Euroweld, Ltd. | E430-25 |
| Industrial Welding Corporation | NIHONWELD NSS-430-25 |

E430-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 430-26 |
| ELGA AB | CROMAROD 430 |
| Euroweld, Ltd. | E430-26 |
| Industrial Welding Corporation | NIHONWELD NSS-430-26 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E502-15

| SOURCE | PRODUCT |
|---|-------------------------------|
| American Filler Metals Company | AFM 502-15 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS DA-778 |
| Astrolite Alloys | Astrolite 502-15 |
| Champion Welding Products | CHAMPION E502-15 |
| D&H Secheron Electrodes Limited | Shifted to SFA 5.5 |
| Electromanufacturas S.A | Cromarco 502-15; West Rode 54 |
| ELGA AB | P 85 CR |
| Euroweld, Ltd. | E502-15 |
| EXSA S.A.- División Fontargen | FON E 104 |
| Industrial Welding Corporation | NIHONWELD NSS-502D |
| Inweld Corporation | INWELD 502-15 |
| Oxford Alloys, Inc. | OXFORD E502-15 |
| Uniweld Products, Inc. | UNI-502-15 |
| Washington Alloy Company | USA 502-15 |
| Weld Mold Company | 502-15 |
| WELDWIRE COMPANY INC. | E502-15 |

E502-16

| SOURCE | PRODUCT |
|--|-------------------|
| American Filler Metals Company | AFM 502-16 |
| American Welding Alloys | AWA 502-16 |
| Astrolite Alloys | Astrolite 502-16 |
| CARBO-WELD Schweissmaterialien GmbH | CROMOWELD 5 |
| Champion Welding Products | CHAMPION E502-16 |
| Dytron Corporation | 502-16 |
| Euroweld, Ltd. | E502-16 |
| EXSA S.A. - División Soldaduras OERLIKON | Cromocord 502 |
| HARRIS WELCO | WELCO E502-16 |
| Indura S.A. Industria y Comercio | INDURA 502 |
| Industrial Welding Corporation | NIHONWELD NSS-502 |
| Inweld Corporation | INWELD 502-16 |
| Kobe Steel, LTD. | CM-5 |
| Midalloy, Inc. | Chromax E502-16 |
| NATWELD | E502-16 |
| Oxford Alloys, Inc. | OXFORD E502-16 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E502-16 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|-------------------|
| Techalloy Company, Inc. | RACO 502 |
| Uniweld Products, Inc. | UNI-502-16 |
| Washington Alloy Company | USA 502-16 |
| WELDWIRE COMPANY INC. | E502-16 |

E502-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 502-17 |
| Industrial Welding Corporation | NIHONWELD NSS-502-17 |

E502-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 502-25 |
| Industrial Welding Corporation | NIHONWELD NSS-502-25 |

E502-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 502-26 |
| Industrial Welding Corporation | NIHONWELD NSS-502-26 |

E505-15

| SOURCE | PRODUCT |
|---------------------------------------|--------------------------------|
| American Filler Metals Company | AFM 505-15 |
| Astrolite Alloys | Astrolite 505-15 |
| Champion Welding Products | CHAMPION E505-15 |
| D&H Secheron Electrodes Limited | Shifted to SFA 5.5 |
| Electromanufacturas S.A | Cromarco 505-15; West Rode 101 |
| Euroweld, Ltd. | E505-15 |
| Industrial Welding Corporation | NIHONWELD NSS-505D |
| Inweld Corporation | INWELD 505-15 |
| Oxford Alloys, Inc. | OXFORD E505-15 |
| Uniweld Products, Inc. | UNI-505-15 |
| Washington Alloy Company | USA 505-15 |
| Weld Mold Company | 505-15 |
| WELDWIRE COMPANY INC. | E505-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E505-16

| SOURCE | PRODUCT |
|--|-------------------------|
| American Filler Metals Company | AFM 505-16 |
| American Welding Alloys | AWA 505-16 |
| Astrolite Alloys | Astrolite 505-16 |
| CARBO-WELD Schweissmaterialien GmbH | CROMOWELD 9 |
| Champion Welding Products | CHAMPION E505-16 |
| Dytron Corporation | 505-16 |
| HARRIS WELCO | WELCO E505-16 |
| Industrial Welding Corporation | NIHONWELD NSS-505 |
| Inweld Corporation | INWELD 505-16 |
| Kobe Steel, LTD. | CM-9 |
| Midalloy, Inc. | Chromax E505-16 |
| NATWELD | E505-16 |
| Oxford Alloys, Inc. | OXFORD E505-16 |
| Techalloy Company, Inc. | RACO 505 |
| Uniweld Products, Inc. | UNI-505-16 |
| Washington Alloy Company | USA 505-16 |
| WELDWIRE COMPANY INC. | E505-16 |

E505-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 505-17 |
| Industrial Welding Corporation | NIHONWELD NSS-505-17 |

E505-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 505-25 |
| Industrial Welding Corporation | NIHONWELD NSS-505-25 |

E505-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 505-26 |
| Industrial Welding Corporation | NIHONWELD NSS-505-26 |

E630-15

| SOURCE | PRODUCT |
|---------------|----------------|
| Arcos Alloys | Arcos E630-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E630-15 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------------|---------------------------------------|
| Astrolite Alloys | Astrolite 630-15 |
| Champion Welding Products | CHAMPION E630-15 |
| D&H Secheron Electrodes Limited | D&H - 446L |
| Industrial Welding Corporation | NIHONWELD NSS-630D |
| Oxford Alloys, Inc. | OXFORD E630-15 |
| Washington Alloy Company | USA 630-15, 17/4 PH -15 Coated |
| WELDWIRE COMPANY INC. | E630-15 |

E630-16

| SOURCE | PRODUCT |
|---------------------------------------|---------------------------------------|
| American Filler Metals Company | AFM 630-16 |
| American Welding Alloys | AWA 630-16 |
| Arcos Alloys | Arcos E630-16 |
| Astrolite Alloys | Astrolite 630-16 |
| Bohler Thyssen Welding USA, Inc. | UTP E630-16 |
| Champion Welding Products | CHAMPION E630-16 |
| D&H Secheron Electrodes Limited | D&H 446L |
| Dytron Corporation | 630-16 |
| Industrial Welding Corporation | NIHONWELD NSS-630 |
| Inweld Corporation | INWELD 630-16 |
| Kobe Steel, LTD. | NC-630 |
| Midalloy, Inc. | Chromax E630-16 |
| NATWELD | E630-16 |
| Nippon Welding Rod Co., Ltd. | WEL 630 |
| NOF Corporation | RNY630 |
| Oxford Alloys, Inc. | OXFORD E630-16 |
| Techalloy Company, Inc. | RACO 630 |
| Uniweld Products, Inc. | UNI-630-16 |
| Washington Alloy Company | USA 630-16, 17/4 PH -16 Coated |
| Weld Mold Company | 305-16 |
| WELDWIRE COMPANY INC. | E630-16 |

E630-17

| SOURCE | PRODUCT |
|------------------|------------------|
| Astrolite Alloys | Astrolite 630-17 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E630-17 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-630-17 |

E630-25

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 630-25 |
| Industrial Welding Corporation | NIHONWELD NSS-630-25 |

E630-26

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Astrolite Alloys | Astrolite 630-26 |
| Industrial Welding Corporation | NIHONWELD NSS-630-26 |

E16-8-2-15

| SOURCE | PRODUCT |
|----------------------------------|----------------------------|
| Arcos Alloys | Arcos E16-8-2-15 |
| Astrolite Alloys | Astrolite 16-8-2-15 |
| Champion Welding Products | CHAMPION E16-8-2-15 |
| D&H Secheron Electrodes Limited | D&H 16/8/2 |
| Euroweld, Ltd. | E16-8-2-15 |
| Industrial Welding Corporation | NIHONWELD NSS-16-8-2D |
| Inweld Corporation | INWELD 16-8-2-15 |
| Nippon Welding Rod Co., Ltd. | WEL 16-8-2 |
| Oxford Alloys, Inc. | OXFORD E16-8-2-15 |
| Washington Alloy Company | USA 16-8-2-15 |
| WELDWIRE COMPANY INC. | 16-8-2-15 |

E16-8-2-16

| SOURCE | PRODUCT |
|----------------------------------|----------------------------|
| Arcos Alloys | Arcos E16-8-2-16 |
| Astrolite Alloys | Astrolite 16-8-2-16 |
| Champion Welding Products | CHAMPION E16-8-2-16 |
| D&H Secheron Electrodes Limited | D&H 16/8/2 |
| Euroweld, Ltd. | E16-8-2-16 |
| Industrial Welding Corporation | NIHONWELD NSS-16-8-2 |
| Inweld Corporation | INWELD 16-8-2-16 |
| Kobe Steel, LTD. | NC-16H |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E16-8-2-16 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|-------------------|
| NOF Corporation | RNY16-8-2 |
| Oxford Alloys, Inc. | OXFORD E16-8-2-16 |
| Washington Alloy Company | USA 16-8-2-16 |
| WELDWIRE COMPANY INC. | 16-8-2-16 |

E16-8-2-17

| SOURCE | PRODUCT |
|--------------------------------|-------------------------|
| Astrolite Alloys | Astrolite 16-8-2-17 |
| Industrial Welding Corporation | NIHONWELD NSS-16-8-2-17 |

E16-8-2-25

| SOURCE | PRODUCT |
|--------------------------------|-------------------------|
| Astrolite Alloys | Astrolite 16-8-2-25 |
| Euroweld, Ltd. | E16-8-2-25 |
| Industrial Welding Corporation | NIHONWELD NSS-16-8-2-25 |

E16-8-2-26

| SOURCE | PRODUCT |
|--------------------------------|-------------------------|
| Astrolite Alloys | Astrolite 16-8-2-26 |
| Euroweld, Ltd. | E16-8-2-26 |
| Industrial Welding Corporation | NIHONWELD NSS-16-8-2-26 |

E7Cr-15

| SOURCE | PRODUCT |
|--------------------------------|------------------|
| Champion Welding Products | CHAMPION E7CR-15 |
| Industrial Welding Corporation | E7Cr-15D |
| Oxford Alloys, Inc. | OXFORD E7Cr-15 |

E7Cr-16

| SOURCE | PRODUCT |
|--------------------------------|-------------------|
| Industrial Welding Corporation | NIHONWELD NSS-7Cr |
| Kobe Steel, LTD. | CM-7 |
| Oxford Alloys, Inc. | OXFORD E7Cr-16 |

E7Cr-17

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-7Cr-17 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E7Cr-25

SOURCE

Industrial Welding Corporation

PRODUCT

NIHONWELD NSS-7Cr-25

E7Cr-26

SOURCE

Industrial Welding Corporation

PRODUCT

NIHONWELD NSS-7Cr-26

E2209-15

SOURCE

Avesta Welding Products Inc.

Bohler Thyssen Welding USA, Inc.

D&H Secheron Electrodes Limited

ELGA AB

ESAB AB

Euroweld, Ltd.

Industrial Welding Corporation

Lincoln Electric Co.

Oxford Alloys, Inc.

Sodel Ltd

Washington Alloy Company

WELDWIRE COMPANY INC.

PRODUCT

AVESTA 2205-15

Thyssen 22/09

D&H-2093L

CROMAROD DUPLEX B

OK 67.55, 68.55

E2209-15

NIHONWELD NSS-2209D

Jungo 4462

OXFORD E2209-15

Nil

USA 2209-15

WW 2209-15

E2209-16

SOURCE

American Filler Metals Company

American Welding Alloys

Bohler Thyssen Welding USA, Inc.

D&H Secheron Electrodes Limited

Dytron Corporation

ESAB AB

Euroweld, Ltd.

Industrial Welding Corporation

Inweld Corporation

Lincoln Electric Co.

McKay Welding Products

Midalloy, Inc.

Nippon Welding Rod Co., Ltd.

PRODUCT

AFM 2209-16

AWA 2209-16

UTP 6808 Mo, Thyssen 22/09W

D&H 2093L

2209-16

OK 67.53

E2209-16

NIHONWELD NSS-2209

INWELD E2209-16

Red Baron 2209 MR

2209 AC-DC

E2209-16

WEL 329J3L

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E2209-16 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| NOF Corporation | RNY329J3L |
| Oxford Alloys, Inc. | OXFORD E2209-16 |
| Sodel Ltd | Sodel 2293L-16 |
| Techalloy Company, Inc. | RACO 2209 |
| Washington Alloy Company | USA 2209-16 |
| WELDWIRE COMPANY INC. | WW 2209-16 |

E2209-17

| SOURCE | PRODUCT |
|-------------------------------------|--------------------------------------|
| Avesta Welding Products Inc. | AVESTA 2209-17 |
| ELGA AB | CROMAROD DUPLEX LP |
| ELGA AB | CROMAROD DUPLEX, CROMAROD DUPLEX-140 |
| ESAB AB | OK 67.50, 67.51 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 2209 |
| Industrial Welding Corporation | NIHONWELD NSS-2209-17 |
| Oxford Alloys, Inc. | OXFORD E2209-17 |
| WELDWIRE COMPANY INC. | WW 2209-17 |

E2209-25

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-2209-25 |

E2209-26

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-2209-26 |

E2553-15

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| CORROSION MATERIALS INC. | FERRALIUM 255 |
| Euroweld, Ltd. | E2553-15 |
| Industrial Welding Corporation | NIHONWELD NSS-2553D |
| Oxford Alloys, Inc. | OXFORD E2553-15 |
| Washington Alloy Company | TN 255 FC |
| Weld Mold Company | 2553 |
| WELDWIRE COMPANY INC. | WW 2553-15 |

A5.4-92, STAINLESS STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.4-92, Specification for Stainless Steel Welding Electrodes for Shielded Metal Arc Welding

E2553-16

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| American Filler Metals Company | AFM 2553-16 |
| American Welding Alloys | AWA 2553-16 |
| D&H Secheron Electrodes Limited | D&H 25/5/3 |
| Euroweld, Ltd. | E2553-16 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilchrome 2553 |
| Industrial Welding Corporation | NIHONWELD NSS-2553 |
| Midalloy, Inc. | E2553-16 |
| Oxford Alloys, Inc. | OXFORD E2553-16 |
| Washington Alloy Company | TN 255 FC |
| WELDWIRE COMPANY INC. | WW 2553-16 |

E2553-17

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Industrial Welding Corporation | NIHONWELD NSS-2553-17 |

E2553-25

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Euroweld, Ltd. | E2553-25 |
| Industrial Welding Corporation | NIHONWELD NSS-2553-25 |

E2553-26

| SOURCE | PRODUCT |
|--------------------------------|-----------------------|
| Euroweld, Ltd. | E2553-26 |
| Industrial Welding Corporation | NIHONWELD NSS-2553-26 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E7010-A1

| SOURCE | PRODUCT |
|--|--------------------------------------|
| Airco Filler Metals | CODE-ARC 7010-A1 |
| American Welding Alloys | AWA E7010-A1 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS S-7010 Mo |
| Champion Welding Products | CHAMPION E7010-A1 |
| D&H Secheron Electrodes Limited | CELLUTHERME - Mo |
| Electromanufacturas S.A | West Arco ZIP-710 A1 |
| ESAB AB | Pipeweld 85 |
| ESAB WELDING & CUTTING PRODUCTS | SUREWELD SW-75 |
| EXSA S.A. - División Soldaduras OERLIKON | Cellocord 70,70T |
| EXSA S.A.- División Fontargen | FON E 51 C, FON E 51 CT, FON E51 CTG |
| HILARIUS HAARLEM HOLLAND BV | HILCO Pipeweld 8010 |
| HYUNDAI WELDING PRODUCTS, INC. | S-7010.A1 |
| Indura S.A. Industria y Comercio | INDURA 7010-A1 |
| Industrial Welding Corporation | NIHONWELD N-7010-A1 |
| Lincoln Electric Co. | Shield-Arc 85, 85P |
| Lincoln Electric Company (Australia) Pty Ltd | Shield-Arc 85, Shield-Arc 85P |
| Murex Welding Products | Murex 7010-A1 |
| Washington Alloy Company | USA 7010-A1 |

E7011-A1

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Industrial Welding Corporation | NIHONWELD N-7011-A1 |

E7015-A1

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| Champion Welding Products | CHAMPION E7015-A1 |
| ELGA AB | P 81 CR |
| Euroweld, Ltd. | E7015-A1 |
| Industrial Welding Corporation | NIHONWELD N-7015-A1 |
| Oxford Alloys, Inc. | OXFORD E7015-A1 |

E7016-A1

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| American Welding Alloys | AWA E7016-A1 |
| Champion Welding Products | CHAMPION E7016-A1 |
| Electromanufacturas S.A | West Arco WIZ-716 A1 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E7016-A1 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Euroweld, Ltd. | E7016-A1 |
| HYUNDAI WELDING PRODUCTS, INC. | S-7016.A1 |
| Industrial Welding Corporation | NIHONWELD N-7016-A1 |
| Kobe Steel, LTD. | CMA-76, CMB-76 |
| Oxford Alloys, Inc. | OXFORD E7016-A1 |

E7018-A1

| SOURCE | PRODUCT |
|---|-----------------------------|
| AIR LIQUIDE CANADA INC. | LA 7018-A1 |
| Airco Filler Metals | CODE-ARC 7018-A1 MR |
| American Filler Metals Company | AFM 7018-A1 |
| American Welding Alloys | AWA E7018-A1 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS DA-735 |
| CARBO-WELD Schweissmaterialien GmbH | CROMOWELD MO |
| Champion Welding Products | CHAMPION E7018-A1 |
| D&H Secheron Electrodes Limited | MOLYTHERME (MOD), MOLYTHERM |
| Electromanufacturas S.A | West Arco WIZ-718 A1 |
| ESAB AB | OK 74.46 |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 7018-Mo |
| Euroweld, Ltd. | E7018-A1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO B 12 Mo |
| Hobart Welding Products | Quantum Blue 7018A1 |
| HYUNDAI WELDING PRODUCTS, INC. | S-7018.A1 |
| Indura S.A. Industria y Comercio | INDURA 7018-A1 |
| Industrial Welding Corporation | NIHONWELD N-7018-A1 |
| Inweld Corporation | INWELD E7018-A1 |
| Lincoln Electric Co. | Jet-LH 7018-A1 MR, SL 12G |
| McKay Welding Products | Millenia 7018-A1 |
| Murex Welding Products | Murex 7018-A1 MR |
| Oxford Alloys, Inc. | OXFORD E7018-A1 |
| Washington Alloy Company | USA 7018-A1 |

E7027-A1

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Industrial Welding Corporation | NIHONWELD N-7027-A1 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8016-B1

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Euroweld, Ltd. | E8016-B1 |
| HYUNDAI WELDING PRODUCTS, INC. | S-8016.B1 |
| Industrial Welding Corporation | NIHONWELD N-8016-B1 |
| Kobe Steel, LTD. | CMB-86 |
| Oxford Alloys, Inc. | OXFORD E8016-B1 |

E8018-B1

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| American Welding Alloys | AWA E8018-B1 |
| Champion Welding Products | CHAMPION E8018-B1 |
| D&H Secheron Electrodes Limited | CROMOTHERME |
| Electromanufacturas S.A | West Arco WIZ-818 B1 |
| Euroweld, Ltd. | E8018-B1 |
| Industrial Welding Corporation | NIHONWELD N-8018-B1 |
| Lincoln Electric Co. | SL 22G |
| Oxford Alloys, Inc. | OXFORD E8018-B1 |

E8016-B2

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| Champion Welding Products | CHAMPION E8016-B2 |
| Euroweld, Ltd. | E8016-B2 |
| HYUNDAI WELDING PRODUCTS, INC. | S-8016.B2 |
| Indura S.A. Industria y Comercio | INDURA 8016-B2 |
| Industrial Welding Corporation | NIHONWELD N-8016-B2 |
| Inweld Corporation | INWELD 8016-B2 |
| Oxford Alloys, Inc. | OXFORD E8016-B2 |
| Washington Alloy Company | USA 8016-B2 |
| Weld Mold Company | 215 |

E8018-B2

| SOURCE | PRODUCT |
|---|---------------------|
| AIR LIQUIDE CANADA INC. | LA 8018-B2 |
| Airco Filler Metals | CODE-ARC 8018-B2 MR |
| American Filler Metals Company | AFM 8018-B2 |
| American Welding Alloys | AWA E8018-B2 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS DA-774 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8018-B2 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--|
| Bohler Thyssen Welding USA, Inc. | UTP 641, Thyssen Chromo 1 |
| CARBO-WELD Schweissmaterialien GmbH | CROMOWELD 1 |
| Champion Welding Products | CHAMPION E8018-B2 |
| D&H Secheron Electrodes Limited | CROMOTHERME - 1 (MOD), CROMOTHERME |
| Electromanufacturas S.A | West Arco WIZ-818 B2 |
| ESAB AB | OK 76.18 |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 8018-CM |
| Euroweld, Ltd. | E8018-B2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO B 19 CrMo |
| Hobart Welding Products | Quantum Blue 8018B2 |
| HYUNDAI WELDING PRODUCTS, INC. | S-8018.B2 |
| Indura S.A. Industria y Comercio | INDURA 8018-B2 |
| Industrial Welding Corporation | NIHONWELD N-8018-B2 |
| Inweld Corporation | INWELD 8018-B2 |
| Kobe Steel, LTD. | CMB-98 |
| Lincoln Electric Co. | Jetweld LH-90 MR, Jet-LH 8018-B2 MR, SL 19G, SL 19 STC |
| Lincoln Electric Company (Australia) Pty Ltd | Jetweld LH-90 MR |
| McKay Welding Products | Millenia 8018-B2 |
| Murex Welding Products | Murex 8018-B2 MR |
| Oxford Alloys, Inc. | OXFORD E8018-B2 |
| Techalloy Company, Inc. | RACO 8018-B2 |
| Uniweld Products, Inc. | UNI-8018B2 |
| Washington Alloy Company | USA 8018-B2, 8018B2L |

E7015-B2L

| SOURCE | PRODUCT |
|--------------------------------|---------------------------|
| Champion Welding Products | CHAMPION E8015-B2L |
| ELGA AB | P 84 CR |
| Euroweld, Ltd. | E7015-B2L |
| Euroweld, Ltd. | E8015-B2L |
| Industrial Welding Corporation | NIHONWELD N-7015-B2L |
| Oxford Alloys, Inc. | OXFORD E7015-B2L |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E7016-B2L

| SOURCE | PRODUCT |
|-------------------------|---------------|
| Euroweld, Ltd. | E7016-B2L |
| Techalloy Company, Inc. | RACO 8018-B2L |

E7018-B2L

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| Airco Filler Metals | CODE-ARC 7018-B2L MR |
| American Filler Metals Company | AFM 8018-B2L |
| American Welding Alloys | AWA E7018-B2L |
| Champion Welding Products | CHAMPION E8018-B2L |
| D&H Secheron Electrodes Limited | CROMOTHERME - 1L |
| ESAB AB | OK 76.18 L |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 7018-B2L |
| Euroweld, Ltd. | E7018-B2L |
| Industrial Welding Corporation | NIHONWELD N-8018-B2L |
| Inweld Corporation | INWELD 8018-B2L |
| Lincoln Electric Co. | Jet-LH 7018-B2L MR |
| McKay Welding Products | MCKAY 8018-B2L XLM |
| Murex Welding Products | Murex 7018-B2L MR |
| Oxford Alloys, Inc. | OXFORD E7018-B2L |
| Techalloy Company, Inc. | RACO 8018-B2L |
| Washington Alloy Company | USA 7018-B2L, 8018-B2L |

E9015-B3

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| American Welding Alloys | AWA E9015-B3 |
| Bohler Thyssen Welding USA, Inc. | Thyssen Chromo 2 |
| Champion Welding Products | CHAMPION E9015-B3 |
| Euroweld, Ltd. | E9015-B3 |
| Industrial Welding Corporation | NIHONWELD N-9015-B3 |
| Oxford Alloys, Inc. | OXFORD E9015-B3 |

E9016-B3

| SOURCE | PRODUCT |
|--|-----------------------|
| American Welding Alloys | AWA E9016-B3 |
| CARBO-WELD Schweissmaterialien GmbH | CROMOWELD 2 NI |
| Euroweld, Ltd. | E9016-B3 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E9016-B3 (Continued from previous page)

| SOURCE | PRODUCT |
|--|---------------------|
| EXSA S.A. - División Soldaduras OERLIKON | Univers CR |
| EXSA S.A.- División Fontargen | FON E 62 |
| HYUNDAI WELDING PRODUCTS, INC. | S-9016.B3 |
| Industrial Welding Corporation | NIHONWELD N-9016-B3 |
| Kobe Steel, LTD. | CMA-106, CMA-106N |
| Oxford Alloys, Inc. | OXFORD E9016-B3 |
| Washington Alloy Company | USA 9016-B3 |

E9018-B3

| SOURCE | PRODUCT |
|---|--------------------------------------|
| AIR LIQUIDE CANADA INC. | LA 9018-B3 |
| Airco Filler Metals | CODE-ARC 9018-B3 MR |
| American Filler Metals Company | AFM 9018-B3 |
| American Welding Alloys | AWA E9018-B3 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS DA-777 |
| Bohler Thyssen Welding USA, Inc. | UTP 640 |
| CARBO-WELD Schweissmaterialien GmbH | CROMOWELD 2 |
| Champion Welding Products | CHAMPION E9018-B3 |
| D&H Secheron Electrodes Limited | CROMOTHERME-2 (MOD), CROMOTHERME-2 |
| Electromanufacturas S.A | West Arco WIZ-918 B3; West Rode 90 |
| ESAB AB | OK 76.26, 76.28 |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 9018-CM |
| Euroweld, Ltd. | E9018-B3 |
| HILARIUS HAARLEM HOLLAND BV | HILCO B 20 CrMo |
| Hobart Welding Products | Quantum Blue 9018B3 |
| HYUNDAI WELDING PRODUCTS, INC. | S-9018.B3 |
| Indura S.A. Industria y Comercio | INDURA 9018-B3 |
| Industrial Welding Corporation | NIHONWELD N-9018-B3 |
| Inweld Corporation | INWELD 9018-B3 |
| Kobe Steel, LTD. | CMB-108 |
| Lincoln Electric Co. | Jet-LH 9018-B3 MR, SL 20G, SL 20 STC |
| McKay Welding Products | Millenia 9018-B3 |
| Murex Welding Products | Murex 9018-B3 MR |
| Oxford Alloys, Inc. | OXFORD E9018-B3 |
| Techalloy Company, Inc. | RACO 9018-B3 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E9018-B3 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|-------------|
| Uniweld Products, Inc. | UNI-9018B3 |
| Washington Alloy Company | USA 9018-B3 |
| Weld Mold Company | 225 |

E8015-B3L

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Champion Welding Products | CHAMPION E9015-B3L |
| Euroweld, Ltd. | E8015-B3L |
| Industrial Welding Corporation | NIHONWELD N-8015-B3L |
| Inweld Corporation | INWELD 9015-B3L |
| Oxford Alloys, Inc. | OXFORD E8015-B3L |

E8018-B3L

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| Airco Filler Metals | CODE-ARC 8018-B3L MR |
| American Filler Metals Company | AFM 9018-B3L |
| American Welding Alloys | AWA E8018-B3L |
| Champion Welding Products | CHAMPION E9018-B3L |
| D&H Secheron Electrodes Limited | CROMOTHERME - 2L |
| ESAB AB | OK 76.28 L |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 8018-B3L |
| Euroweld, Ltd. | E8018-B3L |
| Industrial Welding Corporation | NIHONWELD N-9018-B3L |
| Inweld Corporation | INWELD 9018-B3L |
| Lincoln Electric Co. | Jet-LH 8018-B3L MR |
| Murex Welding Products | Murex 8018-B3L MR |
| Oxford Alloys, Inc. | OXFORD E8018-B3L |
| Techalloy Company, Inc. | RACO 9018-B3L |
| Washington Alloy Company | USA 8018-B3L, 9018-B3L |

E8015-B4L

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Champion Welding Products | CHAMPION E8015-B4L |
| Euroweld, Ltd. | E8015-B4L |
| Industrial Welding Corporation | NIHONWELD N-8015-B4L |
| Inweld Corporation | INWELD 8015-B4L |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8015-B4L (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------|----------------|
| Oxford Alloys, Inc. | E8015-B4L |

E8016-B5

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Champion Welding Products | CHAMPION E8016-B5 |
| Euroweld, Ltd. | E8016-B5 |
| Industrial Welding Corporation | NIHONWELD N-8016-B5 |
| Oxford Alloys, Inc. | E8016-B5 |

E8015-B6

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| American Filler Metals Company | AFM 8015-B6 |
| American Welding Alloys | AWA E8015-B6 |
| Bohler Thyssen Welding USA, Inc. | UTP 64, Thyssen Chromo 5 |
| Champion Welding Products | CHAMPION E8015-B6 |
| ESAB AB | OK 76.35 |
| Euroweld, Ltd. | E8015-B6 |
| Hobart Welding Products | HOBART 502-15 |
| Industrial Welding Corporation | NIHONWELD N-8015-B6 |
| Oxford Alloys, Inc. | OXFORD E8015-B6 |
| Washington Alloy Company | USA 502-15, 8015-B6 |

E8016-B6

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| American Filler Metals Company | AFM 8016-B6 |
| American Welding Alloys | AWA E8016-B6 |
| Champion Welding Products | CHAMPION E8016-B6 |
| Industrial Welding Corporation | NIHONWELD N-8016-B6 |
| Lincoln Electric Co. | SL 502 |
| Washington Alloy Company | USA 502-16, 8016-B6 |

E8018-B6

| SOURCE | PRODUCT |
|---------------------------------|----------------|
| American Filler Metals Company | AFM 8018-B6 |
| American Welding Alloys | AWA E8018-B6 |
| D&H Secheron Electrodes Limited | CROMOTHERME-5 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8018-B6 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Electromanufacturas S.A | Cromarco 502 |
| Euroweld, Ltd. | E8018-B6 |
| Industrial Welding Corporation | NIHONWELD N-8018-B6 |
| McKay Welding Products | Millenia 502-18 |
| Oxford Alloys, Inc. | OXFORD E8018-B6 |
| Washington Alloy Company | USA 502-16, 8018-B6 |

E8015-B6L

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| American Welding Alloys | AWA E8015-B6L |
| Euroweld, Ltd. | E8015-B6L |
| Industrial Welding Corporation | NIHONWELD N-8015-B6L |

E8018-B6L

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| American Welding Alloys | AWA E8018-B6L |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 8018-B6L |
| Euroweld, Ltd. | E8018-B6L |
| Industrial Welding Corporation | NIHONWELD N-8018-B6L |

E8015-B7

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Euroweld, Ltd. | E8015-B7 |
| Industrial Welding Corporation | NIHONWELD N-8015-B7 |

E8018-B7

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Euroweld, Ltd. | E8018-B7 |
| Industrial Welding Corporation | NIHONWELD N-8018-B7 |

E8015-B7L

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Euroweld, Ltd. | E8015-B7L |
| Industrial Welding Corporation | NIHONWELD N-8015-B7L |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8018-B7L

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Euroweld, Ltd. | E8018-B7L |
| Industrial Welding Corporation | NIHONWELD N-8018-B7L |

E8015-B8

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| American Filler Metals Company | AFM 8015-B8 |
| Bohler Thyssen Welding USA, Inc. | UTP 505 |
| Champion Welding Products | CHAMPION E8015-B8 |
| ESAB AB | OK 76.96 |
| Euroweld, Ltd. | E8015-B8 |
| Industrial Welding Corporation | NIHONWELD N-8015-B8 |
| Oxford Alloys, Inc. | OXFORD E8015-B8 |
| Washington Alloy Company | USA 505-15, 8015-B8 |

E8016-B8

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| American Filler Metals Company | AFM 8016-B8 |
| American Welding Alloys | AWA E8016-B8 |
| Champion Welding Products | CHAMPION E8016-B8 |
| Industrial Welding Corporation | NIHONWELD N-8016-B8 |
| Washington Alloy Company | USA 505-16, 8016-B8 |

E8018-B8

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| American Filler Metals Company | AFM 8018-B8 |
| D&H Secheron Electrodes Limited | CROMOTHERME-9 |
| Electromanufacturas S.A | Cromarco 505 |
| Euroweld, Ltd. | E8018-B8 |
| Industrial Welding Corporation | NIHONWELD N-8018-B8 |
| McKay Welding Products | Millenia 505-18 |
| Oxford Alloys, Inc. | OXFORD E8018-B8 |
| Washington Alloy Company | USA 505-16, 8018-B8 |

E8015-B8L

| SOURCE | PRODUCT |
|----------------|-----------|
| Euroweld, Ltd. | E8015-B8L |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8015-B8L (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Industrial Welding Corporation | NIHONWELD N-8015-B8L |

E8018-B8L

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Euroweld, Ltd. | E8018-B8L |
| Industrial Welding Corporation | NIHONWELD N-8018-B8L |

E9015-B9

| SOURCE | PRODUCT |
|----------------------------------|-----------------------|
| American Filler Metals Company | AFM 9015-B9 |
| Arcos Alloys | Arcos 9015-B9 |
| Bohler Thyssen Welding USA, Inc. | Thyssen Chromo 9V Mod |
| Champion Welding Products | CHAMPION E9015-B9 |
| ESAB AB | OK 76.98 |
| Euroweld, Ltd. | E9015-B9 |
| Industrial Welding Corporation | NIHONWELD N-9015-B9 |
| Oxford Alloys, Inc. | OXFORD E9015-B9 |
| Washington Alloy Company | USA 9015-B9 |

E9016-B9

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Euroweld, Ltd. | E9016-B9 |
| Industrial Welding Corporation | NIHONWELD N-9016-B9 |

E9018-B9

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| Arcos Alloys | Arcos 9018-B9 |
| D&H Secheron Electrodes Limited | CROMOTHERME-9 (MOD) |
| Euroweld, Ltd. | E9018-B9 |
| Industrial Welding Corporation | NIHONWELD N-9018-B9 |
| Lincoln Electric Co. | SL 9Cr |
| Washington Alloy Company | USA 9018-B9 |

E8016-C1

| SOURCE | PRODUCT |
|---------------------------|-------------------|
| Airco Filler Metals | EASY-ARC 8016-C1 |
| Champion Welding Products | CHAMPION E8016-C1 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8016-C1 (Continued from previous page)

| SOURCE | PRODUCT |
|---|-----------------------|
| D&H Secheron Electrodes Limited | NITHERME-2.5 |
| HYUNDAI WELDING PRODUCTS, INC. | S-8016.C1 |
| Indura S.A. Industria y Comercio | INDURA 8016-C1 |
| Industrial Welding Corporation | NIHONWELD N-8016-C1 |
| Inweld Corporation | INWELD 8016-C1 |
| Kobe Steel, LTD. | LB-62L, NB-2 |
| Murex Welding Products | Murex 8016-C1 |
| Oxford Alloys, Inc. | OXFORD E8016-C1 |

E8018-C1

| SOURCE | PRODUCT |
|--|--------------------------|
| AIR LIQUIDE CANADA INC. | LA 8018-C1 |
| American Filler Metals Company | AFM 8018-C1 |
| Arctec Alloys Limited | ARCTEC 226X |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS DA-710 |
| Bohler Thyssen Welding USA, Inc. | Thyssen SH Ni 2 K 70 |
| Champion Welding Products | CHAMPION E8018-C1 |
| Electromanufacturas S.A | West Arco WIZ-818 C1 |
| ELGA AB | P 48 K |
| ESAB AB | OK 73.68 |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 8018-C1 |
| Euroweld, Ltd. | E8018-C1 |
| EXSA S.A.- División Fontargen | FON E65 |
| Hobart Welding Products | Quantum Blue 8018C1 |
| HYUNDAI WELDING PRODUCTS, INC. | S-8018.C1 |
| Industrial Welding Corporation | NIHONWELD N-8018-C1 |
| Lincoln Electric Co. | Jet-LH 8018-C1 MR |
| Lincoln Electric Company (Australia) Pty Ltd | Jet LH-8018C1 MR |
| McKay Welding Products | Millenia 8018-C1 |
| Oxford Alloys, Inc. | OXFORD E8018-C1 |
| Washington Alloy Company | USA 8018-C1 |

E7015-C1L

| SOURCE | PRODUCT |
|---------------------------|--------------------|
| Champion Welding Products | CHAMPION E7015-C1L |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E7015-C1L (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Euroweld, Ltd. | E7015-C1L |
| Industrial Welding Corporation | NIHONWELD N-7015-C1L |
| Oxford Alloys, Inc. | OXFORD E7015-C1L |

E7016-C1L

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| D&H Secheron Electrodes Limited | INDOTHERME-LT |
| Euroweld, Ltd. | E7016-C1L |
| Industrial Welding Corporation | NIHONWELD N-7016-C1L |
| Oxford Alloys, Inc. | OXFORD E7016-C1L |

E7018-C1L

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Euroweld, Ltd. | E7018-C1L |
| Industrial Welding Corporation | NIHONWELD N-7018-C1L |
| Oxford Alloys, Inc. | OXFORD E7018-C1L |

E8016-C2

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| D&H Secheron Electrodes Limited | NITHERME-3.5 |
| ESAB AB | OK 73.79 |
| HYUNDAI WELDING PRODUCTS, INC. | S-8016.C2 |
| Industrial Welding Corporation | NIHONWELD N-8016-C2 |
| Oxford Alloys, Inc. | OXFORD E8016-C2 |

E8018-C2

| SOURCE | PRODUCT |
|-------------------------------------|----------------------|
| AIR LIQUIDE CANADA INC. | LA 8018-C2 |
| American Filler Metals Company | AFM 8018-C2 |
| Bohler Thyssen Welding USA, Inc. | Thyssen SH Ni 2 K 80 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO B3NI |
| Champion Welding Products | CHAMPION E8018-C2 |
| Electromanufacturas S.A | West Arco WIZ-818 C2 |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 8018-N |
| Euroweld, Ltd. | E8018-C2 |
| Hobart Welding Products | Quantum Blue 8018C2 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8018-C2 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Industrial Welding Corporation | NIHONWELD N-8018-C2 |
| Inweld Corporation | INWELD 8018-C2 |
| McKay Welding Products | Millenia 8018-C2 |
| Oxford Alloys, Inc. | OXFORD E8018-C2 |
| Washington Alloy Company | USA 8018-C2 |

E7015-C2L

| SOURCE | PRODUCT |
|----------------------------------|---------------------------|
| Bohler Thyssen Welding USA, Inc. | Tenasoudo Ni 3 S |
| Champion Welding Products | CHAMPION E7015-C2L |
| Euroweld, Ltd. | E7015-C2L |
| Industrial Welding Corporation | NIHONWELD N-7015-C2L |
| Oxford Alloys, Inc. | OXFORD E7015-C2L |

E7016-C2L

| SOURCE | PRODUCT |
|---------------------------------|-------------------------|
| D&H Secheron Electrodes Limited | NITHERME-3.5L |
| Euroweld, Ltd. | E7016-C2L |
| Lincoln Electric Co. | Kryo 4 |
| Oxford Alloys, Inc. | OXFORD E7016-C2L |

E7018-C2L

| SOURCE | PRODUCT |
|--------------------------------|-------------------------|
| Euroweld, Ltd. | E7018-C2L |
| Industrial Welding Corporation | NIHONWELD N-7018-C2L |
| Oxford Alloys, Inc. | OXFORD E7018-C2L |

E8016-C3

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| D&H Secheron Electrodes Limited | NIMOTHERME-1 |
| HYUNDAI WELDING PRODUCTS, INC. | S-8016.C3 |
| Industrial Welding Corporation | NIHONWELD N-8016-C3 |
| Kobe Steel, LTD. | LBW-588 |
| Oxford Alloys, Inc. | OXFORD E8016-C3 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8018-C3

| SOURCE | PRODUCT |
|---|-------------------------|
| AIR LIQUIDE CANADA INC. | LA 8018-C3 |
| Airco Filler Metals | CODE-ARC 8018-C3 MR |
| American Filler Metals Company | AFM 8018-C3 |
| Bohler Thyssen Welding USA, Inc. | Thyssen SHV 370, SH V 1 |
| Cronatron Welding Systems | Cronaweld E 8018-C3 |
| Electromanufacturas S.A | West Arco WIZ-818 C3 |
| ELGA AB | P 64 MR |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 8018, 8018-SR |
| Euroweld, Ltd. | E8018-C3 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Basic 70 |
| Hobart Welding Products | Quantum Blue 8018C3 |
| HYUNDAI WELDING PRODUCTS, INC. | S-8018.C3 |
| Indura S.A. Industria y Comercio | INDURA 8018-C3 |
| Industrial Welding Corporation | NIHONWELD N-8018-C3 |
| Inweld Corporation | INWELD 8018-C3 |
| Lincoln Electric Co. | Jet-LH 8018-C3 MR |
| McKay Welding Products | Millenia 8018-C3 |
| Messer - MG Systems & Welding Inc. | MG8018-C3 |
| Murex Welding Products | Murex 8018-C3 MR |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD E8018-C3 |
| Washington Alloy Company | USA 8018-C3 |

E8018-NM1

| SOURCE | PRODUCT |
|---------------------------------|-------------------------|
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 8018-NM |
| Euroweld, Ltd. | E8018-NM |
| Industrial Welding Corporation | NIHONWELD N-8018-NM1 |
| Oxford Alloys, Inc. | OXFORD E8018-NM1 |

E9015-D1

| SOURCE | PRODUCT |
|--------------------------------|------------------------|
| Industrial Welding Corporation | NIHONWELD N-9015-D1 |
| Oxford Alloys, Inc. | OXFORD E9015-D1 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E9018-D1

| SOURCE | PRODUCT |
|---|--------------------------|
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS DA-737 |
| Champion Welding Products | CHAMPION E9018-D1 |
| ESAB AB | OK 74.78 |
| Euroweld, Ltd. | E9018-D1 |
| Industrial Welding Corporation | NIHONWELD N-9018-D1 |
| Oxford Alloys, Inc. | OXFORD E9018-D1 |

E10015-D2

| SOURCE | PRODUCT |
|--------------------------------|-------------------------|
| Industrial Welding Corporation | NIHONWELD N-10015-D2 |
| Oxford Alloys, Inc. | OXFORD E10015-D2 |

E10016-D2

| SOURCE | PRODUCT |
|--------------------------------|-------------------------|
| Airco Filler Metals | EASY-ARC 10016-D2 |
| Euroweld, Ltd. | E10016-D2 |
| Industrial Welding Corporation | NIHONWELD N-10016-D2 |
| Murex Welding Products | Murex 10016-D2 |
| Oxford Alloys, Inc. | OXFORD E10016-D2 |

E10018-D2

| SOURCE | PRODUCT |
|----------------------------------|-------------------------|
| AIR LIQUIDE CANADA INC. | LA 10018-D2 |
| Bohler Thyssen Welding USA, Inc. | Thyssen NiMo 100 |
| D&H Secheron Electrodes Limited | TENSAL-(SPL) |
| ESAB AB | OK 74.86 |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 10018-MM |
| Euroweld, Ltd. | E10018-D2 |
| Hobart Welding Products | Quantum Blue 10018D2 |
| Industrial Welding Corporation | NIHONWELD N-10018-D2 |
| Inweld Corporation | INWELD 10018-D2 |
| McKay Welding Products | Millenia 10018-D2 |
| Oxford Alloys, Inc. | OXFORD E10018-D2 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8016-D3

SOURCE

Industrial Welding Corporation

PRODUCT

NIHONWELD N-8016-D3

E8018-D3

SOURCE

D&H Secheron Electrodes Limited

Industrial Welding Corporation

PRODUCT

MOLYTHERME-EXTRA

NIHONWELD N-8018-D3

E9018M

SOURCE

AIR LIQUIDE CANADA INC.

Airco Filler Metals

Champion Welding Products

D&H Secheron Electrodes Limited

ESAB WELDING & CUTTING PRODUCTS

Euroweld, Ltd.

Hobart Welding Products

Industrial Welding Corporation

Lincoln Electric Co.

McKay Welding Products

Murex Welding Products

Oxford Alloys, Inc.

Washington Alloy Company

PRODUCT

LA 9018-M

CODE-ARC 9018M MR

CHAMPION E9018-M

TENSAL-MH

ATOM ARC 9018

E9018-M

Quantum Blue 9018M

NIHONWELD N-9018M

Conarc 60G

Millenia 9018-M

Murex 9018M MR

OXFORD E9018M

USA 9018M

E10018M

SOURCE

AIR LIQUIDE CANADA INC.

Bohler Thyssen Welding USA, Inc.

Champion Welding Products

ESAB WELDING & CUTTING PRODUCTS

Euroweld, Ltd.

Indura S.A. Industria y Comercio

Industrial Welding Corporation

McKay Welding Products

Oxford Alloys, Inc.

PRODUCT

LA 10018-M

Thyssen SH Ni 2 K 90

CHAMPION E10018-M

ATOM ARC 10018

E10018-M

INDURA 10018M

NIHONWELD N-10018M

Millenia 10018-M

OXFORD E10018M

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E11018M

| SOURCE | PRODUCT |
|---|---|
| AIR LIQUIDE CANADA INC. | LA 11018-M |
| Airco Filler Metals | CODE-ARC 11018 MR |
| American Filler Metals Company | AFM 11018-M |
| Arctec Alloys Limited | ARCTEC 210 S |
| Arcweld Products, Ltd. | EASYARC 11-18 |
| Bohler Thyssen Welding USA, Inc. | Thyssen SH Ni 2 K 100 |
| Champion Welding Products | CHAMPION E11018-M |
| D&H Secheron Electrodes Limited | ULTRATENSAL-MH, ULTRATHERME-M |
| Electromanufacturas S.A | West Arco WIZ-1118 M; West Rode 10 |
| ELGA AB | P 110 MR, MAXETA 110 |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC T |
| Euroweld, Ltd. | E11018-M |
| Hobart Welding Products | Quantum Blue 11018M |
| HYUNDAI WELDING PRODUCTS, INC. | S-11018.M |
| Indura S.A. Industria y Comercio | INDURA 11018M |
| Industrial Welding Corporation | NIHONWELD N-11018M |
| Inweld Corporation | INWELD 11018-M |
| Lincoln Electric Co. | Jetweld LH-110M MR, Lincoln 11018 MR, Conarc 80, Easy-Arc 11-18 |
| Lincoln Electric Company (Australia) Pty Ltd | Jetweld LH-110M MR |
| McKay Welding Products | Millenia 11018-M |
| Messer - MG Systems & Welding Inc. | MG11018-M |
| Murex Welding Products | Murex 11018 MR, Speedex HTS 110 MR |
| Oxford Alloys, Inc. | OXFORD E11018M |
| Stoody Company - Thermadyne Industries | Alloycraft 110 |
| Uniweld Products, Inc. | UNI-11018M |
| Washington Alloy Company | USA 11018M |

E12018M

| SOURCE | PRODUCT |
|---------------------------------------|--------------------------|
| AIR LIQUIDE CANADA INC. | LA 12018-M |
| American Filler Metals Company | AFM 12018-M |
| Bohler Thyssen Welding USA, Inc. | Thyssen SH Ni 2 K 130 |
| Champion Welding Products | CHAMPION E12018-M |
| Cronatron Welding Systems | Cronaweld E 12018-M |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E12018M (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 12018 |
| Euroweld, Ltd. | E12018-M |
| Hobart Welding Products | Quantum Blue 12018M |
| Industrial Welding Corporation | NIHONWELD N-12018M |
| Inweld Corporation | INWELD 12018-M |
| McKay Welding Products | Millenia 12018-M |
| Oxford Alloys, Inc. | OXFORD E12018M |
| Washington Alloy Company | USA 12018M |

E12018M1

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Euroweld, Ltd. | E12018-M1 |
| Industrial Welding Corporation | NIHONWELD N-12018M1 |
| Oxford Alloys, Inc. | OXFORD E12018M1 |

E7010-P1

| SOURCE | PRODUCT |
|----------------------------------|-----------------------------------|
| Bohler Thyssen Welding USA, Inc. | Thyssen Cel 75, Bohler Fox Cel 75 |
| ESAB WELDING & CUTTING PRODUCTS | SUREWELD 710-P |
| Hobart Welding Products | Pipemaster 70 |
| Industrial Welding Corporation | NIHONWELD N-7010-P1 |

E8010-P1

| SOURCE | PRODUCT |
|----------------------------------|-----------------------------------|
| Bohler Thyssen Welding USA, Inc. | Thyssen Cel 80, Bohler Fox Cel 85 |
| ESAB WELDING & CUTTING PRODUCTS | SUREWELD 810-P |
| Hobart Welding Products | Pipemaster 80 |
| Industrial Welding Corporation | NIHONWELD N-8010-P1 |

E7018-W1

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| Electromanufacturas S.A | West Arco WIZ 718-W1 |
| HYUNDAI WELDING PRODUCTS, INC. | S-7018.W |
| Industrial Welding Corporation | NIHONWELD N-7018W |
| Oxford Alloys, Inc. | OXFORD E7018-W1 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8018-W2

| SOURCE | PRODUCT |
|---------------------------------|-------------------|
| AIR LIQUIDE CANADA INC. | LA 8018-W |
| D&H Secheron Electrodes Limited | COROTHERME (SPL) |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 8018-W |
| Euroweld, Ltd. | E8018-W |
| HYUNDAI WELDING PRODUCTS, INC. | S-8018.W |
| Industrial Welding Corporation | NIHONWELD N-8018W |
| Oxford Alloys, Inc. | OXFORD E8018-W2 |

E7010-G

| SOURCE | PRODUCT |
|--|---------------------|
| Airco Filler Metals | PipeCraft 70 |
| ESAB AB | Pipeweld 7010 |
| EXSA S.A. - División Soldaduras OERLIKON | CELLOCORD 70-GT |
| HILARIUS HAARLEM HOLLAND BV | HILCO Pipeweld 7010 |
| Hobart Welding Products | PIPEMASTER 70 |
| Industrial Welding Corporation | NIHONWELD N-7010G |
| Lincoln Electric Co. | Shield-Arc HYP |
| Lincoln Electric Company (Australia) Pty Ltd | Shield-Arc HYP |
| Lincoln Electric Company (Australia) Pty Ltd | Shield-Arc HYP |
| Washington Alloy Company | USA 7010G |

E8010-G

| SOURCE | PRODUCT |
|--|-------------------------------|
| Airco Filler Metals | PipeCraft 80 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS S-8010 Ni |
| Electromanufacturas S.A | West Arco XL-810 G |
| ESAB AB | Pipeweld 8010 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Pipeweld 8010 |
| Hobart Welding Products | PIPEMASTER 80 |
| Indura S.A. Industria y Comercio | INDURA 8010-G |
| Industrial Welding Corporation | NIHONWELD N-8010G |
| Lincoln Electric Co. | Shield-Arc 70+, Shield-Arc 80 |
| Lincoln Electric Company (Australia) Pty Ltd | Shield-Arc 70+ |
| Lincoln Electric Company (Australia) Pty Ltd | Shield-Arc 70+, Shield-Arc 80 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E9010-G

| SOURCE | PRODUCT |
|----------------------------------|-----------------------------------|
| Bohler Thyssen Welding USA, Inc. | Thyssen Cel 90, Bohler Fox Cel 90 |
| Electromanufacturas S.A | West Arco XL-910 G |
| Hobart Welding Products | Pipemaster 90 |
| Industrial Welding Corporation | NIHONWELD N-9010-G |
| Lincoln Electric Co. | Shield-Arc 90 |

EXX11-G

| SOURCE | PRODUCT |
|--------------------------------|---------------------------|
| Industrial Welding Corporation | NIHONWELD N-7011G/N-8011G |

E8013-G

| SOURCE | PRODUCT |
|----------------------------------|------------------------|
| Bohler Thyssen Welding USA, Inc. | Thyssen SH Kupfer 1 TR |
| Euroweld, Ltd. | E8013-G |
| Industrial Welding Corporation | NIHONWELD N-8013-G |
| Washington Alloy Company | USA 8013-B2, HS 13B2 |

EXX13-G

| SOURCE | PRODUCT |
|---|---|
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS DA-731 |
| CARBO-WELD Schweissmaterialien GmbH | CROMOWELD MO AC |
| D&H Secheron Electrodes Limited | CROMOTHERME-20, MEDIO Cr-Mo, MEDIO-2Cr-Mo |
| EXSA S.A.- División Fontargen | FON E103 |
| Industrial Welding Corporation | NIHONWELD N-Extra13-G |

E9015-G

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| Euroweld, Ltd. | E9015-G |
| Industrial Welding Corporation | NIHONWELD N-9015-G |

E8016-G

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| Euroweld, Ltd. | E8016-G |
| Industrial Welding Corporation | NIHONWELD N-8016-G |
| Weld Mold Company | 8016-G |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E9016-G

| SOURCE | PRODUCT |
|----------------|---------|
| Euroweld, Ltd. | E9016-G |

E10016-G

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| D&H Secheron Electrodes Limited | ULTRATHERME-H |
| Euroweld, Ltd. | E10016-G |
| Industrial Welding Corporation | NIHONWELD N-10016-G |
| Murex Welding Products | Murex 10016-G |
| Washington Alloy Company | USA 10016G |

E11016-G

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Euroweld, Ltd. | E11016-G |
| Industrial Welding Corporation | NIHONWELD N-11016-G |
| Washington Alloy Company | USA 11016G |

EXX16-G

| SOURCE | PRODUCT |
|---------------------------------|-----------------------|
| D&H Secheron Electrodes Limited | ULTRATHERME-H |
| Industrial Welding Corporation | NIHONWELD N-Extra16-G |

E7018-G

| SOURCE | PRODUCT |
|---|--------------------|
| AIR LIQUIDE CANADA INC. | LA 7018 RCR |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS DA-708 |
| D&H Secheron Electrodes Limited | SUPRATHERME-Ni |
| ELGA AB | MAXETA 24, P 62 MR |
| Euroweld, Ltd. | E7018-G |
| EXSA S.A. - División Soldaduras OERLIKON | Tenacito 70 |
| Industrial Welding Corporation | NIHONWELD N-7018-G |
| Washington Alloy Company | USA 7018G |

E8018-G

| SOURCE | PRODUCT |
|----------------------------------|--------------------------------------|
| Bohler Thyssen Welding USA, Inc. | Bohler Fox BVD 85 |
| D&H Secheron Electrodes Limited | SUPRATHERME-Ni (SPL), CROMOTHERME-20 |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E8018-G (Continued from previous page)

| SOURCE | PRODUCT |
|--|---|
| ELGA AB | P 65 MR |
| Euroweld, Ltd. | E8018-G |
| Euroweld, Ltd. | E8018-G |
| EXSA S.A. - División Soldaduras OERLIKON | Tenacito 80 |
| Indura S.A. Industria y Comercio | INDURA 8018-G |
| Lincoln Electric Co. | Kryo 1, Kryo 1-180, Lincoln 18P, Lincoln LH-D80 |
| Washington Alloy Company | USA 8018G |

E9018-G

| SOURCE | PRODUCT |
|----------------------------------|------------------------------------|
| Bohler Thyssen Welding USA, Inc. | Fox BVD 90 |
| D&H Secheron Electrodes Limited | TENSAL |
| Electromanufacturas S.A | WIZ-918 G |
| ELGA AB | P 70 |
| ESAB WELDING & CUTTING PRODUCTS | ATOM ARC 9018SR |
| Euroweld, Ltd. | E9018-G |
| Lincoln Electric Co. | Kryo 2, Conarc 70G, Lincoln LH-D90 |
| Washington Alloy Company | USA 9018G |

E10018-G

| SOURCE | PRODUCT |
|---|---------------------|
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS DA-750 |
| Bohler Thyssen Welding USA, Inc. | Fox BVD 100 |
| Euroweld, Ltd. | E10018-G |
| EXSA S.A. - División Soldaduras OERLIKON | Tenacito 75 |
| Industrial Welding Corporation | NIHONWELD N-10018-G |

E11018-G

| SOURCE | PRODUCT |
|---|---------------------|
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS DA-753 |
| Electromanufacturas S.A | WIZ 11518 G |
| ESAB AB | OK 75.75 |
| Euroweld, Ltd. | E11018-G |
| EXSA S.A. - División Soldaduras OERLIKON | Tenacito 110 |
| Industrial Welding Corporation | NIHONWELD N-11018-G |
| Washington Alloy Company | USA 11018G |

A5.5-96, LOW ALLOY STEEL Covered Arc Welding Electrodes

See ANSI/AWS A5.5-96, Specification for Low Alloy Steel Covered Arc Welding Electrodes

E12018-G

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| D&H Secheron Electrodes Limited | C N M |
| Euroweld, Ltd. | E12018-G |
| Industrial Welding Corporation | NIHONWELD N-12018-G |
| Lincoln Electric Co. | Conarc 85 |
| Washington Alloy Company | USA 12018G |

EXX18-G

| SOURCE | PRODUCT |
|--|--|
| CARBO-WELD Schweissmaterialien GmbH | CARBO MN-B |
| D&H Secheron Electrodes Limited | SUPRATHERME-NI, SUPRATHERME-NI (SPL) TENSAL, ULTRATHERME |
| Electromanufacturas S.A | West Arco WIZ-18 G |
| ESAB AB | OK 48.08, 53.38, 73.05, 73.08, 73.15, 78.16 |
| EXSA S.A.- División Fontargen | FON E63 |
| Industrial Welding Corporation | NIHONWELD N-Extra18-G |
| Sodel Ltd | Sodel 32 |

A5.6-84R, COPPER AND COPPER ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.6-84R, Specification for Copper and Copper Alloy Arc Welding Electrodes

ECu

| SOURCE | PRODUCT |
|--|----------------------------|
| All-State Welding Products | 26 |
| American Filler Metals Company | AFM DOC Electrode |
| American Welding Alloys | AWA ECu |
| Bohler Thyssen Welding USA, Inc. | UTP 39 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO CU-B |
| Cronatron Welding Systems | Cronaweld E CU |
| EXSA S.A. - División Fontargen | FON E 206 |
| Industrial Welding Corporation | NIHONWELD NCu |
| Inweld Corporation | INWELD DEOX |
| Nassau Research Corp. | Venus |
| NOF Corporation | KC100 |
| Oxford Alloys, Inc. | OXFORD ECu |
| Washington Alloy Company | Rainier 4A, Deox Copper FC |
| Weld Mold Company | 4333 |
| WELDWIRE COMPANY INC. | WW Cu |

ECuSi

| SOURCE | PRODUCT |
|--------------------------------|-------------------------------|
| American Filler Metals Company | AFM SB Electrode |
| American Welding Alloys | AWA ECuSi, AWA CuSi |
| Champion Welding Products | CHAMPION 656 |
| HARRIS WELCO | WELCO 223 |
| Industrial Welding Corporation | NIHONWELD N-CuSi |
| Inweld Corporation | INWELD SIL BRONZE |
| Nassau Research Corp. | Venus |
| NOF Corporation | KE960 |
| Oxford Alloys, Inc. | OXFORD ECuSi |
| Washington Alloy Company | Rainier 6A, Silicon Bronze FC |
| Weld Mold Company | 4325 |
| WELDWIRE COMPANY INC. | WW CuSi-C |

ECuSn-A

| SOURCE | PRODUCT |
|--------------------------------|-------------------|
| Airco Filler Metals | Airco 70 |
| American Filler Metals Company | AFM Phos-Bronze A |

A5.6-84R, COPPER AND COPPER ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.6-84R, Specification for Copper and Copper Alloy Arc Welding Electrodes

ECuSn-A (Continued from previous page)

| SOURCE | PRODUCT |
|--|-------------------------------------|
| American Welding Alloys | AWA ECuSn-A, AWA CuSn-A |
| Bohler Thyssen Welding USA, Inc. | UTP 32 |
| Champion Welding Products | CHAMPION 570 Phos Bronze |
| Cronatron Welding Systems | Cronaweld ECuSn-A |
| Crown Alloys Company | Royal 3100 |
| EXSA S.A. - División Soldaduras OERLIKON | Citobronce |
| EXSA S.A.- División Fontargen | FON E214 |
| Indura S.A. Industria y Comercio | INDURA 70 |
| Industrial Welding Corporation | NIHONWELD N-CuSn-A |
| Inweld Corporation | INWELD PHOS BRONZE-A |
| Lincoln Electric Co. | Aerisweld |
| Murex Welding Products | Murex PB-70 |
| Nassau Research Corp. | Venus |
| NOF Corporation | KP950 |
| Oxford Alloys, Inc. | OXFORD ECuSn-A |
| Washington Alloy Company | Rainier 7A, Phos-Bronze A FC |
| WELDWIRE COMPANY INC. | WW PhosbronzeA-C |

ECuSn-C

| SOURCE | PRODUCT |
|---|--|
| All-State Welding Products | Phos Bronze "C" |
| American Filler Metals Company | AFM Bronze C Electrode, AFM Phos-Bronze C |
| American Welding Alloys | AWA ECuSn-C, AWA CuSn-C |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS Bronz |
| CARBO-WELD Schweissmaterialien GmbH | CARBO ZIBRO 6 AC |
| Electromanufacturas S.A | West Bronze-E |
| Euroweld, Ltd. | E Cu Sn-C |
| EXSA S.A.- División Fontargen | FON E218 |
| HARRIS WELCO | WELCO 23 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Bronsil |
| Industrial Welding Corporation | NIHONWELD N-CuSn-C |
| Inweld Corporation | INWELD PHOS BRONZE-C |
| Messer - MG Systems & Welding Inc. | MGCuSn-C |
| Nassau Research Corp. | Venus |
| NATWELD | PHOS BRONZE C |

A5.6-84R, COPPER AND COPPER ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.6-84R, Specification for Copper and Copper Alloy Arc Welding Electrodes

ECuSn-C (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|------------------------------|
| Oxford Alloys, Inc. | OXFORD ECuSn-C |
| Washington Alloy Company | Rainier 3A, Phos-Bronze C FC |
| Weld Mold Company | 4320 |
| WELDWIRE COMPANY INC. | WW PhosbronzeC-C |

ECuNi

| SOURCE | PRODUCT |
|--|-----------------------------|
| American Filler Metals Company | AFM 187 |
| American Welding Alloys | AWA ECuNi |
| Arcos Alloys | Arcos 803 |
| Bohler Thyssen Welding USA, Inc. | UTP 387 |
| ELGA AB | ELGATIG CuNi 70-30 |
| EXSA S.A. - División Soldaduras OERLIKON | Citobronze Ni |
| EXSA S.A.- División Fontargen | FON E 521 / 30 |
| Inco Alloys International, Inc. | MONEL Welding Electrode 187 |
| Industrial Welding Corporation | NIHONWELD N-CuNi |
| Inweld Corporation | INWELD NA 187 |
| Messer - MG Systems & Welding Inc. | MG 373 |
| NATWELD | NATWELD 187 |
| Nippon Welding Rod Co., Ltd. | WEL Cu-70 |
| NOF Corporation | KN700 |
| Oxford Alloys, Inc. | OXFORD ECuNi |
| Techalloy Company, Inc. | Tech Rod 187 |
| Uniweld Products, Inc. | UNI-NI-187 |
| Washington Alloy Company | 187 |
| Weld Mold Company | 4187 |
| WELDWIRE COMPANY INC. | WW 187 |

ECuAl-A2

| SOURCE | PRODUCT |
|-------------------------------------|---------------------------|
| All-State Welding Products | 20 |
| American Filler Metals Company | AFM A-2 Electrode |
| American Welding Alloys | AWA ECuAl-A2, AWA CuAl-A2 |
| Ampco Metal Inc. | AMPCO-TRODE 10 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO ALBRO AC |

A5.6-84R, COPPER AND COPPER ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.6-84R, Specification for Copper and Copper Alloy Arc Welding Electrodes

ECuAl-A2 (Continued from previous page)

| SOURCE | PRODUCT |
|--|-----------------------------------|
| Champion Welding Products | CHAMPION AI Bronze |
| Crown Alloys Company | Royal ALB-20 |
| Euroweld, Ltd. | E Cu Al-A2 |
| EXSA S.A. - División Soldaduras OERLIKON | Citobronce AI |
| EXSA S.A.- División Fontargen | FON E 215 |
| HARRIS WELCO | WELCO 55 |
| Industrial Welding Corporation | NIHONWELD N-CuAl-A2 |
| Inweld Corporation | INWELD ALUM BRONZE A2 |
| Nassau Research Corp. | Venus |
| NATWELD | ALUMINUM BRONZE A-2 |
| Oxford Alloys, Inc. | OXFORD ECuAl-A2 |
| Sodel Ltd | Sodel 661 |
| Washington Alloy Company | Rainier 5A, Aluminum Bronze A2 FC |
| Weld Mold Company | 4010 |
| WELDWIRE COMPANY INC. | WW CuAl-A2-C |

ECuAl-B

| SOURCE | PRODUCT |
|--|-------------------------|
| American Welding Alloys | AWA ECuAl-B, AWA CuAl-B |
| Ampco Metal Inc. | AMPCO-TRODE 160 |
| CARBO-WELD Schweissmaterialien GmbH | CARBOTRODE 200 |
| EXSA S.A.- División Fontargen | FON E 722 |
| Industrial Welding Corporation | NIHONWELD N-CuAl-B |
| Inweld Corporation | INWELD ECuAl-B |
| Nassau Research Corp. | Venus |
| Oxford Alloys, Inc. | OXFORD ECuAl-B |
| Washington Alloy Company | Rainier 160 |
| Weld Mold Company | 4160 |
| WELDWIRE COMPANY INC. | WW CuAl-B |

ECuNiAl

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| American Welding Alloys | AWA ECuNiAl |
| Ampco Metal Inc. | AMPCO-TRODE 46 |
| Industrial Welding Corporation | NIHONWELD N-CuNi-Al |

A5.6-84R, COPPER AND COPPER ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.6-84R, Specification for Copper and Copper Alloy Arc Welding Electrodes

ECuNiAl (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|-----------------------|
| Inweld Corporation | INWELD ALUM BRONZE 46 |
| Nassau Research Corp. | Venus |
| Oxford Alloys, Inc. | OXFORD ECuNiAl |
| Washington Alloy Company | Rainier 46 |
| Weld Mold Company | 4046 |
| WELDWIRE COMPANY INC. | WW CuNiAl |

ECuMnNiAl

| SOURCE | PRODUCT |
|--|-------------------------|
| American Welding Alloys | AWA ECuMnNiAl |
| Ampco Metal Inc. | AMPCO-TRODE 40 |
| Bohler Thyssen Welding USA, Inc. | UTP 34 N |
| CARBO-WELD Schweissmaterialien GmbH | CARBOTRODE MN-S |
| Cronatron Welding Systems | Cronaweld ECuMnNiAl |
| Euroweld, Ltd. | E Cu Mn Ni Al |
| EXSA S.A.- División Fontargen | FON E 216 |
| Industrial Welding Corporation | NIHONWELD N-CuMnNiAl |
| Inweld Corporation | INWELD ECuMnNiAl |
| Lincoln Electric Co. | RepTec Cu8 |
| Nassau Research Corp. | Venus |
| Oxford Alloys, Inc. | OXFORD ECuMnNiAl |
| Washington Alloy Company | Rainier 40 |
| Weld Mold Company | 4040 |
| WELDWIRE COMPANY INC. | WW CuMnNiAl |

A5.7-84, COPPER AND COPPER ALLOY Bare Rods and Electrodes

See ANSI/AWS A5.7-84, Specification for Copper and Copper Alloy Bare Welding Rods and Electrodes

| ERCu | |
|--|----------------------------------|
| SOURCE | PRODUCT |
| AIR LIQUIDE CANADA INC. | Copper Wire |
| All-State Welding Products | Deox Copper |
| American Filler Metals Company | AFM DeOx Copper |
| American Welding Alloys | AWA ERCu |
| Ampco Metal Inc. | COPR-TRODE |
| Bohler Thyssen Welding USA, Inc. | UTP A381 |
| Crown Alloys Company | Deoxidized Copper |
| Dytron Corporation | DEOX COPPER |
| ESAB AB | OK Autrod 19.12, Tigrod 19.12 |
| Euroweld, Ltd. | ER Cu |
| EXSA S.A.- División Fontargen | FON A 200, FON A 206 |
| HARRIS WELCO | WELCO DEOXIDIZED COPPER |
| HILARIUS HAARLEM HOLLAND BV | HILCO CSSM / K7 |
| Inweld Corporation | INWELD DEOX |
| Lincoln Electric Co. | LNM CuSn |
| Midalloy, Inc. | Midalloy ERCu |
| Nassau Research Corp. | Venus Tig |
| NATWELD | DEOX COPPER |
| Nippon Welding Rod Co., Ltd. | WEL MIG Cu, TIG Cu |
| NOF Corporation | TG990, 991, 995, MG990, 991, 995 |
| Oxford Alloys, Inc. | OXFORD ERCu |
| Rigby-Maryland (Stainless) Ltd. | RIMA C7 |
| Sodel Ltd | Sodel Mig 6067, Sodel Tig 6067 |
| SOWESCO | Pinnacle Alloys ERCu |
| Uniweld Products, Inc. | DECOPTIG, DECOPMIG |
| Washington Alloy Company | Deox Copper, Alloy 189 |
| Weld Mold Company | 4333 |
| WELDWIRE COMPANY INC. | WW ERCu |
| Wisconsin Wire Works Inc. | WWW COPP-WELD |

| ERCuSi-A | |
|---------------------------------------|---------------------------|
| SOURCE | PRODUCT |
| AIR LIQUIDE CANADA INC. | LA Everdur 656 |
| All-State Welding Products | Silicon Bronze |
| American Filler Metals Company | AFM Silicon Bronze |

A5.7-84, COPPER AND COPPER ALLOY Bare Rods and Electrodes

See ANSI/AWS A5.7-84, Specification for Copper and Copper Alloy Bare Welding Rods and Electrodes

ERCuSi-A (Continued from previous page)

| SOURCE | PRODUCT |
|--|--------------------------------------|
| American Welding Alloys | AWA ERCuSi-A, AWA CuSi-A |
| Ampco Metal Inc. | SIL-TRODE |
| Arctec Alloys Limited | ARCTEC 656 |
| Bohler Thyssen Welding USA, Inc. | UTP Everdur |
| Champion Welding Products | CHAMPION SiBR |
| Cronatron Welding Systems | Cronaweld ERCuSi-A, Cronamig RCuSi-A |
| Crown Alloys Company | Silicon Bronze |
| Dytron Corporation | SILICON BRONZE |
| ESAB AB | OK Autrod 19.30, Tigrod 19.30 |
| ESAB WELDING & CUTTING PRODUCTS | OXWELD 26 SILICON BRONZE |
| Euroweld, Ltd. | ER Cu Si-A |
| EXSA S.A.- División Fontargen | FON A 202 MIG, FON A 202 TIG |
| HARRIS WELCO | WELCO SILICON BRONZE |
| HILARIUS HAARLEM HOLLAND BV | HILCO Silbronze |
| Inweld Corporation | INWELD SIL BRONZE |
| Lincoln Electric Co. | Lincoln Silicon Bronze, LNT CuSi 3 |
| Messer - MG Systems & Welding Inc. | MG 382 |
| Midalloy, Inc. | Midalloy ERCuSi-A |
| Nassau Research Corp. | Venus Tig |
| National-Standard | NS-656 Silicon Bronze |
| NATWELD | SILICON BRONZE |
| NATWELD | SILICON BRONZE |
| Nippon Welding Rod Co., Ltd. | WEL MIG EP35 |
| NOF Corporation | TG960B, MG960B |
| Oxford Alloys, Inc. | OXFORD ERCuSi-A |
| Oxford Alloys, Inc. | OXFORD ERCuSi-A |
| Plásticos y Alambres, S. A. | SOLDAMATIC MW-SiB |
| Rigby-Maryland (Stainless) Ltd. | RIMA C9 |
| Sodel Ltd | Sodel Mig 6063, Sodel Tig 6063 |
| Uniweld Products, Inc. | SILBROTIG, SILBROMIG |
| Washington Alloy Company | Silicon Bronze, Alloy 656 |
| Weld Mold Company | 56-B |
| WELDWIRE COMPANY INC. | WW Silbronze |
| Wisconsin Wire Works Inc. | WWW SIL-WELD |

A5.7-84, COPPER AND COPPER ALLOY Bare Rods and Electrodes

See ANSI/AWS A5.7-84, Specification for Copper and Copper Alloy Bare Welding Rods and Electrodes

ERCuSn-A

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| American Filler Metals Company | AFM Phos-Bronze A |
| American Welding Alloys | AWA ERCuSn-A, AWA CuSn-A |
| Bohler Thyssen Welding USA, Inc. | UTP A32 |
| Champion Welding Products | CHAMPION CuSn-A |
| Dytron Corporation | PHOS BRONZE A |
| Euroweld, Ltd. | ER Cu Si-A |
| HILARIUS HAARLEM HOLLAND BV | HILCO Tinbronze |
| Inweld Corporation | INWELD PHOS BRONZE-A |
| Lincoln Electric Co. | LNT CuSn 6 |
| Nassau Research Corp. | Venus |
| Oxford Alloys, Inc. | OXFORD ERCuSn-A |
| Rigby-Maryland (Stainless) Ltd. | RIMA BRONZE 6-C11 |
| Uniweld Products, Inc. | PHOSBROTIG, PHOSBROMIG |
| Washington Alloy Company | Phos-Bronze A, Alloy 518 |
| Weld Mold Company | 4320, 4325 |
| WELDWIRE COMPANY INC. | WW Phosbronze A |
| Wisconsin Wire Works Inc. | WWW PHOS-BRONZE WELD A |

ERCuNi

| SOURCE | PRODUCT |
|----------------------------------|--|
| All-State Welding Products | 67 |
| American Filler Metals Company | AFM Alloy 67 |
| American Welding Alloys | AWA ERCuNi |
| Arcos Alloys | Arcos 813 |
| Bohler Thyssen Welding USA, Inc. | Soudotape CuNi30 (strip), UTP 387 |
| Crown Alloys Company | Royal 55/45-10 |
| EXSA S.A.- División Fontargen | FON A 512 / 30 MIG, FON A 512 / 30 TIG |
| HILARIUS HAARLEM HOLLAND BV | HILCO Cunifer |
| Inco Alloys International, Inc. | MONEL Filler Metal 67 |
| Inweld Corporation | INWELD NA-67 |
| Lincoln Electric Co. | LNМ/LNT CuNi 30 |
| Midalloy, Inc. | Midalloy ERCuNi |
| Nassau Research Corp. | Gemini Tig |
| NATWELD | NATWELD 67 |
| Nippon Welding Rod Co., Ltd. | WEL MIG Cu-70, TIG Cu-70 |

A5.7-84, COPPER AND COPPER ALLOY Bare Rods and Electrodes

See ANSI/AWS A5.7-84, Specification for Copper and Copper Alloy Bare Welding Rods and Electrodes

ERCuNi (Continued from previous page)

| SOURCE | PRODUCT |
|--|--------------------------------|
| NOF Corporation | TG700, MG700 |
| Oxford Alloys, Inc. | OXFORD ERCuNi |
| Rigby-Maryland (Stainless) Ltd. | RIMA 67 |
| Techalloy Company, Inc. | Techalloy 413 |
| Uniweld Products, Inc. | UNI-NI-67 |
| Washington Alloy Company | Alloy 67, Copper-Nickel |
| Weld Mold Company | 4067 |
| WELDWIRE COMPANY INC. | WW NA67 |

ERCuAl-A1

| SOURCE | PRODUCT |
|--|---------------------------------------|
| All-State Welding Products | Aluminum Bronze A-1 |
| American Filler Metals Company | AFM Alum Bronze A1 |
| American Welding Alloys | AWA ERCuAl-A1 |
| Ampco Metal Inc. | AMPCO-TRODE 7 |
| Arctec Alloys Limited | ARCTEC 610 |
| Bohler Thyssen Welding USA, Inc. | UTP A34 |
| Crown Alloys Company | Royal ALB-10-1 |
| Dytron Corporation | ALBR-A1 |
| ESAB AB | OK Autrod 19.40, Tigrod 19.40 |
| Euroweld, Ltd. | ER Cu Al-A1 |
| EXSA S.A.- División Fontargen | FON A 215/8 MIG, FON A 215/8 TIG |
| HARRIS WELCO | WELCO ALUMINUM BRONZE A1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Albronze 8 |
| Inweld Corporation | INWELD ALUM BRONZE A1 |
| Lincoln Electric Co. | LNM/LNT CuAl 8 |
| Midalloy, Inc. | Midalloy ERCuAl-AI |
| Nassau Research Corp. | Venus Tig |
| NATWELD | ALUMINUM BRONZE A1 |
| NOF Corporation | TG900B, MG900B |
| Oxford Alloys, Inc. | OXFORD ERCuAl-A1 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALU-BRONZE 8 |
| Washington Alloy Company | Aluminum Bronze A-1, Alloy 610 |
| Weld Mold Company | 4007 |
| WELDWIRE COMPANY INC. | WW ERCuAl-A1 |

A5.7-84, COPPER AND COPPER ALLOY Bare Rods and Electrodes

See ANSI/AWS A5.7-84, Specification for Copper and Copper Alloy Bare Welding Rods and Electrodes

ERCuAl-A1 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------|--------------------|
| Wisconsin Wire Works Inc. | WWW A1 BRONZE WELD |

ERCuAl-A2

| SOURCE | PRODUCT |
|---------------------------------|--------------------------------|
| All-State Welding Products | Aluminum Bronze A-2 |
| American Filler Metals Company | AFM Alum Bronze A2 |
| American Welding Alloys | AWA ERCuAl-A3, AWA Cu Al-A2 |
| Ampco Metal Inc. | AMPCO-TRODE 10 |
| Arctec Alloys Limited | ARCTEC 618 |
| Champion Welding Products | CHAMPION Aluminum Bronze |
| Crown Alloys Company | Royal ALB-10-2, ALB-30 |
| Dytron Corporation | ALBR-A2 |
| Euroweld, Ltd. | ER Cu Al-A2 |
| HARRIS WELCO | WELCO ALUMINUM BRONZE A2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Albronze 9Fe |
| Inweld Corporation | INWELD ALUM BRONZE-A2 |
| Nassau Research Corp. | Venus Tig |
| NATWELD | ALUMINUM BRONZE A2 |
| NATWELD | ALUMINUM BRONZE A2 |
| Nippon Welding Rod Co., Ltd. | WEL MIG CuAl-A2, TIG CuAl-A2 |
| NOF Corporation | TG900, MG900 |
| Oxford Alloys, Inc. | OXFORD ERCuAl-A2 |
| Oxford Alloys, Inc. | OXFORD ERCuAl-A2 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALU-BRONZE C13 |
| Sodel Ltd | Sodel Mig 6061, Sodel Tig 6061 |
| Uniweld Products, Inc. | ALBROTIG, ALBROMIG |
| Washington Alloy Company | Aluminum Bronze A-2, Alloy 618 |
| Weld Mold Company | 4010 |
| WELDWIRE COMPANY INC. | WW ERCuAl-A2 |
| Wisconsin Wire Works Inc. | WWW A2 BRONZE WELD |

ERCuAl-A3

| SOURCE | PRODUCT |
|-------------------------|----------------------------|
| American Welding Alloys | AWA ERCuAl-A3, AWA CuAl-A3 |
| Ampco Metal Inc. | AMPCO-TRODE 150 |

A5.7-84, COPPER AND COPPER ALLOY Bare Rods and Electrodes

See ANSI/AWS A5.7-84, Specification for Copper and Copper Alloy Bare Welding Rods and Electrodes

ERCuAl-A3 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------|--------------------------------|
| Champion Welding Products | CHAMPION ERCuAl-A3 |
| Dytron Corporation | ALBR-A3 |
| Inweld Corporation | INWELD ALUM BRONZE A3 |
| Nassau Research Corp. | Venus Tig |
| Oxford Alloys, Inc. | OXFORD ERCuAl-A3 |
| Oxford Alloys, Inc. | OXFORD ERCuAl-A3 |
| Washington Alloy Company | Aluminum Bronze A-3, Alloy 624 |
| Weld Mold Company | 4150 |
| WELDWIRE COMPANY INC. | WW ERCuAl-A3 |
| Wisconsin Wire Works Inc. | WWW A3 BRONZE WELD |

ERCuNiAl

| SOURCE | PRODUCT |
|----------------------------------|------------------------------|
| American Filler Metals Company | AFM Alum Bronze 46 |
| American Welding Alloys | AWA ERCuNiAl |
| Ampco Metal Inc. | AMPCO-TRODE 46 |
| Bohler Thyssen Welding USA, Inc. | UTP A3444 |
| EXSA S.A.- División Fontargen | FON A 216 MIG, FON A 216 TIG |
| HILARIUS HAARLEM HOLLAND BV | HILCO Albronze 35 |
| Inweld Corporation | INWELD ALUM BRONZE 46 |
| NATWELD | ALUMINUM BRONZE 46 |
| Oxford Alloys, Inc. | OXFORD ERCuNiAl |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALU-BRONZE C26 |
| Washington Alloy Company | Nickel Aluminum Bronze |
| Weld Mold Company | 4046 |
| WELDWIRE COMPANY INC. | WW ERCuNiAl |
| Wisconsin Wire Works Inc. | WWW NICKEL BRONZE WELD |

ERCuMnNiAl

| SOURCE | PRODUCT |
|----------------------------------|----------------------------|
| American Welding Alloys | AWA ERCuMnNiAl |
| Ampco Metal Inc. | AMPCO-TRODE 40 |
| Bohler Thyssen Welding USA, Inc. | UTP A34N |
| Euroweld, Ltd. | ER Cu Mn Ni Al |
| EXSA S.A.- División Fontargen | FON A746 MIG, FON A746 TIG |

A5.7-84, COPPER AND COPPER ALLOY Bare Rods and Electrodes

See ANSI/AWS A5.7-84, Specification for Copper and Copper Alloy Bare Welding Rods and Electrodes

ERCuMnNiA1 (Continued from previous page)

| SOURCE | PRODUCT |
|--|---|
| Inweld Corporation | INWELD ERCuMnNiA1 |
| NATWELD | ALUMINUM BRONZE 40 |
| Oxford Alloys, Inc. | OXFORD ERCuMnNiA1 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALU-BRONZE C22Mn |
| Washington Alloy Company | Manganese Nickel Aluminum Bronze |
| Weld Mold Company | 4040 |
| WELDWIRE COMPANY INC. | WW ERCuMnNiA1 |
| Wisconsin Wire Works Inc. | WWW MANG-NICKEL BRONZE WELD |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAG-1

| SOURCE | PRODUCT |
|---------------------------------|-----------------------|
| All-State Welding Products | 101, 101FC |
| American Welding Alloys | AWA BAg-1, AWA BAg-22 |
| Astrolite Alloys | Astrolite BAg-1 |
| Cronatron Welding Systems | Cronasil BAg-1 |
| Dytron Corporation | SILVER 1 |
| ENGELHARD CORPORATION | SILVALOY 45 |
| EXSA S.A.- División Fontargen | FON A/AF 315 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 45Cd |
| Inweld Corporation | INWELD INSL 4509 |
| LANCASTER ALLOYS COMPANY | LAC 4769 |
| Lucas-Milhaupt, Inc. | Easy-Flo 45 |
| Nassau Research Corp. | Gemini |
| NATWELD | 45% W/CAD |
| Nippon Welding Rod Co., Ltd. | WEL SILVER Ag501 |
| NOF Corporation | LOW MELT |
| Oxford Alloys, Inc. | OXFORD BAg-1 |
| Washington Alloy Company | USA 45% |
| WELDWIRE COMPANY INC. | WW 45% |

BAG-1a

| SOURCE | PRODUCT |
|---|-----------------------|
| American Welding Alloys | AWA BAg-1a |
| Astrolite Alloys | Astrolite BAg-1a |
| Dytron Corporation | SILVER 1A |
| Electromanufacturas S.A | West Rode West Lot 50 |
| ENGELHARD CORPORATION | SILVALOY 50 |
| EXSA S.A.- División Fontargen | FON A/AF 310 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 50Cd |
| Indura S.A. Industria y Comercio | INDURA 50% Ag |
| Inweld Corporation | INWELD INSL 5004 |
| LANCASTER ALLOYS COMPANY | LAC 4770 |
| Lucas-Milhaupt, Inc. | Easy-Flo |
| Nassau Research Corp. | Gemini |
| NATWELD | 50% W/CAD |
| Nippon Welding Rod Co., Ltd. | WEL SILVER Ag501A |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAG-1a (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|---------------|
| NOF Corporation | FREE FLOW |
| Oxford Alloys, Inc. | OXFORD BAG-1a |
| Washington Alloy Company | USA 50% |
| WELDWIRE COMPANY INC. | WW 50% |

BAG-2

| SOURCE | PRODUCT |
|---------------------------------|------------------|
| American Welding Alloys | AWA BAG-2 |
| Astrolite Alloys | Astrolite BAG-2 |
| Cronatron Welding Systems | Cronasil BAG-2 |
| Dytron Corporation | SILVER 2 |
| ENGELHARD CORPORATION | SILVALOY 35 |
| EXSA S.A.- División Fontargen | FON A/AF 307 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 35Cd |
| Inweld Corporation | INWELD INSL 3509 |
| LANCASTER ALLOYS COMPANY | LAC 4768 |
| Lucas-Milhaupt, Inc. | Easy-Flo 35 |
| Nassau Research Corp. | Apollo |
| NATWELD | 35% W/CAD |
| Nippon Welding Rod Co., Ltd. | WEL SILVER Ag502 |
| NOF Corporation | SY |
| Oxford Alloys, Inc. | OXFORD BAG-2 |
| Washington Alloy Company | USA 35% |
| WELDWIRE COMPANY INC. | WW 35% |

BAG-2a

| SOURCE | PRODUCT |
|---------------------------------|------------------|
| American Welding Alloys | AWA BAG-2a |
| Astrolite Alloys | Astrolite BAG-2a |
| Dytron Corporation | SILVER 2A |
| ENGELHARD CORPORATION | SILVALOY 30 |
| EXSA S.A.- División Fontargen | FON A/AF 305 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 30Cd |
| Inweld Corporation | INWELD INSL 3003 |
| LANCASTER ALLOYS COMPANY | LAC Z200 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAG-2a (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|---------------|
| Lucas-Milhaupt, Inc. | Easy-Flo 30 |
| Nassau Research Corp. | Apollo |
| Oxford Alloys, Inc. | OXFORD BAG-2a |
| Washington Alloy Company | USA 30% |
| WELDWIRE COMPANY INC. | WW 30% |

BAG-3

| SOURCE | PRODUCT |
|---------------------------------|------------------|
| American Welding Alloys | AWA BAG-3 |
| Astrolite Alloys | Astrolite BAG-3 |
| Dytron Corporation | SILVER 3 |
| ENGELHARD CORPORATION | SILVALOY 50N |
| EXSA S.A.- División Fontargen | FON A/AF 309 |
| Inweld Corporation | INWELD INSL 5009 |
| LANCASTER ALLOYS COMPANY | LAC 4771 |
| Lucas-Milhaupt, Inc. | Easy-Flo 3 |
| NATWELD | 50N |
| Nippon Welding Rod Co., Ltd. | WEL SILVER Ag503 |
| Oxford Alloys, Inc. | OXFORD BAG-3 |
| Washington Alloy Company | USA 50N |
| WELDWIRE COMPANY INC. | WW BAG-3 |

BAG-4

| SOURCE | PRODUCT |
|---------------------------------|-------------------|
| All-State Welding Products | 100 |
| American Welding Alloys | AWA BAG-4 |
| Astrolite Alloys | Astrolite BAG-4 |
| Dytron Corporation | SILVER 4 |
| ENGELHARD CORPORATION | SILVALOY A-40N2 |
| HARRIS WELCO | SAFETY-SILV 40N12 |
| Inweld Corporation | INWELD INSL 4085 |
| LANCASTER ALLOYS COMPANY | LAC BAG-4 |
| Lucas-Milhaupt, Inc. | Braze 403 |
| Nippon Welding Rod Co., Ltd. | WEL SILVER Ag504 |
| Oxford Alloys, Inc. | OXFORD BAG-4 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAG-4 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|-------------------|
| Uniweld Products, Inc. | UNI-1035 |
| Washington Alloy Company | USA 40 NCF |
| WELDWIRE COMPANY INC. | WW BAG-4 |

BAG-5

| SOURCE | PRODUCT |
|------------------------------------|--------------------------------------|
| American Welding Alloys | AWA BAG-5 |
| Astrolite Alloys | Astrolite BAG-5 |
| Crown Alloys Company | Sil 45 & Sil 45FC |
| Dytron Corporation | SILVER 5 |
| ENGELHARD CORPORATION | SILVALOY A-45 |
| EXSA S.A.- División Fontargen | FON A/AF 311 |
| HARRIS WELCO | SAFETY-SILV 45 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 44 |
| Inweld Corporation | INWELD INSL 4504 |
| LANCASTER ALLOYS COMPANY | LAC Z201 |
| Lucas-Milhaupt, Inc. | Braze 450 |
| Messer - MG Systems & Welding Inc. | MG 104 |
| Nassau Research Corp. | Gemini |
| NATWELD | 45% CAD-FREE |
| Nippon Welding Rod Co., Ltd. | WEL SILVER Ag505 |
| Oxford Alloys, Inc. | OXFORD BAG-5 |
| Sodel Ltd | Sodel 475 |
| Uniweld Products, Inc. | UNI-1045 |
| Washington Alloy Company | USA 45CF, Columbia 12G. 12GFC |
| WELDWIRE COMPANY INC. | WW BAG-5 |

BAG-6

| SOURCE | PRODUCT |
|-------------------------|------------------|
| American Welding Alloys | AWA BAG-6 |
| Astrolite Alloys | Astrolite BAG-6 |
| Dytron Corporation | SILVER 6 |
| ENGELHARD CORPORATION | SILVALOY A-50 |
| HARRIS WELCO | SAFETY-SILV 50 |
| Inweld Corporation | INWELD INSL 5094 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAG-6 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| LANCASTER ALLOYS COMPANY | LAC Z202 |
| Lucas-Milhaupt, Inc. | Braze 501 |
| Nassau Research Corp. | Gemini |
| NATWELD | 50% CAD-FREE |
| Nippon Welding Rod Co., Ltd. | WEL SILVER Ag506 |
| Oxford Alloys, Inc. | OXFORD BAG-6 |
| Washington Alloy Company | USA 50CF |
| WELDWIRE COMPANY INC. | WW BAG-6 |

BAG-7

| SOURCE | PRODUCT |
|------------------------------------|--------------------------------------|
| All-State Welding Products | 155, 155FC |
| American Welding Alloys | AWA BAG-7 |
| Astrolite Alloys | Astrolite BAG-7 |
| Cronatron Welding Systems | Cronasil BAG-7 |
| Crown Alloys Company | Sil 55 & Sil 55FC |
| Dytron Corporation | SILVER 7 |
| ENGELHARD CORPORATION | SILVALOY A-56T |
| EXSA S.A.- División Fontargen | FON A/AF 314 |
| HARRIS WELCO | SAFETY-SILV 56 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 56Sn |
| Inweld Corporation | INWELD INSL 5600 |
| LANCASTER ALLOYS COMPANY | LAC 4763 |
| Lucas-Milhaupt, Inc. | Braze 560 |
| Messer - MG Systems & Welding Inc. | MG 106 |
| Nassau Research Corp. | Gemini |
| NATWELD | 56% CAD-FREE |
| Nippon Welding Rod Co., Ltd. | WEL SILVER Ag507 |
| Oxford Alloys, Inc. | OXFORD BAG-7 |
| Sodel Ltd | Sodel 472 |
| Uniweld Products, Inc. | UNI-1056 |
| Washington Alloy Company | USA 56CF, Columbia 13G, 13GFC |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAG-8

| SOURCE | PRODUCT |
|-------------------------------|------------------|
| American Welding Alloys | AWA BAG-8 |
| Astrolite Alloys | Astrolite BAG-8 |
| Dytron Corporation | SILVER 8 |
| ENGELHARD CORPORATION | SILVALOY B-72 |
| EXSA S.A.- División Fontargen | FON A 308 |
| Lucas-Milhaupt, Inc. | Braze 720 |
| Nippon Welding Rod Co., Ltd. | WEL SILVER Ag508 |
| Oxford Alloys, Inc. | OXFORD BAG-8 |
| Washington Alloy Company | USA 72CF |

BAG-8a

| SOURCE | PRODUCT |
|--------------------------|------------------|
| American Welding Alloys | AWA BAG-8a |
| Astrolite Alloys | Astrolite BAG-8a |
| Dytron Corporation | SILVER 8A |
| ENGELHARD CORPORATION | SILVALOY B-72Li |
| Lucas-Milhaupt, Inc. | Lithobraze 720 |
| Oxford Alloys, Inc. | OXFORD BAG-8a |
| Washington Alloy Company | USA 72Li |
| WELDWIRE COMPANY INC. | WW BAG-8a |

BAG-9

| SOURCE | PRODUCT |
|--------------------------|-----------------|
| American Welding Alloys | AWA BAG-9 |
| Astrolite Alloys | Astrolite BAG-9 |
| Dytron Corporation | SILVER 9 |
| ENGELHARD CORPORATION | SILVALOY A-65 |
| Lucas-Milhaupt, Inc. | Braze 650 |
| Oxford Alloys, Inc. | OXFORD BAG-9 |
| Washington Alloy Company | USA BAG-9 |
| WELDWIRE COMPANY INC. | WW BAG-9 |

BAG-10

| SOURCE | PRODUCT |
|-------------------------|------------------|
| American Welding Alloys | AWA BAG-10 |
| Astrolite Alloys | Astrolite BAG-10 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAG-10 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|----------------------|
| Dytron Corporation | SILVER 10 |
| ENGELHARD CORPORATION | SILVALOY A-70 |
| Lucas-Milhaupt, Inc. | Braze 700 |
| Oxford Alloys, Inc. | OXFORD BAG-10 |
| WELDWIRE COMPANY INC. | WW BAG-10 |

BAG-13

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| American Welding Alloys | AWA BAG-13 |
| Astrolite Alloys | Astrolite BAG-13 |
| Dytron Corporation | SILVER 13 |
| ENGELHARD CORPORATION | SILVALOY A-54N |
| EXSA S.A.- División Fontargen | FON A/AF 318 |
| HARRIS WELCO | SAFETY-SILV 54 |
| LANCASTER ALLOYS COMPANY | LAC 4772 |
| Lucas-Milhaupt, Inc. | Braze 541 |
| Oxford Alloys, Inc. | OXFORD BAG-13 |
| Washington Alloy Company | USA 54CF |
| WELDWIRE COMPANY INC. | WW BAG-13 |

BAG-13a

| SOURCE | PRODUCT |
|---------------------------------|-----------------------|
| American Welding Alloys | AWA BAG-13a |
| Astrolite Alloys | Astrolite BAG-13a |
| Dytron Corporation | SILVER 13A |
| ENGELHARD CORPORATION | SILVALOY B-56N |
| Lucas-Milhaupt, Inc. | Braze 559 |
| Oxford Alloys, Inc. | OXFORD BAG-13a |
| Washington Alloy Company | USA 56N |
| WELDWIRE COMPANY INC. | WW BAG-13a |

BAG-18

| SOURCE | PRODUCT |
|-------------------------|------------------|
| American Welding Alloys | AWA BAG-18 |
| Astrolite Alloys | Astrolite BAG-18 |
| Dytron Corporation | SILVER 18 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAG-18 (Continued from previous page)

| SOURCE | PRODUCT |
|-------------------------------|----------------------|
| ENGELHARD CORPORATION | SILVALOY B-60T |
| EXSA S.A.- División Fontargen | FON A 317 |
| Lucas-Milhaupt, Inc. | Braze 603 |
| Oxford Alloys, Inc. | OXFORD BAG-18 |

BAG-19

| SOURCE | PRODUCT |
|----------------------------|----------------------|
| American Welding Alloys | AWA BAG-19 |
| Astrolite Alloys | Astrolite BAG-19 |
| Dytron Corporation | SILVER 19 |
| ENGELHARD CORPORATION | SILVALOY B-93Li |
| Lucas-Milhaupt, Inc. | Lithobraze 925 |
| Oxford Alloys, Inc. | OXFORD BAG-19 |

BAG-20

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| American Welding Alloys | AWA BAG-20 |
| Astrolite Alloys | Astrolite BAG-20 |
| Dytron Corporation | SILVER 20 |
| ENGELHARD CORPORATION | SILVALOY A-30 |
| EXSA S.A.- División Fontargen | FON A/AF 330 |
| HARRIS WELCO | SAFETY-SILV 30 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 30Sn |
| Inweld Corporation | INWELD INSL 3075 |
| Lucas-Milhaupt, Inc. | Braze 300 |
| Oxford Alloys, Inc. | OXFORD BAG-20 |
| Washington Alloy Company | USA 30CF |
| WELDWIRE COMPANY INC. | WW BAG-20 |

BAG-21

| SOURCE | PRODUCT |
|-------------------------|------------------|
| American Welding Alloys | AWA BAG-21 |
| Astrolite Alloys | Astrolite BAG-21 |
| Dytron Corporation | SILVER 21 |
| ENGELHARD CORPORATION | SILVALOY B-63NT |
| Lucas-Milhaupt, Inc. | Braze 630 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAG-21 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------|----------------|
| Oxford Alloys, Inc. | OXFORD BAG-21 |

BAG-22

| SOURCE | PRODUCT |
|-------------------------------|------------------|
| Astrolite Alloys | Astrolite BAG-22 |
| Dytron Corporation | SILVER 22 |
| ENGELHARD CORPORATION | SILVALOY A-49NM |
| EXSA S.A.- División Fontargen | FON A 324 |
| Lucas-Milhaupt, Inc. | Braze 495 |
| Oxford Alloys, Inc. | OXFORD BAG-22 |

BAG-23

| SOURCE | PRODUCT |
|-------------------------------|------------------|
| American Welding Alloys | AWA BAG-23 |
| Astrolite Alloys | Astrolite BAG-23 |
| Dytron Corporation | SILVER 23 |
| ENGELHARD CORPORATION | SILVALOY Z-85M |
| EXSA S.A.- División Fontargen | FON A802 |
| Lucas-Milhaupt, Inc. | Braze 852 |
| Oxford Alloys, Inc. | OXFORD BAG-23 |

BAG-24

| SOURCE | PRODUCT |
|---------------------------------|------------------|
| American Welding Alloys | AWA BAG-24 |
| Astrolite Alloys | Astrolite BAG-24 |
| Crown Alloys Company | Sil 50 Ni |
| Dytron Corporation | SILVER 24 |
| ENGELHARD CORPORATION | SILVALOY A-50N |
| HARRIS WELCO | SAFETY-SILV 50N |
| Inweld Corporation | INWELD INSL 5081 |
| LANCASTER ALLOYS COMPANY | LAC 4788 |
| Lucas-Milhaupt, Inc. | Braze 505 |
| NATWELD | A50N |
| Oxford Alloys, Inc. | OXFORD BAG-24 |
| Washington Alloy Company | USA 502N |
| WELDWIRE COMPANY INC. | WW BAG-24 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAG-26

| SOURCE | PRODUCT |
|-------------------------|------------------|
| American Welding Alloys | AWA BAG-26 |
| Astrolite Alloys | Astrolite BAG-26 |
| Dytron Corporation | SILVER 26 |
| Lucas-Milhaupt, Inc. | Braze 252 |
| Oxford Alloys, Inc. | OXFORD BAG-26 |

BAG-27

| SOURCE | PRODUCT |
|--------------------------|------------------|
| Astrolite Alloys | Astrolite BAG-27 |
| Dytron Corporation | SILVER 27 |
| ENGELHARD CORPORATION | SILVALOY 25 |
| LANCASTER ALLOYS COMPANY | LAC Z203 |
| Lucas-Milhaupt, Inc. | Easy-Flo 25 |
| Oxford Alloys, Inc. | OXFORD BAG-27 |
| WELDWIRE COMPANY INC. | WW BAG-27 |

BAG-28

| SOURCE | PRODUCT |
|-------------------------------|------------------|
| Astrolite Alloys | Astrolite BAG-28 |
| Dytron Corporation | SILVER 28 |
| ENGELHARD CORPORATION | SILVALOY A-40T |
| EXSA S.A.- División Fontargen | FON A/AF 340 |
| HARRIS WELCO | SAFETY-SILV 40T |
| Inweld Corporation | INWELD INSL 4076 |
| Lucas-Milhaupt, Inc. | Braze 402 |
| Oxford Alloys, Inc. | OXFORD BAG-28 |
| Washington Alloy Company | USA 40CF |
| WELDWIRE COMPANY INC. | WW BAG-28 |

BAG-33

| SOURCE | PRODUCT |
|-------------------------------|------------------|
| Astrolite Alloys | Astrolite BAG-33 |
| Dytron Corporation | SILVER 33 |
| ENGELHARD CORPORATION | SILVALOY 25L |
| EXSA S.A.- División Fontargen | FON A/AF 316 |
| Lucas-Milhaupt, Inc. | Easy-Flo 25 HC |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAG-33 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------|----------------|
| Oxford Alloys, Inc. | OXFORD BAG-33 |

BAG-34

| SOURCE | PRODUCT |
|-------------------------------|------------------|
| Astrolite Alloys | Astrolite BAG-34 |
| Dytron Corporation | SILVER 34 |
| ENGELHARD CORPORATION | SILVALOY 38T |
| EXSA S.A.- División Fontargen | FON A/AF 319 |
| HARRIS WELCO | SAFETY-SILV 38T |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 38Sn |
| Inweld Corporation | INWELD INSL 3876 |
| Lucas-Milhaupt, Inc. | Braze 380 |
| Oxford Alloys, Inc. | OXFORD BAG-34 |

BAG-35

| SOURCE | PRODUCT |
|--------------------------|-------------------------------|
| Astrolite Alloys | Astrolite BAG-35 |
| Crown Alloys Company | Sil 35 |
| Dytron Corporation | SILVER 35 |
| ENGELHARD CORPORATION | SILVALOY A-35 |
| HARRIS WELCO | SAFETY-SILV 35 |
| Lucas-Milhaupt, Inc. | Braze 351 |
| Nassau Research Corp. | Apollo |
| Oxford Alloys, Inc. | OXFORD BAG-35 |
| Washington Alloy Company | USA 35CF, Columbia 11G, 11GFC |
| WELDWIRE COMPANY INC. | WW BAG-35 |

BAG-36

| SOURCE | PRODUCT |
|-------------------------------|------------------|
| Astrolite Alloys | Astrolite BAG-36 |
| Dytron Corporation | SILVER 36 |
| ENGELHARD CORPORATION | SILVALOY A-45T |
| EXSA S.A.- División Fontargen | FON A/AF 320 |
| HARRIS WELCO | SAFETY-SILV 45T |
| Lucas-Milhaupt, Inc. | Braze 452 |
| Oxford Alloys, Inc. | OXFORD BAG-36 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

B_{Ag}-37

| SOURCE | PRODUCT |
|-----------------------------|-------------------------------|
| All-State Welding Products | 125 |
| Astrolite Alloys | Astrolite B _{Ag} -37 |
| Dytron Corporation | SILVER 37 |
| ENGELHARD CORPORATION | SILVALOY A-25T |
| HARRIS WELCO | SAFETY-SILV 25 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 25Sn |
| Lucas-Milhaupt, Inc. | Braze 255 |
| Oxford Alloys, Inc. | OXFORD B _{Ag} -37 |
| Washington Alloy Company | USA 25CF |
| WELDWIRE COMPANY INC. | WW B _{Ag} -37 |

B_{Au}-1

| SOURCE | PRODUCT |
|----------------------|------------------------------|
| Astrolite Alloys | Astrolite B _{Au} -1 |
| Lucas-Milhaupt, Inc. | Premabraze 401 |
| Oxford Alloys, Inc. | OXFORD B _{Au} -1 |

B_{Au}-2

| SOURCE | PRODUCT |
|----------------------|------------------------------|
| Astrolite Alloys | Astrolite B _{Au} -2 |
| Lucas-Milhaupt, Inc. | B _{Au} -2 |
| Oxford Alloys, Inc. | OXFORD B _{Au} -2 |

B_{Au}-3

| SOURCE | PRODUCT |
|----------------------|------------------------------|
| Astrolite Alloys | Astrolite B _{Au} -3 |
| Lucas-Milhaupt, Inc. | Premabraze 129 |
| Oxford Alloys, Inc. | OXFORD B _{Au} -3 |

B_{Au}-4

| SOURCE | PRODUCT |
|--------------------------|------------------------------|
| Astrolite Alloys | Astrolite B _{Au} -4 |
| LANCASTER ALLOYS COMPANY | LAC 4787 |
| Lucas-Milhaupt, Inc. | Premabraze 130 |
| Oxford Alloys, Inc. | OXFORD B _{Au} -4 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAu-5

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| Astrolite Alloys | Astrolite BAu-5 |
| LANCASTER ALLOYS COMPANY | LAC 4785 |
| Lucas-Milhaupt, Inc. | BAu-5 |
| Oxford Alloys, Inc. | OXFORD BAu-5 |

BAu-6

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| Astrolite Alloys | Astrolite BAu-6 |
| LANCASTER ALLOYS COMPANY | LAC 4786 |
| Lucas-Milhaupt, Inc. | Premabraze 700 |
| Oxford Alloys, Inc. | OXFORD BAu-6 |

BAISI-3

| SOURCE | PRODUCT |
|---------------------------------|-----------------------------|
| AlcoTec Wire Corporation | AlcoTec BAISI-3, 4145 (716) |
| Astrolite Alloys | Astrolite BAISI-3 |
| Crown Alloys Company | R4145 (716) |
| Dytron Corporation | 4145 |
| Inweld Corporation | INWELD 4145 |
| LANCASTER ALLOYS COMPANY | LAC 4145 |
| Lucas-Milhaupt, Inc. | Al 716 |
| Washington Alloy Company | 4145 (716 Aluminum) |
| WELDWIRE COMPANY INC. | WW 716 |

BAISI-4

| SOURCE | PRODUCT |
|------------------------------------|-----------------------------|
| AlcoTec Wire Corporation | AlcoTec BAISI-4, 4047 (718) |
| All-State Welding Products | 31 |
| Astrolite Alloys | Astrolite BAISI-4 |
| Cronatron Welding Systems | Cronabraze BAISI-4 |
| Crown Alloys Company | R4047 (718) |
| Dytron Corporation | 4047 |
| HARRIS WELCO | WELCO 10 |
| HILARIUS HAARLEM HOLLAND BV | HILCO ALSi 12 |
| Inweld Corporation | INWELD 4047 |
| LANCASTER ALLOYS COMPANY | LAC 4047 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BAISI-4 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|---------------------|
| Lucas-Milhaupt, Inc. | Al 718 |
| Sodel Ltd | Nil |
| Washington Alloy Company | 4047 (718 Aluminum) |
| WELDWIRE COMPANY INC. | WW 4047 |

BAISI-5

| SOURCE | PRODUCT |
|--------------------|-------------------|
| Astrolite Alloys | Astrolite BAISI-5 |
| Dytron Corporation | 4045 |

BMg-1

| SOURCE | PRODUCT |
|--------------------------|-----------------|
| Astrolite Alloys | Astrolite BMg-1 |
| Crown Alloys Company | AZ92A |
| HARRIS WELCO | WELCO AZ92A |
| Inweld Corporation | INWELD AZ92A |
| Oxford Alloys, Inc. | OXFORD BMg-1 |
| Washington Alloy Company | AZ92A |
| WELDWIRE COMPANY INC. | WW A792A |

BCu-1

| SOURCE | PRODUCT |
|----------------------|-----------------|
| Astrolite Alloys | Astrolite BCu-1 |
| Lucas-Milhaupt, Inc. | CDA 110 |

BCu-1a

| SOURCE | PRODUCT |
|---------------------------|---------|
| Wall Colmonoy Corporation | CuBraz |

RBCuZn-A

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------------------|
| American Welding Alloys | AWA RBCuZn-A |
| CARBO-WELD Schweissmaterialien GmbH | CARBOLOT 1D, CARBOLOT 1F |
| EXSA S.A. - División Fontargen | FON A/AF 210 |
| HILARIUS HAARLEM HOLLAND BV | HILCO BRONZE C, BRONZE F AUTOBRONZE |
| Inweld Corporation | INWELD NAVAL BRONZE |
| Oxford Alloys, Inc. | OXFORD RBCuZn-A |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

RBCuZn-A (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|-------------------------|
| Washington Alloy Company | Naval Bronze, Alloy 470 |
| WELDWIRE COMPANY INC. | WW Naval Bronze |

RBCuZn-B

| SOURCE | PRODUCT |
|--------------------------|--------------------------|
| American Welding Alloys | AWA RBCuZn-B |
| Oxford Alloys, Inc. | OXFORD RBCuZn-B |
| Washington Alloy Company | Nickel Bronze, Alloy 680 |
| WELDWIRE COMPANY INC. | WW Nickel Bronze |

RBCuZn-C

| SOURCE | PRODUCT |
|----------------------------------|--|
| All-State Welding Products | Low Fuming Bronze, 41FC |
| American Filler Metals Company | AFM RBCuZn-C |
| American Welding Alloys | AWA RBCuZn-C |
| Arctec Alloys Limited | ARCTEC 1080 FC |
| Cronatron Welding Systems | Cronabraze RBCuZn-C |
| Crown Alloys Company | Crown 125, 125FC |
| Electromanufacturas S.A | West Arco Bronsol; West Rode West Bronze |
| Indura S.A. Industria y Comercio | INDURA 127, 127 FC |
| Inweld Corporation | INWELD LFB BARE; LFB-FC |
| Lincoln Electric Co. | Lincoln Low Fuming Bronze (Bare), Lincoln Low Fuming Bronze (Coated) |
| Lucas-Milhaupt, Inc. | CDA 681 |
| NATWELD | LOW FUMING BRONZE |
| Oxford Alloys, Inc. | OXFORD RBCuZn-C |
| Sodel Ltd | Sodel 66 |
| Uniweld Products, Inc. | UNI-1500, UNI-1500FC |
| Washington Alloy Company | LFB, LFBFC, Alloy 681, Rainier 1G, 1GFC |
| Weld Mold Company | 42-C |
| WELDWIRE COMPANY INC. | WW LFB |

RBCuZn-D

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| All-State Welding Products | 11, 11FC, 13, 13FC |
| American Filler Metals Company | AFM RBCuZn-D |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

RBCuZn-D (Continued from previous page)

| SOURCE | PRODUCT |
|--|---|
| Arctec Alloys Limited | ARCTEC 1018 FC |
| Astrolite Alloys | Astrolite RBCuZn-D |
| CARBO-WELD Schweissmaterialien GmbH | CARBOLOT 2D, CARBOLOT 2F |
| Cronatron Welding Systems | Cronabrazo RBCuZn-D |
| Crown Alloys Company | Royal 120, 120FC |
| EXSA S.A.- División Fontargen | FON A/AF 700, FON A/AF 101 |
| HARRIS WELCO | WELCO 14, 17, 170 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Bronze N |
| Indura S.A. Industria y Comercio | INDURA 128 FC |
| Inweld Corporation | INWELD NICKEL SILVER BARE & FC |
| Lucas-Milhaupt, Inc. | Hi-Temp 773 |
| Nassau Research Corp. | Brutus |
| NATWELD | NICKEL SILVER |
| Oxford Alloys, Inc. | OXFORD RBCuZn-D |
| Sodel Ltd | Sodel 47, Sodel 660 |
| Uniweld Products, Inc. | UNI-1800, UNI-1800FC |
| Washington Alloy Company | Nickel Silver, Alloy 773, Rainier 2G, 2GFC |
| Weld Mold Company | 26-C |
| WELDWIRE COMPANY INC. | WW Nickel-Silver |

BCuP-1

| SOURCE | PRODUCT |
|---------------------------------------|----------------------|
| American Filler Metals Company | AFM BCuP-1 |
| American Welding Alloys | AWA BCuP-1 |
| Astrolite Alloys | Astrolite BCuP-1 |
| Oxford Alloys, Inc. | OXFORD BCuP-1 |
| WELDWIRE COMPANY INC. | WW Phos-0 |

BCuP-2

| SOURCE | PRODUCT |
|---------------------------------------|-------------------|
| All-State Welding Products | 21, SILFLO "0" |
| American Filler Metals Company | AFM BCuP-2 |
| American Welding Alloys | AWA BCuP-2 |
| Astrolite Alloys | Astrolite BCuP-2 |
| Bohler Thyssen Welding USA, Inc. | UTP 37 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BCuP-2 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|---------------------------|
| Cronatron Welding Systems | Cronasil BCuP-2 |
| Crown Alloys Company | Sil-Cop 0 |
| Dytron Corporation | COPPER PHOS |
| ENGELHARD CORPORATION | SILVALOY 0 |
| EXSA S.A.- División Fontargen | FON A 204 |
| HARRIS WELCO | PHOSPHOR COPPER 0 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Phosphor Bronze |
| Inweld Corporation | INWELD PC 0 |
| LANCASTER ALLOYS COMPANY | LAC Z204 |
| Lucas-Milhaupt, Inc. | Fos-Flo 7 |
| Nassau Research Corp. | Venus |
| NATWELD | PHOS COPPER |
| Oxford Alloys, Inc. | OXFORD BCuP-2 |
| Uniweld Products, Inc. | UNI-1000 |
| Washington Alloy Company | USA 0, Columbia 7G |

BCuP-3

| SOURCE | PRODUCT |
|--|---------------------|
| All-State Welding Products | SILFLO "5" |
| American Filler Metals Company | AFM BCuP-3 |
| American Welding Alloys | AWA BCuP-3 |
| Astrolite Alloys | Astrolite BCuP-3 |
| Bohler Thyssen Welding USA, Inc. | UTP 35 |
| CARBO-WELD Schweissmaterialien GmbH | CARBOLOT 41 |
| Crown Alloys Company | Sil-Cop 5 |
| Dytron Corporation | SILVER PHOS 5 |
| ENGELHARD CORPORATION | SILVALOY 5 |
| EXSA S.A.- División Fontargen | FON A 301 |
| HARRIS WELCO | STAY-SILV 5 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 5P |
| Indura S.A. Industria y Comercio | INDURA 6% Ag |
| Inweld Corporation | INWELD PC 5 |
| LANCASTER ALLOYS COMPANY | LAC Z205 |
| Lucas-Milhaupt, Inc. | Sil-Fos 5 |
| Nassau Research Corp. | Venus |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BCuP-3 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|----------------------------|
| NATWELD | PHOS SILV 5% |
| Oxford Alloys, Inc. | OXFORD BCuP-3 |
| Sodel Ltd | Sodel 474 |
| Uniweld Products, Inc. | UNI-1005 |
| Washington Alloy Company | USA 5%, Columbia 8G |
| WELDWIRE COMPANY INC. | WW Phos-5 |

BCuP-4

| SOURCE | PRODUCT |
|---------------------------------------|----------------------------|
| American Filler Metals Company | AFM BCuP-4 |
| American Welding Alloys | AWA BCuP-4 |
| Astrolite Alloys | Astrolite BCuP-4 |
| Dytron Corporation | SILVER PHOS 6 |
| ENGELHARD CORPORATION | SILVALOY 6F |
| Inweld Corporation | INWELD PC 6 |
| LANCASTER ALLOYS COMPANY | LAC Z206 |
| Lucas-Milhaupt, Inc. | Sil-Fos 6 |
| Oxford Alloys, Inc. | OXFORD BCuP-4 |
| Uniweld Products, Inc. | UNI-1006 |
| Washington Alloy Company | USA 6F, Columbia 9G |
| WELDWIRE COMPANY INC. | WW Phos-6 |

BCuP-5

| SOURCE | PRODUCT |
|---------------------------------------|-------------------|
| All-State Welding Products | SILFLO "15" |
| American Filler Metals Company | AFM BCuP-5 |
| American Welding Alloys | AWA BCuP-5 |
| Astrolite Alloys | Astrolite BCuP-5 |
| Bohler Thyssen Welding USA, Inc. | UTP 3515 |
| Crown Alloys Company | Sil-Cop 15 |
| Dytron Corporation | SILVER PHOS 15 |
| ENGELHARD CORPORATION | SILVALOY 15 |
| EXSA S.A.- División Fontargen | FON A 301/15 |
| HARRIS WELCO | STAY-SILV 15 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 15P |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BCuP-5 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------------|-----------------------|
| Indura S.A. Industria y Comercio | INDURA 15% Ag |
| Inweld Corporation | INWELD PC 15 |
| LANCASTER ALLOYS COMPANY | LAC Z207 |
| Lucas-Milhaupt, Inc. | Sil-Fos |
| NATWELD | PHOS SILV 15% |
| Oxford Alloys, Inc. | OXFORD BCuP-5 |
| Sodel Ltd | Sodel 473 |
| Uniweld Products, Inc. | UNI-1015 |
| Washington Alloy Company | USA 15%, Columbia 10G |
| WELDWIRE COMPANY INC. | WW Phos-15 |

BCuP-6

| SOURCE | PRODUCT |
|----------------------------------|-------------------|
| All-State Welding Products | 23 |
| American Filler Metals Company | AFM BCuP-6 |
| American Welding Alloys | AWA BCuP-6 |
| Astrolite Alloys | Astrolite BCuP-6 |
| Bohler Thyssen Welding USA, Inc. | UTP 36 |
| Cronatron Welding Systems | Cronabrazo BCuP-6 |
| Dytron Corporation | SILVER PHOS 2 |
| ENGELHARD CORPORATION | SILVALOY 2 |
| HARRIS WELCO | STAY-SILV 2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Ag 2P |
| Inweld Corporation | INWELD PC 2 |
| LANCASTER ALLOYS COMPANY | LAC Z208 |
| Lucas-Milhaupt, Inc. | Sil-Fos 2 |
| NATWELD | PHOS SILV 2% |
| Oxford Alloys, Inc. | OXFORD BCuP-6 |
| Washington Alloy Company | USA 2% |
| WELDWIRE COMPANY INC. | WW Phos-2 |

BCuP-7

| SOURCE | PRODUCT |
|-------------------------|------------------|
| American Welding Alloys | AWA BCuP-7 |
| Astrolite Alloys | Astrolite BCuP-7 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BCuP-7 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------|---------------|
| ENGELHARD CORPORATION | SILVALOY 5F |
| Nassau Research Corp. | Venus |
| Oxford Alloys, Inc. | OXFORD BCuP-7 |

BNI-1

| SOURCE | PRODUCT |
|---------------------------------|-----------------|
| American Welding Alloys | AWA BNI-1 |
| Astrolite Alloys | Astrolite BNI-1 |
| LANCASTER ALLOYS COMPANY | LAC 4775 |
| Lucas-Milhaupt, Inc. | Hi-Temp 720 |
| Oxford Alloys, Inc. | OXFORD BNI-1 |
| Protective Metal Alloys, Inc. | VERSAlloy #75 |
| Wall Colmonoy Corporation | Nicrobraz 125 |

BNI-1a

| SOURCE | PRODUCT |
|-------------------------------------|--------------------------------|
| AlliedSignal Inc., Amorphous Metals | MBF-10A Amorphous Brazing Foil |
| American Welding Alloys | AWA BNI-1a |
| Astrolite Alloys | Astrolite BNI-1a |
| LANCASTER ALLOYS COMPANY | LAC 4776 |
| Lucas-Milhaupt, Inc. | Hi-Temp 721 |
| Oxford Alloys, Inc. | OXFORD BNI-1a |
| Protective Metal Alloys, Inc. | VERSAlloy #76 |
| Wall Colmonoy Corporation | Nicrobraz LC |

BNI-2

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------------|
| AlliedSignal Inc., Amorphous Metals | MBF-20 Amorphous Brazing Foil |
| American Welding Alloys | AWA BNI-2 |
| Astrolite Alloys | Astrolite BNI-2 |
| LANCASTER ALLOYS COMPANY | LAC 4777 |
| Lucas-Milhaupt, Inc. | Hi-Temp 820 |
| Oxford Alloys, Inc. | OXFORD BNI-2 |
| Protective Metal Alloys, Inc. | VERSAlloy #77 |
| Wall Colmonoy Corporation | Nicrobraz LM |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BNI-3

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------------|
| AlliedSignal Inc., Amorphous Metals | MBF-30 Amorphous Brazing Foil |
| American Welding Alloys | AWA BNI-3 |
| Astrolite Alloys | Astrolite BNI-3 |
| LANCASTER ALLOYS COMPANY | LAC 4778 |
| Lucas-Milhaupt, Inc. | Hi-Temp 910 |
| Oxford Alloys, Inc. | OXFORD BNI-3 |
| Protective Metal Alloys, Inc. | VERSAlloy #78 |
| Wall Colmonoy Corporation | Nicrobraz 130 |

BNI-4

| SOURCE | PRODUCT |
|---------------------------------|-----------------|
| American Welding Alloys | AWA BNI-4 |
| Astrolite Alloys | Astrolite BNI-4 |
| LANCASTER ALLOYS COMPANY | LAC 4779 |
| Lucas-Milhaupt, Inc. | Hi-Temp 930 |
| Oxford Alloys, Inc. | OXFORD BNI-4 |
| Protective Metal Alloys, Inc. | VERSAlloy #79 |
| Wall Colmonoy Corporation | Nicrobraz 135 |

BNI-5

| SOURCE | PRODUCT |
|---------------------------------|-----------------|
| American Welding Alloys | AWA BNI-5 |
| Astrolite Alloys | Astrolite BNI-5 |
| LANCASTER ALLOYS COMPANY | LAC 4782 |
| Lucas-Milhaupt, Inc. | Hi-Temp 710 |
| Oxford Alloys, Inc. | OXFORD BNI-5 |
| Protective Metal Alloys, Inc. | VERSAlloy #82 |
| Wall Colmonoy Corporation | Nicrobraz 30 |

BNI-5a

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------------|
| AlliedSignal Inc., Amorphous Metals | MBF-50 Amorphous Brazing Foil |
| American Welding Alloys | AWA BNI-5a |
| Oxford Alloys, Inc. | OXFORD BNI-5a |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BNi-6

| SOURCE | PRODUCT |
|-------------------------------------|--------------------------------------|
| AlliedSignal Inc., Amorphous Metals | MBF-60 Amorphous Brazing Foil |
| American Welding Alloys | AWA BNi-6 |
| Astrolite Alloys | Astrolite BNi-6 |
| Lucas-Milhaupt, Inc. | BNi-6 |
| Oxford Alloys, Inc. | OXFORD BNi-6 |
| Protective Metal Alloys, Inc. | VERSAlloy #1610 |
| Wall Colmonoy Corporation | Nicrobraz 10 |

BNi-7

| SOURCE | PRODUCT |
|-------------------------------------|--------------------------------------|
| AlliedSignal Inc., Amorphous Metals | MBF-65 Amorphous Brazing Foil |
| American Welding Alloys | AWA BNi-7 |
| Astrolite Alloys | Astrolite BNi-7 |
| Lucas-Milhaupt, Inc. | BNi-7 |
| Oxford Alloys, Inc. | OXFORD BNi-7 |
| Protective Metal Alloys, Inc. | VERSAlloy #1630 |
| Wall Colmonoy Corporation | Nicrobraz 50 |

BNi-8

| SOURCE | PRODUCT |
|-------------------------------|------------------------|
| American Welding Alloys | AWA BNi-8 |
| Astrolite Alloys | Astrolite BNi-8 |
| Oxford Alloys, Inc. | OXFORD BNi-8 |
| Protective Metal Alloys, Inc. | VERSAlloy #1850 |

BNi-9

| SOURCE | PRODUCT |
|---------------------------|-----------------|
| American Welding Alloys | AWA BNi-9 |
| Astrolite Alloys | Astrolite BNi-9 |
| Wall Colmonoy Corporation | Nicrobraz 150 |

BNi-10

| SOURCE | PRODUCT |
|---------------------------|------------------|
| Astrolite Alloys | Astrolite BNi-10 |
| Wall Colmonoy Corporation | Nicrobraz 170 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BNI-11

| SOURCE | PRODUCT |
|---------------------------|------------------|
| Astrolite Alloys | Astrolite BNI-11 |
| Wall Colmonoy Corporation | Nicrobraz 171 |

BCo-1

| SOURCE | PRODUCT |
|-------------------------------|-----------------|
| Astrolite Alloys | Astrolite BCo-1 |
| Oxford Alloys, Inc. | OXFORD BCo-1 |
| Protective Metal Alloys, Inc. | VERSAlloy #83 |
| Wall Colmonoy Corporation | Nicrobraz 210 |

BVAg-0

| SOURCE | PRODUCT |
|----------------------|------------------|
| Astrolite Alloys | Astrolite BVAg-0 |
| Lucas-Milhaupt, Inc. | Braze 999 |
| Oxford Alloys, Inc. | OXFORD BVAg-0 |

BVAg-6b

| SOURCE | PRODUCT |
|----------------------|-------------------|
| Astrolite Alloys | Astrolite BVAg-6b |
| Lucas-Milhaupt, Inc. | Braze 503 |
| Oxford Alloys, Inc. | OXFORD BVAg-6b |

BVAg-8

| SOURCE | PRODUCT |
|----------------------|------------------|
| Astrolite Alloys | Astrolite BVAg-8 |
| Lucas-Milhaupt, Inc. | Braze 721 |
| Oxford Alloys, Inc. | OXFORD BVAg-8 |

BVAg-8b

| SOURCE | PRODUCT |
|----------------------|-------------------|
| Astrolite Alloys | Astrolite BVAg-8b |
| Lucas-Milhaupt, Inc. | Braze 716 |
| Oxford Alloys, Inc. | OXFORD BVAg-8b |

BVAg-18

| SOURCE | PRODUCT |
|------------------|-------------------|
| Astrolite Alloys | Astrolite BVAg-18 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BVAg-18 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------|----------------|
| Lucas-Milhaupt, Inc. | Braze 604 |
| Oxford Alloys, Inc. | OXFORD BVAg-18 |

BVAg-29

| SOURCE | PRODUCT |
|----------------------|-------------------|
| Astrolite Alloys | Astrolite BVAg-29 |
| Lucas-Milhaupt, Inc. | Premabraz 616 |
| Oxford Alloys, Inc. | OXFORD BVAg-29 |

BVAg-30

| SOURCE | PRODUCT |
|----------------------|-------------------|
| Astrolite Alloys | Astrolite BVAg-30 |
| Lucas-Milhaupt, Inc. | Premabraz 680 |
| Oxford Alloys, Inc. | OXFORD BVAg-30 |

BVAg-31

| SOURCE | PRODUCT |
|----------------------|-------------------|
| Astrolite Alloys | Astrolite BVAg-31 |
| Lucas-Milhaupt, Inc. | Premabraz 580 |
| Oxford Alloys, Inc. | OXFORD BVAg-31 |

BVAg-32

| SOURCE | PRODUCT |
|----------------------|-------------------|
| Astrolite Alloys | Astrolite BVAg-32 |
| Lucas-Milhaupt, Inc. | Premabraz 540 |
| Oxford Alloys, Inc. | OXFORD BVAg-32 |

BVAu-2

| SOURCE | PRODUCT |
|----------------------|------------------|
| Astrolite Alloys | Astrolite BVAu-2 |
| Lucas-Milhaupt, Inc. | Premabraz 403 |
| Oxford Alloys, Inc. | OXFORD BVAu-2 |

BVAu-4

| SOURCE | PRODUCT |
|----------------------|------------------|
| Astrolite Alloys | Astrolite BVAu-4 |
| Lucas-Milhaupt, Inc. | Premabraz 131 |

A5.8-92, BRAZING Filler Metals

See ANSI/AWS A5.8-92, Specification for Filler Metals for Brazing

BVAu-4 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------|----------------|
| Oxford Alloys, Inc. | OXFORD BVAu-4 |

BVAu-7

| SOURCE | PRODUCT |
|----------------------|------------------|
| Astrolite Alloys | Astrolite BVAu-7 |
| Lucas-Milhaupt, Inc. | Premabraze 500 |
| Oxford Alloys, Inc. | OXFORD BVAu-7 |

BVAu-8

| SOURCE | PRODUCT |
|----------------------|------------------|
| Astrolite Alloys | Astrolite BVAu-8 |
| Lucas-Milhaupt, Inc. | Premabraze 920 |
| Oxford Alloys, Inc. | OXFORD BVAu-8 |

BVPd-1

| SOURCE | PRODUCT |
|---------------------|----------------|
| Oxford Alloys, Inc. | OXFORD BVPd-1 |

BVCu-1X

| SOURCE | PRODUCT |
|----------------------|--------------------|
| Astrolite Alloys | Astrolite BVCu-1X |
| Lucas-Milhaupt, Inc. | Oxygen Free Copper |
| Oxford Alloys, Inc. | OXFORD BVCu-1X |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER209

| SOURCE | PRODUCT |
|-----------------------------------|------------------|
| American Welding Alloys | AWA 209 |
| Arcos Alloys | Arcos ER209 |
| Astrolite Alloys | Astrolite ER209 |
| Euroweld, Ltd. | ER209 |
| LANCASTER ALLOYS COMPANY | LAC S135 |
| Oxford Alloys, Inc. | OXFORD ER209 |
| UNITED STATES WELDING CORPORATION | TURBALOY 22-13-5 |
| Washington Alloy Company | 209, Nitro 50 |
| WELDWIRE COMPANY INC. | WW 209 |

ER218

| SOURCE | PRODUCT |
|-----------------------------------|-----------------|
| American Welding Alloys | AWA 218 |
| Arcos Alloys | Arcos ER218 |
| Astrolite Alloys | Astrolite ER218 |
| LANCASTER ALLOYS COMPANY | LAC S136 |
| Oxford Alloys, Inc. | OXFORD ER218 |
| UNITED STATES WELDING CORPORATION | TURBALOY 60 |
| Washington Alloy Company | 218, Nitro 60 |
| WELDWIRE COMPANY INC. | WW 218 |

ER219

| SOURCE | PRODUCT |
|-----------------------------------|-----------------|
| American Welding Alloys | AWA 219 |
| Arcos Alloys | Arcos ER219 |
| Astrolite Alloys | Astrolite ER219 |
| LANCASTER ALLOYS COMPANY | LAC 5656 |
| Oxford Alloys, Inc. | OXFORD ER219 |
| UNITED STATES WELDING CORPORATION | TURBALOY 21-6-9 |
| Washington Alloy Company | 219, Nitro 40 |
| WELDWIRE COMPANY INC. | WW 219 |

ER240

| SOURCE | PRODUCT |
|-------------------------|-----------------|
| American Welding Alloys | AWA 240 |
| Astrolite Alloys | Astrolite ER240 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER240 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|---------------|
| Oxford Alloys, Inc. | OXFORD ER240 |
| UNITED STATES WELDING CORPORATION | TURBALOY 35 |
| Washington Alloy Company | 240, Nitro 35 |
| WELDWIRE COMPANY INC. | WW 240 |

ER307

| SOURCE | PRODUCT |
|--|----------------------------------|
| American Welding Alloys | AWA 307 |
| Arcos Alloys | Arcos ER307 |
| Avesta Welding Products Inc. | AVESTA 307 |
| ELGA AB | CROMATIG 307 Si, CROMAMIG 307 Si |
| ESAB AB | OK Autrod 16.95 |
| Euroweld, Ltd. | ER18-8-8 |
| EXSA S.A. - División Fontargen | FON A 107 MIG, FON A 107 TIG |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 307 Si |
| LANCASTER ALLOYS COMPANY | LAC S191 |
| Lincoln Electric Co. | LNM 307 |
| Midalloy, Inc. | Midalloy ER307Si |
| Nassau Research Corp. | Gemini Tig |
| Oxford Alloys, Inc. | OXFORD ER307 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 308Mn |
| Techalloy Company, Inc. | Techalloy 307 |
| Washington Alloy Company | USA 307 |
| WELDWIRE COMPANY INC. | WW 307 |

ER308

| SOURCE | PRODUCT |
|---------------------------------------|-----------------------|
| All-State Welding Products | 308 |
| American Filler Metals Company | AFM 308 |
| American Welding Alloys | AWA 308 |
| Arcos Alloys | Arcos ER308 |
| Astrolite Alloys | Astrolite ER308 |
| Avesta Welding Products Inc. | AVESTA 308 |
| Champion Welding Products | CHAMPION ER308 |
| Crown Alloys Company | Crown 308 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER308 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--|
| Dytron Corporation | 308 |
| Gulf Wire Corporation | ER308 |
| HARRIS WELCO | WELCO ER308 |
| HYUNDAI WELDING PRODUCTS, INC. | ST-308 TIG, SM-308 MIG |
| Inweld Corporation | INWELD 308 |
| Kobe Steel, LTD. | MGS-308, TGS-308, US-308 |
| LANCASTER ALLOYS COMPANY | LAC S109 |
| Lincoln Electric Co. | Lincoln ER308/308L, Blue Max S308/308L |
| McKay Welding Products | MCKAY 308/308H |
| Messer - MG Systems & Welding Inc. | SS308 |
| Midalloy, Inc. | Midalloy ER308 |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-308 |
| NATWELD | ER308 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 308, TIG 308 |
| NOF Corporation | TG308, AT308, MG308 |
| Oxford Alloys, Inc. | OXFORD ER308 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER308 |
| SOWESCO | Pinnacle Alloys ER308 |
| Stoody Company - Thermadyne Industries | Stoody 308 |
| Techalloy Company, Inc. | Techalloy 308 |
| UNITED STATES WELDING CORPORATION | TURBALOY 308 |
| Uniweld Products, Inc. | STAIN TIG 308, STAIN MIG 308 |
| Washington Alloy Company | USA 308 |
| Weld Mold Company | 308 |
| WELDWIRE COMPANY INC. | WW 308 |

ER308H

| SOURCE | PRODUCT |
|-------------------------------------|--------------------|
| American Filler Metals Company | AFM 308H |
| American Welding Alloys | AWA 308H |
| Arcos Alloys | Arcos ER308H |
| Astrolite Alloys | Astrolite ER308H |
| Avesta Welding Products Inc. | AVESTA 308H |
| Bohler Thyssen Welding USA, Inc. | UTP A6820 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER308H (Continued from previous page)

| SOURCE | PRODUCT |
|--|----------------------------|
| Champion Welding Products | CHAMPION ER308H |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER308/308H |
| Euroweld, Ltd. | ER308H |
| Inweld Corporation | INWELD 308H |
| LANCASTER ALLOYS COMPANY | LAC S139 |
| Lincoln Electric Co. | LNLM/LNT 304H |
| McKay Welding Products | MCKAY 308/308H |
| Messer - MG Systems & Welding Inc. | SS308H |
| Midalloy, Inc. | Midalloy ER308H |
| Nassau Research Corp. | Gemini Tig |
| NATWELD | ER308H |
| Nippon Welding Rod Co., Ltd. | WEL MIG 308HTS, TIG 308HTS |
| NOF Corporation | TG308F, AT308F, MG308F |
| Oxford Alloys, Inc. | OXFORD ER308H |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER308H |
| SOWESCO | Pinnacle Alloys ER308H |
| Washington Alloy Company | USA 308H |
| WELDWIRE COMPANY INC. | WW 308H |

ER308L

| SOURCE | PRODUCT |
|---------------------------------------|--|
| All-State Welding Products | 308L |
| American Filler Metals Company | AFM 308L |
| American Welding Alloys | AWA 308L |
| Arcos Alloys | Arcos ER308L |
| Arctec Alloys Limited | ARCTEC ER308L |
| Astrolite Alloys | Astrolite ER308L |
| Avesta Welding Products Inc. | AVESTA 308L |
| Bohler Thyssen Welding USA, Inc. | UTP A6820 LC, Thyssen JE |
| Champion Welding Products | CHAMPION ER308L |
| Chosun Steel Wire Company | TGC-308L |
| Crown Alloys Company | Crown 308L |
| Dytron Corporation | 308L |
| ELGA AB | CROMATIG 308 L, CROMASAW 308 L |
| ESAB AB | OK Band 11.61, OK Autrod 16.10, Tigrod 16.10 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER308L (Continued from previous page)

| SOURCE | PRODUCT |
|--|---|
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER308L |
| Euroweld, Ltd. | ER308L |
| EXSA S.A. - División Soldaduras OERLIKON | INOXFIL PS 19/9, TIGFIL 19/9 |
| EXSA S.A.- División Fontargen | FON A 120 MIG, FON A 120 TIG |
| Gulf Wire Corporation | ER308L |
| HARRIS WELCO | WELCO ER308L |
| HYUNDAI WELDING PRODUCTS, INC. | ST-308L TIG, SM-308L MIG |
| Inweld Corporation | INWELD 308L |
| Kobe Steel, LTD. | TGS-308L, US-308L, TGS-308ULC |
| LANCASTER ALLOYS COMPANY | LAC S102 |
| Lincoln Electric Co. | Lincoln ER308/308L, Blue Max S308/308L, LNT 304L |
| McKay Welding Products | MCKAY 308/308L |
| Messer - MG Systems & Welding Inc. | SS308L |
| Midalloy, Inc. | Midalloy ER308L |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-308L |
| NATWELD | ER308L |
| Nippon Welding Rod Co., Ltd. | WEL MIG 308L, 308ULC, TIG 308L, 308ULC |
| NOF Corporation | TG308L, 308L2, 308L1, 308ULC, 308ULC-R, AT308L, 308L2, 308ULC, 308ULC-R, MG308L, 308L2, 308L1 |
| Oxford Alloys, Inc. | OXFORD ER308L |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER308L |
| Sodel Ltd | Sodel ER 308L |
| SOWESCO | Pinnacle Alloys ER308L |
| Stoody Company - Thermadyne Industries | Stoody 308L |
| Techalloy Company, Inc. | Techalloy 308L |
| UNITED STATES WELDING CORPORATION | TURBALOY 308L |
| Uniweld Products, Inc. | STAINTIG 308L, STAINMIG 308L, SUBARC 308L |
| Washington Alloy Company | USA 308L |
| Weld Mold Company | 308L |
| WELDWIRE COMPANY INC. | WW 308L |

ER308Mo

| SOURCE | PRODUCT |
|-------------------------|-----------|
| American Welding Alloys | AWA 308Mo |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER308Mo (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------------|-------------------------|
| Arcos Alloys | Arcos ER308Mo |
| Astrolite Alloys | Astrolite ER308Mo |
| Champion Welding Products | CHAMPION ER308Mo |
| Nassau Research Corp. | Gemini Tig |

ER308LMo

| SOURCE | PRODUCT |
|---------------------------------------|--------------------------|
| American Filler Metals Company | AFM 308LMo |
| American Welding Alloys | AWA 308LMo |
| Arcos Alloys | Arcos ER308LMo |
| Avesta Welding Products Inc. | AVESTA 308LMo |
| Champion Welding Products | CHAMPION ER308LMo |
| Nassau Research Corp. | Gemini Tig |

ER308Si

| SOURCE | PRODUCT |
|--|-------------------------|
| American Welding Alloys | AWA 308Si |
| Arcos Alloys | Arcos ER308Si |
| Astrolite Alloys | Astrolite ER308Si |
| Champion Welding Products | CHAMPION ER308Si |
| Lincoln Electric Co. | Blue Max MIG 308LSi |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-308HS |
| NOF Corporation | MG308Si |
| Oxford Alloys, Inc. | OXFORD ER308Si |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER308Si |
| WELDWIRE COMPANY INC. | WW 308Si |

ER308LSi

| SOURCE | PRODUCT |
|---------------------------------------|----------------------|
| All-State Welding Products | 308L HI SIL |
| American Filler Metals Company | AFM 308LHS |
| American Welding Alloys | AWA 308LSi |
| Arcos Alloys | Arcos ER308LSi |
| Astrolite Alloys | Astrolite ER308LSi |
| Avesta Welding Products Inc. | AVESTA 308LSi |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER308LSi (Continued from previous page)

| SOURCE | PRODUCT |
|--|-------------------------------------|
| Bohler Thyssen Welding USA, Inc. | Thyssen JE Si |
| Champion Welding Products | CHAMPION ER308LSi |
| Chosun Steel Wire Company | UC308LSi |
| Crown Alloys Company | Crown 308LSi |
| Dytron Corporation | 308LSi |
| ELGA AB | CROMATIG 308 LSi, CROMAMIG 308 LSi |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER308LSi |
| Gulf Wire Corporation | ER308LSi |
| HARRIS WELCO | WELCO ER308LSi |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 308 LSi |
| Inweld Corporation | INWELD 308LSi |
| Kobe Steel, LTD. | MGS-308LS |
| Lincoln Electric Co. | Blue Max MIG 308LSi, LNM/LNT 304LSi |
| McKay Welding Products | MCKAY 308L HiSi |
| Messer - MG Systems & Welding Inc. | SS308LSi |
| Midalloy, Inc. | Midalloy ER308LSi |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-308LHS |
| NATWELD | ER308L Hi Si |
| Nippon Welding Rod Co., Ltd. | WEL MIG 308LSi |
| NOF Corporation | MG308LSi |
| Oxford Alloys, Inc. | OXFORD ER308LSi |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER308LSi |
| Sodel Ltd | Sodel ER 308L-HiSi |
| SOWESCO | Pinnacle Alloys ER308LSi |
| Stoody Company - Thermadyne Industries | Stoody 308L Hi Si |
| Techalloy Company, Inc. | Techalloy 308LHS |
| Uniweld Products, Inc. | STAINMIG 308LSi, STAINMIG 308LSi |
| Washington Alloy Company | USA 308L-HiSi |
| WELDWIRE COMPANY INC. | WW 308LSi |

ER309

| SOURCE | PRODUCT |
|--------------------------------|---------|
| All-State Welding Products | 309 |
| American Filler Metals Company | AFM 309 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER309 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--|
| American Welding Alloys | AWA 309 |
| Arcos Alloys | Arcos ER309 |
| Astrolite Alloys | Astrolite ER309 |
| Avesta Welding Products Inc. | AVESTA 309 |
| Bohler Thyssen Welding USA, Inc. | UTP A6824 |
| Champion Welding Products | CHAMPION ER309 |
| Crown Alloys Company | Crown 309 |
| Dytron Corporation | 309 |
| HARRIS WELCO | WELCO ER309 |
| HYUNDAI WELDING PRODUCTS, INC. | ST-309 TIG, SM-309 MIG |
| Inweld Corporation | INWELD 309 |
| Kobe Steel, LTD. | MGS-309, TGS-309, US-309 |
| LANCASTER ALLOYS COMPANY | LAC S115 |
| Lincoln Electric Co. | Lincoln ER309/309L, Blue Max S309/309L |
| McKay Welding Products | MCKAY 309 |
| Messer - MG Systems & Welding Inc. | SS309 |
| Midalloy, Inc. | Midalloy ER309 |
| Nassau Research Corp. | Brutus Tig |
| National-Standard | NS-309 |
| NATWELD | ER309 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 309, TIG 309 |
| NOF Corporation | TG309, AT309, MG309 |
| Oxford Alloys, Inc. | OXFORD ER309 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER309 |
| SOWESCO | Pinnacle Alloys ER309 |
| Stoody Company - Thermadyne Industries | Stoody 309 |
| Techalloy Company, Inc. | Techalloy 309 |
| UNITED STATES WELDING CORPORATION | TURBALOY 309 |
| Uniweld Products, Inc. | STAINTIG 309, STAINMIG 309 |
| Washington Alloy Company | USA 309 |
| Weld Mold Company | 309 |
| WELDWIRE COMPANY INC. | WW 309 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER309L

| SOURCE | PRODUCT |
|--|--|
| All-State Welding Products | 309L |
| American Filler Metals Company | AFM 309L |
| American Welding Alloys | AWA 309L |
| Arcos Alloys | Arcos ER309L |
| Arctec Alloys Limited | ARCTEC ER309L |
| Astrolite Alloys | Astrolite ER309L |
| Avesta Welding Products Inc. | AVESTA 309L |
| Bohler Thyssen Welding USA, Inc. | UTP A6824 LC, Thyssen 25/14E |
| Champion Welding Products | CHAMPION ER309L |
| Chosun Steel Wire Company | TGC-309L |
| Crown Alloys Company | Crown 309L |
| Dytron Corporation | 309L |
| ELGA AB | CROMATIG 309 L, CROMASAW 309 L |
| ESAB AB | OK Band 11.65, Autrod 16.53, Tigrod 16.53 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER309L |
| Gulf Wire Corporation | ER309L |
| HARRIS WELCO | WELCO ER309L |
| HYUNDAI WELDING PRODUCTS, INC. | ST-309L TIG, SM-309L MIG |
| Inweld Corporation | INWELD 309L |
| Kobe Steel, LTD. | TGS-309L, US-309L |
| LANCASTER ALLOYS COMPANY | LAC S116 |
| Lincoln Electric Co. | Lincoln ER309/309L, Blue Max S309/309L, LNM/LNT 309LHF, LNS 309L |
| McKay Welding Products | MCKAY 309/309L |
| Messer - MG Systems & Welding Inc. | SS309L |
| Midalloy, Inc. | Midalloy ER309L |
| Nassau Research Corp. | Brutus Tig |
| National-Standard | NS-309L |
| NATWELD | ER309L |
| Nippon Welding Rod Co., Ltd. | WEL MIG 309L, TIG 309L |
| NOF Corporation | TG309L, AT309L, MG309L |
| Oxford Alloys, Inc. | OXFORD ER309L |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER309L |
| Sodel Ltd | Sodel ER 309L |
| SOWESCO | Pinnacle Alloys ER309L |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER309L (Continued from previous page)

| SOURCE | PRODUCT |
|--|---|
| Stoody Company - Thermadyne Industries | Stoody 309L |
| Techalloy Company, Inc. | Techalloy 309L |
| UNITED STATES WELDING CORPORATION | TURBALOY 309L |
| Uniweld Products, Inc. | STAIN TIG 309L, STAIN MIG 309L, SUBARC 309L |
| Washington Alloy Company | USA 309L |
| Weld Mold Company | 309L |
| WELDWIRE COMPANY INC. | WW 309L |

ER309Mo

| SOURCE | PRODUCT |
|--|--------------------------|
| American Welding Alloys | AWA 309Mo |
| Arcos Alloys | Arcos ER309Mo |
| Nassau Research Corp. | Brutus Tig |
| Nippon Welding Rod Co., Ltd. | WEL MIG 309Mo, TIG 309Mo |
| NOF Corporation | TG309Mo |
| Oxford Alloys, Inc. | OXFORD ER309Mo |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER309Mo |

ER309LMo

| SOURCE | PRODUCT |
|--|----------------------------|
| American Filler Metals Company | AFM 309LMo |
| American Welding Alloys | AWA 309LMo |
| Arcos Alloys | Arcos ER309LMo |
| Avesta Welding Products Inc. | AVESTA P5 |
| Euroweld, Ltd. | ER309MoL |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 309L Mo |
| LANCASTER ALLOYS COMPANY | LAC S179 |
| Midalloy, Inc. | Midalloy ER309LMo |
| Nassau Research Corp. | Brutus Tig |
| Nippon Welding Rod Co., Ltd. | WEL MIG 309MoL, TIG 309MoL |
| NOF Corporation | TG309MoL |
| Oxford Alloys, Inc. | OXFORD ER309LMo |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER309LMo |
| SOWESCO | Pinnacle Alloys ER309LMo |
| Stoody Company - Thermadyne Industries | Stoody 309MoL |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER309LMo (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|------------------|
| Techalloy Company, Inc. | Techalloy 309LMo |
| Washington Alloy Company | USA 309LMo |
| WELDWIRE COMPANY INC. | WW 309LMo |

ER309Si

| SOURCE | PRODUCT |
|-------------------------------------|-----------------------------------|
| American Welding Alloys | AWA 309Si |
| Arcos Alloys | Arcos ER309Si |
| Avesta Welding Products Inc. | AVESTA 309Si |
| Champion Welding Products | CHAMPION ER309LHS, ER309HS |
| ESAB AB | OK Autrod 16.12, Tigrod 16.12 |
| Lincoln Electric Co. | Blue Max MIG 309LSi |
| Nassau Research Corp. | Brutus Tig |
| National-Standard | NS-309HS |
| NOF Corporation | MG309LSi |
| Oxford Alloys, Inc. | OXFORD ER309Si |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER309Si |
| WELDWIRE COMPANY INC. | WW 309Si |

ER309LSi

| SOURCE | PRODUCT |
|-------------------------------------|----------------------|
| American Filler Metals Company | AFM 309LHS |
| American Welding Alloys | AWA 309LSi |
| Arcos Alloys | Arcos ER309LSi |
| Avesta Welding Products Inc. | AVESTA 309LSi |
| Chosun Steel Wire Company | UC-309LSi |
| Crown Alloys Company | Crown 309LSi |
| ELGA AB | CROMAMIG 309 LSi |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER309LSi |
| Gulf Wire Corporation | ER309LSi |
| HARRIS WELCO | WELCO ER309LSi |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 309 LSi |
| Inweld Corporation | INWELD 309LSi |
| Kobe Steel, LTD. | MGS-309LS |
| Lincoln Electric Co. | Blue Max MIG 309LSi |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER309LSi (Continued from previous page)

| SOURCE | PRODUCT |
|--|--------------------------|
| McKay Welding Products | MCKAY 309L HiSi |
| Messer - MG Systems & Welding Inc. | SS309LSi |
| Midalloy, Inc. | Midalloy ER309LSi |
| Nassau Research Corp. | Brutus Tig |
| National-Standard | NS-309LHS |
| NATWELD | ER309L Hi Si |
| Nippon Welding Rod Co., Ltd. | WEL MIG 309LSi |
| NOF Corporation | MG309LSi |
| Oxford Alloys, Inc. | OXFORD ER309LSi |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER309LSi |
| Sodel Ltd | Sodel ER 309L-HiSi |
| SOWESCO | Pinnacle Alloys ER309LSi |
| Techalloy Company, Inc. | Techalloy 309LHS |
| Uniweld Products, Inc. | STAINMIG 309LSi |
| Washington Alloy Company | USA 309L-HiSi |
| WELDWIRE COMPANY INC. | WW 309LSi |

ER310

| SOURCE | PRODUCT |
|--|--------------------------------|
| All-State Welding Products | 310 |
| American Filler Metals Company | AFM 310 |
| American Welding Alloys | AWA 310 |
| Arcos Alloys | Arcos ER310 |
| Astrolite Alloys | Astrolite ER310 |
| Avesta Welding Products Inc. | AVESTA 310 |
| Bohler Thyssen Welding USA, Inc. | UTP A68H |
| Champion Welding Products | CHAMPION ER310 |
| Crown Alloys Company | Crown 310 |
| Dytron Corporation | 310 |
| ELGA AB | CROMATIG 310, CROMAMIG 310 |
| ESAB AB | OK Autrod 16.70, Tigrod 16.70 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER310 |
| EXSA S.A. - División Soldaduras OERLIKON | Inoxfil PS-25/20, Tigfil 25/20 |
| EXSA S.A.- División Fontargen | FON A 122 MIG, FON A 122 TIG |
| Gulf Wire Corporation | ER310 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER310 (Continued from previous page)

| SOURCE | PRODUCT |
|--|----------------------------|
| HARRIS WELCO | WELCO ER310 |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 310 |
| HYUNDAI WELDING PRODUCTS, INC. | ST-310 TIG, SM-310 MIG |
| Inweld Corporation | INWELD 310 |
| Kobe Steel, LTD. | TGS-310 |
| LANCASTER ALLOYS COMPANY | LAC 5694 |
| Lincoln Electric Co. | LNMLNT 310 |
| Messer - MG Systems & Welding Inc. | SS310 |
| Midalloy, Inc. | Midalloy ER310 |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-310 |
| NATWELD | ER310 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 310, TIG 310 |
| NOF Corporation | TG310, MG310, AT310 |
| Oxford Alloys, Inc. | OXFORD ER310 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER310 |
| Sodel Ltd | Sodel ER 310 |
| SOWESCO | Pinnacle Alloys ER310 |
| Techalloy Company, Inc. | Techalloy 310 |
| UNITED STATES WELDING CORPORATION | TURBALOY 310 |
| Uniweld Products, Inc. | STAINTIG 310, STAINMIG 310 |
| Washington Alloy Company | USA 310 |
| Weld Mold Company | 310 |
| WELDWIRE COMPANY INC. | WW 310 |

ER312

| SOURCE | PRODUCT |
|---------------------------------------|-----------------------|
| All-State Welding Products | 312 |
| American Filler Metals Company | AFM 312 |
| American Welding Alloys | AWA 312 |
| Arcos Alloys | Arcos ER312 |
| Astrolite Alloys | Astrolite ER312 |
| Avesta Welding Products Inc. | AVESTA P7 |
| Champion Welding Products | CHAMPION ER312 |
| Cronatron Welding Systems | Cronaweld ER 312 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER312 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--|
| Crown Alloys Company | Crown 312 |
| Dytron Corporation | 312 |
| ELGA AB | CROMATIG 312, CROMAMIG 312, CROMASAW 312 |
| ESAB AB | OK Autrod 16.75, Tigrod 16.75 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER312 |
| Euroweld, Ltd. | ER312 |
| EXSA S.A. - División Soldaduras OERLIKON | TIGFILL 29/9 |
| EXSA S.A.- División Fontargen | FON A 106 MIG, FON A 106 TIG |
| Gulf Wire Corporation | ER312 |
| HARRIS WELCO | WELCO ER312 |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 312 |
| Inweld Corporation | INWELD 312 |
| LANCASTER ALLOYS COMPANY | LAC 5784 |
| Midalloy, Inc. | Midalloy ER312 |
| Nassau Research Corp. | Brutus Tig |
| National-Standard | NS-312 |
| NATWELD | ER312 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 312, TIG 312 |
| NOF Corporation | TG312, MG312 |
| Oxford Alloys, Inc. | OXFORD ER312 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER312 |
| SOWESCO | Pinnacle Alloys ER312 |
| Stoody Company - Thermadyne Industries | Stoody 312 |
| Techalloy Company, Inc. | Techalloy 312 |
| UNITED STATES WELDING CORPORATION | TURBALOY 312 |
| Uniweld Products, Inc. | STAINTIG 312, STAINMIG 312 |
| Washington Alloy Company | USA 312 |
| Weld Mold Company | 312 |
| WELDWIRE COMPANY INC. | WW 312 |

ER316

| SOURCE | PRODUCT |
|---------------------------------------|----------------|
| All-State Welding Products | 316 |
| American Filler Metals Company | AFM 316 |
| American Welding Alloys | AWA 316 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER316 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--|
| Arcos Alloys | Arcos ER316 |
| Astrolite Alloys | Astrolite ER316 |
| Avesta Welding Products Inc. | AVESTA 316 |
| Champion Welding Products | CHAMPION ER316 |
| Crown Alloys Company | Crown 316 |
| Dytron Corporation | 316 |
| Gulf Wire Corporation | ER316 |
| HARRIS WELCO | WELCO ER316 |
| HYUNDAI WELDING PRODUCTS, INC. | ST-316 TIG, SM316 MIG |
| Inweld Corporation | INWELD 316 |
| Kobe Steel, LTD. | TGS-316, US-316 |
| LANCASTER ALLOYS COMPANY | LAC 5692 |
| Lincoln Electric Co. | Lincoln ER316/316L, Blue Max S316/316L |
| McKay Welding Products | MCKAY 316/316H |
| Messer - MG Systems & Welding Inc. | SS316 |
| Midalloy, Inc. | Midalloy ER316 |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-316 |
| NATWELD | ER316 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 316, TIG 316 |
| NOF Corporation | TG316, 316FR, AT316, MG316 |
| Oxford Alloys, Inc. | OXFORD ER316 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER316 |
| SOWESCO | Pinnacle Alloys ER316 |
| Stoody Company - Thermadyne Industries | Stoody 316 |
| Techalloy Company, Inc. | Techalloy 316/316H |
| UNITED STATES WELDING CORPORATION | TURBALOY 316 |
| Uniweld Products, Inc. | STAIN TIG 316, STAIN MIG 316 |
| Washington Alloy Company | USA 316 |
| Weld Mold Company | 316 |
| WELDWIRE COMPANY INC. | WW 316 |

ER316H

| SOURCE | PRODUCT |
|--------------------------------|----------|
| American Filler Metals Company | AFM 316H |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER316H (Continued from previous page)

| SOURCE | PRODUCT |
|--|---------------------------|
| American Welding Alloys | AWA 316H |
| Arcos Alloys | Arcos ER316H |
| Astrolite Alloys | Astrolite ER316H |
| Avesta Welding Products Inc. | AVESTA 316H |
| Bohler Thyssen Welding USA, Inc. | UTP A6820 Mo |
| Champion Welding Products | CHAMPION ER316H |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER316/316H |
| Inweld Corporation | INWELD 316H |
| McKay Welding Products | MCKAY 316/316H |
| Messer - MG Systems & Welding Inc. | SS316H |
| Midalloy, Inc. | Midalloy ER316H |
| Nassau Research Corp. | Gemini Tig |
| NATWELD | ER316H |
| Oxford Alloys, Inc. | OXFORD ER316H |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER316H |
| SOWESCO | Pinnacle Alloys ER316H |
| Techalloy Company, Inc. | Techalloy 316/316H |
| Washington Alloy Company | USA 316H |
| WELDWIRE COMPANY INC. | WW 316H |

ER316L

| SOURCE | PRODUCT |
|---------------------------------------|--|
| All-State Welding Products | 316L |
| American Filler Metals Company | AFM 316L |
| American Welding Alloys | AWA 316L |
| Arcos Alloys | Arcos ER316L |
| Arctec Alloys Limited | ARCTEC ER316L |
| Astrolite Alloys | Astrolite ER316L |
| Avesta Welding Products Inc. | AVESTA 316L |
| Bohler Thyssen Welding USA, Inc. | UTP A6820 Mo LC, Thyssen GE |
| Champion Welding Products | CHAMPION ER316L |
| Chosun Steel Wire Company | TGC-316L |
| Crown Alloys Company | Crown 316L |
| Dytron Corporation | 316L |
| ELGA AB | CROMATIG 316 L, CROMAMIG 316 L, CROMASAW 316 L |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER316L (Continued from previous page)

| SOURCE | PRODUCT |
|--|--|
| ESAB AB | OK Band 11.63, OK Autrod 16.30, Tigrod 16.30 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER316L |
| Euroweld, Ltd. | ER316L |
| EXSA S.A. - División Soldaduras OERLIKON | INOXFIL PS 20/10 Mo, TIGFILL 20/10 Mo |
| EXSA S.A.- División Fontargen | FON A 121 MIG, FON A 121 TIG |
| HARRIS WELCO | WELCO ER316L |
| HYUNDAI WELDING PRODUCTS, INC. | ST-316L TIG, SM316L MIG |
| Inweld Corporation | INWELD 316L |
| Kobe Steel, LTD. | TGS-316L, TGS-316ULC, US-316L |
| LANCASTER ALLOYS COMPANY | LAC S103 |
| Lincoln Electric Co. | Lincoln ER316/316L, Blue Max S316/316L, LNT 316L, LNS 316L |
| McKay Welding Products | MCKAY 316/316L |
| Messer - MG Systems & Welding Inc. | SS316L |
| Midalloy, Inc. | Midalloy ER316L |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-316L |
| NATWELD | ER316L |
| Nippon Welding Rod Co., Ltd. | WEL MIG 316L, 316ULC, TIG 316L, 316ULC |
| NOF Corporation | TG316L, 316L1, 316L2, 316ULC, 316ULC-R, AT316L, 316L1, 316L2, 316ULC, 316ULC-R, MG316L, 316L1, 316L2 |
| Oxford Alloys, Inc. | OXFORD ER316L |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER316L |
| Sodel Ltd | Sodel ER 316L |
| SOWESCO | Pinnacle Alloys ER316L |
| Stoody Company - Thermadyne Industries | Stoody 316L |
| Techalloy Company, Inc. | Techalloy 316L |
| UNITED STATES WELDING CORPORATION | TURBALOY 316L |
| Uniweld Products, Inc. | STAIN TIG 316L, STAIN MIG 316L, SUBARC 316L |
| Washington Alloy Company | USA 316L |
| Weld Mold Company | 316L |
| WELDWIRE COMPANY INC. | WW 316L |

ER316Si

| SOURCE | PRODUCT |
|-------------------------|-----------|
| American Welding Alloys | AWA 316Si |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER316Si (Continued from previous page)

| SOURCE | PRODUCT |
|--|-------------------------|
| Arcos Alloys | Arcos ER316Si |
| Astrolite Alloys | Astrolite ER316Si |
| Champion Welding Products | CHAMPION ER316Si |
| Lincoln Electric Co. | Blue Max MIG 316LSi |
| Nassau Research Corp. | Gemini Tig |
| NOF Corporation | MG316Si |
| Oxford Alloys, Inc. | OXFORD ER316Si |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER316Si |
| WELDWIRE COMPANY INC. | WW 316Si |

ER316LSi

| SOURCE | PRODUCT |
|---------------------------------------|-------------------------------------|
| All-State Welding Products | 316L HI SIL |
| American Filler Metals Company | AFM 316LHS |
| American Welding Alloys | AWA 316LSi |
| Arcos Alloys | Arcos ER316LSi |
| Astrolite Alloys | Astrolite ER316LSi |
| Avesta Welding Products Inc. | AVESTA 316LSi |
| Bohler Thyssen Welding USA, Inc. | Thyssen GE Si |
| Champion Welding Products | CHAMPION ER316L-HS |
| Chosun Steel Wire Company | UC-316LSi |
| Cronatron Welding Systems | Cronaweld ER 316LSi |
| Crown Alloys Company | Crown 316LSi |
| Dytron Corporation | 316LSi |
| ELGA AB | CROMATIG 316 LSi, CROMAMIG 316 LSi |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER316LSi |
| Gulf Wire Corporation | ER316LSi |
| HARRIS WELCO | WELCO ER316LSi |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 316 LSi |
| Inweld Corporation | INWELD 316LSi |
| Kobe Steel, LTD. | MGS-316LS |
| Lincoln Electric Co. | Blue Max MIG 316LSi, LNM/LNT 316LSi |
| McKay Welding Products | MCKAY 316L HiSi |
| Messer - MG Systems & Welding Inc. | SS316LSi |
| Midalloy, Inc. | Midalloy Er316LSi |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER316LSi (Continued from previous page)

| SOURCE | PRODUCT |
|--|----------------------------------|
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-316LHS |
| NATWELD | ER316L Hi Sil |
| Nippon Welding Rod Co., Ltd. | WEL MIG 316LSi |
| NOF Corporation | MG316LSi |
| Oxford Alloys, Inc. | OXFORD ER316LSi |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER316LSi |
| Sodel Ltd | Sodel ER 316L-HiSil |
| SOWESCO | Pinnacle Alloys ER316LSi |
| Stoody Company - Thermadyne Industries | Stoody 316L Hi Sil |
| Techalloy Company, Inc. | Techalloy 316LHS |
| Uniweld Products, Inc. | STAINTIG 316LSi, STAINMIG 316LSi |
| Washington Alloy Company | USA 316L-HiSil |
| WELDWIRE COMPANY INC. | WW 316LSi |

ER317

| SOURCE | PRODUCT |
|--|-----------------------|
| American Filler Metals Company | AFM 317 |
| American Welding Alloys | AWA 317 |
| Arcos Alloys | Arcos ER317 |
| Astrolite Alloys | Astrolite ER317 |
| Champion Welding Products | CHAMPION ER317 |
| Crown Alloys Company | Crown 317 |
| Dytron Corporation | 317 |
| Gulf Wire Corporation | ER317 |
| Inweld Corporation | INWELD 317 |
| LANCASTER ALLOYS COMPANY | LAC S192 |
| Nassau Research Corp. | Gemini Tig |
| Oxford Alloys, Inc. | OXFORD ER317 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER317 |
| Stoody Company - Thermadyne Industries | Stoody 317L |
| Washington Alloy Company | USA 317 |
| WELDWIRE COMPANY INC. | WW 317 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

| ER317L | |
|--|--|
| SOURCE | PRODUCT |
| American Filler Metals Company | AFM 317L |
| American Welding Alloys | AWA 317L |
| Arcos Alloys | Arcos ER317L |
| Arctec Alloys Limited | ARCTEC ER317L |
| Astrolite Alloys | Astrolite ER317L |
| Avesta Welding Products Inc. | AVESTA 317L |
| Bohler Thyssen Welding USA, Inc. | UTP A317 LC Titan |
| Champion Welding Products | CHAMPION ER317L |
| Crown Alloys Company | Crown 317L |
| Dytron Corporation | 317L |
| ELGA AB | CROMATIG 317 L, CROMAMIG 317 L, CROMASAW 317 L |
| ESAB AB | OK Autrod 16.34 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER317L |
| Euroweld, Ltd. | ER317L |
| HARRIS WELCO | WELCO ER317L |
| Inweld Corporation | INWELD 317L |
| Kobe Steel, LTD. | TGS-317L, US317L |
| LANCASTER ALLOYS COMPANY | LAC S193 |
| Messer - MG Systems & Welding Inc. | SS317L |
| Midalloy, Inc. | Midalloy ER317L |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-317L |
| NATWELD | ER317L |
| Nippon Welding Rod Co., Ltd. | WEL MIG 317L, TIG 317L |
| NOF Corporation | TG317L, 317L2, MG317L, 317L2, AT317L, 317L2 |
| Oxford Alloys, Inc. | OXFORD ER317L |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER317L |
| Sodel Ltd | Sodel ER 317L |
| SOWESCO | Pinnacle Alloys ER317L |
| Techalloy Company, Inc. | Techalloy 317L |
| Uniweld Products, Inc. | STAINTIG 317L, STAINMIG 317L |
| Washington Alloy Company | USA 317L |
| Weld Mold Company | 317L |
| WELDWIRE COMPANY INC. | WW 317L |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER318

| SOURCE | PRODUCT |
|--|----------------------|
| American Welding Alloys | AWA 318 |
| Avesta Welding Products Inc. | AVESTA 318 |
| Euroweld, Ltd. | ER318 |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 318 Si |
| LANCASTER ALLOYS COMPANY | LAC S194 |
| Lincoln Electric Co. | LNM/LNT 318Si |
| Lincoln Electric Co. | LNS 318 |
| Nassau Research Corp. | Gemini Tig |
| Nippon Welding Rod Co., Ltd. | WEL MIG 318, TIG 318 |
| NOF Corporation | TG318, MG318 |
| Oxford Alloys, Inc. | OXFORD ER318 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER318 |
| Techalloy Company, Inc. | Techalloy 318 |
| Washington Alloy Company | USA 318 |
| WELDWIRE COMPANY INC. | WW 318 |

ER320

| SOURCE | PRODUCT |
|---------------------------------------|----------------------------|
| American Filler Metals Company | AFM 320 |
| American Welding Alloys | AWA 320 |
| Arcos Alloys | Arcos ER320 |
| Astrolite Alloys | Astrolite ER320 |
| Champion Welding Products | CHAMPION ER320 |
| Cronatron Welding Systems | Cronaweld ER 320 |
| Crown Alloys Company | Crown 320 |
| Inweld Corporation | ER 320 |
| LANCASTER ALLOYS COMPANY | LAC S133 |
| Nassau Research Corp. | Gemini Tig |
| Oxford Alloys, Inc. | OXFORD ER320 |
| SOWESCO | Pinnacle Alloys ER320 |
| Techalloy Company, Inc. | Techalloy 320 |
| Uniweld Products, Inc. | STAINMIG 320, STAINMIG 320 |
| Washington Alloy Company | USA 320 |
| Weld Mold Company | 3320 |
| WELDWIRE COMPANY INC. | WW 320 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER320LR

| SOURCE | PRODUCT |
|---------------------------------|--------------------------------|
| American Filler Metals Company | AFM 320LR |
| American Welding Alloys | AWA 320LR |
| Arcos Alloys | Arcos ER320LR |
| Champion Welding Products | CHAMPION ER320 LR |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER320LR |
| Euroweld, Ltd. | ER320LR |
| Inweld Corporation | INWELD 320LR |
| LANCASTER ALLOYS COMPANY | LAC S195 |
| Midalloy, Inc. | Midalloy ER320LR |
| Nassau Research Corp. | Gemini Tig |
| Nippon Welding Rod Co., Ltd. | WEL MIG 320LR, TIG 320LR |
| Oxford Alloys, Inc. | OXFORD ER320LR |
| SOWESCO | Pinnacle Alloys ER320LR |
| Techalloy Company, Inc. | Techalloy 320LR |
| Uniweld Products, Inc. | STAINTIG 320LR, STAINMIG 320LR |
| Washington Alloy Company | USA 320LR |
| WELDWIRE COMPANY INC. | WW 320LR |

ER321

| SOURCE | PRODUCT |
|-----------------------------------|-----------------|
| American Filler Metals Company | AFM 321 |
| American Welding Alloys | AWA 321 |
| Astrolite Alloys | Astrolite ER321 |
| Inweld Corporation | INWELD 321 |
| LANCASTER ALLOYS COMPANY | LAC 5689 |
| Nassau Research Corp. | Gemini Tig |
| Oxford Alloys, Inc. | OXFORD ER321 |
| UNITED STATES WELDING CORPORATION | TURBALOY 321 |
| Washington Alloy Company | USA 321 |
| WELDWIRE COMPANY INC. | WW 321 |

ER330

| SOURCE | PRODUCT |
|--------------------------------|---------|
| American Filler Metals Company | AFM 330 |
| American Welding Alloys | AWA 330 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER330 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------------|------------------------------|
| Arcos Alloys | Arcos ER330 |
| Astrolite Alloys | Astrolite ER330 |
| Champion Welding Products | CHAMPION ER330 |
| Crown Alloys Company | Crown 330 |
| Dytron Corporation | 330 |
| Inweld Corporation | INWELD 330 |
| LANCASTER ALLOYS COMPANY | LAC S147 |
| Midalloy, Inc. | Midalloy ER330 |
| Nassau Research Corp. | Gemini Tig |
| Nippon Welding Rod Co., Ltd. | WEL MIG 330, TIG 330 |
| NOF Corporation | TG330, MG330 |
| Oxford Alloys, Inc. | OXFORD ER330 |
| Techalloy Company, Inc. | Techalloy 330 |
| Uniweld Products, Inc. | STAIN TIG 330, STAIN MIG 330 |
| Washington Alloy Company | USA 330 |
| Weld Mold Company | 330 |
| WELDWIRE COMPANY INC. | WW 330 |

ER347

| SOURCE | PRODUCT |
|--|--|
| All-State Welding Products | 347 |
| American Filler Metals Company | AFM 347 |
| American Welding Alloys | AWA 347 |
| Arcos Alloys | Arcos ER347 |
| Astrolite Alloys | Astrolite ER347 |
| Avesta Welding Products Inc. | AVESTA 347 |
| Bohler Thyssen Welding USA, Inc. | UTP A6820 Nb, Thyssen HE |
| Champion Welding Products | CHAMPION ER347 |
| Crown Alloys Company | Crown 347 |
| Dytron Corporation | 347 |
| ELGA AB | CROMATIG 347 |
| ESAB AB | OK Band 11.62, OK Autrod 16.11, Tigrod 16.11 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY ER347 |
| Gulf Wire Corporation | ER347 |
| HARRIS WELCO | WELCO ER347 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER347 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--|
| Inweld Corporation | INWELD 347 |
| Kobe Steel, LTD. | TGS-347, TGS-347L, US-347 |
| LANCASTER ALLOYS COMPANY | LAC 5680 |
| Lincoln Electric Co. | LNS 347 |
| McKay Welding Products | MCKAY 347 |
| Messer - MG Systems & Welding Inc. | SS347 |
| Midalloy, Inc. | Midalloy ER347 |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-347/347AMS |
| NATWELD | ER347 / AMS 5680 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 347, 347L, TIG 347, 347L |
| NOF Corporation | TG347, 347HT, TG347L, MG347, 347HT, AT347, 347HT |
| Oxford Alloys, Inc. | OXFORD ER347 |
| Polymet Corporation | PMet 347 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 347 |
| Sodel Ltd | Sodel ER 347 |
| SOWESCO | Pinnacle Alloys ER347 |
| Stoody Company - Thermadyne Industries | Stoody 347 |
| Techalloy Company, Inc. | Techalloy 347 |
| UNITED STATES WELDING CORPORATION | TURBALOY 347 |
| Uniweld Products, Inc. | STAIN TIG 347 |
| Washington Alloy Company | USA 347 |
| Weld Mold Company | 347 |
| WELDWIRE COMPANY INC. | WW 347 |

ER347SI

| SOURCE | PRODUCT |
|---------------------------------------|----------------------------------|
| American Filler Metals Company | AFM 347HS |
| American Welding Alloys | AWA 347Si |
| Arcos Alloys | Arcos ER347Si |
| ELGA AB | CROMATIG 347 Si, CROMAMIG 347 Si |
| ESAB AB | OK Autrod 16.11, Tigrod 16.11 |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 347 Si |
| Inweld Corporation | INWELD 347SI |
| Kobe Steel, LTD. | MGS-347S, MGS-347LS |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER347Si (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------------|----------------|
| Lincoln Electric Co. | LNM/LNT 347Si |
| Messer - MG Systems & Welding Inc. | SS347Si |
| Nassau Research Corp. | Gemini Tig |
| Nippon Welding Rod Co., Ltd. | WEL MIG 347Si |
| NOF Corporation | MG347Si |
| Oxford Alloys, Inc. | OXFORD ER347Si |
| Rigby-Maryland (Stainless) Ltd. | RIMA 347Si |
| Uniweld Products, Inc. | STAINMIG 347Si |
| Washington Alloy Company | USA 347L-HiSi |
| WELDWIRE COMPANY INC. | WW 347Si |

ER383

| SOURCE | PRODUCT |
|---------------------------------|---------------|
| American Welding Alloys | AWA 383 |
| Euroweld, Ltd. | ER383 |
| Oxford Alloys, Inc. | OXFORD ER383 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 28 |
| Techalloy Company, Inc. | Techalloy 383 |
| WELDWIRE COMPANY INC. | WW 383 |

ER385

| SOURCE | PRODUCT |
|----------------------------------|-------------------------------|
| American Filler Metals Company | AFM 385 |
| American Welding Alloys | AWA 385 |
| Avesta Welding Products Inc. | AVESTA 904L |
| Bohler Thyssen Welding USA, Inc. | Thyssen 20/25 Cu |
| ESAB AB | OK Autrod 16.55, Tigrod 16.55 |
| Euroweld, Ltd. | ER385 |
| Inweld Corporation | INWELD 385 |
| Lincoln Electric Co. | LNM/LNT 4500 |
| Midalloy, Inc. | Midalloy ER385 |
| National-Standard | NS-904L |
| Oxford Alloys, Inc. | OXFORD ER385 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 904L |
| SOWESCO | Pinnacle Alloys ER385 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER385 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|---------------|
| Techalloy Company, Inc. | Techalloy 385 |
| Washington Alloy Company | USA 904L |
| WELDWIRE COMPANY INC. | WW 385 |

ER409

| SOURCE | PRODUCT |
|--------------------------------|------------------|
| American Filler Metals Company | AFM 409 |
| American Welding Alloys | AWA 409, AWA EF4 |
| Crown Alloys Company | Crown 409 |
| Gulf Wire Corporation | ER409 |
| Washington Alloy Company | USA 409 |
| WELDWIRE COMPANY INC. | WW 409 |

ER409Cb

| SOURCE | PRODUCT |
|---------------------------------|--------------------------------|
| American Filler Metals Company | AFM 409Cb |
| American Welding Alloys | AWA 409Cb |
| Arcos Alloys | Arcos ER409Cb |
| Astrolite Alloys | Astrolite ER409Cb |
| Crown Alloys Company | Crown 409Cb |
| Gulf Wire Corporation | ER409Cb |
| Inweld Corporation | INWELD 409Cb |
| Midalloy, Inc. | Midalloy ER309Cb |
| National-Standard | NS-409Cb |
| Oxford Alloys, Inc. | OXFORD ER409Cb |
| Rigby-Maryland (Stainless) Ltd. | RIMA 409Nb |
| SOWESCO | Pinnacle Alloys ER409Cb |
| Techalloy Company, Inc. | Techalloy 409Cb |
| Uniweld Products, Inc. | STAINMIG 409Cb, STAINMIG 409Cb |
| Washington Alloy Company | USA 409Cb |
| WELDWIRE COMPANY INC. | WW 409Cb |

ER410

| SOURCE | PRODUCT |
|--------------------------------|---------|
| American Filler Metals Company | AFM 410 |
| American Welding Alloys | AWA 410 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER410 (Continued from previous page)

| SOURCE | PRODUCT |
|--|---------------------------------|
| Arcos Alloys | Arcos ER410 |
| Astrolite Alloys | Astrolite ER410 |
| Avesta Welding Products Inc. | AVESTA R410 |
| Bohler Thyssen Welding USA, Inc. | UTP A66 |
| Crown Alloys Company | Crown 410 |
| Dytron Corporation | 410 |
| EXSA S.A. - División Soldaduras OERLIKON | INOXFIL PS 13 Cr, TIGFILL 13 Cr |
| Gulf Wire Corporation | ER410 |
| HARRIS WELCO | WELCO ER410 |
| Inweld Corporation | INWELD 410 |
| Kobe Steel, LTD. | MGS-410, TGS-410 |
| LANCASTER ALLOYS COMPANY | LAC 5776 |
| McKay Welding Products | MCKAY 410 |
| Midalloy, Inc. | Midalloy ER410 |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-410 |
| NATWELD | ER410 / AMS 5776 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 410, TIG 410 |
| NOF Corporation | TG410, MG410 |
| Oxford Alloys, Inc. | OXFORD ER410 |
| Polymet Corporation | PMet 410 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER410 |
| Sodel Ltd | Sodel ER 410 |
| SOWESCO | Pinnacle Alloys ER410 |
| Stoody Company - Thermadyne Industries | Stoody 410S |
| Techalloy Company, Inc. | Techalloy 410 |
| UNITED STATES WELDING CORPORATION | TURBALOY 410 |
| Uniweld Products, Inc. | STAIN TIG 410, STAIN MIG 410 |
| Washington Alloy Company | USA 410 |
| Weld Mold Company | 410 |
| WELDWIRE COMPANY INC. | WW 410 |

ER410NiMo

| SOURCE | PRODUCT |
|--------------------------------|-------------|
| American Filler Metals Company | AFM 410NiMo |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER410NiMo (Continued from previous page)

| SOURCE | PRODUCT |
|--|------------------------------------|
| American Welding Alloys | AWA 410NiMo |
| Arcos Alloys | Arcos ER410NiMo |
| Astrolite Alloys | Astrolite ER410NiMo |
| Bohler Thyssen Welding USA, Inc. | UTP ER410 NiMo |
| Champion Welding Products | CHAMPION ER410NiMo |
| Euroweld, Ltd. | ER410NiMo |
| EXSA S.A. - División Soldaduras OERLIKON | INOXFIL PS 13/4, TIGFIL 13/4 |
| EXSA S.A.- División Fontargen | FON A 127/4 MIG, FON A 127/4 TIG |
| Inweld Corporation | INWELD 410NiMo |
| LANCASTER ALLOYS COMPANY | LAC S183 |
| Midalloy, Inc. | Midalloy ER410NiMo |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-410NiMo |
| NATWELD | ER410NiMo |
| Nippon Welding Rod Co., Ltd. | WEL TIG 410NiMo |
| Oxford Alloys, Inc. | OXFORD ER410NiMo |
| Rigby-Maryland (Stainless) Ltd. | RIMA Er410NiMo |
| SOWESCO | Pinnacle Alloys ER410NiMo |
| Stoody Company - Thermadyne Industries | Stoody ER410NiMo |
| Techalloy Company, Inc. | Techalloy 410 NiMo |
| Uniweld Products, Inc. | STAINTIG 410NiMo, STAINMIG 410NiMo |
| Washington Alloy Company | USA 410NiMo |
| Weld Mold Company | 410NiMo |
| WELDWIRE COMPANY INC. | WW 410NiMo |

ER420

| SOURCE | PRODUCT |
|---------------------------------------|------------------------------|
| American Filler Metals Company | AFM 420 |
| American Welding Alloys | AWA 420 |
| Astrolite Alloys | Astrolite ER420 |
| Champion Welding Products | CHAMPION ER410, ER420 |
| Crown Alloys Company | Crown 420 |
| Dytron Corporation | 420 |
| Inweld Corporation | INWELD 420 |
| LANCASTER ALLOYS COMPANY | LAC S148 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER420 (Continued from previous page)

| SOURCE | PRODUCT |
|--|------------------------------|
| Nassau Research Corp. | Gemini Tig |
| Oxford Alloys, Inc. | OXFORD ER420 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER420 |
| SOWESCO | Pinnacle Alloys ER420 |
| Stoody Company - Thermadyne Industries | Stoody 420 |
| Techalloy Company, Inc. | Techalloy 420 |
| UNITED STATES WELDING CORPORATION | TURBALOY 420 |
| Uniweld Products, Inc. | STAIN TIG 420, STAIN MIG 420 |
| Washington Alloy Company | USA 420 |
| Weld Mold Company | 420 |
| WELDWIRE COMPANY INC. | WW 420 |

ER430

| SOURCE | PRODUCT |
|--|------------------------------|
| American Filler Metals Company | AFM 430 |
| American Welding Alloys | AWA 430 |
| Arcos Alloys | Arcos ER430 |
| Astrolite Alloys | Astrolite ER430 |
| Champion Welding Products | CHAMPION ER430 |
| Dytron Corporation | 430 |
| Inweld Corporation | INWELD 430 |
| LANCASTER ALLOYS COMPANY | LAC S180 |
| Midalloy, Inc. | Midalloy ER430 |
| Nassau Research Corp. | Gemini Tig |
| National-Standard | NS-430L |
| Nippon Welding Rod Co., Ltd. | WEL MIG 430, TIG 430 |
| NOF Corporation | TG430, MG430 |
| Oxford Alloys, Inc. | OXFORD ER430 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER430 |
| Sodel Ltd | Sodel ER 430 |
| Stoody Company - Thermadyne Industries | Stoody 430 |
| Techalloy Company, Inc. | Techalloy 430 |
| UNITED STATES WELDING CORPORATION | TURBALOY 430 |
| Uniweld Products, Inc. | STAIN TIG 430, STAIN MIG 430 |
| Washington Alloy Company | USA 430 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

| ER430 (Continued from previous page) | |
|---|-------------------------------|
| SOURCE | PRODUCT |
| Weld Mold Company | 430 |
| WELDWIRE COMPANY INC. | WW 430 |
| ER446LMo | |
| SOURCE | PRODUCT |
| Oxford Alloys, Inc. | OXFORD ER446LMo |
| ER502 | |
| SOURCE | PRODUCT |
| American Filler Metals Company | AFM 502 |
| American Welding Alloys | AWA 502 |
| Arcos Alloys | Arcos ER502 |
| Astrolite Alloys | Astrolite ER502 |
| Champion Welding Products | CHAMPION ER502 |
| Dytron Corporation | 502 |
| ELGA AB | ELGATIG 185 CR |
| ESAB AB | OK Autrod 13.32, Tigrod 13.32 |
| Euroweld, Ltd. | ER502 |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG CrMo5 |
| Inweld Corporation | INWELD 502 |
| Kobe Steel, LTD. | MGS-5CM, TGS-5CM |
| LANCASTER ALLOYS COMPANY | LAC 6466 |
| Lincoln Electric Co. | LNМ/LNT 502 |
| Midalloy, Inc. | Midalloy ER502 |
| NATWELD | ER502 |
| Oxford Alloys, Inc. | OXFORD ER502 |
| SOWESCO | Pinnacle Alloys ER502 |
| Techalloy Company, Inc. | Techalloy 502 |
| UNITED STATES WELDING CORPORATION | TURBALOY 502 |
| Uniweld Products, Inc. | UNICHROME 502 |
| Washington Alloy Company | USA 502 |
| Weld Mold Company | 502 |
| WELDWIRE COMPANY INC. | WW 502 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER505

| SOURCE | PRODUCT |
|-----------------------------------|-------------------------------|
| American Filler Metals Company | AFM 505 |
| American Welding Alloys | AWA 505 |
| Arcos Alloys | Arcos ER505 |
| Astrolite Alloys | Astrolite ER505 |
| Champion Welding Products | CHAMPION ER505 |
| Dytron Corporation | 505 |
| ESAB AB | OK Autrod 13.38, Tigrod 13.38 |
| Euroweld, Ltd. | ER505 Mod |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG CrMo9 |
| Inweld Corporation | INWELD 505 |
| Kobe Steel, LTD. | MGS-9CM, TGS-9CM |
| LANCASTER ALLOYS COMPANY | LAC S119 |
| Midalloy, Inc. | Midalloy ER505 |
| NATWELD | ER505 |
| Oxford Alloys, Inc. | OXFORD ER505 |
| Polymet Corporation | PMet 703 |
| SOWESCO | Pinnacle Alloys ER505 |
| Techalloy Company, Inc. | Techalloy 505 |
| UNITED STATES WELDING CORPORATION | TURBALOY 505 |
| Uniweld Products, Inc. | UNICHROME 505 |
| Washington Alloy Company | USA 505 |
| Weld Mold Company | 505 |
| WELDWIRE COMPANY INC. | WW 505 |

ER630

| SOURCE | PRODUCT |
|----------------------------------|------------------------|
| American Filler Metals Company | AFM 630 |
| American Welding Alloys | AWA 630 |
| Arcos Alloys | Arcos ER630 |
| Astrolite Alloys | Astrolite ER630 (17-4) |
| Bohler Thyssen Welding USA, Inc. | UTP ER630 |
| Champion Welding Products | CHAMPION ER630 |
| Crown Alloys Company | Crown 630 |
| Dytron Corporation | 630 |
| HARRIS WELCO | WELCO ER630 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER630 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--------------------------|
| Inweld Corporation | INWELD 630 |
| Kobe Steel, LTD. | TGS-630 |
| LANCASTER ALLOYS COMPANY | LAC 5825 |
| Midalloy, Inc. | Midalloy ER630 |
| National-Standard | NS-17-4PH |
| NATWELD | 17-4 PH |
| Nippon Welding Rod Co., Ltd. | WEL MIG 630, TIG 630 |
| NOF Corporation | TG630, MG630 |
| Oxford Alloys, Inc. | OXFORD ER630 |
| Polymet Corporation | PMet 717 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 17/4 PH |
| SOWESCO | Pinnacle Alloys ER630 |
| Techalloy Company, Inc. | Techalloy 630 |
| UNITED STATES WELDING CORPORATION | TURBALOY 17-4 |
| Washington Alloy Company | USA 630 (17/4 PH) |
| Weld Mold Company | 305 |
| WELDWIRE COMPANY INC. | WW 630 |

ER19-10H

| SOURCE | PRODUCT |
|----------------------------|------------------------|
| Euroweld, Ltd. | E19-10H |
| Oxford Alloys, Inc. | OXFORD ER19-10H |

ER16-8-2

| SOURCE | PRODUCT |
|----------------------------------|------------------------------|
| American Welding Alloys | AWA 16-8-2 |
| Arcos Alloys | Arcos ER16-8-2 |
| Champion Welding Products | CHAMPION ER16-8-2 |
| Euroweld, Ltd. | ER16-8-2 |
| Inweld Corporation | INWELD 16-8-2 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 16-8-2, TIG 16-8-2 |
| NOF Corporation | TG16-8-2, MG16-8-2, AT16-8-2 |
| Oxford Alloys, Inc. | OXFORD ER16-8-2 |
| Washington Alloy Company | USA 16-8-2 |
| WELDWIRE COMPANY INC. | WW 16-8-2 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

ER2209

| SOURCE | PRODUCT |
|--|---|
| American Filler Metals Company | AFM 2209 |
| American Welding Alloys | AWA 2209 |
| Avesta Welding Products Inc. | AVESTA 2205 |
| Bohler Thyssen Welding USA, Inc. | UTP A6808 Mo, Thyssen 22/09 |
| Dytron Corporation | 2209 |
| ELGA AB | CROMAMIG DUPLEX, CROMASAW DUPLEX |
| ESAB AB | OK Autrod 16.86, 16.88, Tigrod 16.86, 16.88 |
| Euroweld, Ltd. | ER2209 |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 2209 Duplex |
| Inweld Corporation | INWELD 2209 |
| LANCASTER ALLOYS COMPANY | LAC S196 |
| Lincoln Electric Co. | LNMLNT 4462 |
| Midalloy, Inc. | Midalloy ER2209 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 329J3L, TIG 329J3L |
| NOF Corporation | TG329J3L, 329J3L |
| Oxford Alloys, Inc. | OXFORD ER2209 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 22.9.3.L |
| Sodel Ltd | Sodel Mig 2293L, Sodel Tig 2293L |
| SOWESCO | Pinnacle Alloys ER2209 |
| Techalloy Company, Inc. | Techalloy 2209 |
| Washington Alloy Company | USA 2209 |

ER2553

| SOURCE | PRODUCT |
|--------------------------------|-----------------------------|
| American Filler Metals Company | AFM 2553 |
| American Welding Alloys | AWA 2553 |
| CORROSION MATERIALS INC. | FERRALIUM 255 |
| Euroweld, Ltd. | ER2553 |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 2553 Super Duplex |
| Midalloy, Inc. | Midalloy ER2553 |
| Oxford Alloys, Inc. | OXFORD ER2553 |
| Washington Alloy Company | TN 2553 |
| Weld Mold Company | 2553 |
| WELDWIRE COMPANY INC. | WW 2553 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

| ER3556 | |
|--------------------------------|------------------|
| SOURCE | PRODUCT |
| American Filler Metals Company | AFM 3556 |
| American Welding Alloys | AWA 3556 |
| Haynes International, Inc. | HAYNES 556 alloy |
| Oxford Alloys, Inc. | OXFORD ER3556 |

| EC308L | |
|--|-----------------------------|
| SOURCE | PRODUCT |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY MC308L |
| EXSA S.A. - División Soldaduras OERLIKON | Inoxfil PS-19/9, Tigfil 199 |
| NOF Corporation | MC308L |
| Oxford Alloys, Inc. | OXFORD EC308L |

| EC309 | |
|-----------------------|----------------|
| SOURCE | PRODUCT |
| Gulf Wire Corporation | ER309 |

| EC309L | |
|---------------------------------|----------------|
| SOURCE | PRODUCT |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY MC309L |
| NOF Corporation | MC309L |
| Oxford Alloys, Inc. | OXFORD EC309L |

| EC309LMo | |
|-----------------|----------------|
| SOURCE | PRODUCT |
| NOF Corporation | MC309MoL |

| EC312 | |
|---------------------------------|----------------|
| SOURCE | PRODUCT |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY MC312 |

| EC316L | |
|---------------------------------|----------------|
| SOURCE | PRODUCT |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY MC316L |
| Gulf Wire Corporation | ER316L |
| NOF Corporation | MC316L |
| Oxford Alloys, Inc. | OXFORD EC316L |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

| EC317L | |
|----------------------------------|-----------------------------|
| SOURCE | PRODUCT |
| Gulf Wire Corporation | ER317L |
| Oxford Alloys, Inc. | OXFORD EC317L |
| EC347 | |
| SOURCE | PRODUCT |
| NOF Corporation | MC347, MC347HT |
| Oxford Alloys, Inc. | OXFORD EC347 |
| EC409 | |
| SOURCE | PRODUCT |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 409Ti, 409Cb |
| Hobart Welding Products | FABLOY 409 |
| Lincoln Electric Co. | Outershield MC-409, MC-409W |
| National-Standard | TRU-COR NS 409TiC |
| Oxford Alloys, Inc. | OXFORD EC409 |
| Select-Arc, Inc. | Select 409C, Select 409C-Ti |
| EC409Cb | |
| SOURCE | PRODUCT |
| Select-Arc, Inc. | Select 409C-Cb |
| EC2209 | |
| SOURCE | PRODUCT |
| ELGA AB | CROMATIG DUPLEX |
| EQ307 | |
| SOURCE | PRODUCT |
| Bohler Thyssen Welding USA, Inc. | Soudotape 307 |
| Euroweld, Ltd. | Feromix EQ307 |
| EQ308L | |
| SOURCE | PRODUCT |
| Bohler Thyssen Welding USA, Inc. | Soudotape 308L, 21.11 L |
| ESAB AB | OK Band 11.61 |
| Euroweld, Ltd. | Feromix EQ308L |
| Oxford Alloys, Inc. | OXFORD 308L |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

EQ309L

| SOURCE | PRODUCT |
|----------------------------------|----------------------|
| Bohler Thyssen Welding USA, Inc. | Soudotape 309L |
| ESAB AB | OK Band 11.65, 11.71 |
| Euroweld, Ltd. | Feromix EQ309L |
| Oxford Alloys, Inc. | OXFORD 309L |

EQ309LMo

| SOURCE | PRODUCT |
|----------------|------------------|
| ESAB AB | OK Band 11.73 |
| Euroweld, Ltd. | Feromix EQ309LMo |

EQ310

| SOURCE | PRODUCT |
|----------------------------------|-----------------------|
| Bohler Thyssen Welding USA, Inc. | Soudotape 310, 310 Mo |

EQ312

| SOURCE | PRODUCT |
|----------------|---------------|
| Euroweld, Ltd. | Feromix EQ312 |

EQ316L

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| Bohler Thyssen Welding USA, Inc. | Soudotape 316L, 21.13.3L |
| ESAB AB | OK Band 11.63 |
| Euroweld, Ltd. | Feromix EQ316L |
| Oxford Alloys, Inc. | OXFORD 316L |

EQ317L

| SOURCE | PRODUCT |
|----------------------------------|----------------|
| Bohler Thyssen Welding USA, Inc. | Soudotape 317L |
| Euroweld, Ltd. | Feromix EQ317L |

EQ318

| SOURCE | PRODUCT |
|----------------------------------|---------------|
| Bohler Thyssen Welding USA, Inc. | Soudotape 318 |

EQ347

| SOURCE | PRODUCT |
|----------------------------------|-------------------------------------|
| Bohler Thyssen Welding USA, Inc. | Soudotape 347, 21.11 LNb, 24.12 LNb |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

EQ347 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------|---------------|
| ESAB AB | OK Band 11.62 |
| Oxford Alloys, Inc. | OXFORD 347 |

EQ383

| SOURCE | PRODUCT |
|----------------|---------------|
| Euroweld, Ltd. | Feromix EQ383 |

EQ385

| SOURCE | PRODUCT |
|----------------|---------------|
| Euroweld, Ltd. | Feromix EQ385 |

EQ410

| SOURCE | PRODUCT |
|----------------------------------|---------------|
| Bohler Thyssen Welding USA, Inc. | Soudotape 410 |
| Euroweld, Ltd. | Feromix EQ410 |
| Oxford Alloys, Inc. | OXFORD 410 |

EQ410NiMo

| SOURCE | PRODUCT |
|----------------|-------------------|
| Euroweld, Ltd. | Feromix EQ410NiMo |

EQ430

| SOURCE | PRODUCT |
|----------------------------------|---------------|
| Bohler Thyssen Welding USA, Inc. | Soudotape 430 |
| ESAB AB | OK Band 11.82 |
| Euroweld, Ltd. | Feromix EQ430 |
| Oxford Alloys, Inc. | OXFORD 430 |

EQ505

| SOURCE | PRODUCT |
|----------------|---------------|
| Euroweld, Ltd. | Feromix EQ505 |

EQ16-8-2

| SOURCE | PRODUCT |
|----------------|------------------|
| Euroweld, Ltd. | Feromix EQ16-8-2 |

A5.9-93, STAINLESS STEEL Bare, Cored and Stranded Electrodes

See ANSI/AWS A5.9-93, Specification for Bare Stainless Steel Welding Electrodes and Rods

| EQ2209 | |
|----------------------------------|-------------------|
| SOURCE | PRODUCT |
| Bohler Thyssen Welding USA, Inc. | Soudotape 22.6.3L |
| Euroweld, Ltd. | Feromix EQ2209 |
| Oxford Alloys, Inc. | OXFORD 2209 |

| EQ2553 | |
|----------------|----------------|
| SOURCE | PRODUCT |
| Euroweld, Ltd. | Feromix EQ2553 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

ER1100

| SOURCE | PRODUCT |
|--|------------------------------------|
| AlcoTec Wire Corporation | Almigweld ER1100 |
| All-State Welding Products | 1100 |
| American Filler Metals Company | AFM 1100 |
| American Welding Alloys | AWA 1100 |
| Arctec Alloys Limited | ARCTEC ER1100 |
| Astrolite Alloys | Astrolite ER1100 |
| Crown Alloys Company | Crown ER1100 |
| Dytron Corporation | 1100 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 1100 HQ |
| EXSA S.A. - División Soldaduras OERLIKON | Nertalic 10 |
| EXSA S.A.- División Fontargen | FON A 400, FON A 400 MIG |
| Gulf Wire Corporation | ER110 |
| HARRIS WELCO | WELCO ER1100 |
| HILARIUS HAARLEM HOLLAND BV | HILCO AL 99,5, Fluxcored Aluminium |
| Indura S.A. Industria y Comercio | INDURA 25 |
| Inweld Corporation | INWELD 1100 |
| Kobe Steel, LTD. | KOBE-A1100-WY, KOBE A1100-BY |
| LANCASTER ALLOYS COMPANY | LAC 4180 |
| Lincoln Electric Co. | LNM/LNT Al 99.5, SuperGlaze 1100 |
| Nippon Welding Rod Co., Ltd. | WEL MIG A 1100-WY |
| NOF Corporation | TG1100, MG1100 |
| Oxford Alloys, Inc. | OXFORD ER1100 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER1100 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 1100 |
| Uniweld Products, Inc. | ALUMATIG 1100, ALUMAMIG 1100 |
| Washington Alloy Company | 1100 |
| WELDWIRE COMPANY INC. | WW 1100 |

R1100

| SOURCE | PRODUCT |
|----------------------------|-----------------|
| AlcoTec Wire Corporation | Altigweld R1100 |
| All-State Welding Products | 1100 |
| American Welding Alloys | AWA R1100 |
| Astrolite Alloys | Astrolite R1100 |
| Crown Alloys Company | Crown R1100 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

R1100 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|-------------------|
| ESAB WELDING & CUTTING PRODUCTS | ESAB 1100 HQ |
| Gulf Wire Corporation | R1100 |
| HARRIS WELCO | WELCO R1100 |
| Inweld Corporation | INWELD 1100 |
| LANCASTER ALLOYS COMPANY | LAC 4180 |
| Nassau Research Corp. | Neptune Tig |
| Nippon Welding Rod Co., Ltd. | WEL TIG A 1100-BY |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 1100 |
| Washington Alloy Company | 1100 |

ER1188

| SOURCE | PRODUCT |
|---------------------------------|------------------|
| AlcoTec Wire Corporation | Almigweld ER1188 |
| American Welding Alloys | AWA 1188 |
| Astrolite Alloys | Astrolite ER1188 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 1188 HQ |
| Gulf Wire Corporation | ER1188 |
| LANCASTER ALLOYS COMPANY | LAC A197 |
| Oxford Alloys, Inc. | OXFORD ER1188 |
| Washington Alloy Company | 1188 |

R1188

| SOURCE | PRODUCT |
|---------------------------------|-----------------|
| AlcoTec Wire Corporation | Altigweld R1188 |
| American Welding Alloys | AWA R1188 |
| Astrolite Alloys | Astrolite R1188 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 1188 HQ |
| Gulf Wire Corporation | R1188 |
| LANCASTER ALLOYS COMPANY | LAC A197 |

ER2319

| SOURCE | PRODUCT |
|--------------------------------|------------------|
| AlcoTec Wire Corporation | Almigweld ER2319 |
| American Filler Metals Company | AFM 2319 |
| American Welding Alloys | AWA 2319 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

ER2319 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|------------------|
| Astrolite Alloys | Astrolite ER2319 |
| Crown Alloys Company | Crown ER2319 |
| Gulf Wire Corporation | ER2319 |
| Inweld Corporation | INWELD 2319 |
| LANCASTER ALLOYS COMPANY | LAC 4191 |
| Oxford Alloys, Inc. | OXFORD ER2319 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 2319 |
| Washington Alloy Company | 2319 |
| WELDWIRE COMPANY INC. | WW 2319 |

R2319

| SOURCE | PRODUCT |
|---------------------------------------|-----------------|
| AlcoTec Wire Corporation | Altigweld R2319 |
| American Filler Metals Company | AFM 2319 |
| American Welding Alloys | AWA R2319 |
| Astrolite Alloys | Astrolite R2319 |
| Crown Alloys Company | Crown R2319 |
| Gulf Wire Corporation | R2319 |
| Inweld Corporation | INWELD 2319 |
| LANCASTER ALLOYS COMPANY | LAC 4191 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 2319 |
| Washington Alloy Company | 2319 |

ER4009

| SOURCE | PRODUCT |
|---------------------------------------|------------------|
| AlcoTec Wire Corporation | Almigweld ER4009 |
| American Filler Metals Company | AFM 4009 |
| American Welding Alloys | AWA 4009 |
| Astrolite Alloys | Astrolite ER4009 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4009 |
| Washington Alloy Company | C355 |

R4009

| SOURCE | PRODUCT |
|--------------------------|-----------------|
| AlcoTec Wire Corporation | Altigweld R4009 |
| American Welding Alloys | AWA R4009 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

R4009 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|-----------------|
| Astrolite Alloys | Astrolite R4009 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4009 |
| Washington Alloy Company | C355 |

ER4010

| SOURCE | PRODUCT |
|-----------------------------------|------------------|
| AlcoTec Wire Corporation | Almigweld ER4010 |
| American Welding Alloys | AWA 4010 |
| Astrolite Alloys | Astrolite ER4010 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4010 |

R4010

| SOURCE | PRODUCT |
|-----------------------------------|-----------------|
| AlcoTec Wire Corporation | Altigweld R4010 |
| American Welding Alloys | AWA R4010 |
| Astrolite Alloys | Astrolite R4010 |
| Crown Alloys Company | Crown RA356.0 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4010 |

R4011

| SOURCE | PRODUCT |
|-----------------------------------|-----------------|
| AlcoTec Wire Corporation | Altigweld R4011 |
| American Welding Alloys | AWA R4011 |
| Astrolite Alloys | Astrolite R4011 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4011 |
| Washington Alloy Company | A357 |

ER4043

| SOURCE | PRODUCT |
|---------------------------------------|------------------|
| AlcoTec Wire Corporation | Almigweld ER4043 |
| All-State Welding Products | 4043 |
| American Filler Metals Company | AFM 4043 |
| American Welding Alloys | AWA 4043 |
| Arctec Alloys Limited | ARCTEC ER4043 |
| Astrolite Alloys | Astrolite ER4043 |
| Bohler Thyssen Welding USA, Inc. | 4043 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

ER4043 (Continued from previous page)

| SOURCE | PRODUCT |
|--|---|
| Champion Welding Products | CHAMPION ER4043 |
| Cronatron Welding Systems | Cronaweld ER 4043 |
| Crown Alloys Company | Crown ER4043 |
| Dytron Corporation | 4043 |
| ELGA AB | ALUTIG Si 5, ALUMIG Si 5 |
| ENGELHARD CORPORATION | ENGELHARD ER4043 |
| ESAB AB | OK Autrod 18.04, Tigrod 18.04 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 4043 HQ |
| EXSA S.A. - División Soldaduras OERLIKON | Nertalic 15, Tigfil 4406 |
| EXSA S.A.- División Fontargen | FON A 405 MIG, FON A 405 TIG |
| Gulf Wire Corporation | ER4043 |
| HARRIS WELCO | WELCO ER4043 |
| HILARIUS HAARLEM HOLLAND BV | HILCO ALSi 5, Fluxcored Aluminium 5Si |
| Indura S.A. Industria y Comercio | INDURA 26 |
| Inweld Corporation | INWELD 4043 |
| Kobe Steel, LTD. | KOBE A4043-WY, KOBE A4043-BY |
| LANCASTER ALLOYS COMPANY | LAC 4190 |
| Lincoln Electric Co. | Lincoln ER4043, LNM/LNT AISi 5, SuperGlaze 4043 |
| Messer - MG Systems & Welding Inc. | ER4043 |
| Midalloy, Inc. | Midalloy ER4043 |
| Nassau Research Corp. | Neptune Tig |
| NATWELD | ER4043 |
| Nippon Welding Rod Co., Ltd. | WEL MIG A 4043-WY |
| NOF Corporation | TG4043, MG4043 |
| Oxford Alloys, Inc. | OXFORD ER4043 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER4043 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4043 |
| Uniweld Products, Inc. | ALUMATIG 4043, ALUMAMIG 4043 |
| Washington Alloy Company | 4043 |
| Weld Mold Company | 4043 |
| WELDWIRE COMPANY INC. | WW 4043 |

R4043

| SOURCE | PRODUCT |
|--------------------------|-----------------|
| AlcoTec Wire Corporation | Altigweld R4043 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

R4043 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------------|-------------------|
| All-State Welding Products | 4043 |
| American Filler Metals Company | AFM 4043 |
| American Welding Alloys | AWA R4043 |
| Astrolite Alloys | Astrolite R4043 |
| Cronatron Welding Systems | Cronaweld R 4043 |
| Crown Alloys Company | Crown R4043 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 4043 HQ |
| Gulf Wire Corporation | R4043 |
| HARRIS WELCO | WELCO R4043 |
| Inweld Corporation | INWELD 4043 |
| LANCASTER ALLOYS COMPANY | LAC 4190 |
| Lincoln Electric Co. | Lincoln ER4043 |
| Nassau Research Corp. | Neptune Tig |
| Nippon Welding Rod Co., Ltd. | WEL TIG A 4043-BY |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4043 |
| Washington Alloy Company | 4043 |

ER4047

| SOURCE | PRODUCT |
|---------------------------------------|----------------------------------|
| AlcoTec Wire Corporation | Almigweld ER4047 |
| American Filler Metals Company | AFM 4047 |
| American Welding Alloys | AWA 4047 |
| Astrolite Alloys | Astrolite ER4047 |
| Dytron Corporation | 4047 |
| ENGELHARD CORPORATION | ENGELHARD ER4047 |
| ESAB AB | OK Autrod 18.05, Tigrod 18.05 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 4047 HQ |
| EXSA S.A.- División Fontargen | FON A 407 MIG, FON A 407 TIG |
| Gulf Wire Corporation | ER4047 |
| HARRIS WELCO | WELCO ER4047 |
| HILARIUS HAARLEM HOLLAND BV | HILCO ALSi 12 |
| Inweld Corporation | INWELD 4047 |
| LANCASTER ALLOYS COMPANY | LAC 4185 |
| Lincoln Electric Co. | LNM/LNT AISi 12, SuperGlaze 4047 |
| Nassau Research Corp. | Neptune Tig |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

ER4047 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|------------------------------|
| Oxford Alloys, Inc. | OXFORD ER4047 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER4047 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4047 |
| Uniweld Products, Inc. | ALUMATIG 4047, ALUMAMIG 4047 |
| Washington Alloy Company | 4047 (718 Aluminum) |
| WELDWIRE COMPANY INC. | WW 4047 |

R4047

| SOURCE | PRODUCT |
|-----------------------------------|---------------------|
| AlcoTec Wire Corporation | Altigweld R4047 |
| American Filler Metals Company | AFM 4047 |
| American Welding Alloys | AWA R4047 |
| Astrolite Alloys | Astrolite R4047 |
| Crown Alloys Company | Crown R718 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 4047 HQ |
| Gulf Wire Corporation | R4047 |
| HARRIS WELCO | WELCO R4047 |
| Inweld Corporation | INWELD 4047 |
| LANCASTER ALLOYS COMPANY | LAC 4185 |
| Nassau Research Corp. | Neptune Tig |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4047 |
| Washington Alloy Company | 4047 (718 Aluminum) |

ER4145

| SOURCE | PRODUCT |
|-----------------------------------|---------------------|
| AlcoTec Wire Corporation | Almigweld ER4145 |
| American Filler Metals Company | AFM 4145 |
| American Welding Alloys | AWA 4145 |
| Astrolite Alloys | Astrolite ER4145 |
| Dytron Corporation | 4145 |
| Inweld Corporation | INWELD 4145 |
| LANCASTER ALLOYS COMPANY | LAC 4184 |
| Oxford Alloys, Inc. | OXFORD ER4145 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4145 |
| Washington Alloy Company | 4145 (716 Aluminum) |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

ER4145 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------|---------|
| WELDWIRE COMPANY INC. | WW 4145 |

R4145

| SOURCE | PRODUCT |
|-----------------------------------|---------------------|
| AlcoTec Wire Corporation | Altigweld R4145 |
| American Welding Alloys | AWA R4145 |
| Astrolite Alloys | Astrolite R4145 |
| Crown Alloys Company | Crown R4145 |
| Inweld Corporation | INWELD 4145 |
| LANCASTER ALLOYS COMPANY | LAC 4184 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4145 |
| Washington Alloy Company | 4145 (716 Aluminum) |

ER4643

| SOURCE | PRODUCT |
|---------------------------------------|------------------|
| AlcoTec Wire Corporation | Almigweld ER4643 |
| American Filler Metals Company | AFM 4643 |
| American Welding Alloys | AWA 4643 |
| Astrolite Alloys | Astrolite ER4643 |
| Gulf Wire Corporation | ER4643 |
| LANCASTER ALLOYS COMPANY | LAC 4189 |
| Oxford Alloys, Inc. | OXFORD ER4643 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4643 |
| Washington Alloy Company | 4643 |

R4643

| SOURCE | PRODUCT |
|-----------------------------------|-----------------|
| AlcoTec Wire Corporation | Altigweld R4643 |
| American Welding Alloys | AWA R4643 |
| Astrolite Alloys | Astrolite R4643 |
| Gulf Wire Corporation | R4643 |
| LANCASTER ALLOYS COMPANY | LAC 4189 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 4643 |
| Washington Alloy Company | 4643 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

ER5183

| SOURCE | PRODUCT |
|--|------------------------------------|
| AlcoTec Wire Corporation | Almigweld ER5183 |
| American Filler Metals Company | AFM 5183 |
| American Welding Alloys | AWA 5183 |
| Astrolite Alloys | Astrolite ER5183 |
| Dytron Corporation | 5183 |
| ELGA AB | ALUTIG Mg 4.5 Mn, ALUMIG Mg 4.5 Mn |
| ESAB AB | OK Autrod 18.16, Tigrod 18.16 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 5183 HQ |
| Gulf Wire Corporation | ER5183 |
| HILARIUS HAARLEM HOLLAND BV | HILCO ALMg 4,5 Mn |
| Inweld Corporation | INWELD 5183 |
| Kobe Steel, LTD. | KOBE A5183-WY, KOBE A5183-BY |
| LANCASTER ALLOYS COMPANY | LAC A105 |
| Lincoln Electric Co. | LNМ/LNT AlMg4.5Mn, SuperGlaze 5183 |
| Nippon Welding Rod Co., Ltd. | WEL MIG A 5183-WY |
| NOF Corporation | TG5183, MG5183 |
| Oxford Alloys, Inc. | OXFORD ER5183 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER5183 |
| Uniweld Products, Inc. | ALUMATIG 5183, ALUMAMIG 5183 |
| Washington Alloy Company | 5183 |
| WELDWIRE COMPANY INC. | WW 5183 |

R5183

| SOURCE | PRODUCT |
|---------------------------------------|-------------------|
| AlcoTec Wire Corporation | Altigweld R5183 |
| American Filler Metals Company | AFM 5183 |
| American Welding Alloys | AWA R5183 |
| Astrolite Alloys | Astrolite R5183 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 5183 HQ |
| Gulf Wire Corporation | R5183 |
| Inweld Corporation | INWELD 5183 |
| LANCASTER ALLOYS COMPANY | LAC A105 |
| Nippon Welding Rod Co., Ltd. | WEL TIG A 5183-BY |
| Washington Alloy Company | 5183 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

ER5356

| SOURCE | PRODUCT |
|---|---|
| AlcoTec Wire Corporation | Almigweld ER5356 |
| All-State Welding Products | 5356 |
| American Filler Metals Company | AFM 5356 |
| American Welding Alloys | AWA 5356 |
| Arctec Alloys Limited | ARCTEC ER5356 |
| Astrolite Alloys | Astrolite ER5356 |
| Bohler Thyssen Welding USA, Inc. | 5356 |
| Crown Alloys Company | Crown ER5356 |
| Dytron Corporation | 5356 |
| ELGA AB | ALUTIG Mg 5, ALUMIG Mg 5 |
| ENGELHARD CORPORATION | ENGELHARD ER5356 |
| ESAB AB | OK Autrod 18.15, Tigrod 18.15 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 5356 HQ |
| EXSA S.A.- División Fontargen | FON A 404 MIG, FON A 404 TIG |
| Gulf Wire Corporation | ER5356 |
| HARRIS WELCO | WELCO ER5356 |
| HILARIUS HAARLEM HOLLAND BV | HILCO ALMg 5 |
| Indura S.A. Industria y Comercio | INDURA ER5356 |
| Inweld Corporation | INWELD 5356 |
| Kobe Steel, LTD. | KOBE A5356-WY, KOBE A53560BY |
| LANCASTER ALLOYS COMPANY | LAC A106 |
| Lincoln Electric Co. | Lincoln ER5356, LNM/LNT AlMg 5, SuperGlaze 5356 |
| Midalloy, Inc. | Midalloy ER5356 |
| Nassau Research Corp. | Neptune Tig |
| NATWELD | ER5356 |
| Nippon Welding Rod Co., Ltd. | WEL MIG A 5356-WY |
| NOF Corporation | TG5356, MG5356 |
| Oxford Alloys, Inc. | OXFORD ER5356 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER5356 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 5356 |
| Uniweld Products, Inc. | ALUMATIG 5356, ALUMAMIG 5356 |
| Washington Alloy Company | 5356 |
| Weld Mold Company | 5356 |
| WELDWIRE COMPANY INC. | WW 5356 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

R5356

| SOURCE | PRODUCT |
|---------------------------------------|-----------------------|
| AlcoTec Wire Corporation | Altigweld R5356 |
| All-State Welding Products | 5356 |
| American Filler Metals Company | AFM 5356 |
| American Welding Alloys | AWA R5356 |
| Astrolite Alloys | Astrolite R5356 |
| Champion Welding Products | CHAMPION R5356 |
| Crown Alloys Company | Crown R5356 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 5356 HQ |
| Gulf Wire Corporation | R5356 |
| HARRIS WELCO | WELCO R5356 |
| Inweld Corporation | INWELD 5356 |
| LANCASTER ALLOYS COMPANY | LAC A106 |
| Lincoln Electric Co. | Lincoln ER5356 |
| Nassau Research Corp. | Neptune Tig |
| Nippon Welding Rod Co., Ltd. | WEL TIG A 5356-BY |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 5356 |
| Washington Alloy Company | 5356 |

ER5554

| SOURCE | PRODUCT |
|---------------------------------------|------------------------------|
| AlcoTec Wire Corporation | Almigweld ER5554 |
| American Filler Metals Company | AFM 5554 |
| American Welding Alloys | AWA 5554 |
| Arctec Alloys Limited | ARCTEC ER5554 |
| Astrolite Alloys | Astrolite ER5554 |
| Dytron Corporation | 5554 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 5554 HQ |
| EXSA S.A.- División Fontargen | FON A 402 MIG, FON A 402 TIG |
| Gulf Wire Corporation | ER5554 |
| Inweld Corporation | INWELD 5554 |
| Oxford Alloys, Inc. | OXFORD ER5554 |
| Uniweld Products, Inc. | ALUMAMIG 5554 |
| Washington Alloy Company | 5554 |
| WELDWIRE COMPANY INC. | WW 5554 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

R5554

| SOURCE | PRODUCT |
|---------------------------------------|-----------------|
| AlcoTec Wire Corporation | Altigweld R5554 |
| American Filler Metals Company | AFM 5554 |
| American Welding Alloys | AWA R5554 |
| Astrolite Alloys | Astrolite R5554 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 5554 HQ |
| Gulf Wire Corporation | R5554 |
| Inweld Corporation | INWELD 5554 |
| Washington Alloy Company | 5554 |

ER5556

| SOURCE | PRODUCT |
|--|--------------------------------|
| AlcoTec Wire Corporation | Almigweld ER5556 |
| American Filler Metals Company | AFM 5556 |
| American Welding Alloys | AWA 5556 |
| Astrolite Alloys | Astrolite ER5556 |
| Dytron Corporation | 5556 |
| ELGA AB | ALUTIG Mn 5 Mn, ALUMIG Mg 5 Mn |
| ESAB AB | OK Autrod 18.20, Tigrod 18.20 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 5556 HQ |
| Gulf Wire Corporation | ER5556 |
| HARRIS WELCO | WELCO ER5556 |
| HILARIUS HAARLEM HOLLAND BV | HILCO ALMg 4,5 Mn |
| Inweld Corporation | INWELD 5556 |
| Oxford Alloys, Inc. | OXFORD ER5556 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ER5556 |
| Uniweld Products, Inc. | ALUMATIG 5556, ALUMAMIG 5556 |
| Washington Alloy Company | 5556 |
| WELDWIRE COMPANY INC. | WW 5556 |

R5556

| SOURCE | PRODUCT |
|---------------------------------------|-----------------|
| AlcoTec Wire Corporation | Altigweld R5556 |
| American Filler Metals Company | AFM 5556 |
| American Welding Alloys | AWA R5556 |
| Astrolite Alloys | Astrolite R5556 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

R5556 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|--------------|
| ESAB WELDING & CUTTING PRODUCTS | ESAB 5556 HQ |
| Gulf Wire Corporation | R5556 |
| HARRIS WELCO | WELCO R5556 |
| Inweld Corporation | INWELD 5556 |
| Washington Alloy Company | 5556 |

ER5654

| SOURCE | PRODUCT |
|--|------------------|
| AlcoTec Wire Corporation | Almigweld ER5654 |
| American Welding Alloys | AWA 5654 |
| Astrolite Alloys | Astrolite ER5654 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 5654 HQ |
| EXSA S.A. - División Soldaduras OERLIKON | Nertalic 20 |
| Gulf Wire Corporation | ER5654 |
| HILARIUS HAARLEM HOLLAND BV | HILCO ALMg 3 |
| Inweld Corporation | INWELD 5654 |
| Lincoln Electric Co. | LNMLNT AlMg 3 |
| Oxford Alloys, Inc. | OXFORD ER5654 |
| Washington Alloy Company | 5654 |
| WELDWIRE COMPANY INC. | WW 5654 |

R5654

| SOURCE | PRODUCT |
|---------------------------------|-----------------|
| AlcoTec Wire Corporation | Altigweld R5654 |
| American Welding Alloys | AWA R5654 |
| Astrolite Alloys | Astrolite R5654 |
| ESAB WELDING & CUTTING PRODUCTS | ESAB 5654 HQ |
| Gulf Wire Corporation | R5654 |
| Inweld Corporation | INWELD 5654 |
| Washington Alloy Company | 5654 |

R-206.0

| SOURCE | PRODUCT |
|--------------------------|-----------------------------|
| AlcoTec Wire Corporation | Almigweld/Altigweld R-206.0 |
| American Welding Alloys | AWA 206.0 |
| Astrolite Alloys | Astrolite R-206.0 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

R-206.0 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|------------|
| LANCASTER ALLOYS COMPANY | LAC R206.0 |

R-C355.0

| SOURCE | PRODUCT |
|-----------------------------------|------------------------------|
| AlcoTec Wire Corporation | Almigweld/Altigweld R-C355.0 |
| American Filler Metals Company | AFM C355 |
| American Welding Alloys | AWA C355.0 |
| Astrolite Alloys | Astrolite R-C355.0 |
| Inweld Corporation | INWELD C-355 |
| LANCASTER ALLOYS COMPANY | LAC 4245 |
| Oxford Alloys, Inc. | OXFORD R-C355.0 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM C355 |
| Washington Alloy Company | C355 |

R-A356.0

| SOURCE | PRODUCT |
|-----------------------------------|------------------------------|
| AlcoTec Wire Corporation | Almigweld/Altigweld R-A356.0 |
| American Filler Metals Company | AFM A356 |
| American Welding Alloys | AWA A356.0 |
| Astrolite Alloys | Astrolite R-A356.0 |
| Crown Alloys Company | Crown R-A356.0 |
| LANCASTER ALLOYS COMPANY | LAC 4181 |
| Oxford Alloys, Inc. | OXFORD R-A356.0 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM A356 |
| Washington Alloy Company | A356 |

R-357.0

| SOURCE | PRODUCT |
|-----------------------------------|-----------------------------|
| AlcoTec Wire Corporation | Almigweld/Altigweld R-357.0 |
| American Filler Metals Company | AFM 357.0 |
| American Welding Alloys | AWA 357.0 |
| Astrolite Alloys | Astrolite R-357.0 |
| LANCASTER ALLOYS COMPANY | LAC 4246 |
| UNITED STATES WELDING CORPORATION | TURB-ALUM 357 |
| Washington Alloy Company | A357 |

A5.10-92, ALUMINUM AND ALUMINUM ALLOY Electrodes and Rods

See ANSI/AWS A5.10-92, Specification for Bare Aluminum and Aluminum Alloy Welding Electrodes

R-A357.0

SOURCE

PRODUCT

AlcoTec Wire Corporation

Altigweld R-A357.0

American Welding Alloys

AWA A357.0

Astrolite Alloys

Astrolite R-A357.0

LANCASTER ALLOYS COMPANY

LAC A189

Oxford Alloys, Inc.

OXFORD R-A357.0

Washington Alloy Company

A357

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENI-1

| SOURCE | PRODUCT |
|----------------------------------|------------------------------|
| American Filler Metals Company | AFM ENi1, AFM 141 |
| American Welding Alloys | AWA ENi-1 |
| Arcos Alloys | Arcos 4N11 |
| Astrolite Alloys | Astrolite ENi-1 |
| Bohler Thyssen Welding USA, Inc. | UTP 80 Ni |
| Champion Welding Products | CHAMPION 141 |
| D&H Secheron Electrodes Limited | D&H-1280 |
| ESAB AB | OK 92.05 |
| Euroweld, Ltd. | E Ni 1 |
| EXSA S.A.- División Fontargen | FON E 501 |
| Inco Alloys International, Inc. | Nickel Welding Electrode 141 |
| Inweld Corporation | INWELD NA-141 |
| Lincoln Electric Co. | Nickel 96 |
| Midalloy, Inc. | Midalloy Ni-Max 141 |
| Nassau Research Corp. | Jupiter |
| NATWELD | NATWELD 141 |
| Nippon Welding Rod Co., Ltd. | WEL Ni-1 |
| NOF Corporation | Ni99, Ni99DC |
| Oxford Alloys, Inc. | OXFORD ENi-1 |
| Techalloy Company, Inc. | Tech-Rod 141 |
| Uniweld Products, Inc. | UNI-NI-141 |
| Washington Alloy Company | 141 |
| Weld Mold Company | 4141 |
| WELDWIRE COMPANY INC. | WW NA141 |

ENICu-7

| SOURCE | PRODUCT |
|-------------------------------------|-------------------|
| All-State Welding Products | 16 |
| American Filler Metals Company | AFM 190 |
| American Welding Alloys | AWA ENiCu-7 |
| Arcos Alloys | Arcos 9N10 |
| Arctec Alloys Limited | ARCTEC ALLOY 190 |
| Astrolite Alloys | Astrolite ENiCu-7 |
| Bohler Thyssen Welding USA, Inc. | UTP 80 M |
| CARBO-WELD Schweissmaterialien GmbH | CARBOWELD 190 |

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENiCu-7 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|-----------------------------|
| Champion Welding Products | CHAMPION 190 |
| CORROSION MATERIALS INC. | CM-400 |
| D&H Secheron Electrodes Limited | D&H-1250 |
| ESAB AB | OK 92.86 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 9N10 |
| Euroweld, Ltd. | ENiCu-7 |
| EXSA S.A.- División Fontargen | FON E 511 |
| HARRIS WELCO | WELCO 33 |
| HILARIUS HAARLEM HOLLAND BV | HILCO NiCu 7 |
| Inco Alloys International, Inc. | MONEL Welding Electrode 190 |
| Inweld Corporation | INWELD NA-190 |
| Lincoln Electric Co. | NiCu 70/30, RepTec 5 |
| Midalloy, Inc. | Midalloy Ni-Max 190 |
| Nassau Research Corp. | Gemini |
| NATWELD | NATWELD 190 |
| Nippon Welding Rod Co., Ltd. | WEL MOCU-7 |
| NOF Corporation | ML7D |
| Oxford Alloys, Inc. | OXFORD ENiCu-7 |
| Sodel Ltd | Sodel 3501 |
| Techalloy Company, Inc. | Tech-Rod 190 |
| Uniweld Products, Inc. | UNI-NI-190 |
| Washington Alloy Company | 190 |
| Weld Mold Company | 4190 |
| WELDWIRE COMPANY INC. | WW NA190 |

ENiCrFe-1

| SOURCE | PRODUCT |
|---------------------------------|-------------------------------|
| American Filler Metals Company | AFM 132 |
| American Welding Alloys | AWA ENiCrFe-1 |
| Astrolite Alloys | Astrolite ENiCrFe-1 |
| Champion Welding Products | CHAMPION 132 |
| Euroweld, Ltd. | E Ni Cr Fe-1 |
| Inco Alloys International, Inc. | INCONEL Welding Electrode 132 |
| Inweld Corporation | INWELD NA-132 |
| Kobe Steel, LTD. | NIC-70A |

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENiCrFe-1 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------|------------------|
| Nassau Research Corp. | Jupiter |
| Nippon Welding Rod Co., Ltd. | WEL N-12 |
| Oxford Alloys, Inc. | OXFORD ENiCrFe-1 |
| Washington Alloy Company | 132 |
| Weld Mold Company | 4132 |
| WELDWIRE COMPANY INC. | WW NA132 |

ENiCrFe-2

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------------|
| American Filler Metals Company | AFM Alloy A |
| American Welding Alloys | AWA ENiCrFe-2 |
| Arcos Alloys | Arcos 4N1A |
| Arctec Alloys Limited | ARCTEC ALLOY A |
| Astrolite Alloys | Astrolite ENiCrFe-2 |
| Bohler Thyssen Welding USA, Inc. | UTP 7015 Mo |
| CARBO-WELD Schweissmaterialien GmbH | CARBOWELD 82 B |
| Champion Welding Products | CHAMPION A |
| COR-MET INC. | COR-NICKEL N100A |
| D&H Secheron Electrodes Limited | D&H-1200T |
| ESAB AB | OK 92.15 |
| Euroweld, Ltd. | E Ni Cr Fe-2 |
| EXSA S.A.- División Fontargen | FON E521/H |
| HARRIS WELCO | WELCO 42 |
| Inco Alloys International, Inc. | INCO-WELD A Welding Electrode |
| Inweld Corporation | INWELD NA-A |
| Lincoln Electric Co. | NiCro 70/15 |
| Midalloy, Inc. | Midalloy Ni-Max A |
| Nassau Research Corp. | Jupiter |
| NATWELD | NATWELD A |
| Nippon Welding Rod Co., Ltd. | WEL N-25, N-26 |
| NOF Corporation | NiA |
| Oxford Alloys, Inc. | OXFORD ENiCrFe-2 |
| Techalloy Company, Inc. | Tech-Rod WELD A |
| Uniweld Products, Inc. | UNI-NI-A |
| Washington Alloy Company | Nickel "A" |

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENiCrFe-2 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------|---------|
| Weld Mold Company | 4000A |
| WELDWIRE COMPANY INC. | WW NAA |

ENiCrFe-3

| SOURCE | PRODUCT |
|--|--|
| All-State Welding Products | 18 |
| American Filler Metals Company | AFM 182 |
| American Welding Alloys | AWA ENiCrFe-3 |
| Arcos Alloys | Arcos 8N12/H |
| Arctec Alloys Limited | ARCTEC ALLOY 182 |
| Astrolite Alloys | Astrolite ENiCrFe-3 |
| Avesta Welding Products Inc. | AVESTA P10 |
| Bohler Thyssen Welding USA, Inc. | UTP 7015, Thyssen Nicro 182 |
| CARBO-WELD Schweissmaterialien GmbH | CARBOWELD A |
| Champion Welding Products | CHAMPION 182 |
| COR-MET INC. | COR-NICKEL N182 |
| Cronatron Welding Systems | Cronaweld ENiCrFe-3 |
| Crown Alloys Company | Royal 182 |
| D&H Secheron Electrodes Limited | D&H-1212 |
| Electromanufacturas S.A | West Rode Nicrofer, NA182 |
| ELGA AB | CROMAROD 82 |
| ESAB AB | OK 92.26 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 8N12; Ni-12; 8N12H |
| Euroweld, Ltd. | ENiCrFe-3 |
| EXSA S.A.- División Fontargen | FON E 521 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCHROME 600 |
| Inco Alloys International, Inc. | INCONEL Welding Electrode 182 |
| Indura S.A. Industria y Comercio | INDURA NICHROELASTIC 46 |
| Inweld Corporation | INWELD NA-182 |
| Kobe Steel, LTD. | NIC-703D |
| Lincoln Electric Co. | NiCro 70/15Mn-S, NiCro 70/15Mn, RepTec 7 |
| Midalloy, Inc. | Midalloy Ni-Max 182 |
| Nassau Research Corp. | Jupiter |
| NATWELD | NATWELD 182 |
| Nippon Welding Rod Co., Ltd. | WEL AC 182, DC 182 |

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENiCrFe-3 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|------------------|
| NOF Corporation | NA182, NA182DC |
| Oxford Alloys, Inc. | OXFORD ENiCrFe-3 |
| Sodel Ltd | Sodel 3500 |
| Techalloy Company, Inc. | Tech-Rod 182 |
| Uniweld Products, Inc. | UNI-NI-182 |
| Washington Alloy Company | 182 |
| Weld Mold Company | 4182 |
| WELDWIRE COMPANY INC. | WW NA182 |

ENiCrFe-4

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| American Filler Metals Company | AFM Alloy B |
| American Welding Alloys | AWA ENiCrFe-4 |
| Astrolite Alloys | Astrolite ENiCrFe-4 |
| Bohler Thyssen Welding USA, Inc. | UTP 7017 Mo |
| Champion Welding Products | CHAMPION B |
| Nassau Research Corp. | Jupiter |
| Oxford Alloys, Inc. | OXFORD ENiCrFe-4 |
| Washington Alloy Company | Nickel "B" |
| Weld Mold Company | 4000B |
| WELDWIRE COMPANY INC. | Weldwire ENiCrFe-4 |

ENiCrFe-7

| SOURCE | PRODUCT |
|---------------------------------|-------------------------------|
| Inco Alloys International, Inc. | INCONEL Welding Electrode 152 |

ENiMo-1

| SOURCE | PRODUCT |
|---------------------------------|-------------------|
| American Welding Alloys | AWA ENiMo-1 |
| Astrolite Alloys | Astrolite ENiMo-1 |
| Champion Welding Products | CHAMPION HAST-B |
| D&H Secheron Electrodes Limited | D&H-1450 |
| Nippon Welding Rod Co., Ltd. | WEL HB |
| NOF Corporation | HsB |
| Oxford Alloys, Inc. | OXFORD ENiMo-1 |
| Washington Alloy Company | H-B FC |

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENiMo-1 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------|---------|
| Weld Mold Company | 676 |
| WELDWIRE COMPANY INC. | WW NAB |

ENiMo-3

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| American Filler Metals Company | AFM Alloy W |
| American Welding Alloys | AWA ENiMo-3 |
| Astrolite Alloys | Astrolite ENiMo-3 |
| Champion Welding Products | CHAMPION HASTALLOY W |
| Haynes International, Inc. | HASTELLOY W alloy |
| Inweld Corporation | INWELD HAS-W |
| Nippon Welding Rod Co., Ltd. | WEL HW |
| Oxford Alloys, Inc. | OXFORD ENiMo-3 |
| Washington Alloy Company | Alloy W FC |
| Weld Mold Company | 670-C |
| WELDWIRE COMPANY INC. | WW NAW |

ENiMo-7

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| American Filler Metals Company | AFM Alloy B-2 |
| American Welding Alloys | AWA ENiMo-7 |
| Astrolite Alloys | Astrolite ENiMo-7 |
| Bohler Thyssen Welding USA, Inc. | UTP 703 Kb |
| Champion Welding Products | CHAMPION B2 |
| Euroweld, Ltd. | E Ni Mo-7 |
| Haynes International, Inc. | HASTELLOY B-2 alloy |
| Inweld Corporation | INWELD HAS-B2 |
| NOF Corporation | HsB-2 |
| Oxford Alloys, Inc. | OXFORD ENiMo-7 |
| Washington Alloy Company | B2 FC |
| WELDWIRE COMPANY INC. | WW NAB2 |

ENiCrCoMo-1

| SOURCE | PRODUCT |
|--------------------------------|-----------------|
| American Filler Metals Company | AFM 117 |
| American Welding Alloys | AWA ENiCrCoMo-1 |

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENiCrCoMo-1 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------------|-------------------------------|
| Arcos Alloys | Arcos 617 |
| Arctec Alloys Limited | ARCTEC ALLOYS 117 |
| Astrolite Alloys | Astrolite ENiCrCoMo-1 |
| Bohler Thyssen Welding USA, Inc. | UTP 6170 Co, Thyssen 617 |
| COR-MET INC. | COR-NICKEL 117 |
| Euroweld, Ltd. | E Ni Cr Co Mo-1 |
| Inco Alloys International, Inc. | INCONEL Welding Electrode 117 |
| Inweld Corporation | INWELD NA-117 |
| Oxford Alloys, Inc. | OXFORD ENiCrCoMo-1 |
| Techalloy Company, Inc. | Tech-Rod 117 |
| Uniweld Products, Inc. | UNI-NI-117 |
| Washington Alloy Company | 117 |
| WELDWIRE COMPANY INC. | WW NA117 |

ENiCrMo-1

| SOURCE | PRODUCT |
|-------------------------------|---------------------|
| American Welding Alloys | AWA ENiCrMo-1 |
| Astrolite Alloys | Astrolite ENiCrMo-1 |
| EXSA S.A.- División Fontargen | FON E 717 H |
| Inweld Corporation | INWELD HAS-G |
| Oxford Alloys, Inc. | OXFORD ENiCrMo-1 |
| Washington Alloy Company | Alloy G FC |
| Weld Mold Company | 685-C |
| WELDWIRE COMPANY INC. | WW NAG |

ENiCrMo-2

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| American Filler Metals Company | AFM Alloy X |
| American Welding Alloys | AWA ENiCrMo-2 |
| Astrolite Alloys | Astrolite ENiCrMo-2 |
| Champion Welding Products | CHAMPION HAST-X |
| Haynes International, Inc. | HASTELLOY X alloy |
| Inweld Corporation | INWELD HAS-X |
| Nippon Welding Rod Co., Ltd | WEL HX |
| Oxford Alloys, Inc. | OXFORD ENiCrMo-2 |

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENiCrMo-2 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|------------|
| Washington Alloy Company | Alloy X FC |
| Weld Mold Company | 620-C |
| WELDWIRE COMPANY INC. | WW NAX |

ENiCrMo-3

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------------|
| American Filler Metals Company | AFM 112 |
| American Welding Alloys | AWA ENiCrMo-3 |
| Arcos Alloys | Arcos 1N12 |
| Arctec Alloys Limited | ARCTEC ALLOY112 |
| Astrolite Alloys | Astrolite ENiCrMo-3 |
| Bohler Thyssen Welding USA, Inc. | UTP 6222 Mo, Thermanit 625 |
| CARBO-WELD Schweissmaterialien GmbH | CARBOWELD 625 |
| Champion Welding Products | CHAMPION 625 |
| COR-MET INC. | COR-NICKEL 112 |
| Cronatron Welding Systems | Cronaweld ENiCrMo-3 |
| ELGA AB | CROMAROD 59 |
| ELGA AB | CROMAROD 625 |
| ESAB AB | OK 92.45 |
| Euroweld, Ltd. | E Ni Cr Mo-3 |
| EXSA S.A. - División Fontargen | FON E524 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilchrome 625 |
| Inco Alloys International, Inc. | INCONEL Welding Electrode 112 |
| Indura S.A. Industria y Comercio | INDURA NICROMO 3 |
| Inweld Corporation | INWELD NA-112 |
| Lincoln Electric Co. | NiCro 60/20 |
| Midalloy, Inc. | Midalloy Ni-Max 112 |
| Nassau Research Corp. | Gemini |
| NATWELD | NATWELD 112 |
| Nippon Welding Rod Co., Ltd. | WEL AC 112, DC 112 |
| NOF Corporation | NA112 |
| Oxford Alloys, Inc. | OXFORD ENiCrMo-3 |
| Sodel Ltd | Sodel 3505 |
| Techalloy Company, Inc. | Tech-Rod 112 |
| Uniweld Products, Inc. | UNI-NI-112 |

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENiCrMo-3 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|----------|
| Washington Alloy Company | 112 |
| Weld Mold Company | 4112 |
| WELDWIRE COMPANY INC. | WW NA112 |

ENiCrMo-4

| SOURCE | PRODUCT |
|--|-----------------------------------|
| American Filler Metals Company | AFM C276 |
| American Welding Alloys | AWA ENiCrMo-4 |
| Arcos Alloys | Arcos C-276 |
| Astrolite Alloys | Astrolite ENiCrMo-4 |
| Bohler Thyssen Welding USA, Inc. | UTP 776 Kb |
| CARBO-WELD Schweissmaterialien GmbH | CARBOLLOY C 276 |
| Champion Welding Products | CHAMPION ALLOY C-276 |
| COR-MET INC. | COR-NICKEL 276 |
| CORROSION MATERIALS INC. | HASTELLOY C-276 |
| Crown Alloys Company | Royal C276-20 |
| Euroweld, Ltd. | E Ni Cr Mo-4 |
| Haynes International, Inc. | HASTELLOY C-276 alloy |
| Inco Alloys International, Inc. | INCO-WELD Welding Electrode C-276 |
| Inweld Corporation | INWELD HAS-C276 |
| Midalloy, Inc. | Midalloy Ni-Max 276 |
| Nassau Research Corp. | Gemini |
| NATWELD | NATWELD E276 |
| Nippon Welding Rod Co., Ltd. | WEL HC-4 |
| NOF Corporation | HsC-276 |
| Oxford Alloys, Inc. | OXFORD ENiCrMo-4 |
| Techalloy Company, Inc. | Tech-Rod 276 |
| Uniweld Products, Inc. | UNI-NI-276 |
| Washington Alloy Company | C276 FC |
| Weld Mold Company | 672 |
| WELDWIRE COMPANY INC. | WW NAC276 |

ENiCrMo-5

| SOURCE | PRODUCT |
|-------------------------|----------------|
| American Welding Alloys | AWA ERNiCrMo-5 |

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENiCrMo-5 (Continued from previous page)

| SOURCE | PRODUCT |
|--|------------------|
| CARBO-WELD Schweissmaterialien GmbH | CARBOLLOY CO |
| COR-MET INC. | COR-NICKEL 73 |
| D&H Secheron Electrodes Limited | D&H-1400 |
| Euroweld, Ltd. | E Ni Cr Mo-5 |
| Lincoln Electric Co. | RepTec 34 |
| Messer - MG Systems & Welding Inc. | MG 730 |
| NOF Corporation | HsC |
| Oxford Alloys, Inc. | OXFORD ENiCrMo-5 |
| Stoody Company - Thermadyne Industries | Nistelle Alloy C |
| Washington Alloy Company | H-C FC |
| Weld Mold Company | 673 |

ENiCrMo-6

| SOURCE | PRODUCT |
|---|------------------------|
| American Welding Alloys | AWA ENiCrMo-6 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS Ni Super |
| Astrolite Alloys | Astrolite ENiCrMo-6 |
| Bohler Thyssen Welding USA, Inc. | UTP 7013 Mo |
| ESAB AB | OK 92.55 |
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY Ni-9; OK 92.55 |
| Euroweld, Ltd. | E Ni Cr Mo-6 |
| Lincoln Electric Co. | Nyloid 2 |
| Oxford Alloys, Inc. | OXFORD ENiCrMo-6 |
| Weld Mold Company | 675 |

ENiCrMo-7

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| American Filler Metals Company | AFM C4 |
| American Welding Alloys | AWA ENiCrMo-7 |
| Astrolite Alloys | Astrolite ENiCrMo-7 |
| Bohler Thyssen Welding USA, Inc. | UTP 704 Kb |
| Champion Welding Products | CHAMPION C-4 |
| CORROSION MATERIALS INC. | HASTELLOY B-2 |
| Euroweld, Ltd. | E Ni Cr Mo-7 |
| Haynes International, Inc. | HASTELLOY C-4 alloy |

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENiCrMo-7 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|------------------|
| Inweld Corporation | INWELD HAS-C4 |
| Oxford Alloys, Inc. | OXFORD ENiCrMo-7 |
| Washington Alloy Company | C4 FC |

ENiCrMo-9

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| American Filler Metals Company | AFM G3 |
| American Welding Alloys | AWA ENiCrMo-9 |
| Astrolite Alloys | Astrolite ENiCrMo-9 |
| Champion Welding Products | CHAMPION G-3 |
| Haynes International, Inc. | HASTELLOY G-3 alloy |
| Inweld Corporation | INWELD HAS-G3 |
| Oxford Alloys, Inc. | OXFORD ENiCrMo-9 |
| Washington Alloy Company | G-3 FC |

ENiCrMo-10

| SOURCE | PRODUCT |
|---------------------------------|-------------------------------|
| American Filler Metals Company | AFM C22 |
| American Welding Alloys | AWA ENiCrMo-10 |
| Astrolite Alloys | Astrolite ENiCrMo-10 |
| CORROSION MATERIALS INC. | HASTELLOY C-22 |
| Euroweld, Ltd. | E Ni Cr Mo-10 |
| Haynes International, Inc. | HASTELLOY C-22 alloy |
| Inco Alloys International, Inc. | INCONEL Welding Electrode 122 |
| Inweld Corporation | INWELD HAS-C22 |
| Midalloy, Inc. | Midalloy Ni-Max 622 |
| Nippon Welding Rod Co., Ltd. | WEL HC-22 |
| NOF Corporation | HsC-22 |
| Oxford Alloys, Inc. | OXFORD ENiCrMo-10 |
| Techalloy Company, Inc. | Tech-Rod 122 |
| Washington Alloy Company | C22 FC |
| Weld Mold Company | 674 |
| WELDWIRE COMPANY INC. | WW NAC22 |

A5.11/A5.11M-97, NICKEL AND NICKEL ALLOY Covered Arc Welding Electrodes

See ANSI/AWS A5.11/A5.11M-97, Specification for Nickel and Nickel Alloy Electrodes for Shielded Metal Arc Welding

ENiCrMo-11

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| American Filler Metals Company | AFM G30 |
| American Welding Alloys | AWA ENiCrMo-11 |
| Astrolite Alloys | Astrolite ENiCrMo-11 |
| CORROSION MATERIALS INC. | HASTELLOY G-30 |
| Haynes International, Inc. | HASTELLOY G-30 alloy |
| Inweld Corporation | INWELD HAS-G30 |
| Oxford Alloys, Inc. | OXFORD ENiCrMo-11 |
| Uniweld Products, Inc. | UNI-NI-122 |
| Washington Alloy Company | G-30 FC |
| WELDWIRE COMPANY INC. | WW NAG30 |

ENiCrMo-12

| SOURCE | PRODUCT |
|------------------------------|-------------------|
| American Welding Alloys | AWA ENiCrMo-12 |
| Avesta Welding Products Inc. | AVESTA P12R |
| Euroweld, Ltd. | E Ni Cr Mo-12 |
| Oxford Alloys, Inc. | OXFORD ENiCrMo-12 |

ENiCrMo-14

| SOURCE | PRODUCT |
|---------------------------------|------------------------------------|
| Inco Alloys International, Inc. | INCO-WELD Welding Electrode 686CPT |

A5.12/A5.12M-98, TUNGSTEN Electrodes For Arc Welding

See ANSI/AWS A5.12/A5.12M-98, Specification for Tungsten and Tungsten Alloy Electrodes for Arc Welding and Cutting

EWP

| SOURCE | PRODUCT |
|---------------------------------------|--------------------------------|
| All-State Welding Products | Pure Tungsten Electrode |
| American Filler Metals Company | AFM Pure Tungsten |
| American Welding Alloys | AWA EWP |
| Champion Welding Products | CHAMPION EWP |
| Cronatron Welding Systems | Cronatron EWP |
| ESAB WELDING & CUTTING PRODUCTS | HELIARC PURE TUNGSTON |
| HARRIS WELCO | THERMO PURE TUNGSTEN |
| HILARIUS HAARLEM HOLLAND BV | HILCO TUNGSTEN W |
| Inweld Corporation | INWELD PURE |
| Nassau Research Corp. | Pure Tungsten |
| NATWELD | Pure Tungsten |
| Oxford Alloys, Inc. | OXFORD EWP |
| Washington Alloy Company | Pure Tungsten Electrode |
| WELDWIRE COMPANY INC. | WW PURE |

EWCe-2

| SOURCE | PRODUCT |
|---------------------------------|---------------------------------------|
| American Welding Alloys | AWA EWCe-2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO TUNGSTEN WC20 |
| Inweld Corporation | INWELD CERIATED |
| Nassau Research Corp. | Ceriated |
| Oxford Alloys, Inc. | OXFORD EWCe-2 |
| Washington Alloy Company | 2% Ceriated Tungsten Electrode |
| WELDWIRE COMPANY INC. | WW Ceriated |

EWL_a-1

| SOURCE | PRODUCT |
|---------------------------------|--|
| American Welding Alloys | AWA EWL _a -1 |
| Inweld Corporation | INWELD LANTHANATED |
| Nassau Research Corp. | Lanthanated |
| Oxford Alloys, Inc. | OXFORD EWL_a-1 |
| Washington Alloy Company | 2% Lanthanum Tungsten Electrode |
| WELDWIRE COMPANY INC. | WW Lanthanum |

A5.12/A5.12M-98, TUNGSTEN Electrodes For Arc Welding

See ANSI/AWS A5.12/A5.12M-98, Specification for Tungsten and Tungsten Alloy Electrodes for Arc Welding and Cutting

EWTh-1

| SOURCE | PRODUCT |
|----------------------------------|------------------------|
| American Welding Alloys | AWA EWTh-1 |
| Champion Welding Products | CHAMPION EWTh-1 |
| Cronatron Welding Systems | Cronatron EWTh-1 |
| ESAB WELDING & CUTTING PRODUCTS | HELIARC 1% THORIATED |
| HARRIS WELCO | THERMO 1% TUNGSTEN |
| Inweld Corporation | INWELD 1% THORIATED |
| Nassau Research Corp. | 1% Thoriated |
| WELDWIRE COMPANY INC. | WW 1% Thoriated |

EWTh-2

| SOURCE | PRODUCT |
|---------------------------------------|--|
| All-State Welding Products | 2% Thoriated Tungsten Electrode |
| American Filler Metals Company | AFM 2% Thoriated |
| American Welding Alloys | AWA EWTh-2 |
| Champion Welding Products | CHAMPION EWTh-2 |
| Cronatron Welding Systems | Cronatron EWTh-2 |
| ESAB WELDING & CUTTING PRODUCTS | HELIARC 2% THORIATED |
| HARRIS WELCO | THERMO 2% TUNGSTEN |
| HILARIUS HAARLEM HOLLAND BV | HILCO TUNGSTEN WT20 |
| Inweld Corporation | INWELD 2% THORIATED |
| Nassau Research Corp. | 2% Thoriated |
| NATWELD | 2% Thoriated Tungsten |
| Oxford Alloys, Inc. | OXFORD EWTh-2 |
| Washington Alloy Company | 2% Thoriated Tungsten Electrode |
| WELDWIRE COMPANY INC. | WW 2% Thoriated |

EWZr-1

| SOURCE | PRODUCT |
|---------------------------------------|------------------------|
| American Filler Metals Company | AFM Zirconiased |
| American Welding Alloys | AWA EWZr-1 |
| Champion Welding Products | CHAMPION EWZR |
| ESAB WELDING & CUTTING PRODUCTS | HELIARC ZIRCONIA |
| HARRIS WELCO | THERMO ZIRCONIATED |
| HILARIUS HAARLEM HOLLAND BV | HILCO TUNGSTEN WZ8 |
| Inweld Corporation | INWELD ZIRCONIATED |

A5.12/A5.12M-98, TUNGSTEN Electrodes For Arc Welding

See ANSI/AWS A5.12/A5.12M-98, Specification for Tungsten and Tungsten Alloy Electrodes for Arc Welding and Cutting

EWZr-1 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|---------------------|
| Nassau Research Corp. | Zirconium Tungsten |
| Oxford Alloys, Inc. | OXFORD EWZr-1 |
| Washington Alloy Company | Zirconated Tungsten |

EWG

| SOURCE | PRODUCT |
|--------------------------|---------------------|
| American Welding Alloys | AWA EWG |
| Inweld Corporation | INWELD RARE EARTH |
| Nassau Research Corp. | Rare Earth Tungsten |
| NATWELD | Rare Earth |
| Washington Alloy Company | 3-Mix Tungsten |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

RFe5-A

| SOURCE | PRODUCT |
|----------------------------------|----------------|
| Bohler Thyssen Welding USA, Inc. | UTP A696 |
| Crown Alloys Company | Crown HSS-10 |
| Nassau Research Corp. | Midas Tig |
| Weld Mold Company | 966 |

RFe5-B

| SOURCE | PRODUCT |
|-----------------------|----------------|
| Nassau Research Corp. | Midas Tig |
| Weld Mold Company | 362 |

RFeCr-A1

| SOURCE | PRODUCT |
|--|-----------------|
| EXSA S.A. - División Soldaduras OERLIKON | CITODUR 1000 |
| Inweld Corporation | INWELD RFeCr-A1 |
| Rankin Industries, Inc. | RANITE DG |
| Stoody Company - Thermadyne Industries | Tube Stoodite |

RCoCr-A

| SOURCE | PRODUCT |
|--|----------------------|
| All-State Welding Products | HS-6 |
| American Filler Metals Company | AFM 6B |
| American Welding Alloys | AWA No. 6 Cobalt |
| Arctec Alloys Limited | ARCTEC 6 COBALT BARE |
| Astrolite Alloys | Astrolite No. 6 |
| Bohler Thyssen Welding USA, Inc. | Soudostel 6 CL |
| CARBO-WELD Schweissmaterialien GmbH | CARBO TS 6 |
| Champion Welding Products | CHAMPION 6 |
| COR-MET INC. | COR-FACE 6 : SWT |
| Crown Alloys Company | Royal 116-T |
| EXSA S.A.- División Fontargen | FON A 726 b |
| Industrial Welding Corporation | NIHONWELD NHF-ST6R |
| Inweld Corporation | INWELD Co-6 BARE |
| Kobe Steel, LTD. | HF-6R |
| LANCASTER ALLOYS COMPANY | LAC C158 |
| Lincoln Electric Co. | Wearshield C6 (bare) |
| Nassau Research Corp. | Olympia |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

RCoCr-A (Continued from previous page)

| SOURCE | PRODUCT |
|---|--------------------------|
| NATWELD | NATWELD #6 BARE |
| Nippon Welding Rod Co., Ltd. | WEL TIG S66 |
| NOF Corporation | SL-66 |
| Oxford Alloys, Inc. | OXFORD RCoCr-A |
| Polymet Corporation | PMet 906 |
| Postle Industries | Postalloy 2506-B |
| Protective Metal Alloys, Inc. | PMA #6 |
| Rankin Industries, Inc. | RANCO 6 |
| Sodel Ltd | Sodel 6A, Sodel 6P |
| Stoody Company - Thermadyne Industries | Stoodite 6 Bare |
| UNITED STATES WELDING CORPORATION | TURBOCAST 6 |
| Uniweld Products, Inc. | COBALT 6 |
| Washington Alloy Company | Cobalt No. 6 Bare |
| Weartech International, Inc. | WEARTECH-6 |
| Weld Mold Company | 606 |
| WELDWIRE COMPANY INC. | WW C06B |

RCoCr-B

| SOURCE | PRODUCT |
|--|-----------------------|
| All-State Welding Products | HS-12 |
| American Filler Metals Company | AFM 12B |
| American Welding Alloys | AWA No. 12 Cobalt |
| Arctec Alloys Limited | ARCTEC 12 COBALT BARE |
| Astrolite Alloys | Astrolite No.12 |
| Bohler Thyssen Welding USA, Inc. | Soudostel 12 CL |
| CARBO-WELD Schweissmaterialien GmbH | CARBO TS 12 |
| Champion Welding Products | CHAMPION 12 |
| COR-MET INC. | COR-FACE 12 : SWT |
| EXSA S.A.- División Fontargen | FON A 726 c |
| Industrial Welding Corporation | NIHONWELD NHF-ST12R |
| Inweld Corporation | INWELD Co-12 BARE |
| Kobe Steel, LTD. | HF-3R |
| LANCASTER ALLOYS COMPANY | LAC C157 |
| Nassau Research Corp. | Olympia |
| Nippon Welding Rod Co., Ltd. | WEL TIG S33 |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

RCoCr-B (Continued from previous page)

| SOURCE | PRODUCT |
|---|---------------------------|
| NOF Corporation | SL-33 |
| Oxford Alloys, Inc. | OXFORD RCoCr-B |
| Polymet Corporation | PMet 912 |
| Postle Industries | Postalloy 2512-B |
| Protective Metal Alloys, Inc. | PMA #12 |
| Rankin Industries, Inc. | RANCO 12 |
| Sodel Ltd | Sodel 12A, Sodel 12P |
| Stoody Company - Thermadyne Industries | Stoodite 12 Bare |
| UNITED STATES WELDING CORPORATION | TURBOCAST 12 |
| Uniweld Products, Inc. | COBALT 12 |
| Washington Alloy Company | Cobalt No. 12 Bare |
| Weartech International, Inc. | WEARTECH-12 |
| Weld Mold Company | 612 |
| WELDWIRE COMPANY INC. | WW C12B |

RCoCr-C

| SOURCE | PRODUCT |
|--|----------------------|
| All-State Welding Products | HS-1 |
| American Filler Metals Company | AFM 1B |
| American Welding Alloys | AWA No. 1 Cobalt |
| Arctec Alloys Limited | ARCTEC 1 COBALT BARE |
| Astrolite Alloys | Astrolite No. 1 |
| Bohler Thyssen Welding USA, Inc. | Soudostel 1 CL |
| CARBO-WELD Schweissmaterialien GmbH | CARBO TS 1 |
| Champion Welding Products | CHAMPION 1 |
| COR-MET INC. | COR-FACE 1 : SWT |
| EXSA S.A.- División Fontargen | FON A 726 a |
| Industrial Welding Corporation | NIHONWELD NHF-ST1R |
| Inweld Corporation | INWELD Co-1 BARE |
| Kobe Steel, LTD. | HF-1R |
| LANCASTER ALLOYS COMPANY | LAC C164 |
| Lincoln Electric Co. | Wearshield C1 (bare) |
| Nassau Research Corp. | Olympia |
| Nippon Welding Rod Co., Ltd. | WEL TIG S11 |
| NOF Corporation | SL11 |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

RCoCr-C (Continued from previous page)

| SOURCE | PRODUCT |
|--|-------------------|
| Oxford Alloys, Inc. | OXFORD RCoCr-C |
| Polymet Corporation | PMet 901 |
| Postle Industries | Postalloy 2501-B |
| Protective Metal Alloys, Inc. | PMA #1 |
| Rankin Industries, Inc. | RANCO 1 |
| Sodel Ltd | Sodel 1G |
| Stoody Company - Thermadyne Industries | Stoodite 1 Bare |
| UNITED STATES WELDING CORPORATION | TURBOCAST 1 |
| Uniweld Products, Inc. | COBALT 1 |
| Washington Alloy Company | Cobalt No. 1 Bare |
| Weartech International, Inc. | WEARTECH-1 |
| Weld Mold Company | 601 |
| WELDWIRE COMPANY INC. | WW C01B |

RCuAl-C

| SOURCE | PRODUCT |
|---------------------------|------------------|
| Ampco Metal Inc. | AMPCO-TRODE 200 |
| Champion Welding Products | CHAMPION RCuAl-C |
| Inweld Corporation | INWELD RCuAl-C |
| Weld Mold Company | 4200 |

RCuAl-D

| SOURCE | PRODUCT |
|-------------------------------|------------------|
| Ampco Metal Inc. | AMPCO-TRODE 250 |
| Champion Welding Products | CHAMPION RCuAl-D |
| EXSA S.A.- División Fontargen | FON A 722 TIG |
| Inweld Corporation | INWELD RCuAl-D |
| Weld Mold Company | 4250 |

RCuAl-E

| SOURCE | PRODUCT |
|---------------------------|------------------|
| Ampco Metal Inc. | AMPCO-TRODE 300 |
| Champion Welding Products | CHAMPION RCuAl-E |
| Inweld Corporation | INWELD RCuAl-E |
| Weld Mold Company | 4300 |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

RCuSn-D

| SOURCE | PRODUCT |
|---------------------------|------------------|
| American Welding Alloys | AWA RCuSn-D |
| Champion Welding Products | CHAMPION RCuSn-D |

RNiCr-A

| SOURCE | PRODUCT |
|--|-------------------|
| Astrolite Alloys | Astrolite RNiCr-A |
| Champion Welding Products | CHAMPION NiCr-A |
| Inweld Corporation | INWELD RNiCr-A |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD RNiCr-A |
| Protective Metal Alloys, Inc. | VERSAlloy #40 |
| Stoody Company - Thermadyne Industries | Deloro 40 |
| Washington Alloy Company | D40 (RNiCr-A) |
| Weartech International, Inc. | WEARTECH 40 |
| Weld Mold Company | 639 |

RNiCr-B

| SOURCE | PRODUCT |
|--|-------------------|
| All-State Welding Products | HS-5 |
| Astrolite Alloys | Astrolite RNiCr-B |
| Champion Welding Products | CHAMPION NiCr-B |
| Inweld Corporation | INWELD RNiCr-B |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD RNiCr-B |
| Protective Metal Alloys, Inc. | VERSAlloy #50 |
| Stoody Company - Thermadyne Industries | Deloro 50 |
| Washington Alloy Company | D50 (RNiCr-B) |
| Weartech International, Inc. | WEARTECH 50 |
| Weld Mold Company | 640 |

RNiCr-C

| SOURCE | PRODUCT |
|-------------------------------|-------------------|
| Astrolite Alloys | Astrolite RNiCr-C |
| Champion Welding Products | CHAMPION NiCr-C |
| Crown Alloys Company | Royal 119-T |
| EXSA S.A.- División Fontargen | FON A 727 |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

RNiCr-C (Continued from previous page)

| SOURCE | PRODUCT |
|---|-----------------------|
| Inweld Corporation | INWELD RNiCr-C |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD RNiCr-C |
| Protective Metal Alloys, Inc. | VERSAlloy #60 |
| Stoody Company - Thermadyne Industries | Deloro 60 |
| Washington Alloy Company | D60 (RNiCr-C) |
| Weartech International, Inc. | WEARTECH 60 |

ERCuSi-A

| SOURCE | PRODUCT |
|---------------------------------------|--------------------------------------|
| AIR LIQUIDE CANADA INC. | LA Everdur 656 |
| All-State Welding Products | Silicon Bronze |
| American Filler Metals Company | AFM Silicon Bronze |
| American Welding Alloys | AWA ERCuSi-A, AWA CuSi-A |
| Ampco Metal Inc. | SIL-TRODE |
| Arctec Alloys Limited | ARCTEC 656 |
| Bohler Thyssen Welding USA, Inc. | UTP Everdur |
| Champion Welding Products | CHAMPION SiBR |
| Cronatron Welding Systems | Cronaweld ERCuSi-A, Cronamig RCuSi-A |
| Crown Alloys Company | Silicon Bronze |
| Dytron Corporation | SILICON BRONZE |
| ESAB AB | OK Autrod 19.30, Tigrod 19.30 |
| ESAB WELDING & CUTTING PRODUCTS | OXWELD 26 SILICON BRONZE |
| Euroweld, Ltd. | ER Cu Si-A |
| EXSA S.A.- División Fontargen | FON A 202 MIG, FON A 202 TIG |
| HARRIS WELCO | WELCO SILICON BRONZE |
| HILARIUS HAARLEM HOLLAND BV | HILCO Silbronze |
| Inweld Corporation | INWELD SIL BRONZE |
| Lincoln Electric Co. | Lincoln Silicon Bronze, LNT CuSi 3 |
| Messer - MG Systems & Welding Inc. | MG 382 |
| Midalloy, Inc. | Midalloy ERCuSi-A |
| Nassau Research Corp. | Venus Tig |
| National-Standard | NS-656 Silicon Bronze |
| NATWELD | SILICON BRONZE |
| NATWELD | SILICON BRONZE |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

ERCuSi-A (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|--------------------------------|
| Nippon Welding Rod Co., Ltd. | WEL MIG EP35 |
| NOF Corporation | TG960B, MG960B |
| Oxford Alloys, Inc. | OXFORD ERCuSi-A |
| Oxford Alloys, Inc. | OXFORD ERCuSi-A |
| Plasticos y Alambres, S. A. | SOLDAMATIC MW-SiB |
| Rigby-Maryland (Stainless) Ltd. | RIMA C9 |
| Sodel Ltd | Sodel Mig 6063, Sodel Tig 6063 |
| Uniweld Products, Inc. | SILBROTIG, SILBROMIG |
| Washington Alloy Company | Silicon Bronze, Alloy 656 |
| Weld Mold Company | 56-B |
| WELDWIRE COMPANY INC. | WW Silbronze |
| Wisconsin Wire Works Inc. | WWW SIL-WELD |

ERCuAl-A2

| SOURCE | PRODUCT |
|---------------------------------|------------------------------|
| All-State Welding Products | Aluminum Bronze A-2 |
| American Filler Metals Company | AFM Alum Bronze A2 |
| American Welding Alloys | AWA ERCuAl-A3, AWA Cu Al-A2 |
| Ampco Metal Inc. | AMPCO-TRODE 10 |
| Arctec Alloys Limited | ARCTEC 618 |
| Champion Welding Products | CHAMPION Aluminum Bronze |
| Crown Alloys Company | Royal ALB-10-2, ALB-30 |
| Dytron Corporation | ALBR-A2 |
| Euroweld, Ltd. | ER Cu Al-A2 |
| HARRIS WELCO | WELCO ALUMINUM BRONZE A2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Albronze 9Fe |
| Inweld Corporation | INWELD ALUM BRONZE-A2 |
| Nassau Research Corp. | Venus Tig |
| NATWELD | ALUMINUM BRONZE A2 |
| NATWELD | ALUMINUM BRONZE A2 |
| Nippon Welding Rod Co., Ltd. | WEL MIG CuAl-A2, TIG CuAl-A2 |
| NOF Corporation | TG900, MG900 |
| Oxford Alloys, Inc. | OXFORD ERCuAl-A2 |
| Oxford Alloys, Inc. | OXFORD ERCuAl-A2 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALU-BRONZE C13 |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

ERCuAl-A2 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|---------------------------------------|
| Sodel Ltd | Sodel Mig 6061, Sodel Tig 6061 |
| Uniweld Products, Inc. | ALBROTIG, ALBROMIG |
| Washington Alloy Company | Aluminum Bronze A-2, Alloy 618 |
| Weld Mold Company | 4010 |
| WELDWIRE COMPANY INC. | WW ERCuAl-A2 |
| Wisconsin Wire Works Inc. | WWW A2 BRONZE WELD |

ERCuAl-A3

| SOURCE | PRODUCT |
|----------------------------------|---------------------------------------|
| American Welding Alloys | AWA ERCuAl-A3, AWA CuAl-A3 |
| Ampco Metal Inc. | AMPCO-TRODE 150 |
| Champion Welding Products | CHAMPION ERCuAl-A3 |
| Dytron Corporation | ALBR-A3 |
| Inweld Corporation | INWELD ALUM BRONZE A3 |
| Nassau Research Corp. | Venus Tig |
| Oxford Alloys, Inc. | OXFORD ERCuAl-A3 |
| Oxford Alloys, Inc. | OXFORD ERCuAl-A3 |
| Washington Alloy Company | Aluminum Bronze A-3, Alloy 624 |
| Weld Mold Company | 4150 |
| WELDWIRE COMPANY INC. | WW ERCuAl-A3 |
| Wisconsin Wire Works Inc. | WWW A3 BRONZE WELD |

ERCuSn-A

| SOURCE | PRODUCT |
|---------------------------------------|--------------------------|
| American Filler Metals Company | AFM Phos-Bronze A |
| American Welding Alloys | AWA ERCuSn-A, AWA CuSn-A |
| Bohler Thyssen Welding USA, Inc. | UTP A32 |
| Champion Welding Products | CHAMPION CuSn-A |
| Dytron Corporation | PHOS BRONZE A |
| Euroweld, Ltd. | ER Cu Si-A |
| HILARIUS HAARLEM HOLLAND BV | HILCO Tinbronze |
| Inweld Corporation | INWELD PHOS BRONZE-A |
| Lincoln Electric Co. | LNT CuSn 6 |
| Nassau Research Corp. | Venus |
| Oxford Alloys, Inc. | OXFORD ERCuSn-A |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

ERCuSn-A (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|--------------------------|
| Rigby-Maryland (Stainless) Ltd. | RIMA BRONZE 6-C11 |
| Uniweld Products, Inc. | PHOSBROTIG, PHOSBROMIG |
| Washington Alloy Company | Phos-Bronze A, Alloy 518 |
| Weld Mold Company | 4320, 4325 |
| WELDWIRE COMPANY INC. | WW Phosbronze A |
| Wisconsin Wire Works Inc. | WWW PHOS-BRONZE WELD A |

EFe5-A

| SOURCE | PRODUCT |
|--------------------------------|------------------|
| Champion Welding Products | CHAMPION Fe5-A |
| Crown Alloys Company | Crown HSS-20 |
| Industrial Welding Corporation | NIHONWELD NHF-90 |
| Nassau Research Corp. | Midas |
| Weld Mold Company | 966 |

EFe5-B

| SOURCE | PRODUCT |
|----------------------------------|-------------------|
| Bohler Thyssen Welding USA, Inc. | UTP 690 |
| Champion Welding Products | CHAMPION Fe5-B |
| EXSA S.A.- División Fontargen | FON E 715 |
| Industrial Welding Corporation | NIHONWELD NHF-90H |
| Nassau Research Corp. | Midas |
| Washington Alloy Company | Everwear 800 |

EFe5-C

| SOURCE | PRODUCT |
|--|-------------------|
| Champion Welding Products | CHAMPION Fe5-C |
| Crown Alloys Company | Crown WH-20 |
| EXSA S.A. - División Soldaduras OERLIKON | Toolcord |
| Industrial Welding Corporation | NIHONWELD NHF-90S |
| Nassau Research Corp. | Midas |
| Weld Mold Company | 925 |

EFeMn-A

| SOURCE | PRODUCT |
|----------------------------|-----------|
| All-State Welding Products | Ni-Matrix |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

EFeMn-A (Continued from previous page)

| SOURCE | PRODUCT |
|---|--------------------------------|
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS SD-Mangan, AS SD-Mangan 165 |
| CARBO-WELD Schweissmaterialien GmbH | CARBODUR MN |
| Champion Welding Products | CHAMPION NiMn |
| Crown Alloys Company | Royal 235 |
| ESAB AB | OK 86.28 |
| ESAB WELDING & CUTTING PRODUCTS | WEAR-ARC NICKEL MAGANESE |
| HARRIS WELCO | WELCO 240 NI-MANG |
| Indura S.A. Industria y Comercio | TIMANG |
| Industrial Welding Corporation | NIHONWELD NHF-HMn |
| Inweld Corporation | INWELD EFeMn-A |
| Nassau Research Corp. | Apollo |
| Oxford Alloys, Inc. | OXFORD EFeMn-A |
| Postle Industries | Postalloy 205 |
| Rankin Industries, Inc. | RANMANG 1 |
| Stoody Company - Thermadyne Industries | Dynamang |
| Washington Alloy Company | Ni-Mang 14 |
| Weld Mold Company | 325 |

EFeMn-B

| SOURCE | PRODUCT |
|--|----------------------|
| CARBO-WELD Schweissmaterialien GmbH | CARBODUR MNCR |
| Electromanufacturas S.A | West Arco Soldomang |
| EXSA S.A. - División Soldaduras OERLIKON | Citomangan |
| EXSA S.A.- División Fontargen | FON E 713 |
| HYUNDAI WELDING PRODUCTS, INC. | S-13MN.B |
| Industrial Welding Corporation | NIHONWELD NHF-HNiMn |
| Nassau Research Corp. | Apollo |
| Washington Alloy Company | Manganese 900 |

EFeCr-A1

| SOURCE | PRODUCT |
|--|--|
| CARBO-WELD Schweissmaterialien GmbH | CARBODUR 59, CARBODUR 68 |
| Champion Welding Products | CHAMPION FeCr-A1 |
| Electromanufacturas S.A | West Rode West Hard 70, West Rode Mill, West-Crome |
| EXSA S.A.- División Fontargen | FON E716 |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

EFeCr-A1 (Continued from previous page)

| SOURCE | PRODUCT |
|--|----------------------|
| Industrial Welding Corporation | NHF-35CRB |
| Inweld Corporation | INWELD EFeCr-A1 |
| Nassau Research Corp. | Apollo |
| Postle Industries | Postalloy 214 |
| Rankin Industries, Inc. | RANITE 35 |
| Stoody Company - Thermadyne Industries | Coated Tube Stoodite |
| Washington Alloy Company | Chrome-Carb 60 |
| Weld Mold Company | 357 |

ECoCr-A

| SOURCE | PRODUCT |
|--|--------------------------------|
| American Filler Metals Company | AFM 6C |
| American Welding Alloys | AWA No. 6 Cobalt |
| Arcos Alloys | Arcos Cobend 6 |
| Arctec Alloys Limited | ARCTEC 6 COBALT ALLOY |
| Astrolite Alloys | Astrolite ECoCr-A |
| Bohler Thyssen Welding USA, Inc. | UTP Celsit 706, Soudostel 6 AP |
| CARBO-WELD Schweissmaterialien GmbH | CARBO SK 6, CARBO S 6 |
| Champion Welding Products | CHAMPION 6 |
| COR-MET INC. | COR-FACE 6 E-14 |
| Cronatron Welding Systems | Cronawear ECoCr-A |
| Crown Alloys Company | Royal 116 |
| D&H Secheron Electrodes Limited | COBALTHERME-6 |
| ESAB AB | OK 93.06 |
| EXSA S.A.- División Fontargen | FON E 726 B |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilcostel 6 |
| Indura S.A. Industria y Comercio | INDURA COBALT-6 |
| Industrial Welding Corporation | NHF-ST6 |
| Inweld Corporation | INWELD Co-6FC |
| Kobe Steel, LTD. | HF-6 |
| Lincoln Electric Co. | Wearshield C6 |
| McKay Welding Products | HARDALLOY 6-C |
| Nassau Research Corp. | Olympia |
| Nippon Welding Rod Co., Ltd. | WEL S66 |
| NOF Corporation | SL-6 |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

ECoCr-A (Continued from previous page)

| SOURCE | PRODUCT |
|---|--------------------------|
| Oxford Alloys, Inc. | OXFORD ECoCr-A |
| Postle Industries | Postalloy 2506 |
| Protective Metal Alloys, Inc. | PMA #6E |
| Rankin Industries, Inc. | RANCO 6 |
| Sodel Ltd | Sodel 6A |
| Stoody Company - Thermadyne Industries | Stoodite 6 Coated |
| Uniweld Products, Inc. | COBALT 6FC |
| Washington Alloy Company | Cobalt No. 6 FC |
| Weartech International, Inc. | WEARTECH-6E |
| Weld Mold Company | 606 |
| WELDWIRE COMPANY INC. | WW NA6C |

ECoCr-B

| SOURCE | PRODUCT |
|--|---------------------------------|
| American Filler Metals Company | AFM 12C |
| American Welding Alloys | AWA No. 12 Cobalt |
| Arcos Alloys | Arcos Cobend 12 |
| Arctec Alloys Limited | ARCTEC 12 COBALT ALLOY |
| Astrolite Alloys | Astrolite ECoCr-B |
| Bohler Thyssen Welding USA, Inc. | UTP Celsit 712, Soudostel 12 AP |
| CARBO-WELD Schweissmaterialien GmbH | CARBO S 12 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO SK 12 |
| Champion Welding Products | CHAMPION 12 |
| COR-MET INC. | COR-FACE 12 E-14 |
| ESAB AB | OK 93.12 |
| EXSA S.A.- División Fontargen | FON E 726 C |
| Industrial Welding Corporation | NHF-ST12 |
| Inweld Corporation | INWELD Co-12FC |
| McKay Welding Products | HARDALLOY 12-C |
| Nassau Research Corp. | Olympia |
| Nippon Welding Rod Co., Ltd. | WEL S33 |
| NOF Corporation | SL-3 |
| Oxford Alloys, Inc. | OXFORD ECoCr-B |
| Postle Industries | Postalloy 2512 |
| Protective Metal Alloys, Inc. | PMA #12E |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

ECoCr-B (Continued from previous page)

| SOURCE | PRODUCT |
|---|---------------------------|
| Rankin Industries, Inc. | RANCO 12 |
| Sodel Ltd | Sodel 12A |
| Stoody Company - Thermadyne Industries | Stoodite 12 Coated |
| Uniweld Products, Inc. | COBALT 12FC |
| Washington Alloy Company | Cobalt No. 12 FC |
| Weartech International, Inc. | WEARTECH-12E |
| Weld Mold Company | 612 |
| WELDWIRE COMPANY INC. | WW NA12C |

ECoCr-C

| SOURCE | PRODUCT |
|---|--------------------------------|
| American Filler Metals Company | AFM 1C |
| American Welding Alloys | AWA No. 1 Cobalt |
| Arcos Alloys | Arcos Cobend 1 |
| Arctec Alloys Limited | ARCTEC 1 COBALT ALLOY |
| Astrolite Alloys | Astrolite ECoCr-C |
| Bohler Thyssen Welding USA, Inc. | UTP Celsit 701, Soudostel 1 AP |
| CARBO-WELD Schweissmaterialien GmbH | CARBO S 1, CARBO SK 1 |
| Champion Welding Products | CHAMPION 1 |
| COR-MET INC. | COR-FACE 1 E-14 |
| ESAB AB | OK 93.01 |
| EXSA S.A.- División Fontargen | FON E 726 A |
| Industrial Welding Corporation | NHF-ST1 |
| Inweld Corporation | INWELD Co-1FC |
| Kobe Steel, LTD. | HF-1 |
| Lincoln Electric Co. | Wearshield C1 |
| McKay Welding Products | HARDALLOY 1-C |
| Nassau Research Corp. | Olympia |
| Nippon Welding Rod Co., Ltd. | WEL S11 |
| Oxford Alloys, Inc. | OXFORD ECoCr-C |
| Postle Industries | Postalloy 2501 |
| Protective Metal Alloys, Inc. | PMA #1E |
| Rankin Industries, Inc. | RANCO 1 |
| Sodel Ltd | Sodel 1A |
| Stoody Company - Thermadyne Industries | Stoodite 1 Coated |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

ECoCr-C (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------|-----------------|
| Uniweld Products, Inc. | COBALT 1FC |
| Washington Alloy Company | Cobalt No. 1 FC |
| Weartech International, Inc. | WEARTECH-1E |
| Weld Mold Company | 601 |
| WELDWIRE COMPANY INC. | WW NA04C |

ECuSi

| SOURCE | PRODUCT |
|--------------------------------|-------------------------------|
| American Filler Metals Company | AFM SB Electrode |
| American Welding Alloys | AWA ECuSi, AWA CuSi |
| Champion Welding Products | CHAMPION 656 |
| HARRIS WELCO | WELCO 223 |
| Industrial Welding Corporation | NIHONWELD N-CuSi |
| Inweld Corporation | INWELD SIL BRONZE |
| Nassau Research Corp. | Venus |
| NOF Corporation | KE960 |
| Oxford Alloys, Inc. | OXFORD ECuSi |
| Washington Alloy Company | Rainier 6A, Silicon Bronze FC |
| Weld Mold Company | 4325 |
| WELDWIRE COMPANY INC. | WW CuSi-C |

ECuAl-A2

| SOURCE | PRODUCT |
|--|---------------------------|
| All-State Welding Products | 20 |
| American Filler Metals Company | AFM A-2 Electrode |
| American Welding Alloys | AWA ECuAl-A2, AWA CuAl-A2 |
| Ampco Metal Inc. | AMPCO-TRODE 10 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO ALBRO AC |
| Champion Welding Products | CHAMPION Al Bronze |
| Crown Alloys Company | Royal ALB-20 |
| Euroweld, Ltd. | E Cu Al-A2 |
| EXSA S.A. - División Soldaduras OERLIKON | Citobronce Al |
| EXSA S.A.- División Fontargen | FON E 215 |
| HARRIS WELCO | WELCO 55 |
| Industrial Welding Corporation | NIHONWELD N-CuAl-A2 |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

ECuAl-A2 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|-----------------------------------|
| Inweld Corporation | INWELD ALUM BRONZE A2 |
| Nassau Research Corp. | Venus |
| NATWELD | ALUMINUM BRONZE A-2 |
| Oxford Alloys, Inc. | OXFORD ECuAl-A2 |
| Sodel Ltd | Sodel 661 |
| Washington Alloy Company | Rainier 5A, Aluminum Bronze A2 FC |
| Weld Mold Company | 4010 |
| WELDWIRE COMPANY INC. | WW CuAl-A2-C |

ECuAl-B

| SOURCE | PRODUCT |
|-------------------------------------|-------------------------|
| American Welding Alloys | AWA ECuAl-B, AWA CuAl-B |
| Ampco Metal Inc. | AMPCO-TRODE 160 |
| CARBO-WELD Schweissmaterialien GmbH | CARBOTRODE 200 |
| EXSA S.A.- División Fontargen | FON E 722 |
| Industrial Welding Corporation | NIHONWELD N-CuAl-B |
| Inweld Corporation | INWELD ECuAl-B |
| Nassau Research Corp. | Venus |
| Oxford Alloys, Inc. | OXFORD ECuAl-B |
| Washington Alloy Company | Rainier 160 |
| Weld Mold Company | 4160 |
| WELDWIRE COMPANY INC. | WW CuAl-B |

ECuAl-C

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| American Welding Alloys | AWA CuAl-C |
| Ampco Metal Inc. | AMPCO-TRODE 200 |
| Industrial Welding Corporation | NIHONWELD N-CuAl-C |
| Oxford Alloys, Inc. | OXFORD ECuAl-C |
| Weld Mold Company | 4200 |

ECuAl-D

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| American Welding Alloys | AWA CuAl-D |
| Ampco Metal Inc. | AMPCO-TRODE 250 |
| Industrial Welding Corporation | NIHONWELD N-CuAl-D |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

ECuAl-D (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------|----------------|
| Oxford Alloys, Inc. | OXFORD ECuAl-D |
| Weld Mold Company | 4250 |

ECuAl-E

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| Ampco Metal Inc. | AMPCO-TRODE 300 |
| Industrial Welding Corporation | NIHONWELD N-CuAl-E |
| Oxford Alloys, Inc. | OXFORD ECuAl-E |
| Weld Mold Company | 4300 |

ECuSn-A

| SOURCE | PRODUCT |
|--|------------------------------|
| Airco Filler Metals | Airco 70 |
| American Filler Metals Company | AFM Phos-Bronze A |
| American Welding Alloys | AWA ECuSn-A, AWA CuSn-A |
| Bohler Thyssen Welding USA, Inc. | UTP 32 |
| Champion Welding Products | CHAMPION 570 Phos Bronze |
| Cronatron Welding Systems | Cronaweld ECuSn-A |
| Crown Alloys Company | Royal 3100 |
| EXSA S.A. - División Soldaduras OERLIKON | Citobronce |
| EXSA S.A.- División Fontargen | FON E214 |
| Indura S.A. Industria y Comercio | INDURA 70 |
| Industrial Welding Corporation | NIHONWELD N-CuSn-A |
| Inweld Corporation | INWELD PHOS BRONZE-A |
| Lincoln Electric Co. | Aerisweld |
| Murex Welding Products | Murex PB-70 |
| Nassau Research Corp. | Venus |
| NOF Corporation | KP950 |
| Oxford Alloys, Inc. | OXFORD ECuSn-A |
| Washington Alloy Company | Rainier 7A, Phos-Bronze A FC |
| WELDWIRE COMPANY INC. | WW PhosbronzeA-C |

ECuSn-C

| SOURCE | PRODUCT |
|--------------------------------|---|
| All-State Welding Products | Phos Bronze "C" |
| American Filler Metals Company | AFM Bronze C Electrode, AFM Phos-Bronze C |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

ECuSn-C (Continued from previous page)

| SOURCE | PRODUCT |
|---|-------------------------------------|
| American Welding Alloys | AWA ECuSn-C, AWA CuSn-C |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS Bronz |
| CARBO-WELD Schweissmaterialien GmbH | CARBO ZIBRO 6 AC |
| Electromanufacturas S.A | West Bronze-E |
| Euroweld, Ltd. | E Cu Sn-C |
| EXSA S.A.- División Fontargen | FON E218 |
| HARRIS WELCO | WELCO 23 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Bronsil |
| Industrial Welding Corporation | NIHONWELD N-CuSn-C |
| Inweld Corporation | INWELD PHOS BRONZE-C |
| Messer - MG Systems & Welding Inc. | MGCuSn-C |
| Nassau Research Corp. | Venus |
| NATWELD | PHOS BRONZE C |
| Oxford Alloys, Inc. | OXFORD ECuSn-C |
| Washington Alloy Company | Rainier 3A, Phos-Bronze C FC |
| Weld Mold Company | 4320 |
| WELDWIRE COMPANY INC. | WW PhosbronzeC-C |

ENiCr-A

| SOURCE | PRODUCT |
|--------------------------------------|------------------------|
| American Welding Alloys | AWA NiCr-A |
| Astrolite Alloys | Astrolite ENiCr-A |
| Champion Welding Products | CHAMPION NiCr-A |
| Industrial Welding Corporation | NIHONWELD N-NiCr-A |
| Oxford Alloys, Inc. | OXFORD ENiCr-A |
| Protective Metal Alloys, Inc. | VERSAlloy #40E |
| Wall Colmonoy Corporation | Colmonoy 4 |
| Washington Alloy Company | D40 FC |
| Weartech International, Inc. | WEARTECH 40E |
| Weld Mold Company | 639 |

ENiCr-B

| SOURCE | PRODUCT |
|-------------------------|-------------------|
| American Welding Alloys | AWA NiCr-B |
| Astrolite Alloys | Astrolite ENiCr-B |

A5.13-80R, SOLID SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.13-80R, Specification for Solid Surfacing Welding Rods and Electrodes

ENiCr-B (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| Champion Welding Products | CHAMPION NiCr-B |
| Industrial Welding Corporation | NIHONWELD N-NiCr-B |
| Oxford Alloys, Inc. | OXFORD ENiCr-B |
| Protective Metal Alloys, Inc. | VERSAlloy #50E |
| Wall Colmonoy Corporation | Colmonoy 5 |
| Washington Alloy Company | D50 FC |
| Weartech International, Inc. | WEARTECH 50E |
| Weld Mold Company | 640 |

ENiCr-C

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| American Welding Alloys | AWA NiCr-C |
| Astrolite Alloys | Astrolite ENiCr-C |
| Champion Welding Products | CHAMPION NiCr-C |
| Industrial Welding Corporation | NIHONWELD N-NiCr-C |
| Oxford Alloys, Inc. | OXFORD ENiCr-C |
| Protective Metal Alloys, Inc. | VERSAlloy #60E |
| Wall Colmonoy Corporation | Colmonoy 6 |
| Washington Alloy Company | D60 FC |
| Weartech International, Inc. | WEARTECH 60E |
| Weld Mold Company | 641 |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNI-1

| SOURCE | PRODUCT |
|--|------------------------------------|
| All-State Welding Products | 4-T |
| American Filler Metals Company | AFM 61 |
| American Welding Alloys | AWA Alloy 61 |
| Arcos Alloys | Arcos 861 |
| Astrolite Alloys | Astrolite ERNi-1 |
| Bohler Thyssen Welding USA, Inc. | UTP A80 Ni, Soudotape NiTi (strip) |
| Champion Welding Products | CHAMPION 61 |
| Crown Alloys Company | Royal 11-10, 11-30 |
| ESAB AB | OK Autrod 19.92, Tigrod 19.92 |
| Euroweld, Ltd. | ER Ni-1 |
| EXSA S.A.- División Fontargen | FON A 501 MIG, FON A 501 TIG |
| Inco Alloys International, Inc. | Nickel Filler Metal 61 |
| Inweld Corporation | INWELD NA-61 |
| Lincoln Electric Co. | LNM/LNT NiTi |
| Midalloy, Inc. | Midalloy ERNi-1 |
| NATWELD | NATWELD 61 |
| Nippon Welding Rod Co., Ltd. | WEL MIG Ni-1, TIG Ni-1 |
| NOF Corporation | TGNi, MGNi, ATNi |
| Oxford Alloys, Inc. | OXFORD ERNi-1 |
| Polymet Corporation | PMet 861 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 61 |
| SOWESCO | Pinnacle Alloys ERNi-1 |
| Techalloy Company, Inc. | Techalloy 208 |
| Uniweld Products, Inc. | UNI-NI-61 |
| Washington Alloy Company | Alloy 61 |
| WELDWIRE COMPANY INC. | WW NA061 |

ERNICu-7

| SOURCE | PRODUCT |
|---------------------------------------|-------------------------------------|
| American Filler Metals Company | AFM 60 |
| American Welding Alloys | AWA Alloy 60 |
| Arcos Alloys | Arcos 816 |
| Arctec Alloys Limited | ARCTEC ALLOY 60 |
| Astrolite Alloys | Astrolite ERNiCu-7 |
| Bohler Thyssen Welding USA, Inc. | UTP A80 M, Soudotape NiCu 7 (strip) |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNiCu-7 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--------------------------------|
| Champion Welding Products | CHAMPION 60 |
| CORROSION MATERIALS INC. | CM-400 |
| ESAB AB | OK Autrod 19.93, Tigrod 19.93 |
| Euroweld, Ltd. | ER Ni Cu-7 |
| EXSA S.A.- División Fontargen | FON A 511 MIG, FON A 511 TIG |
| Inco Alloys International, Inc. | MONEL Filler Metal 60 |
| Inweld Corporation | INWELD NA-60 |
| Kobe Steel, LTD. | MGS-MEL, TGS-MEL |
| Lincoln Electric Co. | LNML/LNT NiCu 70/30 |
| Midalloy, Inc. | Midalloy ERNiCu-7 |
| NATWELD | NATWELD 60 |
| Nippon Welding Rod Co., Ltd. | WEL MIG MOCU-7, TIG MOCU-7 |
| NOF Corporation | TGML, MGML, ATML |
| Oxford Alloys, Inc. | OXFORD ERNiCu-7 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 60 |
| Sodel Ltd | Sodel Mig 3501, Sodel Tig 3501 |
| SOWESCO | Pinnacle Alloys ERNiCu-7 |
| Techalloy Company, Inc. | Techalloy 418 |
| Uniweld Products, Inc. | UNI-NI-60 |
| Washington Alloy Company | Alloy 60 |
| WELDWIRE COMPANY INC. | WW NA060 |

ERNiCr-3

| SOURCE | PRODUCT |
|---------------------------------------|--|
| American Filler Metals Company | AFM 82 |
| American Welding Alloys | AWA Alloy 82 |
| Arcos Alloys | Arcos 382 |
| Arctec Alloys Limited | ARCTEC ALLOY 82 |
| Astrolite Alloys | Astrolite ERNiCr-3 |
| Avesta Welding Products Inc. | AVESTA P10 |
| Bohler Thyssen Welding USA, Inc. | UTP AO68HH, Thyssen Nicro 82, Soudotape NiCr 3 (strip) |
| Champion Welding Products | CHAMPION 82 |
| Cronatron Welding Systems | Cronaweld ERNiCr-3 |
| Crown Alloys Company | Royal 82-10, 82-30 |
| ELGA AB | CROMATIG 82, CROMAMIG 82 |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNICr-3 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--------------------------------|
| ESAB AB | OK Autrod 19.85, Tigrod 19.85 |
| ESAB AB | OK Band 11.95 |
| Euroweld, Ltd. | ER Ni Cr-3 |
| EXSA S.A.- División Fontargen | FON A 521 MIG, FON A 521 TIG |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 600 |
| Inco Alloys International, Inc. | INCONEL Filler Metal 82 |
| Inweld Corporation | INWELD NA-82 |
| Kobe Steel, LTD. | MGS-70NCb, TGS-70NCb |
| LANCASTER ALLOYS COMPANY | LAC N112 |
| Lincoln Electric Co. | LNМ/LNT NiCr 70/19 |
| Midalloy, Inc. | Midalloy ERNiCr-3 |
| NATWELD | NATWELD 82 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 82, TIG 82 |
| NOF Corporation | TG82, MG82, AT82 |
| Oxford Alloys, Inc. | OXFORD ERNiCr-3 |
| Polymet Corporation | PMet 882 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 82 |
| Sodel Ltd | Sodel MIG 3500, Sodel TIG 3500 |
| SOWESCO | Pinnacle Alloys ERNiCr-3 |
| Techalloy Company, Inc. | Techalloy 606 |
| UNITED STATES WELDING CORPORATION | TURBALOY 82 |
| Uniweld Products, Inc. | UNI-NI-82 |
| Washington Alloy Company | Alloy 82 |
| WELDWIRE COMPANY INC. | WW NA082 |

ERNICrFe-5

| SOURCE | PRODUCT |
|----------------------------------|-------------------------|
| American Filler Metals Company | AFM 62 |
| American Welding Alloys | AWA Alloy 62 |
| Arcos Alloys | Arcos 362 |
| Astrolite Alloys | Astrolite ERNiCrFe-5 |
| Champion Welding Products | CHAMPION 62 |
| Inco Alloys International, Inc. | INCONEL Filler Metal 62 |
| Inweld Corporation | INWELD NA-62 |
| LANCASTER ALLOYS COMPANY | LAC 5679 |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNiCrFe-5 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|--------------------------|
| NATWELD | NATWELD 62 |
| Nippon Welding Rod Co., Ltd. | WEL MIG N-12, TIG N-12 |
| Oxford Alloys, Inc. | OXFORD ERNiCrFe-5 |
| Polymet Corporation | PMet 862 |
| Techalloy Company, Inc. | Techalloy 604 |
| UNITED STATES WELDING CORPORATION | TURBALOY 62 |
| Uniweld Products, Inc. | UNI-NI-62 |
| Washington Alloy Company | Alloy 62 |
| WELDWIRE COMPANY INC. | WW NA062 |

ERNiCrFe-6

| SOURCE | PRODUCT |
|-----------------------------------|--------------------------|
| American Filler Metals Company | AFM 92 |
| American Welding Alloys | AWA Alloy 92 |
| Arcos Alloys | Arcos 392 |
| Astrolite Alloys | Astrolite ERNiCrFe-6 |
| Champion Welding Products | CHAMPION 92 |
| Inco Alloys International, Inc. | INCONEL Filler Metal 92 |
| Inweld Corporation | INWELD NA-92 |
| LANCASTER ALLOYS COMPANY | LAC 5675 |
| Midalloy, Inc. | Midalloy ERNiCrFe-6 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 92, TIG 92 |
| NOF Corporation | TG92, MG92 |
| Oxford Alloys, Inc. | OXFORD ERNiCrFe-6 |
| UNITED STATES WELDING CORPORATION | TURBALOY 92 |
| Washington Alloy Company | Alloy 92 |
| WELDWIRE COMPANY INC. | WW NA092 |

ERNiCrFe-7

| SOURCE | PRODUCT |
|---------------------------------|-------------------------|
| Inco Alloys International, Inc. | INCONEL Filler Metal 52 |

ERNiCrFe-11

| SOURCE | PRODUCT |
|---------------------------------|--------------------------|
| Inco Alloys International, Inc. | INCONEL Filler Metal 601 |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNiFeCr-1

| SOURCE | PRODUCT |
|--|--------------------------|
| American Welding Alloys | AWA Alloy 69 |
| Astrolite Alloys | Astrolite ERNiFeCr-1 |
| Champion Welding Products | CHAMPION 65 |
| Euroweld, Ltd. | ER Ni Fe Cr-1 |
| Inweld Corporation | INWELD NA-65 |
| Midalloy, Inc. | Midalloy ERNiFeCr-1 |
| Nippon Welding Rod Co., Ltd. | WEL TIG 65 |
| NOF Corporation | TG65 |
| Oxford Alloys, Inc. | OXFORD ERNiFeCr-1 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 65 |
| Techalloy Company, Inc. | Techalloy 825 |
| Uniweld Products, Inc. | UNI-NI-65 |
| Washington Alloy Company | Alloy 65 |
| WELDWIRE COMPANY INC. | WW NA065 |

ERNiFeCr-2

| SOURCE | PRODUCT |
|--|--------------------------|
| American Filler Metals Company | AFM 718 |
| Astrolite Alloys | Astrolite ERNiFeCr-2 |
| Euroweld, Ltd. | ER Ni Fe Cr-2 |
| Inco Alloys International, Inc. | INCONEL Filler Metal 718 |
| Inweld Corporation | INWELD NA-718 |
| LANCASTER ALLOYS COMPANY | LAC 5832 |
| Midalloy, Inc. | Midalloy ERNiFeCr-2 |
| Oxford Alloys, Inc. | OXFORD ERNiFeCr-2 |
| Polymet Corporation | PMet 818 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 718 |
| Techalloy Company, Inc. | Techalloy 718 |
| Washington Alloy Company | Alloy 718 |
| WELDWIRE COMPANY INC. | WW NA718 |

ERNiMo-1

| SOURCE | PRODUCT |
|-------------------------|--------------------|
| American Welding Alloys | AWA Alloy B |
| Astrolite Alloys | Astrolite ERNiMo-1 |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNiMo-1 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|----------------------|
| Champion Welding Products | CHAMPION HASTALLOY B |
| Haynes International, Inc. | HASTELLOY B alloy |
| Inweld Corporation | INWELD HAS-B |
| Oxford Alloys, Inc. | OXFORD ERNiMo-1 |
| Washington Alloy Company | Alloy "B" |
| WELDWIRE COMPANY INC. | WW NAB |

ERNiMo-2

| SOURCE | PRODUCT |
|----------------------------|--------------------|
| Astrolite Alloys | Astrolite ERNiMo-2 |
| Haynes International, Inc. | HASTELLOY N alloy |
| Oxford Alloys, Inc. | OXFORD ERNiMo-2 |
| Washington Alloy Company | Alloy "N" |

ERNiMo-3

| SOURCE | PRODUCT |
|-----------------------------------|----------------------|
| American Filler Metals Company | AFM Alloy W |
| Astrolite Alloys | Astrolite ERNiMo-3 |
| Champion Welding Products | CHAMPION HASTALLOY W |
| Euroweld, Ltd. | ER Ni Mo-3 |
| Haynes International, Inc. | HASTELLOY W alloy |
| Inweld Corporation | INWELD HAS-W |
| LANCASTER ALLOYS COMPANY | LAC 5786 |
| NATWELD | NATWELD W |
| Nippon Welding Rod Co., Ltd. | WEL TIG HW |
| Oxford Alloys, Inc. | OXFORD ERNiMo-3 |
| Polymet Corporation | PMet 870 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALLOY W |
| UNITED STATES WELDING CORPORATION | TURBALOY W |
| Washington Alloy Company | Alloy "W" |
| WELDWIRE COMPANY INC. | WW NAW |

ERNiMo-7

| SOURCE | PRODUCT |
|--------------------------------|---------------|
| American Filler Metals Company | AFM Alloy B2 |
| American Welding Alloys | AWA Alloy B-2 |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNiMo-7 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| Astrolite Alloys | Astrolite ERNiMo-7 |
| Bohler Thyssen Welding USA, Inc. | UTP A 703 |
| Euroweld, Ltd. | ER Ni Mo-7 |
| Haynes International, Inc. | HASTELLOY B-2 alloy |
| Inweld Corporation | INWELD HAS-B2 |
| LANCASTER ALLOYS COMPANY | LAC N100 |
| Midalloy, Inc. | Midalloy ERNiMo-7 |
| Nippon Welding Rod Co., Ltd. | WEL TIG HB-7 |
| NOF Corporation | TGHsB-2, MGHsB-2 |
| Oxford Alloys, Inc. | OXFORD ERNiMo-7 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALLOY B2 |
| Washington Alloy Company | Alloy "B-2" |
| WELDWIRE COMPANY INC. | WW NAB2 |

ERNiCrMo-1

| SOURCE | PRODUCT |
|------------------------------|----------------------|
| American Welding Alloys | AWA ERNiCrMo-1 |
| Astrolite Alloys | Astrolite ERNiCrMo-1 |
| Nippon Welding Rod Co., Ltd. | WEL TIG HG |
| Oxford Alloys, Inc. | OXFORD ERNiCrMo-1 |
| Washington Alloy Company | Alloy "G" |
| WELDWIRE COMPANY INC. | WW NAG |

ERNiCrMo-2

| SOURCE | PRODUCT |
|--------------------------------------|---------------------------|
| American Filler Metals Company | AFM Alloy X |
| American Welding Alloys | AWA Alloy X |
| Astrolite Alloys | Astrolite ERNiCrMo-2 |
| BMS, Inc., Koballoy & Texas Division | KOBALLOY 625 |
| Champion Welding Products | CHAMPION HASTALLOY X |
| Haynes International, Inc. | HASTELLOY X alloy |
| Inco Alloys International, Inc. | INCO-WELD Filler Metal HX |
| Inweld Corporation | INWELD HAS-X |
| LANCASTER ALLOYS COMPANY | LAC 5798 |
| NATWELD | NATWELD X |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNiCrMo-2 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|---------------------|
| Nippon Welding Rod Co., Ltd. | WEI TIG HX, TIG HXR |
| Oxford Alloys, Inc. | OXFORD ERNiCrMo-2 |
| Polymet Corporation | PMet 875 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALLOY X |
| UNITED STATES WELDING CORPORATION | TURBALOY X |
| Washington Alloy Company | Alloy "X" |
| Weld Mold Company | 620 |
| WELDWIRE COMPANY INC. | WW NAX |

ERNiCrMo-3

| SOURCE | PRODUCT |
|----------------------------------|-------------------------------|
| American Filler Metals Company | AFM Alloy 625 |
| American Welding Alloys | AWA Alloy 625 |
| Arcos Alloys | Arcos 625 |
| Arctec Alloys Limited | ARCTEC ALLOY 625 |
| Astrolite Alloys | Astrolite ERNiCrMo-3 |
| Avesta Welding Products Inc. | AVESTA P12 |
| Bohler Thyssen Welding USA, Inc. | Soudotape 625 (strip) |
| Bohler Thyssen Welding USA, Inc. | UTP A6222 Mo, Thyssen 625 |
| Champion Welding Products | CHAMPION 625 |
| Cronatron Welding Systems | Cronaweld ERNiCrMo-3 |
| ELGA AB | CROMATIG 625, CROMAMIG 625 |
| ESAB AB | OK Autrod 19.82, Tigrod 19.82 |
| ESAB AB | OK Band 11.92 |
| ESAB WELDING & CUTTING PRODUCTS | OK Autrod 19.82, Tigrod 19.82 |
| Euroweld, Ltd. | ER Ni Cr Mo-3 |
| Haynes International, Inc. | HAYNES 625 alloy |
| HILARIUS HAARLEM HOLLAND BV | HILCO RVS 625 |
| Inco Alloys International, Inc. | INCONEL Filler Metal 625 |
| Indura S.A. Industria y Comercio | INDURA ERNiCrMo-3 |
| Inweld Corporation | INWELD NA-625 |
| Kobe Steel, LTD. | TGS-N625 |
| LANCASTER ALLOYS COMPANY | LAC 5837 |
| Lincoln Electric Co. | LNM/LNT NiCr 60/20 |
| Midalloy, Inc. | Midalloy ERNiCrMo-3 |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNiCrMo-3 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|----------------------------------|
| National-Standard | NS-625 |
| NATWELD | NATWELD 625 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 625, 625L, TIG 625, 625L |
| NOF Corporation | TG625, MG625, AT625 |
| Oxford Alloys, Inc. | OXFORD ERNiCrMo-3 |
| Polymet Corporation | PMet 860 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 625 |
| Sodel Ltd | Sodel TIG 3505, Sodel MIG 3505 |
| SOWESCO | Pinnacle Alloys ERNiCrMo-3 |
| Techalloy Company, Inc. | Techalloy 625 |
| UNITED STATES WELDING CORPORATION | TURBALOY 625 |
| Uniweld Products, Inc. | UNI-NI-625 |
| Washington Alloy Company | Alloy 625 |
| Weld Mold Company | 4625 |
| WELDWIRE COMPANY INC. | WW NA625 |

ERNiCrMo-4

| SOURCE | PRODUCT |
|----------------------------------|------------------------------|
| American Filler Metals Company | AFM Alloy C276 |
| American Welding Alloys | AWA Alloy C276 |
| Arcos Alloys | Arcos C-276 |
| Astrolite Alloys | Astrolite ERNiCrMo-4 |
| Bohler Thyssen Welding USA, Inc. | Soudotape NiCrMo4 (strip) |
| Bohler Thyssen Welding USA, Inc. | UTP A776 |
| Champion Welding Products | CHAMPION HASTALLOY 276 |
| CORROSION MATERIALS INC. | HASTELLOYS C-276 |
| Crown Alloys Company | Royal C276-10, C276-30 |
| Euroweld, Ltd. | ER Ni Cr Mo-4 |
| Haynes International, Inc. | HASTELLOYS C-276 alloy |
| Inco Alloys International, Inc. | INCO-WELD Filler Metal C-276 |
| Inweld Corporation | INWELD HAS-C276 |
| LANCASTER ALLOYS COMPANY | LAC N111 |
| Midalloy, Inc. | Midalloy ERNiCrMo-4 |
| NATWELD | NATWELD C276 |
| Nippon Welding Rod Co., Ltd. | WEL TIG HC-4 |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNiCrMo-4 (Continued from previous page)

| SOURCE | PRODUCT |
|--|----------------------------|
| NOF Corporation | TGHsC-276, MGHsC-276 |
| Oxford Alloys, Inc. | OXFORD ERNiCrMo-4 |
| Polymet Corporation | PMet 876 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALLOY C276 |
| SOWESCO | Pinnacle Alloys ERNiCrMo-4 |
| Techalloy Company, Inc. | Techalloy 276 |
| UNITED STATES WELDING CORPORATION | TURBALOY 276 |
| Uniweld Products, Inc. | UNI-NI-276 |
| Washington Alloy Company | Alloy C276 |
| Weld Mold Company | 672 |
| WELDWIRE COMPANY INC. | WW NAC276 |

ERNiCrMo-7

| SOURCE | PRODUCT |
|--|----------------------------|
| American Filler Metals Company | AFM Alloy C4 |
| American Welding Alloys | AWA Alloy C4 |
| Astrolite Alloys | Astrolite ERNiCrMo-7 |
| Bohler Thyssen Welding USA, Inc. | Soudotape NiCrMo7 (strip) |
| Bohler Thyssen Welding USA, Inc. | UTP A704 |
| Champion Welding Products | CHAMPION ERNiCrMo-7 |
| CORROSION MATERIALS INC. | HASTELLOY B-2 |
| Euroweld, Ltd. | ER Ni Cr Mo-7 |
| Haynes International, Inc. | HASTELLOY C-4 alloy |
| Inweld Corporation | INWELD HAS-C4 |
| Oxford Alloys, Inc. | OXFORD ERNiCrMo-7 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALLOY C4 |
| Washington Alloy Company | Alloy C-4 |
| WELDWIRE COMPANY INC. | WW NAB-2 |

ERNiCrMo-8

| SOURCE | PRODUCT |
|----------------------------------|----------------------------|
| American Welding Alloys | AWA Alloy G2 |
| Astrolite Alloys | Astrolite ERNiCrMo-8 |
| Champion Welding Products | CHAMPION ERNiCrMo-8 |
| Oxford Alloys, Inc. | OXFORD ERNiCrMo-8 |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNiCrMo-8 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|---------------------|
| Washington Alloy Company | Alloy "G-2" |
| WELDWIRE COMPANY INC. | Weldwire ERNiCrMo-8 |

ERNiCrMo-9

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| American Filler Metals Company | AFM Alloy G3 |
| American Welding Alloys | AWA Alloy G3 |
| Astrolite Alloys | Astrolite ERNiCrMo-9 |
| Champion Welding Products | CHAMPION ERNiCrMo-9 |
| Haynes International, Inc. | HASTELLOY G-3 alloy |
| Inweld Corporation | INWELD HAS-G3 |
| NOF Corporation | TGHsG-3 |
| Oxford Alloys, Inc. | OXFORD ERNiCrMo-9 |
| Washington Alloy Company | Alloy "G-3" |
| WELDWIRE COMPANY INC. | WW NAG3 |

ERNiCrMo-10

| SOURCE | PRODUCT |
|----------------------------------|----------------------------|
| American Filler Metals Company | AFM Alloy C22 |
| Astrolite Alloys | Astrolite ERNiCrMo-10 |
| Bohler Thyssen Welding USA, Inc. | Soudotape NiCrMo22 (strip) |
| Champion Welding Products | CHAMPION ERNiCrMo-10 |
| CORROSION MATERIALS INC. | HASTELLOY C-22 |
| Euroweld, Ltd. | ER Ni Cr Mo-10 |
| Haynes International, Inc. | HASTELLOY C-22 alloy |
| Inco Alloys International, Inc. | INCONEL Filler Metal 622 |
| Inweld Corporation | INWELD HAS-C22 |
| LANCASTER ALLOYS COMPANY | LAC N131 |
| Midalloy, Inc. | Midalloy ERNiCrMo-10 |
| Nippon Welding Rod Co., Ltd. | WEL TIG HC-22 |
| NOF Corporation | TGHsC-22 |
| Oxford Alloys, Inc. | OXFORD ERNiCrMo-10 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALLOY C22 |
| Techalloy Company, Inc. | Techalloy 622 |
| Uniweld Products, Inc. | UNI-NI-22 |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNiCrMo-10 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|--------------|
| Washington Alloy Company | Alloy "C-22" |
| WELDWIRE COMPANY INC. | WW NA622 |

ERNiCrMo-11

| SOURCE | PRODUCT |
|---------------------------------|-----------------------|
| American Filler Metals Company | AFM Alloy G30 |
| Astrolite Alloys | Astrolite ERNiCrMo-11 |
| CORROSION MATERIALS INC. | HASTELLOY G-30 |
| Euroweld, Ltd. | ER Ni Cr Mo-11 |
| Haynes International, Inc. | HASTELLOY G-30 alloy |
| Inweld Corporation | INWELD HAS-G30 |
| Oxford Alloys, Inc. | OXFORD ERNiCrMo-11 |
| Rigby-Maryland (Stainless) Ltd. | RIMA ALLOY G30 |
| Washington Alloy Company | Alloy "G-30" |
| WELDWIRE COMPANY INC. | WW NAG30 |

ERNiCrMo-14

| SOURCE | PRODUCT |
|---------------------------------|-------------------------------|
| Inco Alloys International, Inc. | INCO-WELD Filler Metal 686CPT |

ERNiCrMo-15

| SOURCE | PRODUCT |
|---------------------------------|--------------------------------|
| Inco Alloys International, Inc. | INCO-WELD Filler Metal 725NDUR |

ERNiCrCoMo-1

| SOURCE | PRODUCT |
|----------------------------------|---------------------------|
| American Filler Metals Company | AFM 617 |
| Arctec Alloys Limited | ARCTEC ALLOY 617 |
| Astrolite Alloys | Astrolite ERNiCrCoMo-1 |
| Bohler Thyssen Welding USA, Inc. | UTP A6170 Co, Thyssen 617 |
| Champion Welding Products | CHAMPION ERNiCrCoMo-1 |
| Euroweld, Ltd. | ER Ni Cr Co Mo-1 |
| Inco Alloys International, Inc. | INCONEL Filler Metal 617 |
| Inweld Corporation | INWELD NA-617 |
| Midalloy, Inc. | Midalloy ERNiCrCoMo-1 |
| Nippon Welding Rod Co., Ltd. | WEL MIG 617, TIG 617 |

A5.14/A5.14M-97, NICKEL AND NICKEL ALLOY Bare Electroded and Welding Rods

See ANSI/AWS A5.14/A5.14M-97, Specification for Nickel and Nickel Alloy Bare Welding Electrodes and Rods

ERNiCrCoMo-1 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|---------------------|
| NOF Corporation | TG617 |
| Oxford Alloys, Inc. | OXFORD ERNiCrCoMo-1 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 617 |
| Techalloy Company, Inc. | Techalloy 617 |
| UNITED STATES WELDING CORPORATION | TURBALOY 617 |
| Uniweld Products, Inc. | UNI-NI-617 |
| Washington Alloy Company | Alloy 617 |
| WELDWIRE COMPANY INC. | WW NA617 |

EQNiCu-7

| SOURCE | PRODUCT |
|----------------|-------------------|
| Euroweld, Ltd. | Nicromix EQNiCu-7 |

EQNiCr-3

| SOURCE | PRODUCT |
|----------------|-------------------|
| Euroweld, Ltd. | Nicromix EQNiCr-3 |

EQNiCrFe-7

| SOURCE | PRODUCT |
|----------------|---------------------|
| Euroweld, Ltd. | Nicromix EQNiCrFe-7 |

EQNiFeCr-1

| SOURCE | PRODUCT |
|----------------|---------------------|
| Euroweld, Ltd. | Nicromix EQNiFeCr-1 |

EQNiCrMo-3

| SOURCE | PRODUCT |
|----------------|---------------------|
| Euroweld, Ltd. | Nicromix EQNiCrMo-3 |

EQNiCrMo-4

| SOURCE | PRODUCT |
|----------------|---------------------|
| Euroweld, Ltd. | Nicromix EQNiCrMo-4 |

EQNiCrMo-7

| SOURCE | PRODUCT |
|----------------|---------------------|
| Euroweld, Ltd. | Nicromix EQNiCrMo-7 |

A5.15-90, CAST IRON Welding Electrodes and Rods

See ANSI/AWS A5.15-90, Specification for Welding Electrodes and Rods for Cast Iron

ENI-CI

| SOURCE | PRODUCT |
|---|--|
| Airco Filler Metals | Airco 375 |
| American Filler Metals Company | AFM 99 |
| American Welding Alloys | AWA Ni-99 |
| Arctec Alloys Limited | ARCTEC 139 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS Pik-98 Super |
| Bohler Thyssen Welding USA, Inc. | UTP 8P/E99 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO NI 2 |
| Champion Welding Products | CHAMPION 99 |
| Chosun Steel Wire Company | CI-400 |
| COR-MET INC. | COR-MAIN 99 |
| Cronatron Welding Systems | Cronacast ENI-CI |
| Crown Alloys Company | Crown 295 |
| D&H Secheron Electrodes Limited | NFM |
| Dytron Corporation | 499 |
| Electromanufacturas S.A | West Arco Niquel 100, West Rode 22 Premium, West Rode 40 |
| ESAB AB | OK 92.18 |
| EXSA S.A. - División Soldaduras OERLIKON | Citofonte, Superfonte |
| EXSA S.A.- División Fontargen | FON E 112, FON E 114, FON E 115 |
| HARRIS WELCO | WELCO 94, NLW 99 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Pure Nickel |
| Hobart Welding Products | HOBART 99BF |
| HYUNDAI WELDING PRODUCTS, INC. | S-NCI |
| Inco Alloys International, Inc. | NI-ROD Welding Electrode |
| Indura S.A. Industria y Comercio | INDURA NICKEL 99, INDURA 375 |
| Industrial Welding Corporation | NIHONWELD NC-100 |
| Inweld Corporation | INWELD Ni-99 |
| Lincoln Electric Co. | Softweld 99Ni, Fuso Ni, Fuso NIQUEL, RepTec Cast 1 |
| McKay Welding Products | CAST-ALLOY |
| Messer - MG Systems & Welding Inc. | MG 250 |
| Midalloy, Inc. | Midalloy Ni-Max 99 |
| Murex Welding Products | Murex NICKEL |
| NATWELD | NICKEL 99 |
| Nippon Welding Rod Co., Ltd. | WEI NIC 100S |
| NOF Corporation | CAST IRON ULTRA |

A5.15-90, CAST IRON Welding Electrodes and Rods

See ANSI/AWS A5.15-90, Specification for Welding Electrodes and Rods for Cast Iron

ENI-CI (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|---------------------------------------|
| Oxford Alloys, Inc. | OXFORD ENI-CI |
| Postle Industries | Postalloy 515 |
| Sodel Ltd | Sodel 355, Sodel NI-99 |
| Techalloy Company, Inc. | Tech-Rod 99 |
| Uniweld Products, Inc. | UNI-99 |
| Washington Alloy Company | Nickel 99, Cascade 17A, Cascade 17ANC |
| Weld Mold Company | 700, 702, 704, 706 |
| WELDWIRE COMPANY INC. | Weldwire Nickel 99 |

ENI-CI-A

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| All-State Welding Products | 8 |
| COR-MET INC. | COR-MAIN 55 |
| ESAB WELDING & CUTTING PRODUCTS | NICKEL-ARC 99 |
| Industrial Welding Corporation | NIHONWELD N-NI-CI-A |

ENIFe-CI

| SOURCE | PRODUCT |
|---|--|
| Airco Filler Metals | Airco 376 |
| American Filler Metals Company | AFM 55 |
| American Welding Alloys | AWA Ni-55 |
| Arctec Alloys Limited | ARCTEC 125 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS Pik-55 |
| Bohler Thyssen Welding USA, Inc. | UTP 83FN/E55 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO NI FE 60/40, CARBO NI FE 60/40 K, CARBO NI FE 31 |
| Champion Welding Products | CHAMPION 55 |
| Chosun Steel Wire Company | CI-500 |
| Cronatron Welding Systems | Cronacast ENIFe-CI |
| Crown Alloys Company | Crown 255 |
| D&H Secheron Electrodes Limited | D&H-1111 CI |
| Dytron Corporation | 455 |
| Electromanufacturas S.A | West Arco Niquel 60; West Rode Nodulrode, Bimetal-Cast |
| ESAB AB | OK 92.58 |
| ESAB WELDING & CUTTING PRODUCTS | NICKEL-ARC 55, 550 |
| EXSA S.A.- División Fontargen | FON E 116, FON E 119 |

A5.15-90, CAST IRON Welding Electrodes and Rods

See ANSI/AWS A5.15-90, Specification for Welding Electrodes and Rods for Cast Iron

ENiFe-CI (Continued from previous page)

| SOURCE | PRODUCT |
|---|---|
| HARRIS WELCO | WELCO 65, NLW 59 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Nickel Iron |
| Hobart Welding Products | HOBART 55BF |
| HYUNDAI WELDING PRODUCTS, INC. | S-NFC |
| Inco Alloys International, Inc. | NI-ROD 55 Welding Electrode |
| Indura S.A. Industria y Comercio | INDURA NICKEL 55 |
| Industrial Welding Corporation | NIHONWELD NC-50 |
| Inweld Corporation | INWELD Ni-55 |
| Lincoln Electric Co. | Softweld 55Ni, Fuso NiFe, NiFe-S, RepTec Cast 3, RepTec Cast 31 |
| McKay Welding Products | CAST-ALLOY 60, CAST-ALLOY T-60 |
| Messer - MG Systems & Welding Inc. | MG 260 |
| Midalloy, Inc. | Midalloy Ni-Max 55 |
| Murex Welding Products | Murex Nickel 60 |
| Nassau Research Corp. | Jupiter |
| NATWELD | NICKEL 55 |
| Nippon Welding Rod Co., Ltd. | WEL NIC 60 |
| NOF Corporation | CAST IRON NO.35 |
| Oxford Alloys, Inc. | OXFORD ENiFe-CI |
| Postle Industries | Postalloy 505 |
| Sodel Ltd | Sodel Ni-60, Sodel 35 |
| Techalloy Company, Inc. | Tech-Rod 55 |
| Uniweld Products, Inc. | UNI-55 |
| Washington Alloy Company | Nickel 55, Cascade 18A |
| Weld Mold Company | 750, 762, 765 |
| WELDWIRE COMPANY INC. | Weldwire Nickel 55 |

ENiFe-CI-A

| SOURCE | PRODUCT |
|---------------------------------|-----------------------|
| All-State Welding Products | 8-60 |
| Champion Welding Products | CHAMPION ENiFe-CI-A |
| ESAB WELDING & CUTTING PRODUCTS | NICKEL-ARC 550 |
| Industrial Welding Corporation | NIHONWELD N-NiFe-CI-A |
| Nassau Research Corp. | Jupiter |

A5.15-90, CAST IRON Welding Electrodes and Rods

See ANSI/AWS A5.15-90, Specification for Welding Electrodes and Rods for Cast Iron

ENiFeMn-CI

| SOURCE | PRODUCT |
|--------------------------------|------------------|
| Champion Welding Products | CHAMPION ENiCu-B |
| Industrial Welding Corporation | NIHONWELD NC-60 |

ENiCu-A

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| Industrial Welding Corporation | NIHONWELD N-NiCu-A |
| Nassau Research Corp. | Gemini |

ENiCu-B

| SOURCE | PRODUCT |
|---|--------------------|
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS Pik-65 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO NI CU |
| D&H Secheron Electrodes Limited | D&H-MONEL |
| Industrial Welding Corporation | NIHONWELD N-NiCu-B |
| Nassau Research Corp. | Gemini |
| Washington Alloy Company | 190 Modified |

ENiFeT3-CI

| SOURCE | PRODUCT |
|---------------------------------|-----------------------------|
| COR-MET INC. | COR-MAIN 55 FC-O |
| Inco Alloys International, Inc. | NI-ROD FC55 Flux-Cored Wire |
| Industrial Welding Corporation | NIHONWELD N-NiFeT3-CI |
| Oxford Alloys, Inc. | OXFORD ENiFeT3-CI |
| Washington Alloy Company | Nickel 55 Flux-Cored |
| WELDWIRE COMPANY INC. | WW 55FC |

ESt

| SOURCE | PRODUCT |
|-------------------------------------|--------------|
| Airco Filler Metals | Airco 77 |
| All-State Welding Products | 6 IMP |
| American Filler Metals Company | AFM EST |
| Bohler Thyssen Welding USA, Inc. | UTP 81 |
| CARBO-WELD Schweissmaterialien GmbH | CARBO GG |
| Cronatron Welding Systems | Cronacast ES |
| Crown Alloys Company | Royal 270 |
| Dytron Corporation | 677 |

A5.15-90, CAST IRON Welding Electrodes and Rods

See ANSI/AWS A5.15-90, Specification for Welding Electrodes and Rods for Cast Iron

Est (Continued from previous page)

| SOURCE | PRODUCT |
|--|---|
| Electromanufacturas S.A | West Arco Castingweld; West Rode West Cast 70 |
| EXSA S.A. - División Soldaduras OERLIKON | Ferrocord U |
| EXSA S.A.- División Fontargen | FON E 117 |
| HARRIS WELCO | WELCO 28 |
| HYUNDAI WELDING PRODUCTS, INC. | S-FCF |
| Indura S.A. Industria y Comercio | INDURA 77 |
| Industrial Welding Corporation | NIHONWELD NC-10 |
| Inweld Corporation | INWELD EST |
| Lincoln Electric Co. | Ferroweld |
| Messer - MG Systems & Welding Inc. | MG 220 |
| Murex Welding Products | Murex Blue Streak |
| Oxford Alloys, Inc. | OXFORD EST |
| Washington Alloy Company | EST, Cascade 15A |
| WELDWIRE COMPANY INC. | WW Cast Free |

RCI

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| All-State Welding Products | 3 |
| Crown Alloys Company | Crown #6 |
| Dytron Corporation | 676 |
| EXSA S.A.- División Fontargen | FON A/AF 110 |
| HARRIS WELCO | WELCO KASTWELD 111 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Cast Iron |
| Inweld Corporation | INWELD RCI |
| Washington Alloy Company | Cast Iron RCI |

ERNi-CI

| SOURCE | PRODUCT |
|---------------------------------------|------------------------|
| American Filler Metals Company | AFM 99B |
| Inco Alloys International, Inc. | NI-ROD Filler Metal 99 |
| Inweld Corporation | INWELD Ni-99 |
| Midalloy, Inc. | Midalloy ERNi-CI |
| Nassau Research Corp. | Jupiter Mig |
| Oxford Alloys, Inc. | OXFORD ERNi-CI |
| Techalloy Company, Inc. | Techalloy 99 |

A5.15-90, CAST IRON Welding Electrodes and Rods

See ANSI/AWS A5.15-90, Specification for Welding Electrodes and Rods for Cast Iron

ERNI-CI (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|--------------------------|
| Washington Alloy Company | Cascade 17T, Cascade 17M |
| Weld Mold Company | 700 |
| WELDWIRE COMPANY INC. | WW NA99-B |

ERNIFeMn-CI

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| Crown Alloys Company | Royal 44-30 |
| Inco Alloys International, Inc. | NI-ROD Filler Metal 44 |
| Rigby-Maryland (Stainless) Ltd. | RIMA 44 |
| Washington Alloy Company | Nickel 44 |

A5.16-90, TITANIUM AND TITANIUM ALLOY Bare Welding Rods and Electrodes

See ANSI/AWS A5.16-90, Specification for Titanium and Titanium Alloy Welding Electrodes and Rods

| ERTI-1 | |
|-----------------------------------|-----------------------------|
| SOURCE | PRODUCT |
| American Filler Metals Company | AFM ERTi-1 |
| American Welding Alloys | AWA ERTi-1 |
| Astrolite Alloys | Astrolite ERTi-1 |
| Champion Welding Products | CHAMPION ERTi-1 |
| Crown Alloys Company | Royal ER Ti-1 |
| Inweld Corporation | INWELD ERTi-1 |
| LANCASTER ALLOYS COMPANY | LAC 4951-1 |
| Midalloy, Inc. | Midalloy ERTi-1 |
| NATWELD | ERTi-1 |
| Nippon Welding Rod Co., Ltd. | WEL TIG Ti-1, Auto TIG Ti-1 |
| Oxford Alloys, Inc. | OXFORD ERTi-1 |
| Uniweld Products, Inc. | TITANIUM 1 |
| Washington Alloy Company | C.P.Ti-1 |
| WELDWIRE COMPANY INC. | WW ERTi-1 |
| ERTI-2 | |
| SOURCE | PRODUCT |
| American Filler Metals Company | AFM ERTi-2 |
| American Welding Alloys | AWA ERTi-2 |
| Astrolite Alloys | Astrolite ERTi-2 |
| Champion Welding Products | CHAMPION ERTi-2 |
| Cronatron Welding Systems | Cronaweld Ti-2 |
| Crown Alloys Company | Royal ER Ti-2 |
| Inweld Corporation | INWELD ERTi-2 |
| LANCASTER ALLOYS COMPANY | LAC 4951-2 |
| Midalloy, Inc. | Midalloy ERTi-2 |
| NATWELD | ERTi-2 |
| Nippon Welding Rod Co., Ltd. | WEL TIG Ti-2, Auto TIG Ti-2 |
| NOF Corporation | TGTiA, MGTiA |
| Oxford Alloys, Inc. | OXFORD ERTi-2 |
| UNITED STATES WELDING CORPORATION | TURBO-TI C.P. |
| Uniweld Products, Inc. | TITANIUM 2 |
| Washington Alloy Company | C.P. Ti-2 |
| Weld Mold Company | TIZ-2 |
| WELDWIRE COMPANY INC. | WW ERTi-2 |

A5.16-90, TITANIUM AND TITANIUM ALLOY Bare Welding Rods and Electrodes

See ANSI/AWS A5.16-90, Specification for Titanium and Titanium Alloy Welding Electrodes and Rods

ERTI-3

| SOURCE | PRODUCT |
|---------------------------------|-----------------------------|
| American Filler Metals Company | AFM ERTi-3 |
| American Welding Alloys | AWA ERTi-3 |
| Astrolite Alloys | Astrolite ERTi-3 |
| Champion Welding Products | CHAMPION ERTi-3 |
| Inweld Corporation | INWELD ERTi-3 |
| LANCASTER ALLOYS COMPANY | LAC 4951-3 |
| Nippon Welding Rod Co., Ltd. | WEL TIG Ti-3, Auto TIG Ti-3 |
| NOF Corporation | TGTiB, MGTiB |
| Oxford Alloys, Inc. | OXFORD ERTi-3 |
| Washington Alloy Company | C.P. Ti-3 |
| WELDWIRE COMPANY INC. | WW ERTi-3 |

ERTI-4

| SOURCE | PRODUCT |
|---------------------------------|-------------------|
| American Filler Metals Company | AFM ERTi-4 |
| American Welding Alloys | AWA ERTi-4 |
| Astrolite Alloys | Astrolite ERTi-4 |
| Champion Welding Products | CHAMPION ERTi-4 |
| Inweld Corporation | INWELD ERTi-4 |
| LANCASTER ALLOYS COMPANY | LAC 4951-4 |
| NOF Corporation | TGTiD, MGTiD |
| Oxford Alloys, Inc. | OXFORD ERTi-4 |
| Washington Alloy Company | C.P.Ti-4 |
| WELDWIRE COMPANY INC. | WW ERTi-4 |

ERTI-5

| SOURCE | PRODUCT |
|---------------------------------|-------------------------------|
| American Filler Metals Company | AFM ERTi-5 |
| American Welding Alloys | AWA ERTi-5 |
| Astrolite Alloys | Astrolite ERTi-5 |
| Champion Welding Products | CHAMPION ERTi-5 |
| Inweld Corporation | INWELD ERTi-5 |
| LANCASTER ALLOYS COMPANY | LAC ERTi-5, 4954 |
| Nippon Welding Rod Co., Ltd. | WEL TIG Ti-64, Auto TIG Ti-64 |
| NOF Corporation | TGTi6Al-4V |

A5.16-90, TITANIUM AND TITANIUM ALLOY Bare Welding Rods and Electrodes

See ANSI/AWS A5.16-90, Specification for Titanium and Titanium Alloy Welding Electrodes and Rods

ERTI-5 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|----------------|
| Oxford Alloys, Inc. | OXFORD ERTI-5 |
| UNITED STATES WELDING CORPORATION | TURBO-TI 6-4 |
| Washington Alloy Company | 6Al/4V, ERTI-5 |
| WELDWIRE COMPANY INC. | WW ERTI-5 |

ERTI-5ELI

| SOURCE | PRODUCT |
|-----------------------------------|---------------------------------|
| American Filler Metals Company | AFM 6AL4V (ELI) |
| American Welding Alloys | AWA ERTI-5ELI |
| Astrolite Alloys | Astrolite ERTI-5ELI |
| Inweld Corporation | INWELD ERTI-5ELI |
| LANCASTER ALLOYS COMPANY | LAC ERTI-5ELI, 4956 |
| Nippon Welding Rod Co., Ltd. | WEL TIG Ti-64E, Auto TIG Ti-64E |
| Oxford Alloys, Inc. | OXFORD ERTI-5ELI |
| UNITED STATES WELDING CORPORATION | TURBO-TI 6-4 ELI |
| Washington Alloy Company | 6Al/4V ELI, ERTI-5 ELI |
| WELDWIRE COMPANY INC. | WW ERTI-5ELI |

ERTI-6

| SOURCE | PRODUCT |
|---------------------------|-------------------------|
| American Welding Alloys | AWA ERTI-6 |
| Astrolite Alloys | Astrolite ERTI-6 |
| Champion Welding Products | CHAMPION ERTI-5Al-2.5Sn |
| Inweld Corporation | INWELD ERTI-6 |
| Oxford Alloys, Inc. | OXFORD ERTI-6 |
| Washington Alloy Company | 5Al/2.5Sn, ERTI-6 |
| WELDWIRE COMPANY INC. | WW ERTI-6 |

ERTI-6ELI

| SOURCE | PRODUCT |
|-------------------------|---------------------|
| American Welding Alloys | AWA ERTI-6ELI |
| Astrolite Alloys | Astrolite ERTI-6ELI |
| Inweld Corporation | INWELD ERTI-6ELI |
| Oxford Alloys, Inc. | OXFORD ERTI-6ELI |

A5.16-90, TITANIUM AND TITANIUM ALLOY Bare Welding Rods and Electrodes

See ANSI/AWS A5.16-90, Specification for Titanium and Titanium Alloy Welding Electrodes and Rods

ERTI-7

| SOURCE | PRODUCT |
|---------------------------------|---------------------------------|
| American Filler Metals Company | AFM ERTi-7 |
| American Welding Alloys | AWA ERTi-7 |
| Astrolite Alloys | Astrolite ERTi-7 |
| Champion Welding Products | CHAMPION ERTi-0.2 Pd |
| Inweld Corporation | INWELD ERTi-7 |
| LANCASTER ALLOYS COMPANY | LAC T188 |
| Nippon Welding Rod Co., Ltd. | WEL TIG TiPd-1, Auto TIG TiPd-1 |
| NOF Corporation | TGTiA-Pd, MGTiA-Pd |
| Oxford Alloys, Inc. | OXFORD ERTi-7 |
| Washington Alloy Company | ERTi-0.2 Pd, ERTi-7 |
| WELDWIRE COMPANY INC. | WW ERTi-7 |

ERTI-9

| SOURCE | PRODUCT |
|------------------------------|---------------------------------|
| American Welding Alloys | AWA ERTi-9 |
| Astrolite Alloys | Astrolite ERTi-9 |
| Champion Welding Products | ERTi-3Al-2.5V, ERTi-3Al-2.5V1 |
| Inweld Corporation | INWELD ERTi-9 |
| Nippon Welding Rod Co., Ltd. | WEL TIG Ti-325, Auto TIG Ti-325 |
| Oxford Alloys, Inc. | OXFORD ERTi-9 |
| Washington Alloy Company | 3Al/2.5V, ERTi-9 |
| WELDWIRE COMPANY INC. | WW ERTi-9 |

ERTI-9ELI

| SOURCE | PRODUCT |
|--------------------------|-------------------------|
| American Welding Alloys | AWA ERTi-9ELI |
| Astrolite Alloys | Astrolite ERTi-9ELI |
| Inweld Corporation | INWELD ERTi-9ELI |
| Oxford Alloys, Inc. | OXFORD ERTi-9ELI |
| Washington Alloy Company | 3Al/2.5V ELI, ERTi-9ELI |

ERTI-12

| SOURCE | PRODUCT |
|--------------------------------|-------------------|
| American Filler Metals Company | AFM ERTi-12 |
| American Welding Alloys | AWA ERTi-12 |
| Astrolite Alloys | Astrolite ERTi-12 |

A5.16-90, TITANIUM AND TITANIUM ALLOY Bare Welding Rods and Electrodes

See ANSI/AWS A5.16-90, Specification for Titanium and Titanium Alloy Welding Electrodes and Rods

ERTI-12 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|-----------------------|
| Inweld Corporation | INWELD ERTi-12 |
| LANCASTER ALLOYS COMPANY | LAC T187 |
| Oxford Alloys, Inc. | OXFORD ERTi-12 |
| Washington Alloy Company | ERTi-12 |
| WELDWIRE COMPANY INC. | WW ERTi-12 |

ERTI-15

| SOURCE | PRODUCT |
|---------------------------|--------------------------------------|
| American Welding Alloys | AWA ERTi-15 |
| Astrolite Alloys | Astrolite ERTi-15 |
| Champion Welding Products | CHAMPION ERTi-6Al-2cb-1TA-1Mo |
| Inweld Corporation | INWELD ERTi-15 |
| Oxford Alloys, Inc. | OXFORD ERTi-15 |
| Washington Alloy Company | ERTi-15 |
| WELDWIRE COMPANY INC. | WW ERTi-15 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

EL8

| SOURCE | PRODUCT |
|--------------------------|----------|
| American Welding Alloys | AWA EL8 |
| Kobe Steel, LTD. | US-43 |
| Techalloy Company, Inc. | RACO 112 |
| Washington Alloy Company | EL8 |

EL8K

| SOURCE | PRODUCT |
|---------------------------|------------------------|
| American Welding Alloys | AWA EL8K |
| Champion Welding Products | CHAMPION ELECTROMAT 60 |

EL12

| SOURCE | PRODUCT |
|---|--|
| American Welding Alloys | AWA EL12 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS S1 |
| BELGO MINEIRA BEKAERT ARAMES S.A. | BMAS - 121 |
| Champion Welding Products | CHAMPION EL12, CHAMPION ELECTROMAT 60A |
| Electromanufacturas S.A | West Arco WA-60 |
| ELGA AB | ELGASAW 101 |
| ESAB AB | OK Autrod 12.10 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 80 |
| Euroweld, Ltd. | EL12 |
| EXSA S.A. - División Soldaduras OERLIKON | PS-1 |
| EXSA S.A.- División Fontargen | FON A 100 S1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H60 |
| Indura S.A. Industria y Comercio | INDURA EL12 |
| Lincoln Electric Co. | Lincolnweld L-60 |
| Plasticos y Alambres, S. A. | SOLDAMATIC 60 |
| Techalloy Company, Inc. | RACO 112 |
| Washington Alloy Company | EL12 |
| WELDWIRE COMPANY INC. | Weldwire EL12 |

EM12

| SOURCE | PRODUCT |
|----------------------------------|------------------|
| American Filler Metals Company | AFM EM12 |
| American Welding Alloys | AWA EM12 |
| Bohler Thyssen Welding USA, Inc. | Thyssen Union S2 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

EM12 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------|-----------------|
| ELGA AB | ELGASAW 102 |
| ESAB AB | OK Autrod 12.20 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H100 |
| Welding Alloys (USA), Inc. | SPEEDARC EM12 |

EM12K

| SOURCE | PRODUCT |
|---|--|
| AIR LIQUIDE CANADA INC. | LA 12K |
| American Filler Metals Company | AFM EM12K |
| American Welding Alloys | AWA EM12K |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS S2 |
| BELGO MINEIRA BEKAERT ARAMES S.A. | BMAS - 122 |
| Bohler Thyssen Welding USA, Inc. | Thyssen Union S2Si |
| Champion Welding Products | CHAMPION ELECTROMAT 72, CHAMPION EM12K |
| Electromanufacturas S.A | West Arco WA-61 |
| ESAB AB | OK Autrod 12.22 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 81 |
| Euroweld, Ltd. | EM12K |
| EXSA S.A. - División Soldaduras OERLIKON | PS-2 |
| EXSA S.A.- División Fontargen | FON A 100 S2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H100Si, H150Si |
| Indura S.A. Industria y Comercio | INDURA EM12k |
| Lincoln Electric Co. | Lincolnweld L-61 |
| Plasticos y Alambres, S. A. | SOLDAMATIC 121 |
| Techalloy Company, Inc. | RACO 123 |
| Washington Alloy Company | EM12K |
| Welding Alloys (USA), Inc. | SPEEDARC EM12K |
| WELDWIRE COMPANY INC. | Weldwire EM12K |

EM13K

| SOURCE | PRODUCT |
|-----------------------------------|------------|
| AIR LIQUIDE CANADA INC. | LA 13K |
| American Filler Metals Company | AFM EM13K |
| American Welding Alloys | AWA EM13K |
| BELGO MINEIRA BEKAERT ARAMES S.A. | BMAS - 113 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

EM13K (Continued from previous page)

| SOURCE | PRODUCT |
|--|------------------|
| Electromanufacturas S.A | West Arco WA-50 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 29S |
| EXSA S.A. - División Soldaduras OERLIKON | PS-05 |
| Lincoln Electric Co. | Lincolnweld L-50 |
| Plásticos y Alambres, S. A. | SOLDAMATIC 120 |
| Washington Alloy Company | 70S-3 |
| Welding Alloys (USA), Inc. | SPEEDARC S3 |
| WELDWIRE COMPANY INC. | WW EM13K |

EM14K

| SOURCE | PRODUCT |
|-------------------------|-------------------|
| American Welding Alloys | AWA EM14K |
| Lincoln Electric Co. | Lincolnweld LA-71 |

EM15K

| SOURCE | PRODUCT |
|-------------------------|-----------|
| American Welding Alloys | AWA EM15K |

EH11K

| SOURCE | PRODUCT |
|-------------------------|------------------|
| American Welding Alloys | AWA EH11K |
| Lincoln Electric Co. | Lincolnweld L-56 |

EH12K

| SOURCE | PRODUCT |
|----------------------------------|--------------------|
| American Welding Alloys | AWA EH12K |
| Bohler Thyssen Welding USA, Inc. | Thyssen Union S3Si |
| ESAB AB | OK Autrod 12.32 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 53 |
| Lincoln Electric Co. | Lincolnweld L-S3 |

EH14

| SOURCE | PRODUCT |
|---------------------------------|-----------------|
| American Welding Alloys | AWA EH14 |
| ESAB AB | OK Autrod 12.40 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 36 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H200 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

EH14 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------------|------------------------|
| Indura S.A. Industria y Comercio | INDURA EH14 |
| Kobe Steel, LTD. | US-36, US-36LT, US-49A |
| Plasticos y Alambres, S. A. | SOLDAMATIC 200 |
| Welding Alloys (USA), Inc. | SPEEDARC S4 |

EG

| SOURCE | PRODUCT |
|----------------------|--|
| Euroweld, Ltd. | 505 MOD |
| Kobe Steel, LTD. | US-49, US-70, US-80BN, US-80LT, US-255, US-2N, USW-52B, USW-62B, USO-52, US-56B, US-56BX, US-63S, US-501B, US-511, US-511N, US-521, US521S, US-502 |
| Lincoln Electric Co. | Lincolnweld LA-81, LNS 140TB |

EC1

| SOURCE | PRODUCT |
|----------------------|-------------------|
| Lincoln Electric Co. | Lincolnweld LC-72 |

ECG

| SOURCE | PRODUCT |
|---------------------------------|-----------------------|
| ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD HOT WORK |
| Lincoln Electric Co. | MC-100, MC-120S-55 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|--|-----------------------|------------------|
| F6A0-EL12 | | | |
| | ESAB AB | OK Autrod 12.10 | OK Flux 10.40 |
| | EXSA S.A. - División Soldaduras OERLIKON | PS-1 | POP 123 |
| F6A2-EL12 | | | |
| | ESAB AB | OK Autrod 12.10 | OK Flux 10.45 |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 80 | UNIONMELT 350M |
| | | SPOOLARC 80 | UNIONMELT 429 |
| | | SPOOLARC 80 | UNIONMELT 50 |
| | | SPOOLARC 80 | UNIONMELT 60 |
| | | SPOOLARC 80 | UNIONMELT 80 |
| | Lincoln Electric Co. | Lincolnweld L-60 | Lincolnweld 714 |
| | | Lincolnweld L-60 | Lincolnweld 760 |
| | | Lincolnweld L-60 | Lincolnweld 860 |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-60 | Lincolnweld 860 |
| | Plasticos y Alambres, S. A. | Solamatic 60 | Arromatic 280 |
| F6A2-EM12K | | | |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 81 | UNIONMELT 60 |
| | | SPOOLARC 81 | UNIONMELT 80 |
| | Lincoln Electric Co. | Lincolnweld L-61 | Lincolnweld 994 |
| F6A2-EH14 | | | |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 36 | UNIONMELT 20 |
| | | SPOOLARC 36 | UNIONMELT 50 |
| | | SPOOLARC 36 | UNIONMELT 60 |
| | | SPOOLARC 36 | UNIONMELT 80 |
| F6A4-EL12 | | | |
| | ESAB AB | OK Autrod 12.10 | OK Flux 10.71 |
| F6A4-EM12 | | | |
| | ESAB AB | OK Autrod 12.20 | OK Flux 10.62 |
| F6A4-EH14 | | | |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 36 | UNIONMELT 124 |
| F6A6-EL12 | | | |
| | Lincoln Electric Co. | Lincolnweld L-60 | Lincolnweld 882 |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-60 | Lincolnweld 882 |
| F6A6-EM13K | | | |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 29S | UNIONMELT 656 |
| F6P0-EL12 | | | |
| | ESAB AB | OK Autrod 12.10 | OK Flux 10.40 |
| | | OK Autrod 12.10 | OK Flux 10.80 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|--|--|------------------|
| F6P0-EM12 | ESAB AB | OK Autrod 12.20 | OK Flux 10.40 |
| | | OK Autrod 12.20 | OK Flux 10.80 |
| F6P2-EL12 | ESAB AB | OK Autrod 12.10 | OK Flux 10.45 |
| | | | |
| F6P2-EM12K | ESAB AB | OK Autrod 12.22 | OK Flux 10.45 |
| | | | |
| F6P4-EM12 | ESAB AB | OK Autrod 12.20 | OK Flux 10.71 |
| | | | |
| F6P5-EL12 | ESAB AB | OK Autrod 12.10 | OK Flux 10.71 |
| | | | |
| F6P5-EM12 | ESAB AB | OK Autrod 12.20 | OK Flux 10.62 |
| | | | |
| F6P5-EM12K | ESAB AB | OK Autrod 12.22 | OK Flux 10.71 |
| | | | |
| F6P8-EM12K | ESAB AB | OK Autrod 12.22 | OK Flux 10.62 |
| | | | |
| F7A0-EL12 | EXSA S.A. - División Soldaduras | OERLIKON PS1 | POP 185 |
| | HILARIUS HAARLEM HOLLAND BV | HILCO H60 | HILCO HW150 |
| | Lincoln Electric Co. | Lincolnweld L-60 | Lincolnweld 780 |
| | | Lincolnweld L-60 | Lincolnweld 781 |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-60 | Lincolnweld 780 |
| | | Lincolnweld L-60 | Lincolnweld 781 |
| F7A0-EM12 | ESAB AB | OK Autrod 12.20 | OK Flux 10.40 |
| | | OK Autrod 12.20 | OK Flux 10.81 |
| | HILARIUS HAARLEM HOLLAND BV | HILCO H100 | HILCO HW430 |
| | | HILCO H100 | HILCO HW450 |
| | | | |
| F7A0-EM12K | AIR LIQUIDE CANADA INC. | LA 12K | LA 23 |
| | ESAB AB | OK Autrod 12.22 | OK Flux 10.45 |
| | | OK Autrod 12.22 | OK Flux 10.81 |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 81 | UNIONMELT 281 |
| | EXSA S.A. - División Soldaduras | OERLIKON PS2 | POP 185 |
| | Lincoln Electric Co. | Lincolnweld L-61 | Lincolnweld 781 |
| | | Lincolnweld L-61 | Lincolnweld 997 |
| | | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-61 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Name | Flux Trade Name |
|----------------------------|--|----------------------|-----------------|
| F7A0-EM13K | | | |
| | AIR LIQUIDE CANADA INC. | LA 13K | LA 23 |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 29S | UNIONMELT 231 |
| | | SPOOLARC 29S | UNIONMELT 281 |
| | EXSA S.A. - División Soldaduras OERLIKON | PS-0.5 | POP 185 |
| | Lincoln Electric Co. | Lincolnweld L-50 | Lincolnweld 760 |
| | | Lincolnweld L-50 | Lincolnweld 761 |
| | | Lincolnweld L-50 | Lincolnweld 780 |
| | | Lincolnweld L-50 | Lincolnweld 781 |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-50 | Lincolnweld 761 |
| | | Lincolnweld L-50 | Lincolnweld 780 |
| | | Lincolnweld L-50 | Lincolnweld 781 |
| F7A0-EH12K | | | |
| | HILARIUS HAARLEM HOLLAND BV | HILCO H200 | HILCO HW580 |
| F7A0-EH14 | | | |
| | HILARIUS HAARLEM HOLLAND BV | HILCO H200 | HILCO HW180 |
| | | HILCO H200 | HILCO HW590 |
| F7A2-EL8 | | | |
| | HYUNDAI WELDING PRODUCTS, INC. | L-8 | S-727 |
| F7A2-EL12 | | | |
| | ESAB AB | OK Autrod 12.10 | OK Flux 10.80 |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 80 | UNIONMELT 350 |
| | Lincoln Electric Co. | Lincolnweld L-60 | Lincolnweld 761 |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-60 | Lincolnweld 761 |
| F7A2-EM12 | | | |
| | ESAB AB | OK Autrod 12.20 | OK Flux 10.70 |
| | | OK Autrod 12.20 | OK Flux 10.80 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|------------------------------------|--|---|------------------|
| F7A2-EM12K | AIR LIQUIDE CANADA INC. | LA 12K | LA 46 |
| | | LA 12K | LA 59 |
| | | LA 12K | LA 805 |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 81 | UNIONMELT 231 |
| | | SPOOLARC 81 | UNIONMELT 350 |
| | | SPOOLARC 81 | UNIONMELT 350M |
| | | SPOOLARC 81 | UNIONMELT 429 |
| | | SPOOLARC 81 | UNIONMELT 429M |
| | | SPOOLARC 81 | UNIONMELT 50 |
| | | SPOOLARC 81 | UNIONMELT 585 |
| | | SPOOLARC 81 | UNIONMELT 60 |
| | HILARIUS HAARLEM HOLLAND BV | SPOOLARC 81 | UNIONMELT 80 |
| | | HILCO H100Si | HILCO HW430 |
| | Lincoln Electric Co. | Lincolnweld L-61 | Lincolnweld 714 |
| | | Lincolnweld L-61 | Lincolnweld 760 |
| | | Lincolnweld L-61 | Lincolnweld 761 |
| | | Lincolnweld L-61 | Lincolnweld 780 |
| | | Lincolnweld L-61 | Lincolnweld 860 |
| | | Lincolnweld L-61 | Lincolnweld 865 |
| | | Lincolnweld L-61 | Lincolnweld 960 |
| | | Lincolnweld L-61 | Lincolnweld 980 |
| | | Lincolnweld L-61 | Lincolnweld 995 |
| | | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-61 |
| | Lincolnweld L-61 | | Lincolnweld 780 |
| | Lincolnweld L-61 | | Lincolnweld 860 |
| | Lincolnweld L-61 | | Lincolnweld 960 |
| | Lincolnweld L-61 | | Lincolnweld 995 |
| Plásticos y Alambres, S. A. | Soldamatic 121 | Arcomatic 280 | |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANS/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|--|-----------------------|------------------|
| F7A2-EM13K | AIR LIQUIDE CANADA INC. | LA 13K | LA 46 |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 29S | UNIONMELT 350 |
| | | SPOOLARC 29S | UNIONMELT 429M |
| | Lincoln Electric Co. | Lincolnweld L-50 | Lincolnweld 860 |
| | | Lincolnweld L-50 | Lincolnweld 865 |
| | | Lincolnweld L-50 | Lincolnweld 960 |
| | | Lincolnweld L-50 | Lincolnweld 980 |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-50 | Lincolnweld 860 |
| | | Lincolnweld L-50 | Lincolnweld 960 |
| | | Lincolnweld L-50 | Lincolnweld 980 |
| | Plasticos y Alambres, S. A. | Soldamatic 120 | Arcomatic 280 |
| F7A2-EM14K | Lincoln Electric Co. | Lincolnweld LA-71 | Lincolnweld 860 |
| | | Lincolnweld LA-71 | Lincolnweld 960 |
| F7A2-EH12K | Lincoln Electric Co. | Lincolnweld L-S3 | Lincolnweld 860 |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-S3 | Lincolnweld 860 |
| F7A2-EH14 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 36 | UNIONMELT 124 |
| | | SPOOLARC 36 | UNIONMELT 20 |
| | | SPOOLARC 36 | UNIONMELT 50 |
| | | SPOOLARC 36 | UNIONMELT 585 |
| | | SPOOLARC 36 | UNIONMELT 60 |
| | | SPOOLARC 36 | UNIONMELT 80 |
| | HYUNDAI WELDING PRODUCTS, INC. | H-14 | S-777MX |
| | Plasticos y Alambres, S. A. | Soldamatic 200 | Arcomatic 280 |
| F7A2-EC1 | Lincoln Electric Co. | Lincolnweld LC-72 | Lincolnweld 980 |
| F7A4-EL8 | HYUNDAI WELDING PRODUCTS, INC. | L-8 | S-707 |
| | | L-8 | SUPERFLUX 70H |
| F7A4-EL12 | ESAB AB | OK Autrod 12.10 | OK Flux 10.70 |
| | HILARIUS HAARLEM HOLLAND BV | HILCO H60 | HILCO HW530 |
| F7A4-EM12 | ESAB AB | OK Autrod 12.20 | OK Flux 10.71 |
| | HILARIUS HAARLEM HOLLAND BV | HILCO H100 | HILCO HW530 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|--|-----------------------|------------------|
| F7A4-EM12K | AIR LIQUIDE CANADA INC. | LA 12K | LA 46 |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 81 | UNIONMELT 439 |
| F7A4-EM14K | Lincoln Electric Co. | Lincolnweld LA-71 | Lincolnweld 880 |
| | | Lincolnweld LA-71 | Lincolnweld 882 |
| F7A4-EH11K | Lincoln Electric Co. | Lincolnweld L-56 | Lincolnweld 882 |
| F7A4-EH12K | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 53 | UNIONMELT 429 |
| F7A4-EH14 | HYUNDAI WELDING PRODUCTS, INC. | H-14 | S-737 |
| F7A5-EM12K | ESAB AB | OK Autrod 12.22 | OK Flux 10.71 |
| F7A5-EH12K | ESAB AB | OK Autrod 12.32 | OK Flux 10.71 |
| F7A8-EM12 | Bohler Thyssen Welding USA, Inc. | Thyssen Union S2 | UV421 TT |
| F7A6-EM12K | AIR LIQUIDE CANADA INC. | LA 12K | LA 59 |
| | Bohler Thyssen Welding USA, Inc. | Thyssen Union S2Si | UV421 TT |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 81 | UNIONMELT 651VF |
| | | SPOOLARC 81 | UNIONMELT 656 |
| | | SPOOLARC 81 | UNIONMELT 852 |
| | HILARIUS HAARLEM HOLLAND BV | H150Si | HILCO HW580 |
| | | HILCO H100Si | HILCO HW530 |
| | | HILCO H100Si | HILCO HW580 |
| | HYUNDAI WELDING PRODUCTS, INC. | M-12K | S-717 |
| | Lincoln Electric Co. | Lincolnweld L-61 | Lincolnweld 8500 |
| | | Lincolnweld L-61 | Lincolnweld 882 |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-61 | Lincolnweld 8500 |
| | | Lincolnweld L-61 | Lincolnweld 882 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|--|-----------------------|----------------------|
| F7A6-EM13K | | | |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 29S | UNIONMELT 651VF |
| | | SPOOLARC 29S | UNIONMELT 656 |
| | Lincoln Electric Co. | Lincolnweld L-50 | Lincolnweld 880M |
| | | Lincolnweld L-50 | Lincolnweld 882 |
| | | Lincolnweld L-50 | Lincolnweld MIL800 |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-50 | Lincolnweld 880M |
| | | Lincolnweld L-50 | Lincolnweld 882 |
| F7A6-EM14K | | | |
| | Lincoln Electric Co. | Lincolnweld LA-71 | Lincolnweld 880M |
| | | Lincolnweld LA-71 | Lincolnweld MIL800 |
| | | Lincolnweld LA-71 | Lincolnweld MIL800-H |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld LA-71 | Lincolnweld 880M |
| F7A6-EH11K | | | |
| | Lincoln Electric Co. | Lincolnweld L-56 | Lincolnweld 880M |
| | | Lincolnweld L-56 | Lincolnweld MIL800 |
| F7A6-EH12K | | | |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 53 | UNIONMELT 439 |
| | Lincoln Electric Co. | Lincolnweld L-S3 | Lincolnweld 8500 |
| | | Lincolnweld L-S3 | Lincolnweld 8500-H2 |
| | | Lincolnweld L-S3 | Lincolnweld 880M |
| | | Lincolnweld L-S3 | Lincolnweld 882 |
| | | Lincolnweld L-S3 | Lincolnweld MIL800 |
| | | Lincolnweld L-S3 | Lincolnweld MIL800-H |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-S3 | Lincolnweld 8500 |
| | | Lincolnweld L-S3 | Lincolnweld 880M |
| | | Lincolnweld L-S3 | Lincolnweld 882 |
| F7A6-EH14 | | | |
| | ESAB AB | OK Autrod 12.40 | OK Flux 10.62 |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 36 | UNIONMELT 852 |
| | HYUNDAI WELDING PRODUCTS, INC. | H-14 | S-707TP |
| F7A8-EM12K | | | |
| | AIR LIQUIDE CANADA INC. | LA 12K | LA 59 |
| | ESAB AB | OK Autrod 12.22 | OK Flux 10.61 |
| | | OK Autrod 12.22 | OK Flux 10.62 |
| | HILARIUS HAARLEM HOLLAND BV | HILCO H150Si | HILCO HW580 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|----------------------------------|-----------------------|------------------|
| F7A8-EH12K | | | |
| | Bohler Thyssen Welding USA, Inc. | Thyssen S 3 Si | Thyssen UV418TT |
| | | Thyssen Union S3Si | UV418 TT |
| | ESAB AB | OK Autrod 12.32 | OK Flux 10.62 |
| | | OK Autrod 12.32 | OK Flux 10.75 |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 53 | UNIONMELT 656 |
| F7A8-EH14 | | | |
| | HYUNDAI WELDING PRODUCTS, INC. | H-14 | S-787TB |
| | | H-14 | SUPERFLUX 787 |
| | | J-14 | S-717ULT |
| F7AZ-EL12 | | | |
| | ESAB AB | OK Autrod 12.10 | OK Flux 10.81 |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 80 | UNIONMELT 231 |
| | HILARIUS HAARLEM HOLLAND BV | HILCO H60 | HILCO HW400 |
| | | HILCO H60 | HILCO HW430 |
| | | HILCO H60 | HILCO HW450 |
| | Lincoln Electric Co. | Lincolnweld L-60 | Lincolnweld 731 |
| F7AZ-EM13K | | | |
| | Lincoln Electric Co. | Lincolnweld L-50 | Lincolnweld 985 |
| F7P0-EL12 | | | |
| | Lincoln Electric Co. | Lincolnweld L-60 | Lincolnweld 780 |
| F7P2-EM12 | | | |
| | ESAB AB | OK Autrod 12.20 | OK Flux 10.70 |
| F7P2-EM12K | | | |
| | Lincoln Electric Co. | Lincolnweld L-61 | Lincolnweld 865 |
| F7P2-EM13K | | | |
| | Lincoln Electric Co. | Lincolnweld L-50 | Lincolnweld 865 |
| F7P2-EM14K | | | |
| | Lincoln Electric Co. | Lincolnweld LA-71 | Lincolnweld 860 |
| | | Lincolnweld LA-71 | Lincolnweld 960 |
| F7P2-EH14 | | | |
| | HYUNDAI WELDING PRODUCTS, INC. | H-14 | S-777MX |
| F7P4-EL8 | | | |
| | HYUNDAI WELDING PRODUCTS, INC. | L-8 | SUPERFLUX 70H |
| F7P4-EL12 | | | |
| | ESAB AB | OK Autrod 12.10 | OK Flux 10.70 |
| | HYUNDAI WELDING PRODUCTS, INC. | L-12 | S-707 |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|--|-----------------------|----------------------|
| F7P4-EM12K | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 81 | UNIONMELT 429 |
| F7P4-EM13K | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 29S | UNIONMELT 429 |
| | EXSA S.A. - División Soldaduras OERLIKON | PS-0.5 | POP 121-TT |
| F7P4-EM14K | Lincoln Electric Co. | Lincolnweld LA-71 | Lincolnweld 880 |
| F7P4-EH14 | HYUNDAI WELDING PRODUCTS, INC. | H-14 | S-737 |
| F7P5-EH11K | Lincoln Electric Co. | Lincolnweld L-56 | Lincolnweld 882 |
| F7P5-EH14 | ESAB AB | OK Autrod 12.40 | OK Flux 10.62 |
| F7P6-EM14K | Lincoln Electric Co. | Lincolnweld LA-71 | Lincolnweld 880M |
| | | Lincolnweld LA-71 | Lincolnweld 882 |
| | | Lincolnweld LA-71 | Lincolnweld MIL800 |
| | | Lincolnweld LA-71 | Lincolnweld MIL800-H |
| F7P6-EH11K | Lincoln Electric Co. | Lincolnweld L-56 | Lincolnweld 880M |
| | | Lincolnweld L-56 | Lincolnweld MIL800 |
| F7P6-EH12K | ESAB AB | OK Autrod 12.32 | OK Flux 10.71 |
| | Lincoln Electric Co. | Lincolnweld L-S3 | Lincolnweld 8500 |
| | | Lincolnweld L-S3 | Lincolnweld 8500-H2 |
| | | Lincolnweld L-S3 | Lincolnweld 882 |
| | | Lincolnweld L-S3 | Lincolnweld MIL800-H |
| F7P6-EH14 | HYUNDAI WELDING PRODUCTS, INC. | H-14 | S-707TP |
| F7P8-EM12K | ESAB AB | OK Autrod 12.22 | OK Flux 10.61 |
| F7P8-EH12K | ESAB AB | OK Autrod 12.32 | OK Flux 10.62 |
| | | OK Autrod 12.32 | OK Flux 10.75 |
| F7P8-EH14 | HYUNDAI WELDING PRODUCTS, INC. | H-14 | S-787TB |
| | | H-14 | SUPERFLUX 787 |
| | | J-14 | S-717ULT |

A5.17/A5.17M-97, CARBON STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.17/A5.17M-97, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|----------------------|-----------------------|------------------|
| F7PZ-EL12 | ESAB AB | OK Autrod 12.10 | OK Flux 10.81 |
| F7PZ-EM12 | ESAB AB | OK Autrod 12.20 | OK Flux 10.81 |
| F7PZ-EM12K | Lincoln Electric Co. | Lincolnweld L-61 | Lincolnweld 780 |

A5.18-93, CARBON STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.18-93, Specification for Carbon Steel Electrodes and Rods for Gas Shielded Arc Welding

ER70S-2

| SOURCE | PRODUCT |
|---------------------------------------|--|
| AIR LIQUIDE CANADA INC. | LA 75G, LA S-6 |
| All-State Welding Products | 70S-2 |
| American Filler Metals Company | AFM 70S-2 |
| American Welding Alloys | AWA E70S-2 |
| Astrolite Alloys | Astrolite ER70S-2 |
| Champion Welding Products | CHAMPION ER70S-2 |
| Crown Alloys Company | Crown #2 |
| ELGA AB | ELGATIG 115 |
| ESAB AB | OK Autrod 12.62, Tigrod 12.62 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 65 |
| Euroweld, Ltd. | ER702-2 |
| Faiter Elettrodi S.p.A | FILFAITER/G1 |
| HARRIS WELCO | WELCO ER70S-2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG 1 A SUPERFLOW |
| HYUNDAI WELDING PRODUCTS, INC. | ST-72 |
| Inweld Corporation | INWELD 70S-2 |
| Kobe Steel, LTD. | NO65G |
| LANCASTER ALLOYS COMPANY | LAC L137, L137B |
| Lincoln Electric Co. | Lincolnweld L-52, SuperArc L-52, Lincoln ER70S-2 |
| Messer - MG Systems & Welding Inc. | MG 70S2 |
| Midalloy, Inc. | Midalloy ER70S-2 |
| Nassau Research Corp. | Tartan Mig |
| National-Standard | NS-103 |
| NATWELD | ER70S-2 |
| Oxford Alloys, Inc. | OXFORD ER70S-2 |
| SOWESCO | Pinnacle Alloys ER70S-2 |
| Techalloy Company, Inc. | RACO 70S-2 |
| UNITED STATES WELDING CORPORATION | TURBALOY 702 |
| Uniweld Products, Inc. | STEELTIG 70S2, STEELMIG 70S2 |
| Washington Alloy Company | 70S-2 |
| Weld Mold Company | 70S-2 |
| WELDWIRE COMPANY INC. | WW 70S-2 |

A5.18-93, CARBON STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.18-93, Specification for Carbon Steel Electrodes and Rods for Gas Shielded Arc Welding

ER70S-3

| SOURCE | PRODUCT |
|--|---|
| AIR LIQUIDE CANADA INC. | LA S-3, LA Hi-Tensile |
| Airco Filler Metals | Easy-Feed 3 |
| All-State Welding Products | 70S-3 |
| American Filler Metals Company | AFM 70S-3 |
| American Welding Alloys | AWA E70S-3 |
| Arcweld Products, Ltd. | EASYARC 703 |
| Astrolite Alloys | Astrolite ER70S-3 |
| BELGO MINEIRA BEKAERT ARAMES S.A. | BME - C3 |
| Champion Welding Products | CHAMPION ER70S-3 |
| Cronatron Welding Systems | Cronaweld ER70S-3 |
| Crown Alloys Company | Crown #3, ER70S-3 |
| Electromanufacturas S.A | West Arco WA-82 |
| ESAB AB | OK Autrod 12.60 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 29S, 66, 82 |
| EXSA S.A. - División Soldaduras OERLIKON | Carbofil PS2GC |
| EXSA S.A.- División Fontargen | FON A 100 MAG |
| HARRIS WELCO | WELCO ER70S-3 |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG 1 |
| Hobart Welding Products | BR-3, HB-25 |
| HYUNDAI WELDING PRODUCTS, INC. | SM-70S |
| Indura S.A. Industria y Comercio | INDURA 70S-3 |
| Inweld Corporation | INWELD 70S-3 |
| Kobe Steel, LTD. | MIX-50 |
| LANCASTER ALLOYS COMPANY | LAC L125, L125B |
| Lincoln Electric Co. | Lincolnweld L-50, L-50B, SuperArc L-50, SuperGlide S3 |
| McKay Welding Products | MCKAY S-3 |
| Messer - MG Systems & Welding Inc. | MG 70S3 |
| Murex Welding Products | Murematic S3 |
| National-Standard | NS-101 |
| NATWELD | ER70S-3 |
| Oxford Alloys, Inc. | OXFORD ER70S-3 |
| Plásticos y Alambres, S. A. | M.W. SOLDAMATIC 120 |
| SOWESCO | Pinnacle Alloys ER70S-3 |
| Techalloy Company, Inc. | RACO 70S-3 |

A5.18-93, CARBON STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.18-93, Specification for Carbon Steel Electrodes and Rods for Gas Shielded Arc Welding

ER70S-3 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|------------------------------|
| Thermal Arc | TRS3 |
| Uniweld Products, Inc. | STEELTIG 70S3, STEELMIG 70S3 |
| Washington Alloy Company | 70S-3 |
| WELDWIRE COMPANY INC. | WW 70S-3 |

ER70S-4

| SOURCE | PRODUCT |
|---------------------------------|---------------------------------|
| Airco Filler Metals | Easy-Feed 4 |
| American Welding Alloys | AWA E70S-4 |
| Astrolite Alloys | Astrolite ER70S-4 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 85 |
| LANCASTER ALLOYS COMPANY | LAC L197, L197B |
| Lincoln Electric Co. | Lincolnweld L-54, SuperArc L-54 |
| Washington Alloy Company | 70S-4 |
| WELDWIRE COMPANY INC. | WW 70S-4 |

ER70S-5

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| American Welding Alloys | AWA E70S-5 |
| Astrolite Alloys | Astrolite ER70S-5 |
| LANCASTER ALLOYS COMPANY | LAC L198, L198B |

ER70S-6

| SOURCE | PRODUCT |
|---|-------------------------------|
| AIR LIQUIDE CANADA INC. | LA S-6, LA 75G |
| Airco Filler Metals | Easy-Feed 6 |
| All-State Welding Products | 70S-6, 88-T |
| American Filler Metals Company | AFM 70S-6 |
| American Welding Alloys | AWA E70S-6 |
| Arctec Alloys Limited | ARCTEC ER70S-6 |
| Arcweld Products, Ltd. | EASYARC 706 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS SG2 |
| Astrolite Alloys | Astrolite ER70S-6 |
| BELGO MINEIRA BEKAERT ARAMES S.A. | BME - C4, BME - C8, BME - C4C |
| BMS, Inc., Koballoy & Texas Division | TEXGAS S-6 |
| Bohler Thyssen Welding USA, Inc. | Thyssen Union K52, K56 |

A5.18-93, CARBON STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.18-93, Specification for Carbon Steel Electrodes and Rods for Gas Shielded Arc Welding

ER70S-6 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--|
| Champion Welding Products | CHAMPION ER70S-6 |
| Chosun Steel Wire Company | MC50T |
| Crown Alloys Company | Crown #7, ER70S-6 |
| D&H Secheron Electrodes Limited | AUTOTHERME-1 |
| Electromanufacturas S.A | West Arco WA-86 |
| ELGA AB | ELGATIG 100, ELGAMATIC 100 |
| ESAB AB | OK Autrod 12.51, 12.64, Tigrod 12.64 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 86 |
| Euroweld, Ltd. | ER70S-6 |
| EXSA S.A. - División Soldaduras OERLIKON | CARBOFIL P6-GC, TIGFIL St-6 |
| EXSA S.A.- División Fontargen | FON A 101 MAG, A 100TIG |
| Faiter Elettrodi S.p.A | FILFAITER/P |
| HARRIS WELCO | WELCO ER70S-6 |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG 2, SG 3, K60 |
| Hobart Welding Products | BR-6, HB28 |
| HYUNDAI WELDING PRODUCTS, INC. | SM-70 |
| Indura S.A. Industria y Comercio | INDURA 70S-6 |
| Inweld Corporation | INWELD 70S-6 |
| Kobe Steel, LTD. | TGS-51T, MG-51T |
| LANCASTER ALLOYS COMPANY | LAC L151, L151B |
| Lincoln Electric Co. | Lincolnweld L-56, L-56B, Lincoln ER70S-6, SuperArc L-56, SuperGlide S6 |
| McKay Welding Products | MCKAY S-6 |
| Messer - MG Systems & Welding Inc. | MG 70S6 |
| Midalloy, Inc. | Midalloy ER70S-6 |
| Murex Welding Products | Murematic S6 |
| Nassau Research Corp. | Tartan Mig |
| National-Standard | NS-115 |
| NATWELD | ER70S-6 |
| Oxford Alloys, Inc. | OXFORD ER70S-6 |
| Plásticos y Alambres, S. A. | M. W. SOLDAMATIC 160 |
| SOWESCO | Pinnacle Alloys ER70S-6 |
| Techalloy Company, Inc. | RACO 70S-6 |
| Thermal Arc | TRS6, TLS6, and TAS6 |
| Uniweld Products, Inc. | STEELTIG 70S6, STEELMIG 70S6 |

A5.18-93, CARBON STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.18-93, Specification for Carbon Steel Electrodes and Rods for Gas Shielded Arc Welding

ER70S-6 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|----------|
| Washington Alloy Company | 70S-6 |
| Weld Mold Company | 70S-6 |
| WELDWIRE COMPANY INC. | WW 70S-6 |

ER70S-7

| SOURCE | PRODUCT |
|------------------------------------|-------------------|
| American Welding Alloys | AWA E70S-7 |
| Astrolite Alloys | Astrolite ER70S-7 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 87HP |
| Messer - MG Systems & Welding Inc. | MG 70S7 |
| National-Standard | NS-116 |
| Oxford Alloys, Inc. | OXFORD ER70S-7 |
| Washington Alloy Company | 70S-7 |
| WELDWIRE COMPANY INC. | WW 70S-7 |

ER70S-G

| SOURCE | PRODUCT |
|------------------------------------|---|
| American Filler Metals Company | AFM 70S-G |
| American Welding Alloys | AWA E70S-G |
| Astrolite Alloys | Astrolite ER70S-G |
| ELGA AB | ELGAMATIC 103, ALUTIG 181 CR |
| HYUNDAI WELDING PRODUCTS, INC. | ST-50G, SM-70G, SM-70GS |
| Kobe Steel, LTD. | MG-1, MG-1Z, MG-50, MG-2, MIX-1Z, MIX-50S, MGS-50, TGS-50, MGS-50LT |
| Messer - MG Systems & Welding Inc. | MG 70SG |
| National-Standard | NS-104 |
| Washington Alloy Company | 70S-G |
| WELDWIRE COMPANY INC. | WW 70S-G |

E70C-3C

| SOURCE | PRODUCT |
|-------------------|-------------------|
| COREX | METAL-COR 6L |
| National-Standard | TRU-COR NS 70C-3C |

E70C-3M

| SOURCE | PRODUCT |
|-------------------|-------------------|
| National-Standard | TRU-COR NS 70C-3M |

A5.18-93, CARBON STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.18-93, Specification for Carbon Steel Electrodes and Rods for Gas Shielded Arc Welding

E70C-3M (Continued from previous page)

| SOURCE | PRODUCT |
|---------|-------------------------|
| SOWESCO | Pinnacle Alloys E70C-3M |

E70C-6C

| SOURCE | PRODUCT |
|--------------------------|--------------------------|
| COREX | METAL-COR 3,6 |
| ESAB AB | OK Tubrod 14,12 |
| Hobart Welding Products | FABCOR 86R |
| Lincoln Electric Co. | Outershield MC-702 |
| National-Standard | TRU-COR NS 70C-6C |
| TRIMARK | METALLOY70,71,76,70R |

E70C-6M

| SOURCE | PRODUCT |
|----------------------------------|--|
| AIR LIQUIDE CANADA INC. | LA C6 |
| Airco Filler Metals | Easy-Core MC-710 |
| Arctec Alloys Limited | ARCTEC MCS 180 |
| Bohler Thyssen Welding USA, Inc. | Thyssen TG55Fe, TG50Fe, MV70 |
| ESAB WELDING & CUTTING PRODUCTS | COREWELD 70; COREWELD ULTRA |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 52, HILCORD 53 |
| Hobart Welding Products | FABCOR 86R, FABCOR 96 |
| Lincoln Electric Co. | Outershield MC-710, MC-710-H, MC-710XL, MC-715-H |
| McKay Welding Products | SPEED-ALLOY 77 |
| Murex Welding Products | Mure-Core MC-710 |
| National-Standard | TRU-COR NS 70C-6M |
| SOWESCO | Pinnacle Alloys E70C-6M |

E70C-GS(C)

| SOURCE | PRODUCT |
|-------------------------|----------|
| Hobart Welding Products | GALVACOR |

A5.19-92, MAGNESIUM ALLOY Bare Electrodes and Welding Rods

See ANSI/AWS A5.19-92, Specification for Magnesium Alloy Welding Electrodes and Rods

ERAZ61A

| SOURCE | PRODUCT |
|-----------------------------------|-----------------------|
| American Filler Metals Company | AFM AZ61A |
| American Welding Alloys | AWA AZ61A |
| Astrolite Alloys | Astrolite ER AZ61A |
| Cronatron Welding Systems | Cronaweld ER AZ61A |
| Crown Alloys Company | Crown ER AZ61A |
| EXSA S.A.- División Fontargen | FON A 411 |
| HARRIS WELCO | WELCO ERAZ61A |
| Inweld Corporation | INWELD AZ61A |
| LANCASTER ALLOYS COMPANY | LAC 4350 |
| Nassau Research Corp. | Neptune |
| Oxford Alloys, Inc. | OXFORD ERAZ61A |
| Sodel Ltd | Sodel 681 |
| UNITED STATES WELDING CORPORATION | TURBO-MAG 61 |
| Uniweld Products, Inc. | MAGNESIUM AZ61A |
| Washington Alloy Company | AZ61A |
| Weld Mold Company | AZ61-A |
| WELDWIRE COMPANY INC. | WW AZ61A |

RAZ61A

| SOURCE | PRODUCT |
|-----------------------------------|-------------------|
| American Welding Alloys | AWA RAZ61A |
| Astrolite Alloys | Astrolite R AZ61A |
| Crown Alloys Company | Crown R AZ61A |
| HARRIS WELCO | WELCO RAZ61A |
| Inweld Corporation | INWELD AZ61A |
| LANCASTER ALLOYS COMPANY | LAC 4350 |
| Nassau Research Corp. | Neptune |
| UNITED STATES WELDING CORPORATION | TURBO-MAG 61 |
| Washington Alloy Company | AZ61A |
| WELDWIRE COMPANY INC. | WW RAZ61A |

ERAZ92A

| SOURCE | PRODUCT |
|--------------------------------|-----------|
| All-State Welding Products | 61-T |
| American Filler Metals Company | AFM AZ92A |

A5.19-92, MAGNESIUM ALLOY Bare Electrodes and Welding Rods

See ANSI/AWS A5.19-92, Specification for Magnesium Alloy Welding Electrodes and Rods

ERAZ92A (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|-----------------------|
| American Welding Alloys | AWA AZ92A |
| Astrolite Alloys | Astrolite ER AZ92A |
| Crown Alloys Company | Crown ER AZ92A |
| HARRIS WELCO | WELCO ERAZ92A |
| Inweld Corporation | INWELD AZ92A |
| LANCASTER ALLOYS COMPANY | LAC 4395 |
| Nassau Research Corp. | Neptune |
| Oxford Alloys, Inc. | OXFORD ERAZ92A |
| UNITED STATES WELDING CORPORATION | TURBO-MAG 92 |
| Uniweld Products, Inc. | MAGNESIUM AZ92A |
| Washington Alloy Company | AZ92A |
| WELDWIRE COMPANY INC. | WW AZ92A |

RAZ92A

| SOURCE | PRODUCT |
|-----------------------------------|-------------------|
| American Welding Alloys | AWA RAZ92 |
| Astrolite Alloys | Astrolite R AZ92A |
| Crown Alloys Company | Crown R AZ92A |
| HARRIS WELCO | WELCO RAZ92A |
| Inweld Corporation | INWELD AZ92A |
| LANCASTER ALLOYS COMPANY | LAC 4395 |
| UNITED STATES WELDING CORPORATION | TURBO-MAG 92 |
| Washington Alloy Company | AZ92A |
| WELDWIRE COMPANY INC. | WW RAZ92A |

ERAZ101A

| SOURCE | PRODUCT |
|---------------------------------------|----------------------|
| American Filler Metals Company | AFM AZ101A |
| American Welding Alloys | AWA AZ101A |
| Astrolite Alloys | Astrolite ER AZ101A |
| Inweld Corporation | INWELD AZ101A |
| LANCASTER ALLOYS COMPANY | LAC M163 |
| Nassau Research Corp. | Neptune |
| Oxford Alloys, Inc. | OXFORD AZ101A |
| Washington Alloy Company | AZ101A |

A5.19-92, MAGNESIUM ALLOY Bare Electrodes and Welding Rods

See ANSI/AWS A5.19-92, Specification for Magnesium Alloy Welding Electrodes and Rods

RAZ101A

| SOURCE | PRODUCT |
|-----------------------------------|--------------------|
| Astrolite Alloys | Astrolite R AZ101A |
| UNITED STATES WELDING CORPORATION | TURBO-MAG 101 |
| Washington Alloy Company | AZ101A |

EREZ33A

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| American Filler Metals Company | AFM EZ33A |
| American Welding Alloys | AWA EZ33A |
| Astrolite Alloys | Astrolite ER EZ33A |
| Inweld Corporation | INWELD EZ33A |
| LANCASTER ALLOYS COMPANY | LAC 4396 |
| Oxford Alloys, Inc. | OXFORD EZ33A |
| Washington Alloy Company | AZ33A |

REZ33A

| SOURCE | PRODUCT |
|-----------------------------------|-------------------|
| American Welding Alloys | AWA REZ33A |
| Astrolite Alloys | Astrolite R EZ33A |
| Inweld Corporation | INWELD E233A |
| LANCASTER ALLOYS COMPANY | LAC 4396 |
| UNITED STATES WELDING CORPORATION | TURBO-MAG 33 |
| Washington Alloy Company | AZ33A |

A5.20-95, CARBON STEEL Flux Cored Arc Welding Electrodes

See ANSI/AWS A5.20-95, Specification for Carbon Steel Electrodes for Flux Cored Arc Welding

E70T-1

| SOURCE | PRODUCT |
|--|---|
| AIR LIQUIDE CANADA INC. | LA T-9, LA T-9 Plus |
| Airco Filler Metals | Easy-Core 70T-1 |
| American Filler Metals Company | AFM 70T-1 |
| Arctec Alloys Limited | ARCTEC FCS 170 FHP |
| COREX | FLUX-COR 2,7 ,SUPER-COR, TUF-COR 1 |
| ELGA AB | ELGACORE MX 200 |
| ESAB AB | OK Tubrod 15.10, 15.12, 15.16, 15.18 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 111-A, 111A-C, 78, 111-HD, 111-RB, ARC 70, R-70 ULTRA, 87 |
| EXSA S.A.- División Fontargen | FONTARFIL 2001 |
| Hobart Welding Products | FABCO RXR, TR-70 |
| HYUNDAI WELDING PRODUCTS, INC. | SF-70MX |
| Kobe Steel, LTD. | DW-200, MS-55, MX-100, MX-100S, MX-101, MX-200, MX-200H, MXA-100, MXA-200 |
| Lincoln Electric Co. | Outershield 70, 70-H, 70C, HD70, XLH70 |
| Lincoln Electric Company (Australia) Pty Ltd | Outershield 70, Outershield HD70 |
| Midalloy, Inc. | Midalloy E70T-1 |
| Murex Welding Products | Mure-Core 70T-1 |
| National-Standard | TRU-COR NS 70T-1 |
| Select-Arc, Inc. | Select 70, Select Super 70, Select 79, Select 97 |
| SOWESCO | Pinnacle Alloys E70T-1 |
| TRIMARK | TM11,TMRX7,TM72 |
| Washington Alloy Company | 70T-1 |
| Welding Alloys (USA), Inc. | SPEEDARC X70-T1 (CO2) |
| WELDWIRE COMPANY INC. | WW 70T-1 |

E70T-1M

| SOURCE | PRODUCT |
|---------------------------------|-----------------------------------|
| AIR LIQUIDE CANADA INC. | LA T-9, LA T-9 Plus |
| ELGA AB | ELGACORE MXA 100, ELGACORE MX 200 |
| ESAB WELDING & CUTTING PRODUCTS | R-70 ULTRA |
| Welding Alloys (USA), Inc. | SPEEDARC X70-T1 |

E71T-1

| SOURCE | PRODUCT |
|-------------------------|-----------------------------------|
| AIR LIQUIDE CANADA INC. | LA T-91, LA T-91 Plus, LA T-91 LF |

A5.20-95, CARBON STEEL Flux Cored Arc Welding Electrodes

See ANSI/AWS A5.20-95, Specification for Carbon Steel Electrodes for Flux Cored Arc Welding

E71T-1 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--|
| Airco Filler Metals | Easy-Core 71T-1, 71LX |
| American Filler Metals Company | AFM 71T-1 |
| Arctec Alloys Limited | ARCTEC FCS 171 |
| Bohler Thyssen Welding USA, Inc. | Thyssen TG 50 C, RV 72, TG 50 M, RV71 |
| Chosun Steel Wire Company | CSF-71T |
| COREX | VERTI-COR 71, VERSATILE |
| Cronatron Welding Systems | Cronaweld E71T-1 |
| Crown Alloys Company | Crown E71T-1 |
| ELGA AB | ELGACORE DW 50, ELGACORE DW 55 E, ELGACORE MX 100 T |
| ESAB AB | OK Tubrod 15.12, 15.14, 15.15, 15.18 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 7000, 7100, 7100LC, ARC 71, II 70 ULTRA, II 71 ULTRA, II 70T-12, FC717 |
| EXSA S.A. - División Soldaduras OERLIKON | TUB 71T-1 |
| EXSA S.A.- División Fontargen | FONTARFIL 2101 |
| HARRIS WELCO | WELCO E71T-1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 40, HILCORD 41C |
| Hobart Welding Products | FORMULA XL-550 |
| HYUNDAI WELDING PRODUCTS, INC. | SF-71 |
| HYUNDAI WELDING PRODUCTS, INC. | Supercored 71 |
| Inweld Corporation | INWELD E71T-1 |
| Kobe Steel, LTD. | FRONTIARC-711, DW-100, DW-100V, DW-110, MX-100T, MX-100Z |
| Lincoln Electric Co. | Outershield 71, 71-H, 71E-H, 71M, 71M-H, 71HYC, 71XL, 71 ELITE, 71HYM, 712C, 712M, Lincoln 712C, |
| Lincoln Electric Company (Australia) Pty Ltd | Outershield 71M |
| Midalloy, Inc. | Midalloy E71T-1 |
| Murex Welding Products | Mure-Core 71T-1 |
| Nassau Research Corp. | Polaris |
| National-Standard | TRU-COR NS 71T-1 |
| NATWELD | E71T-1 |
| Select-Arc, Inc. | Select 710, Select 712, Select 714, Select 716, Select 720 |
| SOWESCO | Pinnacle Alloys E71T-1 |
| TRIMARK | TM711M, TRIPLE 7, TM770, TM771, TM772 |
| Uniweld Products, Inc. | FLUX CORED MIG E71T-1 |
| Washington Alloy Company | 71T-1 |

A5.20-95, CARBON STEEL Flux Cored Arc Welding Electrodes

See ANSI/AWS A5.20-95, Specification for Carbon Steel Electrodes for Flux Cored Arc Welding

E71T-1 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|------------------------------------|
| Weld Mold Company | 71T-1 |
| Welding Alloys (USA), Inc. | SPEEDARC X71-71 (CO ₂) |
| WELDWIRE COMPANY INC. | WW 71T-1 |

E71T-1M

| SOURCE | PRODUCT |
|---------------------------------|--|
| AIR LIQUIDE CANADA INC. | LA T-91, LA T-91 Plus, LA T-91 LF |
| Chosun Steel Wire Company | CSF-71TM |
| ELGA AB | ELGACORE DWA 50, ELGACORE DWA 55E |
| ESAB WELDING & CUTTING PRODUCTS | 70 ULTRA PLUS, FC717, 7000, 7100 ULTRA, 7100 LC, II 70 ULTRA, II 70T-12 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 41, HILCORD 40S |
| Hobart Welding Products | FORMULA XL-525, EXCELARC 71 |
| Kobe Steel, LTD. | FRONTIARC 711, DWA-50 |
| Lincoln Electric Co. | Outershield 71HYM, 71S |
| Nassau Research Corp. | Polaris |
| Select-Arc, Inc. | Select 712, Select 714, Select 720 |
| SOWESCO | Pinnacle Alloys E71T-1M |
| TRIMARK | TM-770 |
| Washington Alloy Company | 71T-1 |
| Welding Alloys (USA), Inc. | SPEEDARC X71-T1 |

E70T-2

| SOURCE | PRODUCT |
|---------------------------------|----------------------------|
| COREX | FLUX-COR 3 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD SP; T-63; 110 |
| Kobe Steel, LTD. | DW-300 |
| Lincoln Electric Co. | Outershield 72 |
| Select-Arc, Inc. | Select 72, Select Super 72 |
| TRIMARK | TM73 |

E70T-3

| SOURCE | PRODUCT |
|----------------------|------------------------|
| COREX | SELF-SHIELD 3,3R |
| Lincoln Electric Co. | Innershield NR-1, NR-5 |
| Select-Arc, Inc. | Select 73 |

A5.20-95, CARBON STEEL Flux Cored Arc Welding Electrodes

See ANSI/AWS A5.20-95, Specification for Carbon Steel Electrodes for Flux Cored Arc Welding

E70T-4

| SOURCE | PRODUCT |
|--|-------------------|
| AIR LIQUIDE CANADA INC. | LA Unishield |
| COREX | SELF-SHIELD 4 |
| ESAB WELDING & CUTTING PRODUCTS | CORESHIELD 40 |
| EXSA S.A. - División Soldaduras OERLIKON | TUB 70T-4 |
| EXSA S.A.- División Fontargen | FONTARFIL 2004 |
| Hobart Welding Products | FABSHIELD 4 |
| Kobe Steel, LTD. | OW-56A |
| Lincoln Electric Co. | Innershield NS-3M |
| Lincoln Electric Company (Australia) Pty Ltd | Innershield NS-3M |
| Nassau Research Corp. | Polaris |
| Select-Arc, Inc. | Select 74 |
| TRIMARK | TM44 |
| Welding Alloys (USA), Inc. | SPEEDARC X70-T4 |

E70T-5

| SOURCE | PRODUCT |
|--|-----------------------------------|
| Bohler Thyssen Welding USA, Inc. | Thyssen BA 70 |
| COREX | TUF-COR 5 |
| ESAB AB | OK Tubrod 15.00 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD T-75; DUAL SHIELD T-5 |
| EXSA S.A. - División Soldaduras OERLIKON | TUB-75 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilcord 51 |
| Hobart Welding Products | FABCO 85 |
| Lincoln Electric Co. | Outershield 75C |
| National-Standard | TRU-COR NS 70T-5 |
| Select-Arc, Inc. | Select 75 |
| TRIMARK | TM55 |

E70T-5M

| SOURCE | PRODUCT |
|--|------------------|
| ELGA AB | ELGACORE DWA 51B |
| ESAB WELDING & CUTTING PRODUCTS | T-75 |
| Lincoln Electric Co. | Outershield 75-H |
| Lincoln Electric Company (Australia) Pty Ltd | Outershield 75-H |

A5.20-95, CARBON STEEL Flux Cored Arc Welding Electrodes

See ANSI/AWS A5.20-95, Specification for Carbon Steel Electrodes for Flux Cored Arc Welding

E71T-5

| SOURCE | PRODUCT |
|----------------------------------|-------------------|
| Bohler Thyssen Welding USA, Inc. | Thyssen TG 50 B |
| ESAB AB | OK Tubrod 15.00 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD T-5 |
| Kobe Steel, LTD. | DWA-51B |
| Lincoln Electric Co. | Outershield T55-H |
| Welding Alloys (USA), Inc. | SPEEDARC X71-T5 |

E71T-5M

| SOURCE | PRODUCT |
|---------------------------------|-----------------|
| ESAB WELDING & CUTTING PRODUCTS | T-5 |
| Welding Alloys (USA), Inc. | SPEEDARC X71-T5 |

E70T-6

| SOURCE | PRODUCT |
|----------------------|--------------------|
| Lincoln Electric Co. | Innershield NR-305 |

E70T-7

| SOURCE | PRODUCT |
|--|--------------------|
| COREX | SELF-SHIELD 7 |
| ESAB WELDING & CUTTING PRODUCTS | CORESHIELD 7 |
| Hobart Welding Products | FABSHIELD 7027 |
| Lincoln Electric Co. | Innershield NR-311 |
| Lincoln Electric Company (Australia) Pty Ltd | Innershield NR-311 |
| TRIMARK | TM77 |
| Welding Alloys (USA), Inc. | SPEEDARC X70-T7 |

E71T-7

| SOURCE | PRODUCT |
|----------------------------|--------------------|
| Lincoln Electric Co. | Innershield NR-202 |
| Welding Alloys (USA), Inc. | SPEEDARC X71-T7 |

E71T-8

| SOURCE | PRODUCT |
|--|---|
| Hobart Welding Products | FABSHIELD 7018 |
| Lincoln Electric Co. | Innershield NR-203M, NR-203MP, NR-232 |
| Lincoln Electric Company (Australia) Pty Ltd | Innershield NR-203M, Innershield NR-232 |

A5.20-95, CARBON STEEL Flux Cored Arc Welding Electrodes

See ANSI/AWS A5.20-95, Specification for Carbon Steel Electrodes for Flux Cored Arc Welding

E70T-9

| SOURCE | PRODUCT |
|---------------------------------|--|
| AIR LIQUIDE CANADA INC. | LA T-9, LA T-9 Plus |
| Airco Filler Metals | Easy-Core 70T-1 |
| COREX | SUPERCOR |
| ESAB WELDING & CUTTING PRODUCTS | R-70 ULTRA |
| Lincoln Electric Co. | Outershield 70, 70-H, 70C, HD70, XLH70 |
| Murex Welding Products | Mure-Core 70T-1 |
| WELDWIRE COMPANY INC. | WW 70T-9 |

E70T-9M

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| AIR LIQUIDE CANADA INC. | LA T-9, LA T-9 Plus |
| ESAB WELDING & CUTTING PRODUCTS | R-70 ULTRA |

E71T-9

| SOURCE | PRODUCT |
|---------------------------------|--|
| AIR LIQUIDE CANADA INC. | LA T-91, LA T-91 Plus, LA T-91 LF |
| Airco Filler Metals | Easy-Core 71T-1, 71LX |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD FC-717, 7100 ULTRA, 7100 LC, II 71 ULTRA |
| Hobart Welding Products | EXCELARC 71 |
| Kobe Steel, LTD. | DW-100E, MX-100E |
| Lincoln Electric Co. | Outershield 71, 71-H, 71M, 71M-H, 71HYC, 71XL, 71 ELITE, 71HYM, 712C, 712M |
| Murex Welding Products | Mure-Core 71T-1 |
| Select-Arc, Inc. | Select 712, Select 714, Select 716, Select 720 |
| TRIMARK | TM-772 |
| Washington Alloy Company | 71T-1 |
| Welding Alloys (USA), Inc. | SPEEDARC X71-T1 (CO ₂) |
| WELDWIRE COMPANY INC. | WW 71T-9 |

E71T-9M

| SOURCE | PRODUCT |
|---------------------------------|---|
| AIR LIQUIDE CANADA INC. | LA T-91, LA T-91 LF, LA T-91 Plus, LA T-91 C40 (E71T-9MJ) |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD FC-717, 7100 ULTRA, 7100 LC, 70 ULTRA PLUS, II 70 ULTRA |
| Hobart Welding Products | EXCELARC 71 |
| Lincoln Electric Co. | Outershield 71XL |

A5.20-95, CARBON STEEL Flux Cored Arc Welding Electrodes

See ANSI/AWS A5.20-95, Specification for Carbon Steel Electrodes for Flux Cored Arc Welding

E71T-9M (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|------------------------------------|
| Select-Arc, Inc. | Select 712, Select 714, Select 720 |
| Washington Alloy Company | 71T-1 |
| Welding Alloys (USA), Inc. | SPEEDARC X71-T1 |

E70T-10

| SOURCE | PRODUCT |
|-------------------------|-----------------------------|
| Hobart Welding Products | FABSHIELD HSR |
| Lincoln Electric Co. | Innershield NR-131, NR-131B |
| National-Standard | TRU-COR NS 70T-10 |

E70T-11

| SOURCE | PRODUCT |
|--------------------------------|----------------|
| American Filler Metals Company | AFM E70T-11 |
| Inweld Corporation | INWELD E71T-11 |

E71T-11

| SOURCE | PRODUCT |
|--|-------------------------|
| Airco Filler Metals | Easy-Shield 211A |
| All-State Welding Products | Shield-Free Plus MP |
| American Filler Metals Company | AFM 71T-11 |
| Arctec Alloys Limited | ARCTEC FCO 222 |
| COREX | SELF-SHIELD 11 |
| Cronatron Welding Systems | Cronaweld E71T-11 |
| ESAB WELDING & CUTTING PRODUCTS | CORESHIELD 11 |
| EXSA S.A. - División Soldaduras OERLIKON | TUB-71T-11 |
| EXSA S.A.- División Fontargen | FONTARFIL 2111 |
| Hobart Welding Products | FABSHIELD 21B |
| Lincoln Electric Co. | Innershield NR-211MP |
| Lincoln Electric Company (Australia) Pty Ltd | Innershield NR-211-MP |
| Nassau Research Corp. | Polaris |
| Select-Arc, Inc. | Select 701 |
| SOWESCO | Pinnacle Alloys E71T-11 |
| TRIMARK | TM121 |
| Uniweld Products, Inc. | FLUX CORED MIG E71T-11 |
| Washington Alloy Company | 71T-11 |
| Welding Alloys (USA), Inc. | SPEEDARC X71-T11 |

A5.20-95, CARBON STEEL Flux Cored Arc Welding Electrodes

See ANSI/AWS A5.20-95, Specification for Carbon Steel Electrodes for Flux Cored Arc Welding

E71T-11 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------|-----------|
| WELDWIRE COMPANY INC. | WW 71T-11 |

E70T-12M

| SOURCE | PRODUCT |
|---------------------------------|-------------|
| ESAB WELDING & CUTTING PRODUCTS | II 70T-12H4 |
| Kobe Steel, LTD. | DwA-55ESR |

E71T-12

| SOURCE | PRODUCT |
|---------------------------------|------------------------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD II-71 ULTRA |
| Hobart Welding Products | FORMULA XL-550 |
| Kobe Steel, LTD. | FRONTIARC-711 |
| Select-Arc, Inc. | Select 712, Select 714, Select 716 |

E71T-12M

| SOURCE | PRODUCT |
|---------------------------------|---|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD II-70 ULTRA; DUAL SHIELD II-70 T-12 |
| Hobart Welding Products | FORMULA XL-525 |
| Kobe Steel, LTD. | FRONTIARC-711, DwA-55ESR |
| TRIMARK | TM-770, TM-771 |

E71T-13

| SOURCE | PRODUCT |
|----------------------|----------------------|
| Lincoln Electric Co. | Innershield NR-204-H |

E71T-14

| SOURCE | PRODUCT |
|--|--|
| ESAB WELDING & CUTTING PRODUCTS | CS 10 |
| Lincoln Electric Co. | Innershield NR-151, NR-151HS, NR-152, NR-150 |
| Lincoln Electric Company (Australia) Pty Ltd | Innershield NR-152 |

E70T-G

| SOURCE | PRODUCT |
|--|------------|
| EXSA S.A. - División Soldaduras OERLIKON | Fluxofonte |

A5.20-95, CARBON STEEL Flux Cored Arc Welding Electrodes

See ANSI/AWS A5.20-95, Specification for Carbon Steel Electrodes for Flux Cored Arc Welding

EX1T-G

| SOURCE | PRODUCT |
|-----------------------------|-------------------------------|
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilcord 52, Hilcord 53 |
| Welding Alloys (USA), Inc. | SPEEDARC X71-TG (METAL CORED) |

E71T-GS

| SOURCE | PRODUCT |
|--|----------------------------------|
| All-State Welding Products | Shield-Free Plus SP |
| American Filler Metals Company | AFM 71T-GS |
| Crown Alloys Company | Crown E71T-GS |
| Crown Alloys Company | Crown E71T-GS |
| HARRIS WELCO | WELCO E71T-GS |
| Inweld Corporation | INWELD E71T-GS |
| Lincoln Electric Company (Australia) Pty Ltd | Innershield NR-152 |
| Nassau Research Corp. | Tartan |
| National-Standard | TRU-COR NS 71T-GS |
| Select-Arc, Inc. | Select 700 GS |
| SOWESCO | Pinnacle Alloys E71T-GS |
| TRIMARK | TM123 |
| Uniweld Products, Inc. | FLUX CORED MIG E71T-GS |
| Washington Alloy Company | 71T-GS, Gasless Wire |
| Washington Alloy Company | Gasless Wire (71T-GS) |
| Welding Alloys (USA), Inc. | SPEEDARC X71-TGS (SELF-SHIELDED) |
| WELDWIRE COMPANY INC. | WW 71TGS |

EX1T-GS

| SOURCE | PRODUCT |
|---------------------------------|------------------|
| COREX | SELF-SHIELD 11GS |
| ESAB WELDING & CUTTING PRODUCTS | CORESHIELD 15 |
| Hobart Welding Products | FABSHIELD 23 |
| Kobe Steel, LTD. | SSW-2 |

A5.21-80R, COMPOSITE SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.21-80R, Specification for Composite Surfacing Welding Rods and Electrodes

RFe5-A

| SOURCE | PRODUCT |
|----------------------------------|----------------|
| Bohler Thyssen Welding USA, Inc. | UTP A696 |
| Crown Alloys Company | Crown HSS-10 |
| Nassau Research Corp. | Midas Tig |
| Weld Mold Company | 966 |

RFe5-B

| SOURCE | PRODUCT |
|-----------------------|----------------|
| Nassau Research Corp. | Midas Tig |
| Weld Mold Company | 362 |

RFeCr-A1

| SOURCE | PRODUCT |
|--|-----------------|
| EXSA S.A. - División Soldaduras OERLIKON | CITODUR 1000 |
| Inweld Corporation | INWELD RFeCr-A1 |
| Rankin Industries, Inc. | RANITE DG |
| Stoody Company - Thermadyne Industries | Tube Stoodite |

EFe5-A

| SOURCE | PRODUCT |
|--------------------------------|------------------|
| Champion Welding Products | CHAMPION Fe5-A |
| Crown Alloys Company | Crown HSS-20 |
| Industrial Welding Corporation | NIHONWELD NHF-90 |
| Nassau Research Corp. | Midas |
| Weld Mold Company | 966 |

EFe5-B

| SOURCE | PRODUCT |
|----------------------------------|-------------------|
| Bohler Thyssen Welding USA, Inc. | UTP 690 |
| Champion Welding Products | CHAMPION Fe5-B |
| EXSA S.A.- División Fontargen | FON E 715 |
| Industrial Welding Corporation | NIHONWELD NHF-90H |
| Nassau Research Corp. | Midas |
| Washington Alloy Company | Everwear 800 |

A5.21-80R, COMPOSITE SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.21-80R, Specification for Composite Surfacing Welding Rods and Electrodes

EFe5-C

| SOURCE | PRODUCT |
|--|-------------------|
| Champion Welding Products | CHAMPION Fe5-C |
| Crown Alloys Company | Crown WH-20 |
| EXSA S.A. - División Soldaduras OERLIKON | Toolcord |
| Industrial Welding Corporation | NIHONWELD NHF-90S |
| Nassau Research Corp. | Midas |
| Weld Mold Company | 925 |

EFeMn-A

| SOURCE | PRODUCT |
|---|--------------------------------|
| All-State Welding Products | Ni-Matrix |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS SD-Mangan, AS SD-Mangan 165 |
| CARBO-WELD Schweissmaterialien GmbH | CARBODUR MN |
| Champion Welding Products | CHAMPION NiMn |
| Crown Alloys Company | Royal 235 |
| ESAB AB | OK 86.28 |
| ESAB WELDING & CUTTING PRODUCTS | WEAR-ARC NICKEL MAGANESE |
| HARRIS WELCO | WELCO 240 NI-MANG |
| Indura S.A. Industria y Comercio | TIMANG |
| Industrial Welding Corporation | NIHONWELD NHF-HMn |
| Inweld Corporation | INWELD EFeMn-A |
| Nassau Research Corp. | Apollo |
| Oxford Alloys, Inc. | OXFORD EFeMn-A |
| Postle Industries | Postalloy 205 |
| Rankin Industries, Inc. | RANMANG 1 |
| Stoody Company - Thermadyne Industries | Dynamang |
| Washington Alloy Company | Ni-Mang 14 |
| Weld Mold Company | 325 |

EFeMn-B

| SOURCE | PRODUCT |
|--|---------------------|
| CARBO-WELD Schweissmaterialien GmbH | CARBODUR MNCR |
| Electromanufacturas S.A | West Arco Soldomang |
| EXSA S.A. - División Soldaduras OERLIKON | Citomangan |
| EXSA S.A.- División Fontargen | FON E 713 |
| HYUNDAI WELDING PRODUCTS, INC. | S-13MN.B |

A5.21-80R, COMPOSITE SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.21-80R, Specification for Composite Surfacing Welding Rods and Electrodes

EFeMn-B (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------------|---------------------|
| Industrial Welding Corporation | NIHONWELD NHF-HNiMn |
| Nassau Research Corp. | Apollo |
| Washington Alloy Company | Manganese 900 |

EFeCr-A1

| SOURCE | PRODUCT |
|--|--|
| CARBO-WELD Schweissmaterialien GmbH | CARBODUR 59, CARBODUR 68 |
| Champion Welding Products | CHAMPION FeCr-A1 |
| Electromanufacturas S.A | West Rode West Hard 70, West Rode Mill, West-Crome |
| EXSA S.A.- División Fontargen | FON E716 |
| Industrial Welding Corporation | NHF-35CRB |
| Inweld Corporation | INWELD EFeCr-A1 |
| Nassau Research Corp. | Apollo |
| Postle Industries | Postalloy 214 |
| Rankin Industries, Inc. | RANITE 35 |
| Stoody Company - Thermadyne Industries | Coated Tube Stoodite |
| Washington Alloy Company | Chrome-Carb 60 |
| Weld Mold Company | 357 |

RWC-5/8

| SOURCE | PRODUCT |
|--------------------------|--------------------------|
| Washington Alloy Company | Horseshoe Tube Metal 5/8 |

RWC-8/12

| SOURCE | PRODUCT |
|--------------------------------|-----------------------------------|
| American Filler Metals Company | AFM Horseshoe |
| Crown Alloys Company | Royal 118-T |
| Oxford Alloys, Inc. | OXFORD Acetylene Tube Borium 8/12 |
| Washington Alloy Company | Horseshoe Tube Metal 8/12 |

RWC-12/20

| SOURCE | PRODUCT |
|--------------------------------|----------------------------|
| American Filler Metals Company | AFM 1001-12/20 |
| Washington Alloy Company | Acetylene Tube Metal 12/20 |

A5.21-80R, COMPOSITE SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.21-80R, Specification for Composite Surfacing Welding Rods and Electrodes

| RWC-20/30 | |
|--------------------------------|------------------------------------|
| SOURCE | PRODUCT |
| American Filler Metals Company | AFM 1001-20/30 |
| Oxford Alloys, Inc. | OXFORD Acetylene Tube Borium 20/30 |
| Washington Alloy Company | Acetylene Tube Metal 20/30 |
| Weld Mold Company | WC Bare 20/30 |

| RWC-30/40 | |
|--------------------------------|------------------------------------|
| SOURCE | PRODUCT |
| American Filler Metals Company | AFM 1001-30/40, AFM 30 Down |
| Crown Alloys Company | Royal 117-T |
| Oxford Alloys, Inc. | OXFORD Acetylene Tube Borium 30/40 |
| Washington Alloy Company | Acetylene Tube Metal 30/40 |
| Weld Mold Company | WC Bare 30/40 |

| RWC-30 | |
|-------------------------------------|-------------------------|
| SOURCE | PRODUCT |
| CARBO-WELD Schweissmaterialien GmbH | CARBO DURIT A |
| Washington Alloy Company | Acetylene Tube Metal 30 |

| RWC-40 | |
|-------------------------------------|-------------------------|
| SOURCE | PRODUCT |
| CARBO-WELD Schweissmaterialien GmbH | CARBO DURIT E |
| Washington Alloy Company | Acetylene Tube Metal 40 |

| RWC-40/120 | |
|--------------------------------|-----------------------------|
| SOURCE | PRODUCT |
| American Filler Metals Company | AFM 1002 40/120 |
| Washington Alloy Company | Acetylene Tube Metal 40/120 |
| Weld Mold Company | WC Bare 40/120 |

| EWC-12/30 | |
|--------------------------|-------------------------------|
| SOURCE | PRODUCT |
| Washington Alloy Company | AC/DC Coated Tube Metal 12/30 |
| Weld Mold Company | WC Coated 12/30 |

| EWC-20/30 | |
|--------------------------------|-----------------|
| SOURCE | PRODUCT |
| American Filler Metals Company | AFM 100/C-20/30 |

A5.21-80R, COMPOSITE SURFACING Electrodes and Welding Rods

See ANSI/AWS A5.21-80R, Specification for Composite Surfacing Welding Rods and Electrodes

EWC-20/30 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|---------------------------------------|
| Oxford Alloys, Inc. | OXFORD AC/DC Coated Tube Borium 20/30 |
| Washington Alloy Company | AC/DC Coated Tube Metal 20/30 |
| Weld Mold Company | WC Coated 20/30 |

EWC-30/40

| SOURCE | PRODUCT |
|--------------------------------|---------------------------------------|
| American Filler Metals Company | AFM 100/c-30/40 |
| Oxford Alloys, Inc. | OXFORD AC/DC Coated Tube Borium 30/40 |
| Washington Alloy Company | AC/DC Coated Tube Metal 30/40 |
| Weld Mold Company | WC Coated 30/40 |

EWC-40

| SOURCE | PRODUCT |
|--------------------------------|----------------------------|
| American Filler Metals Company | AFM 40C |
| Washington Alloy Company | AC/DC Coated Tube Metal 40 |
| Weld Mold Company | WC Coated 40 |

EWC-40/120

| SOURCE | PRODUCT |
|--------------------------|--------------------------------|
| Washington Alloy Company | AC/DC Coated Tube Metal 40/120 |
| Weld Mold Company | WC Coated 40/120 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and
 Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E307T0-1

| SOURCE | PRODUCT |
|---------------------------------|--|
| American Welding Alloys | AWA 307 |
| COR-MET INC. | COR-STAIN 307 FC-G, COR-STAIN 307 FC-O |
| ESAB AB | OK Tubrod 14.36 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilcord 82 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 307T |
| Washington Alloy Company | 307T0-1 |
| Welding Alloys (USA), Inc. | TETRA S 307-G |
| WELDWIRE COMPANY INC. | WW 307T0-1 |

E307T1-1

| SOURCE | PRODUCT |
|---------------------------------|----------------|
| Washington Alloy Company | 307T1-1 |
| WELDWIRE COMPANY INC. | WW 307T1-1 |

E308T0-1

| SOURCE | PRODUCT |
|---------------------------------------|--------------------------|
| American Filler Metals Company | AFM 308T0-1 |
| American Welding Alloys | AWA 308 |
| Avesta Welding Products Inc. | AVESTA 308T0-1 |
| COR-MET INC. | COR-STAIN 308 FC-G |
| Kobe Steel, LTD. | DW-308 |
| Lincoln Electric Co. | Blue Max FC-308L |
| Midalloy, Inc. | Mastercor E308T0-1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 308T |
| NOF Corporation | GFW308 |
| Oxford Alloys, Inc. | OXFORD E308T0-1 |
| SOWESCO | Pinnacle Alloys E308T0-1 |
| Washington Alloy Company | 308T0-1 |
| Welding Alloys (USA), Inc. | TETRA S 308-G |
| WELDWIRE COMPANY INC. | WW 308T0-1 |

E308T0-4

| SOURCE | PRODUCT |
|----------------------|------------------|
| Euroweld, Ltd. | E308T0-4 |
| Kobe Steel, LTD. | DW-308 |
| Lincoln Electric Co. | Blue Max FC-308L |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E308T0-4 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------|-----------------|
| Nippon Welding Rod Co., Ltd. | WEL FCW 308T |
| Oxford Alloys, Inc. | OXFORD E308T0-4 |
| Washington Alloy Company | 308T0-4 |
| Welding Alloys (USA), Inc. | TETRA S 308-G |
| WELDWIRE COMPANY INC. | WW 308T0-4 |

E308T1-1

| SOURCE | PRODUCT |
|------------------------------|----------------------------|
| Avesta Welding Products Inc. | AVESTA 308T1-1 |
| Kobe Steel, LTD. | DW-308P |
| McKay Welding Products | IN-FLUX 308-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 308T, WEL FCW A308 |
| Oxford Alloys, Inc. | OXFORD E308T1-1 |
| Washington Alloy Company | 308T1-1 |
| WELDWIRE COMPANY INC. | WW 308T1-1 |

E308T1-4

| SOURCE | PRODUCT |
|------------------------------|----------------------------|
| Kobe Steel, LTD. | DW-308P |
| Lincoln Electric Co. | Blue Max FCP-308L |
| McKay Welding Products | IN-FLUX 308-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 308T, WEL FCW A308 |
| Oxford Alloys, Inc. | OXFORD E308T1-4 |
| Washington Alloy Company | 308T1-4 |
| Welding Alloys (USA), Inc. | TETRA V 308-G |
| WELDWIRE COMPANY INC. | WW 308T1-4 |

E308LT0-1

| SOURCE | PRODUCT |
|----------------------------------|----------------------|
| All-State Welding Products | All-Shield Xtra 308L |
| All-State Welding Products | STERLING 308L |
| American Filler Metals Company | AFM 308LT0-1 |
| American Welding Alloys | AWA 308L |
| Avesta Welding Products Inc. | AVESTA 308LT0-1 |
| Bohler Thyssen Welding USA, Inc. | Bohler EAS 2-FD |
| COR-MET INC. | COR-STAIN 308L FC-G |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E308LT0-1 (Continued from previous page)

| SOURCE | PRODUCT |
|--|--------------------------------|
| Cronatron Welding Systems | Cronaweld E308LT |
| Crown Alloys Company | Crown E308LT-1 FL |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT X-tra 308L |
| Gulf Wire Corporation | E308LT0-1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilcord 81 |
| Inweld Corporation | INWELD 308LT-1 or 308LT-1AP |
| Kobe Steel, LTD. | DW-308L, DW-308EL, DW-308LT |
| Lincoln Electric Co. | Blue Max FC-308L |
| Messer - MG Systems & Welding Inc. | SS308LT-1 |
| Midalloy, Inc. | Mastercor E308LT0-1, E308LT1-1 |
| Nassau Research Corp. | 308LT1-FC |
| Nippon Welding Rod Co., Ltd. | WEL FCW 308LT, 308LAT, A308L |
| NOF Corporation | GFW308L, 308L3 |
| Oxford Alloys, Inc. | OXFORD E308LT0-1 |
| Sodel Ltd | Wirogas 3080GH |
| SOWESCO | Pinnacle Alloys E308LT0-1 |
| Stoody Company - Thermadyne Industries | 308L T-1 FH |
| Techalloy Company, Inc. | Techalloy 308LFC |
| Washington Alloy Company | 308LT0-1 |
| Welding Alloys (USA), Inc. | TETRA S 308L-G |
| WELDWIRE COMPANY INC. | WW 308LT0-1 |

E308LT0-4

| SOURCE | PRODUCT |
|----------------------------------|-----------------------------|
| All-State Welding Products | All-Shield Xtra 308L |
| Bohler Thyssen Welding USA, Inc. | Bohler EAS 2-FD |
| ELGA AB | CROMACORE DW 308L |
| ESAB AB | OK Tubrod 14.30 |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT X-tra 308L |
| Euroweld, Ltd. | E308LT0-4 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 81 |
| Hobart Welding Products | GSF 308L-T1 |
| Kobe Steel, LTD. | DW-308L, DW-308EL, DW-308LT |
| Lincoln Electric Co. | Blue Max FC-308L |
| McKay Welding Products | STERLING 308L |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E308LT0-4 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------|------------------|
| Nippon Welding Rod Co., Ltd. | WEL FCW 308LT |
| Oxford Alloys, Inc. | OXFORD E308LT0-4 |
| Washington Alloy Company | 308LT0-4 |
| Welding Alloys (USA), Inc. | TETRA S 308L-G |
| WELDWIRE COMPANY INC. | WW 308LT0-4 |

E308LT1-1

| SOURCE | PRODUCT |
|--|------------------------------|
| All-State Welding Products | All-Shield 308L |
| American Filler Metals Company | AFM 308LT1-1 |
| Arctec Alloys Limited | ARCTEC FCS 308L |
| Avesta Welding Products Inc. | AVESTA 308LT1-1 |
| Crown Alloys Company | Crown E308LT-1 FC |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 308L |
| EXSA S.A.- División Fontargen | FONTARFIL 2120 |
| HARRIS WELCO | WELCO E308LT1-1 |
| HYUNDAI WELDING PRODUCTS, INC. | SW-308L CORED |
| Kobe Steel, LTD. | DW-308LP |
| McKay Welding Products | IN-FLUX 308L-T1 |
| National-Standard | TRU-COR NS 308LT1-1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 308LT, WEL FCW A308L |
| NOF Corporation | GFW308LAP |
| Oxford Alloys, Inc. | OXFORD E308LT1-1 |
| Sodel Ltd | Wirogas 3080G |
| Stoody Company - Thermadyne Industries | 308L T-1 AP |
| Washington Alloy Company | 308LT1-1 |
| WELDWIRE COMPANY INC. | WW 308LT1-1 |

E308LT1-4

| SOURCE | PRODUCT |
|---------------------------------|--------------------------------------|
| All-State Welding Products | All-Shield 308L |
| ELGA AB | CROMACORE DW 308LP |
| ESAB AB | OK Tubrod 14.20 |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 308L, CRYO-SHIELD 308L |
| Euroweld, Ltd. | E308LT1-4 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E308LT1-4 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------|------------------------------|
| Kobe Steel, LTD. | DW-308LP |
| Lincoln Electric Co. | Blue Max FCP-308L |
| McKay Welding Products | IN-FLUX 308L-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 308LT, WEL FCW A308L |
| Oxford Alloys, Inc. | OXFORD E308LT1-4 |
| Washington Alloy Company | 308LT1-4 |
| Welding Alloys (USA), Inc. | TETRA V 308L-G |
| WELDWIRE COMPANY INC. | WW 308LT1-4 |

E308HT0-1

| SOURCE | PRODUCT |
|--------------------------------|---------------------------|
| American Filler Metals Company | AFM 308HT0-1 |
| American Welding Alloys | AWA 308H |
| Avesta Welding Products Inc. | AVESTA 308HT0-1 |
| COR-MET INC. | COR-STAIN 308HT0-1 |
| Kobe Steel, LTD. | DW-308H |
| Nippon Welding Rod Co., Ltd. | WEL FCW 308HTS |
| Oxford Alloys, Inc. | OXFORD E308HT0-1 |
| SOWESCO | Pinnacle Alloys E308HT0-1 |
| Washington Alloy Company | 308HT0-1 |
| Welding Alloys (USA), Inc. | TETRA S 308H-G |
| WELDWIRE COMPANY INC. | WW 308HT0-1 |

E308HT0-4

| SOURCE | PRODUCT |
|------------------------------|------------------|
| Euroweld, Ltd. | E308HT0-4-5FN |
| Kobe Steel, LTD. | DW-308H |
| Nippon Welding Rod Co., Ltd. | WEL FCW 308HTS |
| NOF Corporation | GFW308F |
| Oxford Alloys, Inc. | OXFORD E308HT0-4 |
| Washington Alloy Company | 308HT0-4 |
| Welding Alloys (USA), Inc. | TETRA S 308H-G |
| WELDWIRE COMPANY INC. | WW 308HT0-4 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E308HT1-1

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 308H |
| McKay Welding Products | IN-FLUX 308-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 308HTS |
| Oxford Alloys, Inc. | OXFORD E308HT1-1 |
| Washington Alloy Company | 308HT1-1 |
| WELDWIRE COMPANY INC. | WW 308HT1-1 |

E308HT1-4

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 308H |
| Euroweld, Ltd. | E308HT1-4 |
| McKay Welding Products | IN-FLUX 308-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 308HTS |
| Oxford Alloys, Inc. | OXFORD E308HT1-4 |
| Washington Alloy Company | 308HT1-4 |
| Welding Alloys (USA), Inc. | TETRA V 308H-G |
| WELDWIRE COMPANY INC. | WW 308HT1-4 |

E308MoT0-1

| SOURCE | PRODUCT |
|----------------------------|----------------------|
| American Welding Alloys | AWA 308Mo |
| COR-MET INC. | COR-STAIN 308Mo FC-G |
| Welding Alloys (USA), Inc. | TETRA S 308Mo-G |

E308MoT1-1

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 308Mo |

E308MoT1-4

| SOURCE | PRODUCT |
|----------------------------|-----------------|
| Euroweld, Ltd. | E308 Mo T1-4 |
| Welding Alloys (USA), Inc. | TETRA V 308Mo-G |

E308LMoT0-1

| SOURCE | PRODUCT |
|-------------------------|------------|
| American Welding Alloys | AWA 308LMo |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E308LMoT0-1 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|-----------------------|
| COR-MET INC. | COR-STAIN 308LMo FC-G |
| Washington Alloy Company | 308LMoT0-1 |
| Weld Mold Company | 308LMoT-1 |
| Welding Alloys (USA), Inc. | TETRA S 308MoL-G |
| WELDWIRE COMPANY INC. | WW 308LMoT0-1 |

E308LMoT1-1

| SOURCE | PRODUCT |
|--------------------------|---------------|
| Washington Alloy Company | 308LMoT1-1 |
| WELDWIRE COMPANY INC. | WW 308LMoT1-1 |

E309T0-1

| SOURCE | PRODUCT |
|--------------------------------|--------------------------|
| American Filler Metals Company | AFM 309T0-1 |
| American Welding Alloys | AWA 309 |
| Avesta Welding Products Inc. | AVESTA 309T0-1 |
| COR-MET INC. | COR-STAIN 309 FC-G |
| Lincoln Electric Co. | Blue Max FC-309L |
| Midalloy, Inc. | Mastercor E309T0-1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309T |
| NOF Corporation | GFW309 |
| Oxford Alloys, Inc. | OXFORD E309T0-1 |
| SOWESCO | Pinnacle Alloys E309T0-1 |
| Washington Alloy Company | 309T0-1 |
| Welding Alloys (USA), Inc. | TETRA S 309-G |
| WELDWIRE COMPANY INC. | WW 309T0-1 |

E309T0-4

| SOURCE | PRODUCT |
|------------------------------|------------------|
| Lincoln Electric Co. | Blue Max FC-309L |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309T |
| Washington Alloy Company | 309T0-4 |
| Welding Alloys (USA), Inc. | TETRA S 309-G |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E309T1-1

| SOURCE | PRODUCT |
|------------------------------|----------------------------|
| Nippon Welding Rod Co., Ltd. | WEL FCW 309T, WEL FCW A309 |
| Oxford Alloys, Inc. | OXFORD E309T1-1 |
| Washington Alloy Company | 309T1-1 |
| WELDWIRE COMPANY INC. | WW 309T1-1 |

E309T1-4

| SOURCE | PRODUCT |
|------------------------------|----------------------------|
| Lincoln Electric Co. | Blue Max FCP-309L |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309T, WEL FCW A309 |
| Oxford Alloys, Inc. | OXFORD E309T1-4 |
| Washington Alloy Company | 309T1-4 |
| Welding Alloys (USA), Inc. | TETRA V 309-G |

E309LCbT0-1

| SOURCE | PRODUCT |
|------------------------------|-----------------------|
| American Welding Alloys | AWA 309LCb |
| COR-MET INC. | COR-STAIN 309LCb FC-G |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309NbL |
| Oxford Alloys, Inc. | OXFORD E309LCbT0-1 |
| Washington Alloy Company | 309LCbT0-1 |

E309LCbT0-4

| SOURCE | PRODUCT |
|--------------------------|------------|
| Washington Alloy Company | 309LCbT0-4 |

E309LCbT1-1

| SOURCE | PRODUCT |
|--------------------------|------------|
| Washington Alloy Company | 309LCbT1-1 |

E309LCbT1-4

| SOURCE | PRODUCT |
|--------------------------|------------|
| Washington Alloy Company | 309LCbT1-4 |

E309LT0-1

| SOURCE | PRODUCT |
|--------------------------------|----------------------|
| All-State Welding Products | All-Shield Xtra 309L |
| American Filler Metals Company | AFM 309LT0-1 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E309LT0-1 (Continued from previous page)

| SOURCE | PRODUCT |
|---|--------------------------------|
| American Welding Alloys | AWA 309L |
| Avesta Welding Products Inc. | AVESTA 309LT0-1 |
| Bohler Thyssen Welding USA, Inc. | Bohler CN 23/12-FD |
| COR-MET INC. | COR-STAIN 309L FC-G |
| Crown Alloys Company | Crown E309LT-1 FL |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT X-tra 309L |
| Gulf Wire Corporation | E309LT0-1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 85 |
| HYUNDAI WELDING PRODUCTS, INC. | SW-309LNS CORED |
| Inweld Corporation | INWELD 309LT-1 or 309LT-1AP |
| Kobe Steel, LTD. | DW-309L |
| Lincoln Electric Co. | Blue Max FC-309L |
| McKay Welding Products | STERLING 309L |
| Messer - MG Systems & Welding Inc. | SS309LT-1 |
| Midalloy, Inc. | Mastercor E309LT0-1, E309LT1-1 |
| Nassau Research Corp. | 309LT1-FC |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309LT, A 309L |
| NOF Corporation | GFW309L, 309L3 |
| Oxford Alloys, Inc. | OXFORD E309LT0-1 |
| Sodel Ltd | Wirogas 3090GH |
| SOWESCO | Pinnacle Alloys E309LT0-1 |
| Stoody Company - Thermadyne Industries | 309L T-1 FH |
| Techalloy Company, Inc. | Techalloy 309LFC |
| Washington Alloy Company | 309LT0-1 |
| Weld Mold Company | 309LT-1 |
| Welding Alloys (USA), Inc. | TETRA S 309L-G |
| WELDWIRE COMPANY INC | WW 309LT0-1 |

E309LT0-4

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| All-State Welding Products | All-Shield Xtra 309L |
| Bohler Thyssen Welding USA, Inc. | Bohler CN 23/12-FD |
| ELGA AB | CROMACORE DW 309L |
| ESAB AB | OK Tubrod 14.32 |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT X-tra 309L |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E309LT0-4 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------|------------------|
| Euroweld, Ltd. | E309LT0-4 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 85 |
| Hobart Welding Products | GSF 309L-T1 |
| Kobe Steel, LTD. | DW-309L |
| Lincoln Electric Co. | Blue Max FC-309L |
| McKay Welding Products | STERLING 309L |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309LT |
| Oxford Alloys, Inc. | OXFORD E309LT0-4 |
| Washington Alloy Company | 309LT0-4 |
| Welding Alloys (USA), Inc. | TETRA S 309L-G |
| WELDWIRE COMPANY INC. | WW 309LT0-4 |

E309LT1-1

| SOURCE | PRODUCT |
|--|------------------------------|
| All-State Welding Products | All-Shield 309L |
| American Filler Metals Company | AFM 309LT1-1 |
| Arctec Alloys Limited | ARCTEC FCS 309L |
| Avesta Welding Products Inc. | AVESTA 309LT1-1 |
| Crown Alloys Company | Crown E309LT-1 FC |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 309L |
| Euroweld, Ltd. | E309LT1-1 |
| EXSA S.A.- División Fontargen | FONTARFIL 2132 |
| HARRIS WELCO | WELCO E309LT1-1 |
| HYUNDAI WELDING PRODUCTS, INC. | SW-309L CORED |
| Kobe Steel, LTD. | DW-309LP |
| McKay Welding Products | IN-FLUX 309L-T1 |
| National-Standard | TRU-COR NS 309LT1-1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309LT, WEL FCW A309L |
| NOF Corporation | GFW309LAP |
| Oxford Alloys, Inc. | OXFORD E309LT1-1 |
| Sodel Ltd | Wirogas 3090G |
| Stoody Company - Thermadyne Industries | 309L T-1 AP |
| Washington Alloy Company | 309LT1-1 |
| WELDWIRE COMPANY INC. | WW 309LT1-1 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E309LT1-4

| SOURCE | PRODUCT |
|---------------------------------|------------------------------|
| All-State Welding Products | All-Shield 309L |
| ELGA AB | CROMACORE DW 309LP |
| ESAB AB | OK Tubrod 14.22 |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 309L |
| Euroweld, Ltd. | E309LT1-4 |
| Kobe Steel, LTD. | DW-309LP |
| Lincoln Electric Co. | Blue Max FCP-309L |
| McKay Welding Products | IN-FLUX 309L-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309LT, WEL FCW A309L |
| Oxford Alloys, Inc. | OXFORD E309LT1-4 |
| Washington Alloy Company | 309LT1-4 |
| Welding Alloys (USA), Inc. | TETRA V 309L-G |
| WELDWIRE COMPANY INC. | WW 309LT1-4 |

E309MoT0-1

| SOURCE | PRODUCT |
|------------------------------|----------------------|
| American Welding Alloys | AWA 309Mo |
| COR-MET INC. | COR-STAIN 309Mo FC-G |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309MoT |
| NOF Corporation | GFW309Mo |
| Washington Alloy Company | 309MoT0-1 |
| Welding Alloys (USA), Inc. | TETRA S 309Mo-G |
| WELDWIRE COMPANY INC. | WW 309MoT0-1 |

E309MoT0-4

| SOURCE | PRODUCT |
|------------------------------|-----------------|
| Nippon Welding Rod Co., Ltd. | WEL FCW 309MoT |
| Washington Alloy Company | 309MoT0-4 |
| Welding Alloys (USA), Inc. | TETRA S 309Mo-G |

E309MoT1-1

| SOURCE | PRODUCT |
|------------------------------|--------------------------------|
| Nippon Welding Rod Co., Ltd. | WEL FCW 309MoT, WEL FCW A309Mo |
| Washington Alloy Company | 309MoT1-1 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E309MoT1-4

| SOURCE | PRODUCT |
|---------------------------------|--------------------------------|
| Nippon Welding Rod Co., Ltd. | WEL FCW 309MoT, WEL FCW A309Mo |
| Washington Alloy Company | 309MoT1-4 |
| Welding Alloys (USA), Inc. | TETRA V 309Mo-G |

E309LMoT0-1

| SOURCE | PRODUCT |
|-------------------------------------|-----------------------------|
| American Welding Alloys | AWA 309LMo |
| Avesta Welding Products Inc. | AVESTA 309LMoT0-1 |
| COR-MET INC. | COR-STAIN 309LMo FC-G |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD BRIGHT X-tra 309LMo |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilcord 85Mo |
| Kobe Steel, LTD. | DW-309LMo |
| Midalloy, Inc. | Mastercor E309LMoT-0-1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309MoLT, A309MoL |
| NOF Corporation | GFW309MoL |
| Oxford Alloys, Inc. | OXFORD E309LMoT0-1 |
| SOWESCO | Pinnacle Alloys E309LMoT0-1 |
| Washington Alloy Company | 309LMoT0-1 |
| Weld Mold Company | 309LMT-1 |
| Welding Alloys (USA), Inc. | TETRA S 309MoL-G |
| WELDWIRE COMPANY INC. | WW 309LMoT0-1 |

E309LMoT0-4

| SOURCE | PRODUCT |
|---------------------------------|----------------------------------|
| ELGA AB | CROMACORE 309MoL |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD BRIGHT X-tra 309LMo |
| Euroweld, Ltd. | E309LMoT0-4 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 85Mo |
| Kobe Steel, LTD. | DW-309LMo |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309MoLT, WEL FCW A309MoL |
| Oxford Alloys, Inc. | OXFORD E309LMoT0-4 |
| Washington Alloy Company | 309LMoT0-4 |
| Welding Alloys (USA), Inc. | TETRA S 309MoL-G |
| WELDWIRE COMPANY INC. | WW 309LMoT0-4 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E309LMoT1-1

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 309LMo |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309MoLT |
| NOF Corporation | GFW309MoLAP |
| Sodel Ltd | WIROGAS 3090 G Mo |
| Washington Alloy Company | 309LMoT1-1 |
| WELDWIRE COMPANY INC. | WW 309LMoT1-1 |

E309LMoT1-4

| SOURCE | PRODUCT |
|---------------------------------|----------------------------------|
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 309LMo |
| McKay Welding Products | IN-FLUX 309LMo-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 309MoLT, WEL FCW A309MoL |
| Oxford Alloys, Inc. | OXFORD E309LMoT1-4 |
| Washington Alloy Company | 309LMoT1-4 |
| Welding Alloys (USA), Inc. | TETRA V 309MoL-G |

E310T0-1

| SOURCE | PRODUCT |
|-------------------------------------|------------------------|
| American Welding Alloys | AWA 310 |
| Avesta Welding Products Inc. | AVESTA 310T0-1 |
| COR-MET INC. | COR-STAIN 310 FC-O |
| Inweld Corporation | INWELD 310LT-1 |
| Midalloy, Inc. | Mastercor E310T-0-1 |
| Oxford Alloys, Inc. | OXFORD E310T0-1 |
| Washington Alloy Company | 310T0-1 |
| Welding Alloys (USA), Inc. | TETRA S 310-G |

E310T0-4

| SOURCE | PRODUCT |
|---------------------------------|----------------|
| Nippon Welding Rod Co., Ltd. | WEL FCW 310 |
| NOF Corporation | GFW310 |
| Washington Alloy Company | 310T0-4 |
| Welding Alloys (USA), Inc. | TETRA S 310-G |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E310T1-1

| SOURCE | PRODUCT |
|--------------------------------|-----------------|
| American Filler Metals Company | AFM 310T1-1 |
| Oxford Alloys, Inc. | OXFORD E310T1-1 |
| Washington Alloy Company | 310T1-1 |
| WELDWIRE COMPANY INC. | WW 310T1-1 |

E310T1-4

| SOURCE | PRODUCT |
|------------------------------|---------------|
| Nippon Welding Rod Co., Ltd. | WEL FCW 310 |
| Washington Alloy Company | 310T1-4 |
| Welding Alloys (USA), Inc. | TETRA V 310-G |

E312T0-1

| SOURCE | PRODUCT |
|-------------------------------|--------------------|
| American Welding Alloys | AWA 312 |
| Avesta Welding Products Inc. | AVESTA 312T0-1 |
| COR-MET INC. | COR-STAIN 312 FC-G |
| EXSA S.A.- División Fontargen | FONTARFIL 2106 |
| Kobe Steel, LTD. | DW-312 |
| NOF Corporation | GFW312 |
| Oxford Alloys, Inc. | OXFORD E312T0-1 |
| Washington Alloy Company | 312T0-1 |
| Weld Mold Company | 312T-1 |
| Welding Alloys (USA), Inc. | TETRA S 312L-G |
| WELDWIRE COMPANY INC. | WW 312T0-1 |

E312T0-4

| SOURCE | PRODUCT |
|----------------------------|-----------------|
| Kobe Steel, LTD. | DW-312 |
| Oxford Alloys, Inc. | OXFORD E312T0-4 |
| Washington Alloy Company | 312T0-4 |
| Welding Alloys (USA), Inc. | TETRA S 312L-G |

E312T1-1

| SOURCE | PRODUCT |
|--------------------------------|-----------------|
| American Filler Metals Company | AFM 312T1-1 |
| Arctec Alloys Limited | ARCTEC FCS 312L |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E312T1-1 (Continued from previous page)

| SOURCE | PRODUCT |
|-------------------------------|-----------------|
| EXSA S.A.- División Fontargen | FONTARFIL 2106 |
| Oxford Alloys, Inc. | OXFORD E312T1-1 |
| Washington Alloy Company | 312T1-1 |
| WELDWIRE COMPANY INC. | WW 312T1-1 |

E312T1-4

| SOURCE | PRODUCT |
|---------------------------------|-------------------|
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 312 |
| Oxford Alloys, Inc. | OXFORD E312T1-4 |
| Washington Alloy Company | 312T1-4 |
| Welding Alloys (USA), Inc. | TETRA V 312L-G |

E316T0-1

| SOURCE | PRODUCT |
|--------------------------------|--------------------------|
| American Filler Metals Company | AFM 316T0-1 |
| American Welding Alloys | AWA 316 |
| Avesta Welding Products Inc. | AVESTA 316T0-1 |
| COR-MET INC. | COR-STAIN 316 FC-G |
| Lincoln Electric Co. | Blue Max FC-316L |
| Midalloy, Inc. | Mastercor E316T0-1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 316T |
| NOF Corporation | GFW316 |
| Oxford Alloys, Inc. | OXFORD E316T0-1 |
| SOWESCO | Pinnacle Alloys E316T0-1 |
| Washington Alloy Company | 316T0-1 |
| Welding Alloys (USA), Inc. | TETRA S 316-G |
| WELDWIRE COMPANY INC. | WW 316T0-1 |

E316T0-4

| SOURCE | PRODUCT |
|------------------------------|------------------|
| Lincoln Electric Co. | Blue Max FC-316L |
| Nippon Welding Rod Co., Ltd. | WEL FCW 316T |
| Washington Alloy Company | 316T0-4 |
| Welding Alloys (USA), Inc. | TETRA S 316-G |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E316T1-1

| SOURCE | PRODUCT |
|---------------------------------|----------------------------|
| Nippon Welding Rod Co., Ltd. | WEL FCW 316T, WEL FCW A316 |
| Washington Alloy Company | 316T1-1 |
| WELDWIRE COMPANY INC. | WW 316T1-1 |

E316T1-4

| SOURCE | PRODUCT |
|---------------------------------|----------------------------|
| Euroweld, Ltd. | E316 T1-4 |
| Lincoln Electric Co. | Blue Max FCP-316L |
| Nippon Welding Rod Co., Ltd. | WEL FCW 316T, WEL FCW A316 |
| Washington Alloy Company | 316T1-4 |
| Welding Alloys (USA), Inc. | TETRA V 316-G |

E316LT0-1

| SOURCE | PRODUCT |
|---------------------------------------|--------------------------------|
| All-State Welding Products | All-Shield Xtra 316L |
| American Filler Metals Company | AFM 316LT0-1 |
| American Welding Alloys | AWA 316L |
| Avesta Welding Products Inc. | AVESTA 316LT0-1 |
| Bohler Thyssen Welding USA, Inc. | Bohler EAS 4M-FD |
| COR-MET INC. | COR-STAIN 316L FC-G |
| Crown Alloys Company | Crown E316LT-1 FL |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT X-Tra 316L |
| Gulf Wire Corporation | E316LT0-1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilcord 83 LT-1 |
| Inweld Corporation | INWELD 316LT-1 or 316LT-1AP |
| Kobe Steel, LTD. | DW-316L |
| Lincoln Electric Co. | Blue Max FC-316L |
| McKay Welding Products | STERLING 316L |
| Messer - MG Systems & Welding Inc. | SS316LT-1 |
| Midalloy, Inc. | Mastercor E316LT0-1, E316LT1-1 |
| Nassau Research Corp. | 316LT1-FC |
| National-Standard | TRU-COR NS 316LT0-1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 316LT, A316L |
| NOF Corporation | GFW316L, 316L3 |
| Oxford Alloys, Inc. | OXFORD E316LT0-1 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E316LT0-1 (Continued from previous page)

| SOURCE | PRODUCT |
|---|---------------------------|
| Sodel Ltd | Wirogas 3160GH |
| SOWESCO | Pinnacle Alloys E316LT0-1 |
| Stoody Company - Thermadyne Industries | 316L T-1 FH |
| Techalloy Company, Inc. | Techalloy 316LFC |
| Washington Alloy Company | 316LT0-1 |
| Welding Alloys (USA), Inc. | TETRA S 316L-G |
| WELDWIRE COMPANY INC. | WW 316LT0-1 |

E316LT0-4

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| All-State Welding Products | All-Shield Xtra 316L |
| Bohler Thyssen Welding USA, Inc. | Bohler EAS4M-FD |
| ELGA AB | CROMACORE DW 316L |
| ESAB AB | OK Tubrod 14.31 |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT X-tra 316L |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 83 |
| Hobart Welding Products | GSF 316L-T1 |
| Kobe Steel, LTD. | DW-316L |
| Lincoln Electric Co. | Blue Max FC-316L |
| McKay Welding Products | STERLING 316L |
| Nippon Welding Rod Co., Ltd. | WEL FCW 316LT |
| Oxford Alloys, Inc. | OXFORD E316LT0-4 |
| Washington Alloy Company | 316LT0-4 |
| Welding Alloys (USA), Inc. | TETRA S 316L-G |
| WELDWIRE COMPANY INC. | WW 316LT0-4 |

E316LT1-1

| SOURCE | PRODUCT |
|---------------------------------------|------------------------|
| All-State Welding Products | All-Shield 316L |
| American Filler Metals Company | AFM 316LT1-1 |
| Arctec Alloys Limited | ARCTEC FCS 316L |
| Avesta Welding Products Inc. | AVESTA 316LT1-1 |
| Crown Alloys Company | Crown E316LT-1 FC |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 316L |
| EXSA S.A.- División Fontargen | FONTARFIL 2121 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E316LT1-1 (Continued from previous page)

| SOURCE | PRODUCT |
|--|------------------------------|
| HARRIS WELCO | WELCO E316LT1-1 |
| HYUNDAI WELDING PRODUCTS, INC. | SW-316L CORED |
| Kobe Steel, LTD. | DW-316LP |
| McKay Welding Products | IN-FLUX 316L-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 316LT, WEL FCW A316L |
| NOF Corporation | GFW316LAP |
| Oxford Alloys, Inc. | OXFORD E316LT1-1 |
| Sodel Ltd | Wirogas 3160G |
| Stoody Company - Thermadyne Industries | 316L T-1 AP |
| Washington Alloy Company | 316LT1-1 |
| WELDWIRE COMPANY INC. | WW 316LT1-1 |

E316LT1-4

| SOURCE | PRODUCT |
|---------------------------------|------------------------------|
| All-State Welding Products | All-Shield 316L |
| ELGA AB | CROMACORE DW 316LP |
| ESAB AB | OK Tubrod 14.21 |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 316L |
| Kobe Steel, LTD. | DW-316LP |
| Lincoln Electric Co. | Blue Max FCP-316L |
| McKay Welding Products | IN-FLUX 316L-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 316LT, WEL FCW A316L |
| Oxford Alloys, Inc. | OXFORD E316LT1-4 |
| Washington Alloy Company | 316LT1-4 |
| Welding Alloys (USA), Inc. | TETRA V 316L-G |
| WELDWIRE COMPANY INC. | WW 316LT1-4 |

E317LT0-1

| SOURCE | PRODUCT |
|---------------------------------|-----------------------------|
| American Welding Alloys | AWA 317L |
| Avesta Welding Products Inc. | AVESTA 317LT0-1 |
| COR-MET INC. | COR-STAIN 317L FC-G |
| ESAB AB | OK Tubrod 14.35 |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT X-tra 317L |
| Inweld Corporation | INWELD 317LT-1 or 317LT-1AP |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E317LT0-1 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------------|---------------------|
| Kobe Steel, LTD. | DW-317L |
| Messer - MG Systems & Welding Inc. | SS317LT-1 |
| Midalloy, Inc. | Mastercor E317LT0-1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 317LT |
| NOF Corporation | GFW317L |
| Oxford Alloys, Inc. | OXFORD E317LT0-1 |
| Washington Alloy Company | 317LT0-1 |
| Weld Mold Company | 317LT-1 |
| Welding Alloys (USA), Inc. | TETRA S 317L-G |
| WELDWIRE COMPANY INC. | WW 317LT0-1 |

E317LT0-4

| SOURCE | PRODUCT |
|---------------------------------|--------------------------|
| ELGA AB | CROMACORE DW 317L |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT X-tra 317L |
| Kobe Steel, LTD. | DW-317L |
| McKay Welding Products | STERLING 317L |
| Nippon Welding Rod Co., Ltd. | WEL FCW 317LT |
| Oxford Alloys, Inc. | OXFORD E317LT0-4 |
| Washington Alloy Company | 317LT0-4 |
| Welding Alloys (USA), Inc. | TETRA S 317L-G |
| WELDWIRE COMPANY INC. | WW 317LT0-4 |

E317LT1-1

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| Arctec Alloys Limited | ARCTEC FCS 317L |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 317L |
| Kobe Steel, LTD. | DW-317L |
| McKay Welding Products | IN-FLUX 317L-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 317LT |
| NOF Corporation | GFW317LAP |
| Oxford Alloys, Inc. | OXFORD E317LT1-1 |
| Sodel Ltd | WIROGAS 3170 G |
| Washington Alloy Company | 317LT1-1 |
| WELDWIRE COMPANY INC. | WW 317LT1-1 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E317LT1-4

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| ELGA AB | CROMACORE DW 317LP |
| ESAB AB | OK Tubrod 14.25 |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 317L |
| Euroweld, Ltd. | E317LT1-4 |
| Kobe Steel, LTD. | DW-317L |
| McKay Welding Products | IN-FLUX 317L-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 317LT |
| Oxford Alloys, Inc. | OXFORD E317LT1-4 |
| Washington Alloy Company | 317LT1-4 |
| Welding Alloys (USA), Inc. | TETRA V 317L-G |
| WELDWIRE COMPANY INC. | WW 317LT1-4 |

E347T0-1

| SOURCE | PRODUCT |
|--------------------------------|--------------------------|
| American Filler Metals Company | AFM 347T0-1 |
| American Welding Alloys | AWA 347 |
| Avesta Welding Products Inc. | AVESTA 347T0-1 |
| COR-MET INC. | COR-STAIN 347 FC-G |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilcord 87 |
| Inweld Corporation | INWELD 347T-1 |
| Kobe Steel, LTD. | DW-347 |
| Midalloy, Inc. | Mastercor E347T0-1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 347T, 347LT |
| NOF Corporation | GFW347, 347L |
| Oxford Alloys, Inc. | OXFORD E347T0-1 |
| SOWESCO | Pinnacle Alloys E347T0-1 |
| Washington Alloy Company | 347T0-1 |
| Weld Mold Company | 347LT-1 |
| Welding Alloys (USA), Inc. | TETRA S 347-G |
| WELDWIRE COMPANY INC. | WW 347T0-1 |

E347T0-4

| SOURCE | PRODUCT |
|----------------|-----------------|
| ESAB AB | OK Tubrod 14.34 |
| Euroweld, Ltd. | E347T0-4 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E347T0-4 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------|-----------------------------|
| Kobe Steel, LTD. | DW-347 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 347T, WEL FCW 347LT |
| Oxford Alloys, Inc. | OXFORD E347T0-4 |
| Washington Alloy Company | 347T0-4 |
| Welding Alloys (USA), Inc. | TETRA S 347-G |
| WELDWIRE COMPANY INC. | WW 347T0-4 |

E347T1-1

| SOURCE | PRODUCT |
|---------------------------------|-----------------------------|
| American Filler Metals Company | AFM 347T-1 |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 347 |
| McKay Welding Products | IN-FLUX 347-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 347T, WEL FCW 347LT |
| Oxford Alloys, Inc. | OXFORD E347T1-1 |
| Washington Alloy Company | 347T1-1 |
| WELDWIRE COMPANY INC. | WW 347T1-1 |

E347T1-4

| SOURCE | PRODUCT |
|---------------------------------|-----------------------------|
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 347 |
| McKay Welding Products | IN-FLUX 347-T1 |
| Nippon Welding Rod Co., Ltd. | WEL FCW 347T, WEL FCW 347LT |
| Oxford Alloys, Inc. | OXFORD E347T1-4 |
| Washington Alloy Company | 347T1-4 |
| Welding Alloys (USA), Inc. | TETRA V 347-G |
| WELDWIRE COMPANY INC. | WW 347T1-4 |

E409T0-1

| SOURCE | PRODUCT |
|--------------------------|--------------------|
| American Welding Alloys | AWA 409 |
| COR-MET INC. | COR-STAIN 409 FC-G |
| Inweld Corporation | INWELD 409T-1 |
| Oxford Alloys, Inc. | OXFORD E409T0-1 |
| Washington Alloy Company | 409T0-1 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E409T0-4

| SOURCE | PRODUCT |
|------------------------------|---------------|
| Nippon Welding Rod Co., Ltd. | WEL MCW 409Nb |
| Washington Alloy Company | 409T0-4 |

E409T1-1

| SOURCE | PRODUCT |
|--------------------------|---------|
| Washington Alloy Company | 409T1-1 |

E409T1-4

| SOURCE | PRODUCT |
|--------------------------|---------|
| Washington Alloy Company | 409T1-4 |

E410T0-1

| SOURCE | PRODUCT |
|--------------------------------|--------------------|
| American Filler Metals Company | AFM 410T0-1 |
| American Welding Alloys | AWA 410 |
| COR-MET INC. | COR-STAIN 410 FC-G |
| Inweld Corporation | INWELD 410T-1 |
| Nippon Welding Rod Co., Ltd. | WEL fCW 410 |
| Oxford Alloys, Inc. | OXFORD E410T0-1 |
| Washington Alloy Company | 410T0-1 |
| Weld Mold Company | 410T-1 |
| Welding Alloys (USA), Inc. | CHROMECORE 410-G |

E410T0-4

| SOURCE | PRODUCT |
|------------------------------|--------------|
| Nippon Welding Rod Co., Ltd. | WEL FCW 410T |
| Washington Alloy Company | 410T0-4 |

E410T1-1

| SOURCE | PRODUCT |
|--------------------------------|-----------------|
| American Filler Metals Company | AFM 410T1-1 |
| Oxford Alloys, Inc. | OXFORD E410T1-1 |
| Washington Alloy Company | 410T1-1 |

E410T1-4

| SOURCE | PRODUCT |
|--------------------------|---------|
| Washington Alloy Company | 410T1-4 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E410NiMoT0-1

| SOURCE | PRODUCT |
|--|-------------------------|
| American Welding Alloys | AWA 410NiMo |
| COR-MET INC. | COR-STAIN 410 NiMo FC-G |
| Oxford Alloys, Inc. | OXFORD E410NiMoT0-1 |
| Stoody Company - Thermadyne Industries | SOS 410NiMo |
| Washington Alloy Company | 410NiMoT0-1 |
| Weld Mold Company | 410NiMoT-1 |
| Welding Alloys (USA), Inc. | CHROMECORE 410NiMo-G |

E410NiMoT0-4

| SOURCE | PRODUCT |
|------------------------------|--------------------|
| Euroweld, Ltd. | E410NiMoT0-4 |
| McKay Welding Products | IN-FLUX 410NiMo-T1 |
| Nippon Welding Rod Co., Ltd. | WEL MCW 410NiMo |
| Washington Alloy Company | 410NiMoT0-4 |

E410NiMoT1-1

| SOURCE | PRODUCT |
|--|---------------------|
| American Filler Metals Company | AFM 410NiMoT1-1 |
| EXSA S.A.- División Fontargen | FONTARFIL 2127 |
| McKay Welding Products | IN-FLUX 410NiMo-T1 |
| Oxford Alloys, Inc. | OXFORD E410NiMoT1-1 |
| Stoody Company - Thermadyne Industries | 410NiMo T-1 AP |
| Washington Alloy Company | 410NiMoT1-1 |
| WELDWIRE COMPANY INC. | WW 410NiMoT1-1 |

E410NiMoT1-4

| SOURCE | PRODUCT |
|--------------------------|--------------------|
| McKay Welding Products | IN-FLUX 410NiMo-T1 |
| Washington Alloy Company | 410NiMoT1-4 |
| WELDWIRE COMPANY INC. | WW 410NiMoT1-4 |

E410NiTiT0-1

| SOURCE | PRODUCT |
|-------------------------|-------------|
| American Welding Alloys | AWA 410NiTi |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E430T0-1

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| American Welding Alloys | AWA 430 |
| COR-MET INC. | COR-STAIN 430 FC-G |
| Washington Alloy Company | 430T0-1 |
| WELDWIRE COMPANY INC. | WW 430T0-1 |

E430T1-1

| SOURCE | PRODUCT |
|---------------------------------|----------------|
| Washington Alloy Company | 430T1-1 |

E502T0-1

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| American Welding Alloys | AWA 502 |
| COR-MET INC. | COR-STAIN 502 FC-G |
| Inweld Corporation | INWELD 502T-1 |
| Oxford Alloys, Inc. | OXFORD E502T0-1 |
| Washington Alloy Company | 502T0-1 |
| Welding Alloys (USA), Inc. | 502-G |
| WELDWIRE COMPANY INC. | WW 502T0-1 |

E502T0-4

| SOURCE | PRODUCT |
|---------------------------------|----------------|
| Euroweld, Ltd. | E502T0-4 |
| Washington Alloy Company | 502T0-4 |
| Welding Alloys (USA), Inc. | 502-G |
| WELDWIRE COMPANY INC. | WW 502T0-4 |

E502T1-1

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| Oxford Alloys, Inc. | OXFORD E502T1-1 |
| Washington Alloy Company | 502T1-1 |
| WELDWIRE COMPANY INC. | WW 502T1-1 |

E502T1-4

| SOURCE | PRODUCT |
|---------------------------------|-------------|
| ESAB WELDING & CUTTING PRODUCTS | ARCALOY 502 |
| Euroweld, Ltd. | E502T1-4 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E502T1-4 (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|-----------------|
| Oxford Alloys, Inc. | OXFORD E502T1-4 |
| Washington Alloy Company | 502T1-4 |
| WELDWIRE COMPANY INC. | WW 502T1-4 |

E505T0-1

| SOURCE | PRODUCT |
|----------------------------|--------------------|
| American Welding Alloys | AWA 505 |
| COR-MET INC. | COR-STAIN 505 FC-G |
| Oxford Alloys, Inc. | OXFORD E505T0-1 |
| Washington Alloy Company | 505T0-1 |
| Welding Alloys (USA), Inc. | 505-G |
| WELDWIRE COMPANY INC. | WW 505T0-1 |

E505T0-4

| SOURCE | PRODUCT |
|----------------------------|------------|
| Euroweld, Ltd. | E505T0-4 |
| Washington Alloy Company | 505T0-4 |
| Welding Alloys (USA), Inc. | 505-G |
| WELDWIRE COMPANY INC. | WW 505T0-4 |

E505T1-1

| SOURCE | PRODUCT |
|--------------------------|------------------|
| McKay Welding Products | SPEED-ALLOY 5055 |
| Oxford Alloys, Inc. | OXFORD E505T1-1 |
| Washington Alloy Company | 505T1-1 |
| WELDWIRE COMPANY INC. | WW 505T1-1 |

E505T1-4

| SOURCE | PRODUCT |
|--------------------------|-----------------|
| Oxford Alloys, Inc. | OXFORD E505T1-4 |
| Washington Alloy Company | 505T1-4 |
| WELDWIRE COMPANY INC. | WW 505T1-4 |

E307T0-3

| SOURCE | PRODUCT |
|-------------------------|--------------------|
| American Welding Alloys | AWA 307T0-3 |
| COR-MET INC. | COR-STAIN 307 FC-0 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E307T0-3 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|-----------------|
| ESAB WELDING & CUTTING PRODUCTS | CORE-BRIGHT 307 |
| Euroweld, Ltd. | E307T0-3 |
| Washington Alloy Company | 307T0-3 |
| Weld Mold Company | 307 FC-0 |
| Welding Alloys (USA), Inc. | TRI-S 307-0 |
| WELDWIRE COMPANY INC. | WW 307T0-3 |

E308T0-3

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| American Welding Alloys | AWA 308T0-3 |
| COR-MET INC. | COR-STAIN 308 FC-O |
| McKay Welding Products | IN-FLUX 308-O |
| Oxford Alloys, Inc. | OXFORD E308T0-3 |
| Washington Alloy Company | 308T0-3 |
| Weld Mold Company | 308 FC-0 |
| Welding Alloys (USA), Inc. | TRI-S 308H-O |
| WELDWIRE COMPANY INC. | WW 308T0-3 |

E308LT0-3

| SOURCE | PRODUCT |
|---|-------------------------|
| American Welding Alloys | AWA 308LT0-3 |
| Chosun Steel Wire Company | SSFX-308LT-1 |
| COR-MET INC. | COR-STAIN 308L FC-O |
| ESAB WELDING & CUTTING PRODUCTS | CORE-BRIGHT 308L |
| EXSA S.A. - División Soldaduras OERLIKON | TUB INOX 308L-0 |
| EXSA S.A.- División Fontargen | FONTARFIL 2120-3 |
| McKay Welding Products | IN-FLUX 308L-O |
| Oxford Alloys, Inc. | OXFORD E308LT0-3 |
| Stoody Company - Thermadyne Industries | SOS 308L |
| Washington Alloy Company | 308LT0-3 |
| Weld Mold Company | 308L FC-0 |
| Welding Alloys (USA), Inc. | TRI-S 308L-O |
| WELDWIRE COMPANY INC. | WW 308LT0-3 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E308HT0-3

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| American Welding Alloys | AWA 308HT0-3 |
| COR-MET INC. | COR-STAIN 308 FC-O |
| ESAB WELDING & CUTTING PRODUCTS | CORE-BRIGHT 308H |
| Oxford Alloys, Inc. | OXFORD E308HT0-3 |
| Washington Alloy Company | 308HT0-3 |
| Welding Alloys (USA), Inc. | TRI-S 308H-O |
| WELDWIRE COMPANY INC. | WW 308HT0-3 |

E308MoT0-3

| SOURCE | PRODUCT |
|---------------------------------|----------------------|
| American Welding Alloys | AWA 308MoT0-3 |
| COR-MET INC. | COR-STAIN 308Mo FC-O |
| ESAB WELDING & CUTTING PRODUCTS | CORE-BRIGHT 308Mo |
| Oxford Alloys, Inc. | OXFORD E308MoT0-3 |
| Welding Alloys (USA), Inc. | TRI-S 308MoH-O |

E308LMoT0-3

| SOURCE | PRODUCT |
|--|-----------------------|
| American Welding Alloys | AWA 308LMoT0-3 |
| COR-MET INC. | COR-STAIN 308LMo FC-O |
| Oxford Alloys, Inc. | OXFORD E308LMoT0-3 |
| Stoody Company - Thermadyne Industries | SOS 308MoL |
| Washington Alloy Company | 308LMoT0-3 |
| Weld Mold Company | 308LMo FC-0 |
| Welding Alloys (USA), Inc. | TRI-S 308MoL-O |
| WELDWIRE COMPANY INC. | WW 308LMoT0-3 |

E308HMoT0-3

| SOURCE | PRODUCT |
|----------------------------|----------------------|
| American Welding Alloys | AWA 308HMoT0-3 |
| COR-MET INC. | COR-STAIN 308Mo FC-O |
| McKay Welding Products | IN-FLUX A9-O |
| Oxford Alloys, Inc. | OXFORD E308HMoT0-3 |
| Welding Alloys (USA), Inc. | TRI-S 308MoH-O |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E309T0-3

| SOURCE | PRODUCT |
|----------------------------|-------------------------------------|
| American Welding Alloys | AWA 309T0-3 |
| COR-MET INC. | COR-STAIN 309 FC-O |
| Euroweld, Ltd. | E309T0-3 |
| McKay Welding Products | IN-FLUX 309-O |
| Oxford Alloys, Inc. | OXFORD E309T0-3 |
| Washington Alloy Company | 309T0-3 |
| Weld Mold Company | 309 FC-0, 309 FC-0 (T-3), 309L FC-0 |
| Welding Alloys (USA), Inc. | TRI-S 309H-O |
| WELDWIRE COMPANY INC. | WW 309T0-3 |

E309LT0-3

| SOURCE | PRODUCT |
|--|---------------------|
| American Welding Alloys | AWA 309LT0-3 |
| Chosun Steel Wire Company | SSFX-309LT-1 |
| COR-MET INC. | COR-STAIN 309L FC-O |
| ESAB WELDING & CUTTING PRODUCTS | CORE-BRIGHT 309L |
| EXSA S.A. - División Soldaduras OERLIKON | TUB INOX 309L-0 |
| EXSA S.A.- División Fontargen | FONTARFIL 2132-3 |
| McKay Welding Products | IN-FLUX 309L-O |
| Oxford Alloys, Inc. | OXFORD E309LT0-3 |
| Stoody Company - Thermadyne Industries | SOS 309L |
| Washington Alloy Company | 309LT0-3 |
| Welding Alloys (USA), Inc. | TRI-S 309L-O |
| WELDWIRE COMPANY INC. | WW 309LT0-3 |

E309LCbT0-3

| SOURCE | PRODUCT |
|--------------------------|-----------------------|
| American Welding Alloys | AWA 309LCbT0-3 |
| COR-MET INC. | COR-STAIN 309LCb FC-O |
| Oxford Alloys, Inc. | OXFORD E309LCbT0-3 |
| Washington Alloy Company | 309LCbT0-3 |

E309MoT0-3

| SOURCE | PRODUCT |
|-------------------------|----------------------|
| American Welding Alloys | AWA 309MoT0-3 |
| COR-MET INC. | COR-STAIN 309Mo FC-O |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E309MoT0-3 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|----------------|
| Washington Alloy Company | 309MoT0-3 |
| Welding Alloys (USA), Inc. | TRI-S 309MoH-O |
| WELDWIRE COMPANY INC. | WW 309MoT0-3 |

E309LMoT0-3

| SOURCE | PRODUCT |
|--|-----------------------|
| American Welding Alloys | AWA 309LMoT0-3 |
| COR-MET INC. | COR-STAIN 309LMo FC-O |
| Inweld Corporation | INWELD 309LM-T1 |
| Oxford Alloys, Inc. | OXFORD E309LMoT0-3 |
| Stoody Company - Thermadyne Industries | SOS 309MoL |
| Washington Alloy Company | 309LMoT0-3 |
| Weld Mold Company | 309LMo FC-0 |
| Welding Alloys (USA), Inc. | TRI-S 309MoL-O |
| WELDWIRE COMPANY INC. | WW 309LMoT0-3 |

E310T0-3

| SOURCE | PRODUCT |
|----------------------------|--------------------|
| American Welding Alloys | AWA 310T0-3 |
| COR-MET INC. | COR-STAIN 310 FC-O |
| Oxford Alloys, Inc. | OXFORD E310T0-3 |
| Washington Alloy Company | 310T0-3 |
| Weld Mold Company | 310 FC-0 |
| Welding Alloys (USA), Inc. | TRI-S 310-O |
| WELDWIRE COMPANY INC. | WW 310T0-3 |

E312T0-3

| SOURCE | PRODUCT |
|-------------------------------|--------------------|
| American Welding Alloys | AWA 312T0-3 |
| COR-MET INC. | COR-STAIN 312 FC-O |
| EXSA S.A.- División Fontargen | FONTARFIL 2106-3 |
| Oxford Alloys, Inc. | OXFORD E312T0-3 |
| Washington Alloy Company | 312T0-3 |
| Weld Mold Company | 312 FC-0 |
| Welding Alloys (USA), Inc. | TRI-S 312L-O |
| WELDWIRE COMPANY INC. | WW 312T0-3 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E316T0-3

| SOURCE | PRODUCT |
|---------------------------------|------------------------|
| American Welding Alloys | AWA 316T0-3 |
| COR-MET INC. | COR-STAIN 316 FC-O |
| Oxford Alloys, Inc. | OXFORD E316T0-3 |
| Washington Alloy Company | 316T0-3 |
| Weld Mold Company | 316 FC-0 |
| Welding Alloys (USA), Inc. | TRI-S 316H-O |
| WELDWIRE COMPANY INC. | WW 316T0-3 |

E316LT0-3

| SOURCE | PRODUCT |
|---|-------------------------|
| American Welding Alloys | AWA 316LT0-3 |
| Chosun Steel Wire Company | SSFX-316LT-1 |
| COR-MET INC. | COR-STAIN 316L FC-O |
| ESAB WELDING & CUTTING PRODUCTS | CORE-BRIGHT 316L |
| EXSA S.A. - División Soldaduras OERLIKON | TUB INOX 316L-0 |
| EXSA S.A.- División Fontargen | FONTARFIL 2121-3 |
| McKay Welding Products | IN-FLUX 316L-O |
| Oxford Alloys, Inc. | OXFORD E316LT0-3 |
| Stoody Company - Thermadyne Industries | SOS 316L |
| Washington Alloy Company | 316LT0-3 |
| Weld Mold Company | 316L FC-0 |
| Welding Alloys (USA), Inc. | TRI-S 316L-O |
| WELDWIRE COMPANY INC. | WW 316LT0-1 |

E316LKT0-3

| SOURCE | PRODUCT |
|-------------------------|---------------|
| American Welding Alloys | AWA 316LKT0-3 |

E317LT0-3

| SOURCE | PRODUCT |
|---|-------------------------|
| American Welding Alloys | AWA 317LT0-3 |
| COR-MET INC. | COR-STAIN 317L FC-O |
| Oxford Alloys, Inc. | OXFORD E317LT0-3 |
| Stoody Company - Thermadyne Industries | SOS 317L |
| Washington Alloy Company | 317LT0-3 |
| Weld Mold Company | 317L FC-0 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E317LT0-3 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|--------------|
| Welding Alloys (USA), Inc. | TRI-S 317L-O |
| WELDWIRE COMPANY INC. | WW 317LT0-3 |

E347T0-3

| SOURCE | PRODUCT |
|--|--------------------|
| American Welding Alloys | AWA 347T0-3 |
| COR-MET INC. | COR-STAIN 347 FC-O |
| ESAB WELDING & CUTTING PRODUCTS | CORE-BRIGHT 347 |
| Oxford Alloys, Inc. | OXFORD E347T0-3 |
| Stoody Company - Thermadyne Industries | SOS 347 |
| Washington Alloy Company | 347T0-3 |
| Weld Mold Company | 347 FC-0 |
| Welding Alloys (USA), Inc. | TRI-S 347-0 |
| WELDWIRE COMPANY INC. | WW 347T0-3 |

E409T0-3

| SOURCE | PRODUCT |
|------------------------------|--------------------|
| American Welding Alloys | AWA 409T0-3 |
| COR-MET INC. | COR-STAIN 409 FC-O |
| Nippon Welding Rod Co., Ltd. | WEL MCW 409Nb |
| Washington Alloy Company | 409T0-3 |
| WELDWIRE COMPANY INC. | WW 409T-3 |

E410T0-3

| SOURCE | PRODUCT |
|----------------------------|--------------------|
| American Welding Alloys | AWA 410T0-3 |
| COR-MET INC. | COR-STAIN 410 FC-O |
| Oxford Alloys, Inc. | OXFORD E410T0-3 |
| Washington Alloy Company | 410T0-3 |
| Weld Mold Company | 410 FC-0 |
| Welding Alloys (USA), Inc. | CHROMECORE 410-O |

E419BuNiT0-3

| SOURCE | PRODUCT |
|--------------------------|---------------|
| Washington Alloy Company | 410NiMoT-3 |
| WELDWIRE COMPANY INC. | WW 410NiMo-T3 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E430T0-3

| SOURCE | PRODUCT |
|----------------------------|--------------------|
| American Welding Alloys | AWA 430T0-3 |
| COR-MET INC. | COR-STAIN 430 FC-O |
| Oxford Alloys, Inc. | OXFORD E430T0-3 |
| Washington Alloy Company | 430T0-3 |
| Welding Alloys (USA), Inc. | CHROMECORE 430-O |
| WELDWIRE COMPANY INC. | WW 430T0-3 |

E2209T0-1

| SOURCE | PRODUCT |
|--------------------------------|-----------------|
| American Filler Metals Company | AFM 2209T0-1 |
| Avesta Welding Products Inc. | AVESTA 2205T0-1 |
| Washington Alloy Company | 2209T0-1 |
| WELDWIRE COMPANY INC. | WW 2209T0-1 |

E2209T0-4

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| Bohler Thyssen Welding USA, Inc. | Bohler CN 22/9 N-FD |
| ELGA AB | CROMACORE DW 329A |
| Euroweld, Ltd. | E2209T0-4 |
| Nippon Welding Rod Co., Ltd. | WEL MCW 329J3L |
| Washington Alloy Company | 2209T0-4 |
| Welding Alloys (USA), Inc. | TETRA S 22.9.3L-G |

E2209T1-4

| SOURCE | PRODUCT |
|----------------------------------|----------------------|
| Bohler Thyssen Welding USA, Inc. | Bohler CN 22/9 PW-FD |
| ELGA AB | CROMACORE DW 329AP |
| ESAB WELDING & CUTTING PRODUCTS | SHIELD-BRIGHT 2209 |
| Euroweld, Ltd. | E2209T1-4 |
| Nippon Welding Rod Co., Ltd. | WEL MCW 329J3L |
| Washington Alloy Company | 2209T1-4 |
| Welding Alloys (USA), Inc. | TETRA V 22.9.3L-G |

E2209T0-X

| SOURCE | PRODUCT |
|-------------------------|------------|
| American Welding Alloys | AWA 2209T0 |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

E2209T0-X (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------|-----------------------------|
| Avesta Welding Products Inc. | AVESTA 2209 T0-1, 2209 T1-1 |
| COR-MET INC. | COR-STAIN 2209 FC-O |
| Kobe Steel, LTD. | DW-2209 |
| Nippon Welding Rod Co., Ltd. | WEL MCW 329J3L |
| NOF Corporation | GFW329J3L |
| Oxford Alloys, Inc. | OXFORD E2209T0-X |
| SOWESCO | Pinnacle Alloys E2209T0-X |
| Welding Alloys (USA), Inc. | TETRA S 22.9.3L-G |

E2553T0-4

| SOURCE | PRODUCT |
|---------|-----------------|
| ESAB AB | OK Tubrod 14.28 |

E2553T0-X

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| American Welding Alloys | AWA 2553T0 |
| COR-MET INC. | COR-STAIN 2553 FC-O |
| McKay Welding Products | IN-FLUX 259-O |
| Oxford Alloys, Inc. | OXFORD E2553T0-X |
| Washington Alloy Company | 2553T0-1 |
| Welding Alloys (USA), Inc. | TETRA S D57L-G |
| WELDWIRE COMPANY INC. | WW 2553T-1 |

EXXTX-G

| SOURCE | PRODUCT |
|----------------------------|---|
| Euroweld, Ltd. | 505 MOD |
| Welding Alloys (USA), Inc. | TERTRA-S/V 307L-G, TETRA-V 904L-G, TETRA-S/V 20.9.3-G, TETRA-S D57L-G |

R308LT1-5

| SOURCE | PRODUCT |
|--------------------------|------------------|
| Kobe Steel, LTD. | TGX-308L |
| Nassau Research Corp. | 308LT1-FC |
| Oxford Alloys, Inc. | OXFORD R308LT1-5 |
| Washington Alloy Company | 308LT-1 TIG |

A5.22-95, STAINLESS STEEL Flux Cored Arc Welding Electrodes and Flux Cored Rods For Gas Tungsten Arc Welding

See ANSI/AWS A5.22-95, Specification for Stainless Steel Electrodes for Flux Cored Arc Welding and Stainless Steel Flux Cored Rods for Gas Tungsten Arc Welding

R309LT1-5

| SOURCE | PRODUCT |
|--------------------------|------------------|
| Kobe Steel, LTD. | TGX-309L |
| Nassau Research Corp. | 309LT1-FC |
| Oxford Alloys, Inc. | OXFORD R309LT1-5 |
| Washington Alloy Company | 309LT-1 TIG |

R316LT1-5

| SOURCE | PRODUCT |
|--------------------------|------------------|
| Euroweld, Ltd. | R316LT1-5 |
| Kobe Steel, LTD. | TGX-316L |
| Nassau Research Corp. | 316LT1-FC |
| Oxford Alloys, Inc. | OXFORD R316LT1-5 |
| Washington Alloy Company | 316LT-1 TIG |

R347T1-5

| SOURCE | PRODUCT |
|--------------------------|-----------------|
| Kobe Steel, LTD. | TGX-347 |
| Oxford Alloys, Inc. | OXFORD R347T1-5 |
| Washington Alloy Company | 347T-1 TIG |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

EL12

| SOURCE | PRODUCT |
|---|---|
| American Welding Alloys | AWA EL12 |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS S1 |
| BELGO MINEIRA BEKAERT ARAMES S.A. | BMAS - 121 |
| Champion Welding Products | CHAMPION EL12, CHAMPION ELECTROMAT 60A |
| Electromanufacturas S.A | West Arco WA-60 |
| ELGA AB | ELGASAW 101 |
| ESAB AB | OK Autrod 12.10 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 80 |
| Euroweld, Ltd. | EL12 |
| EXSA S.A. - División Soldaduras OERLIKON | PS-1 |
| EXSA S.A.- División Fontargen | FON A 100 S1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H60 |
| Indura S.A. Industria y Comercio | INDURA EL12 |
| Lincoln Electric Co. | Lincolnweld L-60 |
| Plásticos y Alambres, S. A. | SOLDAMATIC 60 |
| Techalloy Company, Inc. | RACO 112 |
| Washington Alloy Company | EL12 |
| WELDWIRE COMPANY INC. | Weldwire EL12 |

EM12K

| SOURCE | PRODUCT |
|---|---|
| AIR LIQUIDE CANADA INC. | LA 12K |
| American Filler Metals Company | AFM EM12K |
| American Welding Alloys | AWA EM12K |
| Askaynak Kaynak Teknigi Sanayi Ticaret A.S. | AS S2 |
| BELGO MINEIRA BEKAERT ARAMES S.A. | BMAS - 122 |
| Bohler Thyssen Welding USA, Inc. | Thyssen Union S2Si |
| Champion Welding Products | CHAMPION ELECTROMAT 72, CHAMPION EM12K |
| Electromanufacturas S.A | West Arco WA-61 |
| ESAB AB | OK Autrod 12.22 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 81 |
| Euroweld, Ltd. | EM12K |
| EXSA S.A. - División Soldaduras OERLIKON | PS-2 |
| EXSA S.A.- División Fontargen | FON A 100 S2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H100Si, H150Si |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

EM12K (Continued from previous page)

| SOURCE | PRODUCT |
|---|---------------------|
| Indura S.A. Industria y Comercio | INDURA EM12k |
| Lincoln Electric Co. | Lincolnweld L-61 |
| Plasticos y Alambres, S. A. | SOLDAMATIC 121 |
| Techalloy Company, Inc. | RACO 123 |
| Washington Alloy Company | EM12K |
| Welding Alloys (USA), Inc. | SPEEDARC EM12K |
| WELDWIRE COMPANY INC. | Weldwire EM12K |

EA1

| SOURCE | PRODUCT |
|--|----------------------|
| American Welding Alloys | AWA EA1 |
| Champion Welding Products | CHAMPION EA1 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40A |
| Euroweld, Ltd. | EA1 |
| EXSA S.A. - División Soldaduras OERLIKON | PS-2Mo |
| EXSA S.A.- División Fontargen | FON A 100 S2 Mo |
| HILARIUS HAARLEM HOLLAND BV | HILCO H100Mo, H150Mo |
| Lincoln Electric Co. | Lincolnweld L-70 |
| Welding Alloys (USA), Inc. | SPEEDARC EA1 |
| WELDWIRE COMPANY INC. | Weldwire EA1 |

EA2

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| American Welding Alloys | AWA EA2 |
| Bohler Thyssen Welding USA, Inc. | Thyssen S3Mo |
| Champion Welding Products | CHAMPION EA2 |
| ELGA AB | ELGASAW 102-Mo |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40B |
| Euroweld, Ltd. | EA2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H100Mo |
| Welding Alloys (USA), Inc. | SPEEDARC EA2 |
| WELDWIRE COMPANY INC. | Weldwire EA2 |

EA3

| SOURCE | PRODUCT |
|-------------------------|---------|
| American Welding Alloys | AWA EA3 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

EA3 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|---------------------|
| BELGO MINEIRA BEKAERT ARAMES S.A. | BMAS - 104 |
| Bohler Thyssen Welding USA, Inc. | Thyssen S4Mo |
| Champion Welding Products | CHAMPION EA3 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40 |
| Euroweld, Ltd. | EA3 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H200Mo |
| Kobe Steel, LTD. | US-40 |
| Lincoln Electric Co. | LNS 140 |
| Techalloy Company, Inc. | RACO 128 |
| Welding Alloys (USA), Inc. | SPEEDARC EA3 |
| WELDWIRE COMPANY INC. | Weldwire EA3 |

EA3K

| SOURCE | PRODUCT |
|---------------------------------|-------------------|
| American Welding Alloys | AWA EA3K |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 83 |
| Euroweld, Ltd. | EA3K |
| Lincoln Electric Co. | Lincolnweld LA-90 |
| Welding Alloys (USA), Inc. | SPEEDARC EA3K |

EA4

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| American Welding Alloys | AWA EA4 |
| Bohler Thyssen Welding USA, Inc. | Thyssen S3Mo |
| Champion Welding Products | CHAMPION EA4 |
| Euroweld, Ltd. | EA4 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H150Mo |
| Welding Alloys (USA), Inc. | SPEEDARC EA4 |
| WELDWIRE COMPANY INC. | Weldwire EA4 |

EB1

| SOURCE | PRODUCT |
|----------------------------|--------------------------|
| American Welding Alloys | AWA EB1 |
| Lincoln Electric Co. | Lincolnweld LA-81, LA-85 |
| Welding Alloys (USA), Inc. | SPEEDARC EB1 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

EB2

| SOURCE | PRODUCT |
|----------------------------------|----------------------------|
| American Filler Metals Company | AFM EB2 |
| American Welding Alloys | AWA EB2 |
| Bohler Thyssen Welding USA, Inc. | Thyssen S2CrMo |
| Champion Welding Products | CHAMPION 515u |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC U515 |
| Euroweld, Ltd. | EB2-X15 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H100CrMo1 |
| Lincoln Electric Co. | Lincolnweld LA-92, LNS 150 |
| Midalloy, Inc. | Midalloy EB-2 |
| Oxford Alloys, Inc. | OXFORD EB2 |
| SOWESCO | Pinnacle Alloys EB2 |
| Techalloy Company, Inc. | RACO 515 |
| Uniweld Products, Inc. | UNI-EB2 |
| Washington Alloy Company | EB2 (515S) |
| Welding Alloys (USA), Inc. | SPEEDARC EB2 |
| WELDWIRE COMPANY INC. | WW EB2 |

EB2H

| SOURCE | PRODUCT |
|----------------------------|---------------|
| American Welding Alloys | AWA EB2H |
| LANCASTER ALLOYS COMPANY | LAC 6458VM |
| Welding Alloys (USA), Inc. | SPEEDARC EB2H |

EB3

| SOURCE | PRODUCT |
|----------------------------------|---------------------------|
| American Filler Metals Company | AFM EB3 |
| American Welding Alloys | AWA EB3 |
| Bohler Thyssen Welding USA, Inc. | Thyssen S1CrMo2 |
| Champion Welding Products | CHAMPION 521u |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC U521 |
| Euroweld, Ltd. | EB3-X15 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H60CrMo2, H100CrMo2 |
| Lincoln Electric Co. | Lincolnweld LA-93 |
| Midalloy, Inc. | Midalloy EB-3 |
| Oxford Alloys, Inc. | OXFORD EB3 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

EB3 (Continued from previous page)

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| SOWESCO | Pinnacle Alloys EB3 |
| Techalloy Company, Inc. | RACO 521 |
| Uniweld Products, Inc. | UNI-EB3 |
| Washington Alloy Company | EB3 (521S) |
| Welding Alloys (USA), Inc. | SPEEDARC EB3 |
| WELDWIRE COMPANY INC. | WW EB3 |

EB5

| SOURCE | PRODUCT |
|----------------------------|--------------|
| American Welding Alloys | AWA EB5 |
| Welding Alloys (USA), Inc. | SPEEDARC EB5 |

EB6

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| American Filler Metals Company | AFM EB6 |
| American Welding Alloys | AWA EB6 |
| Bohler Thyssen Welding USA, Inc. | Thyssen S1CrMo5 |
| Champion Welding Products | CHAMPION EB6 |
| Euroweld, Ltd. | EB6 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H60CrMo5 |
| Inweld Corporation | INWELD 502 |
| Oxford Alloys, Inc. | OXFORD EB6 |
| Washington Alloy Company | 502 |
| Welding Alloys (USA), Inc. | SPEEDARC EB6 |
| WELDWIRE COMPANY INC. | WW EB6 |

EB6H

| SOURCE | PRODUCT |
|----------------------------|---------------|
| American Welding Alloys | AWA EB6H |
| Welding Alloys (USA), Inc. | SPEEDARC EB6H |

EB8

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| American Filler Metals Company | AFM EB8 |
| American Welding Alloys | AWA EB8 |
| Champion Welding Products | CHAMPION EB8 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

EB8 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|--------------|
| Euroweld, Ltd. | EB8 |
| Oxford Alloys, Inc. | OXFORD EB8 |
| Welding Alloys (USA), Inc. | SPEEDARC EB8 |
| WELDWIRE COMPANY INC. | WW EB8 |

EB9

| SOURCE | PRODUCT |
|----------------------------------|-------------------------|
| Bohler Thyssen Welding USA, Inc. | Thyssen Thermanit MTS 3 |
| Champion Welding Products | CHAMPION EB9 |
| Euroweld, Ltd. | EB9 |
| Oxford Alloys, Inc. | OXFORD EB9 |
| Washington Alloy Company | EB9 (505 Modified) |

ENi1

| SOURCE | PRODUCT |
|----------------------------------|-----------------|
| American Welding Alloys | AWA ENi1 |
| Bohler Thyssen Welding USA, Inc. | Thyssen S2NiMo1 |
| Champion Welding Products | CHAMPION ENi1 |
| ELGA AB | ELGASAW 102-Ni1 |
| Euroweld, Ltd. | ENi-1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H100Ni1 |
| Welding Alloys (USA), Inc. | SPEEDARC ENi1 |

ENi2

| SOURCE | PRODUCT |
|----------------------------------|-----------------|
| American Filler Metals Company | AFM ENi2 |
| Bohler Thyssen Welding USA, Inc. | Thyssen S2Ni2.5 |
| Champion Welding Products | CHAMPION ENi2 |
| Euroweld, Ltd. | E Ni 2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H100Ni2 |
| Lincoln Electric Co. | LNS 162 |
| Oxford Alloys, Inc. | OXFORD ENi2 |
| Washington Alloy Company | ENi2 |
| Welding Alloys (USA), Inc. | SPEEDARC ENi2 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

ENi3

| SOURCE | PRODUCT |
|----------------------------------|----------------------|
| American Filler Metals Company | AFM ENi3 |
| American Welding Alloys | AWA ENi3 |
| Bohler Thyssen Welding USA, Inc. | Soudokay Soudor ENi3 |
| Champion Welding Products | CHAMPION ENi3 |
| Euroweld, Ltd. | E Ni 3 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H100Ni3 |
| Lincoln Electric Co. | LNS 175 |
| Oxford Alloys, Inc. | OXFORD ENi3 |
| SOWESCO | Pinnacle Alloys ENi3 |
| Washington Alloy Company | ENi3 |
| Welding Alloys (USA), Inc. | SPEEDARC ENi3 |

ENi4

| SOURCE | PRODUCT |
|---------------------------------|---------------|
| American Welding Alloys | AWA ENi4 |
| Champion Welding Products | CHAMPION ENi4 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC ENi4 |
| Oxford Alloys, Inc. | OXFORD ENi4 |
| Welding Alloys (USA), Inc. | SPEEDARC ENi4 |

ENi5

| SOURCE | PRODUCT |
|----------------------|----------------------------|
| Lincoln Electric Co. | Lincolnweld LA-85, LNS 165 |

ENi1K

| SOURCE | PRODUCT |
|----------------------|----------------------------|
| Lincoln Electric Co. | Lincolnweld LA-75, LNS 160 |

EF1

| SOURCE | PRODUCT |
|----------------------------------|----------------------------|
| American Welding Alloys | AWA EF1 |
| Bohler Thyssen Welding USA, Inc. | Thyssen S3NiMo |
| Euroweld, Ltd. | EF1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H100NiMo1, H150NiMo1 |
| Welding Alloys (USA), Inc. | SPEEDARC EF1 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

EF2

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| American Welding Alloys | AWA EF2 |
| Champion Welding Products | CHAMPION EF2 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 44 |
| Lincoln Electric Co. | Lincolnweld LA-82 |
| Welding Alloys (USA), Inc. | SPEEDARC EF2 |

EF3

| SOURCE | PRODUCT |
|----------------------------------|-----------------|
| American Welding Alloys | AWA EF3 |
| Bohler Thyssen Welding USA, Inc. | Thyssen S3NiMo1 |
| Euroweld, Ltd. | EF-3 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H150NiMo1 |
| Welding Alloys (USA), Inc. | SPEEDARC EF3 |

EF4

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| Champion Welding Products | CHAMPION EF4 |
| Techalloy Company, Inc. | RACO 8620 |
| Washington Alloy Company | 8620 |
| Welding Alloys (USA), Inc. | SPEEDARC EF4 |

EF5

| SOURCE | PRODUCT |
|---------------------------------|--------------|
| American Welding Alloys | AWA EF5 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 100 |
| Welding Alloys (USA), Inc. | SPEEDARC EF5 |

EF6

| SOURCE | PRODUCT |
|----------------------------------|---------------------|
| American Welding Alloys | AWA EF6 |
| Champion Welding Products | CHAMPION EF6 |
| Welding Alloys (USA), Inc. | SPEEDARC EF6 |

EM2

| SOURCE | PRODUCT |
|-------------------------|---------|
| American Welding Alloys | AWA EM2 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

EM2 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------------|--------------------|
| Bohler Thyssen Welding USA, Inc. | Thyssen S3NiMoCr |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 95 |
| Euroweld, Ltd. | EM2 |
| Inweld Corporation | INWELD 100S-1 |
| Lincoln Electric Co. | Lincolnweld LA-100 |
| Washington Alloy Company | 100S-1 |
| Welding Alloys (USA), Inc. | SPEEDARC EM2 |
| WELDWIRE COMPANY INC. | WW EM2 |

EM3

| SOURCE | PRODUCT |
|-----------------------------|------------------|
| American Welding Alloys | AWA EM3 |
| HILARIUS HAARLEM HOLLAND BV | HILCO H150NiMoCr |
| Inweld Corporation | INWELD 110S-1 |
| Washington Alloy Company | 110S-1 |
| Welding Alloys (USA), Inc. | SPEEDARC EM3 |
| WELDWIRE COMPANY INC. | WW EM3 |

EM4

| SOURCE | PRODUCT |
|---------------------------------|---------------|
| American Welding Alloys | AWA EM4 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 120 |
| Inweld Corporation | INWELD 120S-1 |
| Washington Alloy Company | 120S-1 |
| Welding Alloys (USA), Inc. | SPEEDARC EM4 |
| WELDWIRE COMPANY INC. | WW EM4 |

EW

| SOURCE | PRODUCT |
|---------------------------------|-------------|
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC WS |
| Euroweld, Ltd. | EW |
| Welding Alloys (USA), Inc. | SPEEDARC EW |

EG

| SOURCE | PRODUCT |
|----------------|---------|
| Euroweld, Ltd. | 505 MOD |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

EG (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------|--|
| Kobe Steel, LTD. | US-49, US-70, US-80BN, US-80LT, US-255, US-2N, USW-52B, USW-62B, USO-52, US-56B, US-56BX, US-63S, US-501B, US-511, US-511N, US-521, US521S, US-502 |
| Lincoln Electric Co. | Lincolnweld LA-81, LNS 140TB |

ECB2

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD B2S |
| Lincoln Electric Co. | Lincolnweld LAC-B2 |

ECB3

| SOURCE | PRODUCT |
|---------------------------------|------------------|
| ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD B3S |

ECN1

| SOURCE | PRODUCT |
|---------------------------------|-------------------|
| ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD Ni1S |

ECN2

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD Ni2S |
| Lincoln Electric Co. | Lincolnweld LAC-Ni2 |

ECF2

| SOURCE | PRODUCT |
|---------------------------------|------------------|
| ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD F2S |

ECM2

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD M2S |
| Lincoln Electric Co. | Lincolnweld LAC-M2 |

ECM3

| SOURCE | PRODUCT |
|---------------------------------|------------------|
| ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD M3S |

ECM5

| SOURCE | PRODUCT |
|----------------------|--------------------|
| Lincoln Electric Co. | MC-100, MC-120S-55 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 1 - Welding Electrodes Only)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

ECW

| SOURCE | PRODUCT |
|--------|---------|
|--------|---------|

| | |
|---------------------------------|-----------------|
| ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD WS |
|---------------------------------|-----------------|

ECG

| SOURCE | PRODUCT |
|--------|---------|
|--------|---------|

| | |
|---------------------------------|-----------------------|
| ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD HOT WORK |
|---------------------------------|-----------------------|

| | |
|----------------------|--------------------|
| Lincoln Electric Co. | MC-100, MC-120S-55 |
|----------------------|--------------------|

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|--|-----------------------|--------------------|
| F6P2-EA1-A1 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40A | UNIONMELT 80 |
| F7A0-EA1-A1 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40A | UNIONMELT 80 |
| F7A0-EA2-A2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40B | UNIONMELT 124 |
| | | SPOOLARC 40B | UNIONMELT 80 |
| F7A2-EA1 | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-70 | Lincolnweld 860 |
| F7A2-EA1-A2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40A | UNIONMELT 429 |
| | Lincoln Electric Co. | Lincolnweld L-70 | Lincolnweld 860 |
| F7A2-EA2-A2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40B | UNIONMELT 709-5 |
| F7A2-ENI1K-NI1 | Lincoln Electric Co. | Lincolnweld LA-75 | Lincolnweld 860 |
| | | Lincolnweld LA-75 | Lincolnweld 980 |
| F7A2-EW-W | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC WS | UNIONMELT 429 |
| | | SPOOLARC WS | UNIONMELT 709-5 |
| F7A4-EM12K-NI1 | Lincoln Electric Co. | Lincolnweld L-61 | Lincolnweld AXXX10 |
| F7A4-EA1-A1 | HILARIUS HAARLEM HOLLAND BV | HILCO H100Mo | HILCO HW530 |
| F7A4-EA2-A2 | ESAB AB | OK Autrod 12.24 | OK Flux 10.75 |
| F7A4-ENI1K-NI1 | Lincoln Electric Co. | Lincolnweld LA-75 | Lincolnweld 882 |
| F7A4-ENI4-NI4 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC ENi4 | UNIONMELT 709-5 |
| F7A4-ENI5-NI5 | Lincoln Electric Co. | Lincolnweld LA-85 | Lincolnweld 882 |
| F7A4-ECW-W | ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD WS | UNIONMELT 651VF |
| | | ALLOY SHIELD WS | UNIONMELT 656 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|-----------------------------------|--|------------------------------|-------------------------|
| F7A6-EM12K | | | |
| | AIR LIQUIDE CANADA INC. | LA 12K | LA 59 |
| | Bohler Thyssen Welding USA, Inc. | Thyssen Union S2Si | UV421 TT |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 81 | UNIONMELT 651VF |
| | | SPOOLARC 81 | UNIONMELT 656 |
| | | SPOOLARC 81 | UNIONMELT 852 |
| | HILARIUS HAARLEM HOLLAND BV | H150Si | HILCO HW580 |
| | | HILCO H100Si | HILCO HW530 |
| | | HILCO H100Si | HILCO HW580 |
| | HYUNDAI WELDING PRODUCTS, INC. | M-12K | S-717 |
| | Lincoln Electric Co. | Lincolnweld L-61 | Lincolnweld 8500 |
| | | Lincolnweld L-61 | Lincolnweld 882 |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-61 | Lincolnweld 8500 |
| | | Lincolnweld L-61 | Lincolnweld 882 |
| F7A6-ENI1-NI1 | | | |
| | ESAB AB | OK Autrod 13.21 | OK Flux 10.62 |
| F7A6-ENI1K-NI1 | | | |
| | Lincoln Electric Co. | Lincolnweld LA-75 | Lincolnweld 880 |
| | | Lincolnweld LA-75 | Lincolnweld 880M |
| | | Lincolnweld LA-75 | Lincolnweld MIL800 |
| | | Lincolnweld LA-75 | Lincolnweld MIL800-H |
| F7A6-ENI5-NI5 | | | |
| | Lincoln Electric Co. | Lincolnweld LA-85 | Lincolnweld 8500 |
| | | Lincolnweld LA-85 | Lincolnweld 8500-H2 |
| | | Lincolnweld LA-85 | Lincolnweld 880M |
| F7A6-ECNI1-NI1 | | | |
| | ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD Ni1S | UNIONMELT 651VF |
| F7A6-ECNI2 | | | |
| | Lincoln Electric Company (Australia) Pty Ltd | LAC-Ni2 | Lincolnweld 880 |
| F7A6-ECNI2-NI2 | | | |
| | Lincoln Electric Co. | Lincolnweld LAC-Ni2 | Lincolnweld 880 |
| F7A8-ENI2-NI2 | | | |
| | ESAB AB | OK Autrod 13.27 | OK Flux 10.75 |
| F7A10-ECNI2 | | | |
| | Lincoln Electric Company (Australia) Pty Ltd | LAC-Ni2 | Lincolnweld 880M |
| F7A10-ECNI2-NI2 | | | |
| | Lincoln Electric Co. | Lincolnweld LAC-Ni2 | Lincolnweld 880M |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|-----------------------------------|--|--|-------------------------------------|
| F7P0-EA3-A3 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40 | UNIONMELT 80 |
| F7P0-EB3-B3 | Lincoln Electric Co. | Lincolnweld LA-93 Lincolnweld LA-93 | Lincolnweld 880M Lincolnweld 882 |
| F7P2-EL12 | HYUNDAI WELDING PRODUCTS, INC. | L-12 | S-727 |
| F7P2-EA1-A2 | Lincoln Electric Co. | Lincolnweld L-70 | Lincolnweld 860 |
| F7P2-EA2-A2 | ESAB AB | OK Autrod 12.24 OK Autrod 12.24 | OK Flux 10.71 OK Flux 10.75 |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40B SPOOLARC 40B | UNIONMELT 124 UNIONMELT 80 |
| F7P2-EA3-A3 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40 | UNIONMELT 124 |
| F7P2-EB2-B2 | Lincoln Electric Co. | Lincolnweld LA-92 Lincolnweld LA-92 | Lincolnweld 880M Lincolnweld 882 |
| F7P2-ENI1K-NI1 | Lincoln Electric Co. | Lincolnweld LA-75 | Lincolnweld 860 |
| F7P4-EA1 | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-70 | Lincolnweld 882 |
| F7P4-EA1-A2 | Lincoln Electric Co. | Lincolnweld L-70 | Lincolnweld 882 |
| F7P4-EA2-A2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40B | UNIONMELT 709-5 |
| F7P4-ENI5-NI5 | Lincoln Electric Co. | Lincolnweld LA-85 | Lincolnweld 882 |
| F7P5-ENI2-NI2 | ESAB AB | OK Autrod 13.27 | OK Flux 10.71 |
| F7P6-EM12K | HYUNDAI WELDING PRODUCTS, INC. | M-12K | S-717 |
| F7P6-EA2-A2 | ESAB AB | OK Autrod 12.24 | OK Flux 10.62 |
| F7P6-ENI1K-NI1 | Lincoln Electric Co. | Lincolnweld LA-75 | Lincolnweld 960 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|--|-----------------------|---------------------|
| F7P6-ENI5-NI5 | | | |
| | Lincoln Electric Co. | Lincolnweld LA-85 | Lincolnweld 8500 |
| | | Lincolnweld LA-85 | Lincolnweld 8500-H2 |
| | | Lincolnweld LA-85 | Lincolnweld 880M |
| | | Lincolnweld LA-85 | Lincolnweld 960 |
| F7P8-ENI1-NI1 | | | |
| | ESAB AB | OK Autrod 13.21 | OK Flux 10.62 |
| F7P8-EG-G | | | |
| | ESAB AB | OK Autrod 12.32 | OK Flux 10.62 |
| | | OK Autrod 13.30 | OK Flux 10.75 |
| F7P10-ENI2-NI2 | | | |
| | ESAB AB | OK Autrod 13.27 | OK Flux 10.75 |
| F7P10-EG-G | | | |
| | ESAB AB | OK Autrod 13.30 | OK Flux 10.62 |
| F7P10-ECNI2-NI2 | | | |
| | Lincoln Electric Co. | Lincolnweld LAC-Ni2 | Lincolnweld 880 |
| | | Lincolnweld LAC-Ni2 | Lincolnweld 880M |
| | | Lincolnweld LAC-Ni2 | Lincolnweld MIL800 |
| F8A0-EA1-G | | | |
| | Lincoln Electric Co. | Lincolnweld L-70 | Lincolnweld 997 |
| F8A0-EA3-A3 | | | |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40 | UNIONMELT 124 |
| | | SPOOLARC 40 | UNIONMELT 80 |
| F8A0-EA4-A4 | | | |
| | Bohler Thyssen Welding USA, Inc. | Thyssen S 3 Mo | Thyssen UV420TTR |
| F8A0-EG-G | | | |
| | ESAB AB | OK Autrod 13.36 | OK Flux 10.71 |
| F8A2-EA1 | | | |
| | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-70 | Lincolnweld 995 |
| F8A2-EA1-A4 | | | |
| | Lincoln Electric Co. | Lincolnweld L-70 | Lincolnweld 995 |
| F8A2-EA2-A2 | | | |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40B | UNIONMELT 429 |
| F8A2-EA3K-G | | | |
| | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 83 | UNIONMELT 851 |
| F8A2-ENI1K-G | | | |
| | Lincoln Electric Co. | Lincolnweld LA-75 | Lincolnweld 865 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|-----------------------------------|--|--|---|
| F8A2-ENI1K-NI1 | Lincoln Electric Co. | Lincolnweld LA-75 | Lincolnweld 960 |
| F8A2-EF2-F2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 44 | UNIONMELT 124 |
| F8A2-EW-W | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC WS SPOOLARC WS | UNIONMELT 429 UNIONMELT 709-5 |
| F8A2-EG-G | ESAB AB | OK Autrod 13.24 | OK Flux 10.71 |
| F8A2-ECNi2-Ni2 | Lincoln Electric Co. | Lincolnweld LAC-Ni2 | Lincolnweld 980 |
| F8A4-EA2-A2 | Bohler Thyssen Welding USA, Inc. ESAB AB HILARIUS HAARLEM HOLLAND BV | Thyssen S2Mo OK Autrod 12.24 HILCO H100Mo | UV421 TT OK Flux 10.71 HILCO HW580 |
| F8A4-EA3-A3 | Bohler Thyssen Welding USA, Inc. | Thyssen S4Mo | UV421 TT |
| F8A4-EA3-G | HYUNDAI WELDING PRODUCTS, INC. | A-3 | S-777MX |
| F8A4-EA3K-A4 | Lincoln Electric Co. | Lincolnweld LA-90 | Lincolnweld 880 |
| F8A4-EA4-A4 | Bohler Thyssen Welding USA, Inc. ESAB AB | Thyssen S3Mo OK Autrod 12.34 OK Autrod 12.34 | UV420 TTR OK Flux 10.71 OK Flux 10.75 |
| F8A4-ENI1K-G | Lincoln Electric Co. | Lincolnweld LA-75 | Lincolnweld MIL800-HPNi |
| F8A4-ENI2-Ni2 | ESAB AB | OK Autrod 13.27 | OK Flux 10.71 |
| F8A4-ENI4-Ni4 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC ENI4 | UNIONMELT 709-5 |
| F8A4-ECNi2 | Lincoln Electric Company (Australia) Pty Ltd | LAC-Ni2 | Lincolnweld 882 |
| F8A4-ECNi2-Ni2 | Lincoln Electric Co. | Lincolnweld LAC-Ni2 | Lincolnweld 882 |
| F8A6-EA2-A2 | ESAB AB | OK Autrod 12.24 | OK Flux 10.62 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|--|--|---|
| F8A6-ENI5-NI5 | Lincoln Electric Co. | Lincolnweld LA-85 | Lincolnweld MIL800-H |
| F8A6-ECNi2-Ni2 | ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD Ni2S | UNIONMELT 651VF |
| F8A8-EA3-A3 | HILARIUS HAARLEM HOLLAND BV | HILCO H200Mo | HILCO HW590 |
| F8A8-EA4-A4 | ESAB AB | OK Autrod 12.34 | OK Flux 10.62 |
| F8A8-ENI1-NI1 | Bohler Thyssen Welding USA, Inc. | Thyssen S2NiMo1 | UV421 TT |
| F8A8-ENI4-NI4 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC ENi4 | UNIONMELT 651 VF |
| F8A8-EG-G | ESAB AB | OK Autrod 12.32 OK Autrod 13.30 OK Autrod 13.30 | OK Flux 10.62 OK Flux 10.62 OK Flux 10.75 |
| F8A10-ENI2-Ni2 | Bohler Thyssen Welding USA, Inc. ESAB AB HILARIUS HAARLEM HOLLAND BV | Thyssen S 2 Ni 2.5 OK Autrod 13.27 HILCO H100Ni2 | Thyssen UV421TT OK Flux 10.62 HILCO HW580 |
| F8P10-ENI2-NI2 | ESAB AB HILARIUS HAARLEM HOLLAND BV | OK Autrod 13.27 HILCO H100Ni2 | OK Flux 10.62 HILCO HW580 |
| F8A10-ENI3-NI3 | Bohler Thyssen Welding USA, Inc. | Soudometal Soudor ENi3 | Soudometal Record SNi |
| F8A10-EG-G | ESAB AB | OK Autrod 13.24 | OK Flux 10.62 |
| F8A10-ECNi2-NI2 | Lincoln Electric Co. | Lincolnweld LAC-Ni2 | Lincolnweld MIL800 |
| F8P10-ECNi2-NI2 | ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD Ni2S | UNIONMELT 651VF |
| F8P15-ENI2-NI2 | Bohler Thyssen Welding USA, Inc. | Thyssen S 2 Ni 2.5 | Thyssen UV421TT |
| F8P15-ENI3-NI3 | Bohler Thyssen Welding USA, Inc. | Soudometal Soudor ENi3 | Soudometal Record SNi |
| F8AZ-EA3K-G | Lincoln Electric Co. | Lincolnweld LA-90 | Lincolnweld 985 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|-----------------------------------|--|---|--|
| F8P0-EA2-A2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40B | UNIONMELT 429 |
| F8P0-EB2-B2 | HILARIUS HAARLEM HOLLAND BV Lincoln Electric Co. | HILCO H100CrMo1 Lincolnweld LA-92 | HILCO HW580 Lincolnweld 8500 |
| F8P0-EB3-B3 | ESAB WELDING & CUTTING PRODUCTS HILARIUS HAARLEM HOLLAND BV | SPOOLARC U521 SPOOLARC U521 HILCO H100CrMo2 | UNIONMELT 709-5 UNIONMELT 80 HILCO HW580 |
| F8P2-EA4-A4 | ESAB AB | OK Autrod 12.34 | OK Flux 10.71 |
| F8P2-EB2-B2 | Bohler Thyssen Welding USA, Inc. Lincoln Electric Co. | Thyssen S 2 CrMo Lincolnweld LA-92 | Thyssen UV420TTR Lincolnweld MIL800-H |
| F8P2-EB3-B3 | ESAB AB | OK Autrod 13.20 OK Autrod 13.20 SC | OK Flux 10.62 OK Flux 10.62 |
| F8P2-ENI1K-G | Lincoln Electric Co. | Lincolnweld LA-75 | Lincolnweld 865 |
| F8P2-EF2-F2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 44 | UNIONMELT 124 |
| F8P2-EG-G | ESAB AB | OK Autrod 13.24 | OK Flux 10.71 |
| F8P4-EA3-A3 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 40 | UNIONMELT 0091 |
| F8P4-EA3-G | HYUNDAI WELDING PRODUCTS, INC. | A-3 | S-777MX |
| F8P4-EA3K-A4 | Lincoln Electric Co. | Lincolnweld LA-90 | Lincolnweld 880 |
| F8P4-EA4-A4 | ESAB AB | OK Autrod 12.34 | OK Flux 10.75 |
| F8P4-EB2-B2 | Lincoln Electric Co. | Lincolnweld LA-92 | Lincolnweld 8500-H2 |
| F8P4-ECNi2-Ni2 | Lincoln Electric Co. | Lincolnweld LAC-Ni2 | Lincolnweld 882 |
| F8P6-EA3K-A3 | Lincoln Electric Co. | Lincolnweld LA-90 Lincolnweld LA-90 | Lincolnweld 880M Lincolnweld MIL800 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|--|--------------------------------------|------------------------------------|
| F8P6-EA4-A4 | ESAB AB | OK Autrod 12.34 | OK Flux 10.62 |
| F8P6-EN15-N15 | Lincoln Electric Co. | Lincolnweld LA-85 | Lincolnweld MIL800-H |
| F8P8-EB3-B3 | ESAB AB | OK Autrod 13.20 SC | OK Flux 10.63 |
| F8P8-EN11-N11 | HILARIUS HAARLEM HOLLAND BV | HILCO H100Ni1 HILCO H100Ni1 | HILCO HW530 HILCO HW580 |
| F8P8-EG-G | ESAB AB | OK Autrod 13.24 | OK Flux 10.62 |
| F8PZ-EB2-G | Lincoln Electric Co. | Lincolnweld LA-92 | Lincolnweld 960 |
| F8PZ-ECB2-B2 | ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD B2S | UNIONMELT 80 |
| F9A0-EA1 | Lincoln Electric Company (Australia) Pty Ltd | Lincolnweld L-70 | Lincolnweld 761 |
| F9A0-EA1-G | Lincoln Electric Co. | Lincolnweld L-70 Lincolnweld L-70 | Lincolnweld 761 Lincolnweld 781 |
| F9A0-EB2-B2 | Lincoln Electric Co. | Lincolnweld LA-92 | Lincolnweld 882 |
| F9A2-EA3K-A3 | Lincoln Electric Co. | Lincolnweld LA-90 | Lincolnweld 8500 |
| F9A2-EA3K-G | Lincoln Electric Co. | Lincolnweld LA-90 | Lincolnweld 995N |
| F9A2-EB2-B2 | Lincoln Electric Co. | Lincolnweld LA-92 | Lincolnweld 880M |
| F9A2-EG-G | Lincoln Electric Co. | Lincolnweld LA-81 | Lincolnweld 995N |
| F9A2-ECB2 | Lincoln Electric Company (Australia) Pty Ltd | LAC-B2 | Lincolnweld 880M |
| F9A2-ECB2-B2 | Lincoln Electric Co. | Lincolnweld LAC-B2 | Lincolnweld MIL800 |
| F9A4-EA3K-A3 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 83 | UNIONMELT 695 |
| F9A4-EN14-N14 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC EN14 | UNIONMELT 429 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|----------------------------------|-----------------------|-------------------------|
| F9A4-ENI5-G | Lincoln Electric Co. | Lincolnweld LA-85 | Lincolnweld MIL800-HPNi |
| F9A4-EF3-F3 | Bohler Thyssen Welding USA, Inc. | Thyssen S 3 NiMo1 | Thyssen UV420TTR |
| F9A4-EM2-M2 | Lincoln Electric Co. | Lincolnweld LA-100 | Lincolnweld 880 |
| F9A6-EA3K-A3 | Lincoln Electric Co. | Lincolnweld LA-90 | Lincolnweld 880M |
| | | Lincolnweld LA-90 | Lincolnweld MIL800 |
| | | Lincolnweld LA-90 | Lincolnweld MIL800-H |
| F9A6-EF2-F2 | Lincoln Electric Co. | Lincolnweld LA-82 | Lincolnweld 8500 |
| F9A6-EM2-M2 | Lincoln Electric Co. | Lincolnweld LA-100 | Lincolnweld 880M |
| | | Lincolnweld LA-100 | Lincolnweld MIL800 |
| F9A8-EA3-A3 | ESAB AB | OK Autrod 12.44 | OK Flux 10.62 |
| F9A8-ENI4-NI4 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC ENI4 | UNIONMELT 651VF |
| | | SPOOLARC ENI4 | UNIONMELT 656 |
| F9A8-EF1-F1 | Bohler Thyssen Welding USA, Inc. | Thyssen S 3 NiMo | Thyssen UV420TTR |
| | HILARIUS HAARLEM HOLLAND BV | HILCO H150NiMo | HILCO HW580 |
| F9AZ-EB2-G | Lincoln Electric Co. | Lincolnweld LA-92 | Lincolnweld 960 |
| F9AZ-EG-G | Lincoln Electric Co. | Lincolnweld LA-81 | Lincolnweld 997 |
| F9P0-EB3-B3 | Lincoln Electric Co. | Lincolnweld LA-93 | Lincolnweld MIL800-H |
| F9P0-EB3-G | Lincoln Electric Co. | Lincolnweld LA-93 | Lincolnweld 960 |
| F9P2-EB2-B2 | ESAB AB | OK Autrod 13.10 | OK Flux 10.62 |
| F9P2-ECB2-B2 | Lincoln Electric Co. | Lincolnweld LAC-B2 | Lincolnweld 880 |
| | | Lincolnweld LAC-B2 | Lincolnweld 880M |
| | | Lincolnweld LAC-B2 | Lincolnweld MIL800 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|-----------------------------------|--|---|---|
| F9P2-EB3-B3 | Bohler Thyssen Welding USA, Inc. | Thyssen S 1 CrMo 2 | Thyssen UV420TTR |
| F9P2-ECB2 | Lincoln Electric Company (Australia) Pty Ltd | LAC-B2 | Lincolnweld 880 |
| F9P4-EB2-B2 | HILARIUS HAARLEM HOLLAND BV | HILCO H100CrMo1 | HILCO HW580 |
| F9P4-EB3-B3 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC U521 | UNIONMELT 124 |
| F9P4-EF2-F2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 44 | UNIONMELT 709-5 |
| F9P6-EA3K-A3 | Lincoln Electric Co. | Lincolnweld LA-90 | Lincolnweld MIL800-H |
| F9P6-EF2-F2 | Lincoln Electric Co. | Lincolnweld LA-82 Lincolnweld LA-82 | Lincolnweld 8500 Lincolnweld 882 |
| F9P8-EA3-A3 | ESAB AB | OK Autrod 12.44 | OK Flux 10.62 |
| F9PZ-EA3K-A3 | Lincoln Electric Co. | Lincolnweld LA-90 | Lincolnweld MIL800-H |
| F9PZ-EB2-B2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC U515 SPOOLARC U515 SPOOLARC U515 | UNIONMELT 0091 UNIONMELT 709-5 UNIONMELT 80 |
| F9PZ-EB6-B6 | Bohler Thyssen Welding USA, Inc. | Thyssen S 1 CrMo 5 | Thyssen UV420TTR |
| F9PZ-EB9-B9 | Bohler Thyssen Welding USA, Inc. | Thyssen MTS 3 | Thyssen Marathon 543 |
| F10A0-EB2-B2 | Lincoln Electric Co. | Lincolnweld LA-92 | Lincolnweld MIL800-H |
| F10A2-EA3K-G | Lincoln Electric Co. | Lincolnweld LA-90 | Lincolnweld 995 |
| F10A4-EM2-G | Lincoln Electric Co. | Lincolnweld LA-100 | Lincolnweld 960 |
| F10A4-EM2-M2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 44 | UNIONMELT 0091 |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|-----------------------------------|---|------------------------------|-------------------------|
| F10A6-EF2-F2 | Lincoln Electric Co. | Lincolnweld LA-82 | Lincolnweld 8500-H2 |
| | | Lincolnweld LA-82 | Lincolnweld 882 |
| | | Lincolnweld LA-82 | Lincolnweld MIL800-H |
| F10A6-EM2-M2 | Lincoln Electric Co. | Lincolnweld LA-100 | Lincolnweld MIL800-H |
| F10A6-EM2-M2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 95 | UNIONMELT 709-5 |
| | Lincoln Electric Co. | Lincolnweld LA-100 | Lincolnweld 8500-H2 |
| F10A8-EG-G | ESAB AB | OK Autrod 13.40 | OK Flux 10.62 |
| | | | |
| F10P2-ECF2-F2 | ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD F2S | UNIONMELT 709-5 |
| F10P4-EG-G | ESAB AB | OK Autrod 13.40 | OK Flux 10.62 |
| F10P6-EF2-F2 | Lincoln Electric Co. | Lincolnweld LA-82 | Lincolnweld 8500-H2 |
| | | Lincolnweld LA-82 | Lincolnweld MIL800-H |
| F10PZ-EB2-B2 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC U515 | UNIONMELT 0091 |
| F11A4-EF5-F5 | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 100 | UNIONMELT 651VF |
| | | SPOOLARC 100 | UNIONMELT 656 |
| | | SPOOLARC 100 | UNIONMELT 709-5 |
| F11A4-ECM3-M3 | ESAB WELDING & CUTTING PRODUCTS | ALLOY SHIELD M3S | UNIONMELT 651VF |
| F11A6-EM4-G | ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 120 | UNIONMELT 709-5 |
| F11A6-ECM2 | Lincoln Electric Company (Australia) Pty Ltd | LAC-M2 | Lincolnweld 880 |
| | | LAC-M2 | Lincolnweld 880M |
| F11A6-ECM2-M2 | ESAB WELDING & CUTTING PRODUCTS Lincoln Electric Co. | ALLOY SHIELD M2S | UNIONMELT 651VF |
| | | Lincolnweld LAC-M2 | Lincolnweld 880 |
| | | Lincolnweld LAC-M2 | Lincolnweld 880M |
| | | Lincolnweld LAC-M2 | Lincolnweld MIL800 |
| F11A8-EM2-M2 | Böhler Thyssen Welding USA, Inc. | Thyssen S 3 NiMoCr | Thyssen UV421TT |

A5.23/A5.23M-97, LOW-ALLOY STEEL Electrodes and Fluxes for Submerged Arc Welding (Part 2 - Typical Flux-Electrode Combinations)

See ANSI/AWS A5.23/A5.23M-97, Specification for Low Alloy Steel Electrodes and Fluxes for Submerged Arc Welding

| Flux-Electrode Designation | Source | Electrode Trade Names | Flux Trade Names |
|----------------------------|----------------------|--|-------------------------------------|
| F11A8-EG-G | ESAB AB | OK Autrod 13.43 | OK Flux 10.62 |
| F11AZ-EB3-B3 | Lincoln Electric Co. | Lincolnweld LA-93 Lincolnweld LA-93 | Lincolnweld 880M Lincolnweld 882 |
| F11P4-EG-G | ESAB AB | OK Autrod 13.43 | OK Flux 10.62 |
| F11P6-ECM2-M2 | Lincoln Electric Co. | Lincolnweld LAC-M2 | Lincolnweld 880M |
| F12AZ-EB3-B3 | Lincoln Electric Co. | Lincolnweld LA-93 | Lincolnweld MIL800-H |
| F12AZ-EB3-G | Lincoln Electric Co. | Lincolnweld LA-93 | Lincolnweld 960 |

A5.24-90, ZIRCONIUM and ZIRCONIUM ALLOY Bare Welding Electrodes and Rods

See ANSI/AWS A5.24-90, Specification for Zirconium and Zirconium Alloy Welding Electrodes and Rods

ERZr2

| SOURCE | PRODUCT |
|--------------------------------|-----------------|
| American Filler Metals Company | AFM ERZr2 |
| Astrolite Alloys | Astrolite ERZr2 |
| Inweld Corporation | INWELD XR702 |
| Nippon Welding Rod Co., Ltd. | WEL TIG Zr-2 |
| Oxford Alloys, Inc. | OXFORD ERZr2 |
| Washington Alloy Company | Zirc 702 |

A5.26/A5.26M-97, ELECTROGAS Welding Consumables

See ANSI/AWS A5.26/A5.26M-97, Specification for Carbon and Low Alloy Steel Electrodes for ElectroGas Welding

EG72T-1

| SOURCE | PRODUCT |
|--------|---------|
|--------|---------|

| | |
|----------------------|--------------------|
| Lincoln Electric Co. | Innershield NR-431 |
|----------------------|--------------------|

EG82T-G

| SOURCE | PRODUCT |
|--------|---------|
|--------|---------|

| | |
|----------------------|--------------------|
| Lincoln Electric Co. | Innershield NR-432 |
|----------------------|--------------------|

A5.28-96, LOW-ALLOY STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.28-96, Specification for Low Alloy Steel Filler Metals for Gas Shielded Arc Welding

ER80S-B2

| SOURCE | PRODUCT |
|-----------------------------------|--|
| American Filler Metals Company | AFM 80S-B2 |
| American Welding Alloys | AWA 80S-B2 |
| Astrolite Alloys | Astrolite ER80S-B2 |
| Bohler Thyssen Welding USA, Inc. | UTP A641 |
| Champion Welding Products | CHAMPION ER80S-B2 |
| Crown Alloys Company | Crown #15 |
| ELGA AB | ELGATIG 183 CR, ELGATIG 184 CR, ELGAMATIC 183 CR |
| Euroweld, Ltd. | ER80S-B2 |
| HARRIS WELCO | WELCO ER80S-B2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG CrMo1-AWS |
| Inweld Corporation | INWELD 80S-B2 |
| LANCASTER ALLOYS COMPANY | LAC L108, L108B |
| Midalloy, Inc. | Midalloy ER80S-B2 |
| Nassau Research Corp. | Polaris |
| NATWELD | ER80S-B2 |
| Oxford Alloys, Inc. | OXFORD ER80S-B2 |
| SOWESCO | Pinnacle Alloys ER80S-B2 |
| Techalloy Company, Inc. | RACO 80S-B2 |
| UNITED STATES WELDING CORPORATION | TURBALOY 515 |
| Uniweld Products, Inc. | UNICHROME 80SB2 |
| Washington Alloy Company | 80S-B2 |
| Weld Mold Company | 215 |
| WELDWIRE COMPANY INC. | WW 80SB-2 |

ER70S-B2L

| SOURCE | PRODUCT |
|--------------------------------|----------------|
| American Filler Metals Company | AFM 70S-B2L |
| American Welding Alloys | AWA 80S-B2L |
| Euroweld, Ltd. | ER70S-B2L |
| Inweld Corporation | INWELD 80S-B2L |
| Nassau Research Corp. | Polaris |
| Washington Alloy Company | USA 70S-B2L |

A5.28-96, LOW-ALLOY STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.28-96, Specification for Low Alloy Steel Filler Metals for Gas Shielded Arc Welding

ER90S-B3

| SOURCE | PRODUCT |
|-----------------------------------|--------------------------|
| American Filler Metals Company | AFM 90S-B3 |
| American Welding Alloys | AWA 90S-B3 |
| Bohler Thyssen Welding USA, Inc. | UTP A640 |
| Champion Welding Products | CHAMPION ER90S-B3 |
| Crown Alloys Company | Crown #21 |
| Euroweld, Ltd. | ER90S-B3 |
| HARRIS WELCO | WELCO ER90S-B3 |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG CrMo2-AWS |
| Inweld Corporation | INWELD 90S-B3 |
| LANCASTER ALLOYS COMPANY | LAC L177, L177B |
| Midalloy, Inc. | Midalloy ER90S-B3 |
| NATWELD | ER90S-B3 |
| Oxford Alloys, Inc. | OXFORD ER90S-B3 |
| SOWESCO | Pinnacle Alloys ER90S-B3 |
| Techalloy Company, Inc. | RACO 90S-B3 |
| UNITED STATES WELDING CORPORATION | TURBALOY 521 |
| Uniweld Products, Inc. | UNICHROME 90SB3 |
| Washington Alloy Company | 90S-B3 |
| Weld Mold Company | 225 |
| WELDWIRE COMPANY INC. | WW 90SB-3 |

ER80S-B3L

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| American Filler Metals Company | AFM 80S-B3L |
| American Welding Alloys | AWA 90S-B3L |
| Euroweld, Ltd. | ER80S-B3L |
| Inweld Corporation | INWELD 90S-B3L |
| Washington Alloy Company | USA 80S-B3L |

ER80S-B6

| SOURCE | PRODUCT |
|----------------------------------|--------------------------|
| American Filler Metals Company | AFM 80S-B6 |
| American Welding Alloys | AWA ER80S-B6 |
| Champion Welding Products | CHAMPION ER80S-B6 |
| Euroweld, Ltd. | ER80S-B6 |

A5.28-96, LOW-ALLOY STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.28-96, Specification for Low Alloy Steel Filler Metals for Gas Shielded Arc Welding

ER80S-B6 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------|-----------------|
| HILARIUS HAARLEM HOLLAND BV | HILCO SG CrMo5 |
| Oxford Alloys, Inc. | OXFORD ER80S-B6 |
| Washington Alloy Company | USA 502, 80S-B6 |
| WELDWIRE COMPANY INC. | WW 80SB-6 |

ER80S-B8

| SOURCE | PRODUCT |
|----------------------------------|-------------------|
| American Filler Metals Company | AFM 80S-B8 |
| Bohler Thyssen Welding USA, Inc. | UTP A649 |
| Champion Welding Products | CHAMPION ER80S-B8 |
| Euroweld, Ltd. | ER80S-B8 |
| Oxford Alloys, Inc. | OXFORD ER80S-B8 |
| Washington Alloy Company | USA 505, 80S-B8 |
| WELDWIRE COMPANY INC. | WW 80SB-8 |

ER90S-B9

| SOURCE | PRODUCT |
|-----------------------------------|-------------------|
| American Filler Metals Company | AFM 90S-B9 |
| American Welding Alloys | AWA ER90S-B9 |
| Bohler Thyssen Welding USA, Inc. | Thyssen MTS 3 |
| Champion Welding Products | CHAMPION ER90S-B9 |
| Euroweld, Ltd. | ER90S-B9 |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG CrMo9 |
| Oxford Alloys, Inc. | OXFORD ER90S-B9 |
| UNITED STATES WELDING CORPORATION | TURBALOY 91 |
| Washington Alloy Company | USA 90S-B9 |
| WELDWIRE COMPANY INC. | WW 90SB-9 |

ER80S-Ni1

| SOURCE | PRODUCT |
|----------------------------------|--------------------|
| American Filler Metals Company | AFM 80S-Ni1 |
| American Welding Alloys | AWA ER80S-Ni1 |
| Bohler Thyssen Welding USA, Inc. | Thyssen K5Ni |
| Champion Welding Products | CHAMPION ER80S-Ni1 |
| ELGA AB | ELGATIG 162 |
| Euroweld, Ltd. | ER80S-Ni1 |

A5.28-96, LOW-ALLOY STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.28-96, Specification for Low Alloy Steel Filler Metals for Gas Shielded Arc Welding

ER80S-Ni1 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------|-----------------------------------|
| HILARIUS HAARLEM HOLLAND BV | HILCO SG Ni 1 |
| Lincoln Electric Co. | Lincolnweld LA-75, SuperArc LA-75 |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD ER80S-Ni1 |
| SOWESCO | Pinnacle Alloys ER80S-Ni1 |
| Washington Alloy Company | 80S-Ni1 |

ER80S-Ni2

| SOURCE | PRODUCT |
|----------------------------------|---------------------------|
| American Filler Metals Company | AFM 80S-Ni2 |
| American Welding Alloys | AWA 80S-Ni |
| Bohler Thyssen Welding USA, Inc. | Thyssen Ni 2.5, I 2.5 Ni |
| Euroweld, Ltd. | ER30S-Ni2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG Ni2,5 |
| Lincoln Electric Co. | LNM/LNT Ni2.5 |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD ER80S-Ni2 |
| SOWESCO | Pinnacle Alloys ER80S-Ni2 |
| Washington Alloy Company | 80S-Ni2 |

ER80S-Ni3

| SOURCE | PRODUCT |
|-----------------------------------|---|
| American Welding Alloys | AWA 80S-Ni3 |
| Astrolite Alloys | Astrolite ER80S-Ni3 |
| Bohler Thyssen Welding USA, Inc. | Soudometal Soudour G ENi3, Soudometal SoudoTig ENi3 |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG Ni3 |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD ER80S-Ni3 |
| UNITED STATES WELDING CORPORATION | TURBALOY 803 |
| Washington Alloy Company | 80S-Ni3 |

ER80S-D2

| SOURCE | PRODUCT |
|--------------------------------|--------------|
| Airco Filler Metals | Easy-Feed D2 |
| American Filler Metals Company | AFM 80S-D2 |
| American Welding Alloys | AWA 80S-D2 |

A5.28-96, LOW-ALLOY STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.28-96, Specification for Low Alloy Steel Filler Metals for Gas Shielded Arc Welding

ER80S-D2 (Continued from previous page)

| SOURCE | PRODUCT |
|------------------------------------|-----------------------------------|
| Astrolite Alloys | Astrolite ER80S-D2 |
| Champion Welding Products | CHAMPION ER80S-D2 |
| Cronatron Welding Systems | Cronamig ER80S-D2 |
| Crown Alloys Company | Crown #8 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 83; HI-84 |
| Euroweld, Ltd. | ER80S-D2 |
| HARRIS WELCO | WELCO ER80S-D2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG Mo-AWS |
| Hobart Welding Products | HB-18 |
| Inweld Corporation | INWELD 80S-D2 |
| LANCASTER ALLOYS COMPANY | LAC L138, L138B |
| Lincoln Electric Co. | Lincolnweld LA-90, SuperArc LA-90 |
| Messer - MG Systems & Welding Inc. | MG 80SD2 |
| Midalloy, Inc. | Midalloy ER80S-D2 |
| Murex Welding Products | Murematic D2 |
| Nassau Research Corp. | Polaris |
| National-Standard | NS-102 |
| NATWELD | ER80S-D2 |
| Oxford Alloys, Inc. | OXFORD ER80S-D2 |
| SOWESCO | Pinnacle Alloys ER80S-D2 |
| Techalloy Company, Inc. | RACO 80S-D2 |
| UNITED STATES WELDING CORPORATION | TURBALOY 802 |
| Uniweld Products, Inc. | STEELTIG 80SD2, STEELMIG 80SD2 |
| Washington Alloy Company | 80S-D2 |
| Weld Mold Company | 210 |
| WELDWIRE COMPANY INC. | WW 80SD-2 |

ER90S-D2

| SOURCE | PRODUCT |
|------------------------|-----------------------------------|
| Airco Filler Metals | Easy-Feed D2 |
| Lincoln Electric Co. | Lincolnweld LA-90, SuperArc LA-90 |
| Murex Welding Products | Murematic D2 |

A5.28-96, LOW-ALLOY STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.28-96, Specification for Low Alloy Steel Filler Metals for Gas Shielded Arc Welding

ER100S-1

| SOURCE | PRODUCT |
|-----------------------------------|--------------------------------|
| American Filler Metals Company | AFM 100S-1 |
| American Welding Alloys | AWA 100S-1 |
| Bohler Thyssen Welding USA, Inc. | Thyssen NiMoCr |
| Champion Welding Products | CHAMPION ER100S-1 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 95 |
| HILARIUS HAARLEM HOLLAND BV | HILCO SG FK1 |
| Inweld Corporation | INWELD 100S-1 |
| LANCASTER ALLOYS COMPANY | LAC L132, L132B |
| Oxford Alloys, Inc. | OXFORD ER100S-1 |
| Polymet Corporation | PMet 705 |
| UNITED STATES WELDING CORPORATION | TURBALOY 100 |
| Uniweld Products, Inc. | STEELTIG 100S1, STEELMIG 100S1 |
| Washington Alloy Company | 100S-1 |
| WELDWIRE COMPANY INC. | WW 100S-1 |

ER110S-1

| SOURCE | PRODUCT |
|----------------------------------|-------------------|
| American Filler Metals Company | AFM 110S-1 |
| American Welding Alloys | AWA 110S-1 |
| Bohler Thyssen Welding USA, Inc. | Thyssen X85 |
| Champion Welding Products | CHAMPION ER110S-1 |
| Euroweld, Ltd. | ER110S-1 |
| Inweld Corporation | INWELD 110S-1 |
| Techalloy Company, Inc. | RACO 110S-1 |
| Washington Alloy Company | 110S-1 |
| WELDWIRE COMPANY INC. | WW 110S-1 |

ER120S-1

| SOURCE | PRODUCT |
|----------------------------------|-------------------|
| American Filler Metals Company | AFM 120S-1 |
| American Welding Alloys | AWA 120S-1 |
| Bohler Thyssen Welding USA, Inc. | Thyssen X90, X96 |
| Champion Welding Products | CHAMPION ER120S-1 |
| ESAB WELDING & CUTTING PRODUCTS | SPOOLARC 120 |
| Euroweld, Ltd. | ER120S-1 |

A5.28-96, LOW-ALLOY STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.28-96, Specification for Low Alloy Steel Filler Metals for Gas Shielded Arc Welding

ER120S-1 (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------------------|------------------------|
| Inweld Corporation | INWELD 120S-1 |
| LANCASTER ALLOYS COMPANY | LAC L118, L118B |
| Oxford Alloys, Inc. | OXFORD ER120S-1 |
| Techalloy Company, Inc. | RACO 120S-1 |
| UNITED STATES WELDING CORPORATION | TURBALOY 120 |
| Washington Alloy Company | 120S-1 |
| WELDWIRE COMPANY INC. | WW 120S-1 |

E70C-B2L

| SOURCE | PRODUCT |
|------------------|----------------|
| Euroweld, Ltd. | E702C-B2L |
| Select-Arc, Inc. | Select 80C-B2L |

E80C-B2

| SOURCE | PRODUCT |
|-----------------------------|-------------------|
| Euroweld, Ltd. | E80C-B2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 61M |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD E80C-B2 |
| Select-Arc, Inc. | Select 80C-B2 |

E80C-B3L

| SOURCE | PRODUCT |
|------------------|----------------|
| Euroweld, Ltd. | E80C-B3L |
| Select-Arc, Inc. | Select 90C-B3L |

E90C-B3

| SOURCE | PRODUCT |
|---------------------|----------------|
| Euroweld, Ltd. | E90C-B3 |
| Oxford Alloys, Inc. | OXFORD E90C-B3 |
| Select-Arc, Inc. | Select 90C-B3 |

E80C-Ni1

| SOURCE | PRODUCT |
|-----------------------|----------------|
| Euroweld, Ltd. | E80C- Ni1 |
| Nassau Research Corp. | Polaris |
| Select-Arc, Inc. | Select 80C-Ni1 |

A5.28-96, LOW-ALLOY STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.28-96, Specification for Low Alloy Steel Filler Metals for Gas Shielded Arc Welding

E80C-NI2

| SOURCE | PRODUCT |
|-----------------------|----------------|
| Nassau Research Corp. | Polaris |
| Select-Arc, Inc. | Select 80C-Ni2 |

E80C-NI3

| SOURCE | PRODUCT |
|-----------------------|---------|
| Nassau Research Corp. | Polaris |

ER80S-G

| SOURCE | PRODUCT |
|--------------------------|---------------------------------|
| ELGA AB | ELGAMATIC 140, ELGAMATIC 181 CR |
| Lincoln Electric Co. | LNM 28 |
| Washington Alloy Company | 80S-G |
| Washington Alloy Company | USA 80S-G |

ER90S-G

| SOURCE | PRODUCT |
|--------------------------|-------------------|
| Airco Filler Metals | Easy-Feed D2 |
| ELGA AB | ELGAMATIC 184 CR |
| Euroweld, Ltd. | 505 MOD |
| Lincoln Electric Co. | Lincolnweld LA-90 |
| Murex Welding Products | Murematic D2 |
| Washington Alloy Company | 90S-G |
| Washington Alloy Company | USA 90S-G |

ER100S-G

| SOURCE | PRODUCT |
|-----------------------------|--|
| ELGA AB | ELGAMATIC 133, ELGAMATIC 135, ALUTIG 135 |
| HILARIUS HAARLEM HOLLAND BV | HILCO K80 |
| Lincoln Electric Co. | Lincolnweld LA-100, LNM Moniva |
| Washington Alloy Company | 100S-G |
| Washington Alloy Company | USA 100S-G |

ER110S-G

| SOURCE | PRODUCT |
|--------------------------|-------------------------------------|
| Lincoln Electric Co. | Lincolnweld LA-100, SuperArc LA-100 |
| Washington Alloy Company | 110S-G |

A5.28-96, LOW-ALLOY STEEL Filler Metals for Gas Shielded Arc Welding

See ANSI/AWS A5.28-96, Specification for Low Alloy Steel Filler Metals for Gas Shielded Arc Welding

ER110S-G (Continued from previous page)

| SOURCE | PRODUCT |
|--------------------------|------------|
| Washington Alloy Company | USA 110S-G |

ERXXS-G

| SOURCE | PRODUCT |
|----------------------------------|--|
| Bohler Thyssen Welding USA, Inc. | Thyssen I Mo, I CrMo, I Chromo 5, I CrMo 910 |
| Euroweld, Ltd. | ER120S-G |
| HILARIUS HAARLEM HOLLAND BV | HILCO Corten |
| Techalloy Company, Inc. | RACO AK-10 |
| Washington Alloy Company | 120S-G |

E90C-G

| SOURCE | PRODUCT |
|----------------------|--------------------|
| Euroweld, Ltd. | E90C-G |
| Lincoln Electric Co. | Outershield MC-900 |
| Select-Arc, Inc. | Select 90C-M2 |

E100C-G

| SOURCE | PRODUCT |
|------------------|-------------|
| Select-Arc, Inc. | Select 100C |

E110C-G

| SOURCE | PRODUCT |
|-----------------------------|-----------------------------|
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 59M |
| Lincoln Electric Co. | Outershield MC-100, MC-1100 |
| Select-Arc, Inc. | Select 110C-M2 |

E120C-G

| SOURCE | PRODUCT |
|----------------------|-----------------------|
| Lincoln Electric Co. | Outershield MC-120-55 |

EXXC-G

| SOURCE | PRODUCT |
|-----------------------------|---------------------------------------|
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 60M |
| Select-Arc, Inc. | Select 80C-D2, 80C-W, 90C-M2, 110C-M2 |

A5.29-98, LOW-ALLOY STEEL Flux Cored Welding Electrodes

See ANSI/AWS A5.29-98, Specification for Low Alloy Steel Electrodes for Flux Cored Arc Welding

E70T5-A1

| SOURCE | PRODUCT |
|----------------------------|--------------------|
| Nassau Research Corp. | Tartan |
| Welding Alloys (USA), Inc. | SPEEDARC X71-T5-A1 |

E80T1-A1

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 78 Mo |
| Nassau Research Corp. | Polaris |
| Select-Arc, Inc. | Select 81-A1 |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T1-A1 |

E81T1-A1

| SOURCE | PRODUCT |
|---------------------------------|--------------------------|
| COREX | VERTI-COR 81A1 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 7000-A1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 60R |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD E81T1-A1 |
| Select-Arc, Inc. | Select 810-A1 |
| SOWESCO | Pinnacle Alloys E81T1-A1 |
| TRIMARK | TM811A1 |
| Welding Alloys (USA), Inc. | SPEEDARC X81-T1-A1 |

E81T1-B1

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 8000-B1 |
| Nassau Research Corp. | Polaris |
| Welding Alloys (USA), Inc. | SPEEDARC X81-T1-B1 |

E80T5-B2L

| SOURCE | PRODUCT |
|----------------------------|---|
| Nassau Research Corp. | Polaris |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T5-B2, SPEEDARC X80-T5-B2L |

E80T1-B2

| SOURCE | PRODUCT |
|---------------------------------|------------------------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 88-CM; DUAL SHIELD 151 |

A5.29-98, LOW-ALLOY STEEL Flux Cored Welding Electrodes

See ANSI/AWS A5.29-98, Specification for Low Alloy Steel Electrodes for Flux Cored Arc Welding

E80T1-B2 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|--------------------|
| Nassau Research Corp. | Polaris |
| Select-Arc, Inc. | Select 81-B2 |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T1-B2 |

E81T1-B2

| SOURCE | PRODUCT |
|--|---|
| American Filler Metals Company | AFM E81T1-B2 |
| COREX | VERTI-COR 81B2 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 8000-B2; DUAL SHIELD 8000 B2L |
| Euroweld, Ltd. | E81T1-B2 |
| Lincoln Electric Co. | Outershield 81B2-H |
| Lincoln Electric Company (Australia) Pty Ltd | Outershield 81B2-H |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD E81T1-B2 |
| Select-Arc, Inc. | Select 810-B2 |
| SOWESCO | Pinnacle Alloys E81T1-B2 |
| TRIMARK | TM811B2 |
| Welding Alloys (USA), Inc. | SPEEDARC X81-T1-B2 |

E80T5-B2

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD T85-B2 |
| HILARIUS HAARLEM HOLLAND BV | HILCO HILCORD 61 |
| Select-Arc, Inc. | Select 85-B2 |

E80T1-B2H

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 80CM-MC |
| Nassau Research Corp. | Polaris |
| Select-Arc, Inc. | Select 81-B2H |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T1-B2H |

E90T1-B3L

| SOURCE | PRODUCT |
|----------------------------|---|
| Select-Arc, Inc. | Select 91-B3L |
| Welding Alloys (USA), Inc. | SPEEDARC X90-T1-B3, SPEEDARC X90-T1-B3L |

A5.29-98, LOW-ALLOY STEEL Flux Cored Welding Electrodes

See ANSI/AWS A5.29-98, Specification for Low Alloy Steel Electrodes for Flux Cored Arc Welding

E90T1-B3

| SOURCE | PRODUCT |
|---|-----------------------------------|
| ESAB WELDING & CUTTING PRODUCTS Select-Arc, Inc. | DUAL SHIELD 98-CM Select 91-B3 |

E91T1-B3

| SOURCE | PRODUCT |
|---------------------------------|---|
| American Filler Metals Company | AFM 91T1-B3 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 9000-B3; DUAL SHIELD 9000 B3L |
| Euroweld, Ltd. | E91T1-B3 |
| Oxford Alloys, Inc. | OXFORD E91T1-B3 |
| Select-Arc, Inc. | Select 910-B3 |
| SOWESCO | Pinnacle Alloys E91T1-B3 |
| TRIMARK | TM911B3 |
| Welding Alloys (USA), Inc. | SPEEDARC X91-T1-B3 |

E90T5-B3

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD T-95-B3 |
| Welding Alloys (USA), Inc. | SPEEDARC X90-T5-B3 |

E100T1-B3

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| Welding Alloys (USA), Inc. | SPEEDARC X100-T1-B3 |

E90T1-B3H

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| Select-Arc, Inc. | Select 91-B3H |
| Welding Alloys (USA), Inc. | SPEEDARC X90-T1-B3H |

E71T8-Ni1

| SOURCE | PRODUCT |
|---------------------------------|--|
| Arctec Alloys Limited | ARCTEC FCS 225 N |
| ESAB WELDING & CUTTING PRODUCTS | CORESHIELD 8Ni1 |
| Lincoln Electric Co. | Innershield NR-203 Nickel (1%), NR-203 Nickel (1%)-H |
| Nassau Research Corp. | Tartan |

A5.29-98, LOW-ALLOY STEEL Flux Cored Welding Electrodes

See ANSI/AWS A5.29-98, Specification for Low Alloy Steel Electrodes for Flux Cored Arc Welding

E80T1-Ni1

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 88-C3 |
| Nassau Research Corp. | Polaris |
| Select-Arc, Inc. | Select 81-Ni1 |
| TRIMARK | TM81N1 |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T1Ni1 |

E81T1-Ni1

| SOURCE | PRODUCT |
|--|---------------------------|
| AIR LIQUIDE CANADA INC. | LA T-91 C60 Ni1 |
| American Filler Metals Company | AFM 81T1-Ni1 |
| Arctec Alloys Limited | ARCTEC FCS 223N |
| COREX | VERTI-COR II Ni1 |
| ELGA AB | ELGACORE DWA 55 LSR |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD II-80Ni1 |
| Euroweld, Ltd. | E81T1-Ni1 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilcord 43 |
| Hobart Welding Products | FORMULA XL-8Ni1 |
| Lincoln Electric Co. | Outershield 81Ni1-H |
| Lincoln Electric Company (Australia) Pty Ltd | Outershield 81Ni1-H |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD E81T1-Ni1 |
| Select-Arc, Inc. | Select 810-Ni1 |
| SOWESCO | Pinnacle Alloys E81T1-Ni1 |
| TRIMARK | TM811N1 |
| Welding Alloys (USA), Inc. | SPEEDARC X81-T1-Ni1 |

E80T5-Ni1

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD T85-Ni1 |
| Nassau Research Corp. | Polaris |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T5-Ni1 |

E71T8-Ni2

| SOURCE | PRODUCT |
|-----------------------|--|
| Lincoln Electric Co. | Innershield NR-450, NR-450-H, NR-460-H |
| Nassau Research Corp. | Tartan |

A5.29-98, LOW-ALLOY STEEL Flux Cored Welding Electrodes

See ANSI/AWS A5.29-98, Specification for Low Alloy Steel Electrodes for Flux Cored Arc Welding

E80T1-Ni2

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| Nassau Research Corp. | Polaris |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T1-Ni2 |

E81T1-Ni2

| SOURCE | PRODUCT |
|---------------------------------|---------------------------|
| American Filler Metals Company | AFM 81T1-Ni2 |
| COREX | VERTI-COR 81Ni2 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 8000-Ni2 |
| Nassau Research Corp. | Polaris |
| Oxford Alloys, Inc. | OXFORD E81T1-Ni2 |
| Select-Arc, Inc. | Select 810-Ni2 |
| SOWESCO | Pinnacle Alloys E81T1-Ni2 |
| TRIMARK | TM811N2 |
| Welding Alloys (USA), Inc. | SPEEDARC X81-T1-Ni2 |

E80T5-Ni2

| SOURCE | PRODUCT |
|---------------------------------|--|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 85-C1; DUAL SHIELD T85-Ni2 |
| Nassau Research Corp. | Polaris |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T5-Ni2 |

E81T8-Ni2

| SOURCE | PRODUCT |
|----------------------|--------------------|
| Lincoln Electric Co. | Innershield NR-550 |

E90T1-Ni2

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD T90-C1 |
| Select-Arc, Inc. | Select 91-Ni2 |
| Welding Alloys (USA), Inc. | SPEEDARC X90-T1-Ni2 |

E91T1-Ni2

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| COREX | VERTI-COR 91Ni2 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 9000-C1 |
| Select-Arc, Inc. | Select 910-Ni2 |

A5.29-98, LOW-ALLOY STEEL Flux Cored Welding Electrodes

See ANSI/AWS A5.29-98, Specification for Low Alloy Steel Electrodes for Flux Cored Arc Welding

E91T1-Ni2 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| TRIMARK | TM911N2 |
| Welding Alloys (USA), Inc. | SPEEDARC X91-T1-Ni2 |

E91T8-Ni2

| SOURCE | PRODUCT |
|----------------------|----------------------|
| Lincoln Electric Co. | Innershield NR-460-H |

E80T5-Ni3

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| Nassau Research Corp. | Polaris |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T5-Ni3 |

E90T5-Ni3

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| Welding Alloys (USA), Inc. | SPEEDARC X90-T5-Ni3 |

E91T1-D1

| SOURCE | PRODUCT |
|---------------------------------|---------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 9000-D1 |
| Welding Alloys (USA), Inc. | SPEEDARC X91-T1-D1 |

E90T5-D2

| SOURCE | PRODUCT |
|----------------------------|--------------------|
| Welding Alloys (USA), Inc. | SPEEDARC X90-T5-D2 |

E100T5-D2

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| COREX | TUF-COR 105D2 |
| Select-Arc, Inc. | Select 105-D2 |
| TRIMARK | TM105D2 |
| Welding Alloys (USA), Inc. | SPEEDARC X100-T5-D2 |

E90T1-D3

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 150 |
| Select-Arc, Inc. | Select 91-D3 |
| TRIMARK | TM91D3 |
| Welding Alloys (USA), Inc. | SPEEDARC X90-T1-D3 |

A5.29-98, LOW-ALLOY STEEL Flux Cored Welding Electrodes

See ANSI/AWS A5.29-98, Specification for Low Alloy Steel Electrodes for Flux Cored Arc Welding

E90T1-D3 (Continued from previous page)

| SOURCE | PRODUCT |
|--------|---------|
|--------|---------|

E80T5-K1

| SOURCE | PRODUCT |
|--------|---------|
|--------|---------|

| | |
|---------------------------------|--------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 85-NM |
| Nassau Research Corp. | Polaris |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T5-K1 |

E70T4-K2

| SOURCE | PRODUCT |
|--------|---------|
|--------|---------|

| | |
|----------------------------|--------------------|
| Nassau Research Corp. | Tartan |
| Welding Alloys (USA), Inc. | SPEEDARC X70-T4-K2 |

E70T7-K2

| SOURCE | PRODUCT |
|--------|---------|
|--------|---------|

| | |
|----------------------|----------------------|
| Lincoln Electric Co. | Innershield NR-311Ni |
|----------------------|----------------------|

E71T7-K2

| SOURCE | PRODUCT |
|--------|---------|
|--------|---------|

| | |
|----------------------|----------------------|
| Lincoln Electric Co. | Innershield NR-311Ni |
|----------------------|----------------------|

E71T8-K2

| SOURCE | PRODUCT |
|--------|---------|
|--------|---------|

| | |
|-----------------------|--------|
| Nassau Research Corp. | Tartan |
|-----------------------|--------|

E80T1-K2

| SOURCE | PRODUCT |
|--------|---------|
|--------|---------|

| | |
|--|--------------------------|
| ELGA AB | ELGACORE DWA 55 L |
| Euroweld, Ltd. | E80T1-K2 |
| HYUNDAI WELDING PRODUCTS, INC. | SUPERCORED 81-K2 |
| Lincoln Electric Co. | Outershield 81K2-H |
| Lincoln Electric Company (Australia) Pty Ltd | Outershield 81K2-H |
| Nassau Research Corp. | Polaris |
| Select-Arc, Inc. | Select 812-K2 |
| SOWESCO | Pinnacle Alloys E80T1-K2 |
| TRIMARK | TM881K2 |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T1-K2 |

A5.29-98, LOW-ALLOY STEEL Flux Cored Welding Electrodes

See ANSI/AWS A5.29-98, Specification for Low Alloy Steel Electrodes for Flux Cored Arc Welding

E81T1-K2

| SOURCE | PRODUCT |
|----------------------|--------------------|
| Lincoln Electric Co. | Outershield 81K2-H |

E90T1-K2

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| COREX | FLUX-COR 90K2 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 98 |
| Select-Arc, Inc. | Select 91-K2 |
| TRIMARK | TM91K2 |
| Welding Alloys (USA), Inc. | SPEECARC X90-T1-K2 |

E91T1-K2

| SOURCE | PRODUCT |
|--|--|
| AIR LIQUIDE CANADA INC. | LA T-91 K2 |
| COREX | VERTI-COR 91K2 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 9100-K2; 9000-M; II 101TM; II 90K2; II 101TC |
| Lincoln Electric Co. | Outershield 91K2-H |
| Lincoln Electric Company (Australia) Pty Ltd | Outershield 91K2-H |
| Select-Arc, Inc. | Select 910 K2 |
| TRIMARK | TM991K2 |
| Welding Alloys (USA), Inc. | SPEEDARC X91-T1-K2 |

E80T5-K2

| SOURCE | PRODUCT |
|----------------------------|--------------------|
| Nassau Research Corp. | Polaris |
| Welding Alloys (USA), Inc. | SPEEDARC X80-T5-K2 |

E90T5-K2

| SOURCE | PRODUCT |
|---------------------------------|--------------------|
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD T95-M |
| TRIMARK | TM95K2 |
| Welding Alloys (USA), Inc. | SPEEDARC X90-T5-K2 |

E70TG-K2

| SOURCE | PRODUCT |
|----------------------|----------------------|
| Lincoln Electric Co. | Innershield NR-311Ni |

A5.29-98, LOW-ALLOY STEEL Flux Cored Welding Electrodes

See ANSI/AWS A5.29-98, Specification for Low Alloy Steel Electrodes for Flux Cored Arc Welding

E100T1-K3

| SOURCE | PRODUCT |
|---------------------------------|---------------------------------------|
| COREX | FLUX-COR 100K3 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD T-100, DUAL SHIELD II 100 |
| Select-Arc, Inc. | Select 100-K3 |
| TRIMARK | TM101K3 |
| Welding Alloys (USA), Inc. | SPEEDARC X100-T1-K3 |

E110T1-K3

| SOURCE | PRODUCT |
|---------------------------------|---------------------------|
| COREX | VERTI-COR 110K3-C |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD II 110 |
| Select-Arc, Inc. | Select 110-K3 |
| SOWESCO | Pinnacle Alloys E110T1-K3 |
| TRIMARK | TM1101K3-C, TM1101K3-M |
| Welding Alloys (USA), Inc. | SPEEDARC X110-T1-K3 |

E111T1-K3

| SOURCE | PRODUCT |
|------------------|-------------------------|
| Select-Arc, Inc. | Select 110K3-C, 110K3-M |

E100T5-K3

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| TRIMARK | TM105K3 |
| Welding Alloys (USA), Inc. | SPEEDARC X100-T5-K3 |

E110T5-K3

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| Select-Arc, Inc. | Select 115-K3 |
| TRIMARK | TM115 |
| Welding Alloys (USA), Inc. | SPEEDARC X110-T5-K3 |

E110T5-K4

| SOURCE | PRODUCT |
|---------------------------------|-------------------|
| Arctec Alloys Limited | ARCTEC FCS 210 N2 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD T-115 |
| HILARIUS HAARLEM HOLLAND BV | HILCO Hilcord 59 |
| Hobart Welding Products | FABCO 115 |

A5.29-98, LOW-ALLOY STEEL Flux Cored Welding Electrodes

See ANSI/AWS A5.29-98, Specification for Low Alloy Steel Electrodes for Flux Cored Arc Welding

E110T5-K4 (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| Select-Arc, Inc. | Select 115-K4 |
| Welding Alloys (USA), Inc. | SPEEDARC X110-T5-K4 |

E111T1-K4

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| Welding Alloys (USA), Inc. | SPEEDARC X111-T5-K4 |

E120T5-K4

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| Select-Arc, Inc. | Select 125-K4 |
| TRIMARK | TM125K4 |
| Welding Alloys (USA), Inc. | SPEEDARC X120-T5-K4 |

E120T1-K5

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| Welding Alloys (USA), Inc. | SPEEDARC X121-T1-K5 |

E61T8-K6

| SOURCE | PRODUCT |
|--|--|
| Lincoln Electric Co. | Innershield NR-203 Nickel C, NR-203 Nickel C-H |
| Lincoln Electric Company (Australia) Pty Ltd | Innershield NR-203NIC |

E71T8-K6

| SOURCE | PRODUCT |
|--|--|
| Hobart Welding Products | FABSHIELD 3Ni1 |
| Lincoln Electric Co. | Innershield NR-400, NR-400-H, NR-207, NR-207-H |
| Lincoln Electric Company (Australia) Pty Ltd | Innershield NR-207, Innershield NR-400 |
| Nassau Research Corp. | Tartan |

E80T1-W

| SOURCE | PRODUCT |
|---------------------------------|--------------------------------------|
| COREX | VERTI-COR 81W |
| ELGA AB | ELGACORE DW 588 |
| ESAB WELDING & CUTTING PRODUCTS | DUAL SHIELD 88-W, DUAL SHIELD 8100-W |
| HYUNDAI WELDING PRODUCTS, INC. | SF-80W |
| Nassau Research Corp. | Polaris |
| SOWESCO | Pinnacle Alloy E80T1-W |

A5.29-98, LOW-ALLOY STEEL Flux Cored Welding Electrodes

See ANSI/AWS A5.29-98, Specification for Low Alloy Steel Electrodes for Flux Cored Arc Welding

E80T1-W (Continued from previous page)

| SOURCE | PRODUCT |
|----------------------------|---------------------|
| TRIMARK | TM811W |
| Washington Alloy Company | Weathering Steel FC |
| Welding Alloys (USA), Inc. | SPEEDARC X81-TG-Cu |

E80T1-W2

| SOURCE | PRODUCT |
|------------------|-------------|
| Select-Arc, Inc. | Select 81-W |

E81T1-W2

| SOURCE | PRODUCT |
|------------------|--------------|
| Select-Arc, Inc. | Select 810 W |

E91T8-G

| SOURCE | PRODUCT |
|--|----------------------|
| Lincoln Electric Co. | Innershield NR-208-H |
| Lincoln Electric Company (Australia) Pty Ltd | Innershield NR-208-H |

E71TG-G

| SOURCE | PRODUCT |
|-------------------------|--------------------|
| AIR LIQUIDE CANADA INC. | LA T-91 RCR |
| Lincoln Electric Co. | Innershield NR-212 |

EXXTX-G

| SOURCE | PRODUCT |
|----------------------------|---|
| Euroweld, Ltd. | 505 MOD |
| Welding Alloys (USA), Inc. | TERTRA-S/V 307L-G, TETRA-V 904L-G, TETRA-S/V 20.9.3-G, TETRA-S D57L-G |

A5.30-97, CONSUMABLE INSERTS

See ANSI/AWS A5.30-97, Specification on Consumable Inserts

| INMs1 | |
|---------------|----------------|
| SOURCE | PRODUCT |
| Arcos Alloys | Arcos IN MS1 |

| INMs2 | |
|---------------|----------------|
| SOURCE | PRODUCT |
| Arcos Alloys | Arcos IN MS2 |

| INMs3 | |
|---------------|----------------|
| SOURCE | PRODUCT |
| Arcos Alloys | Arcos IN MS3 |

| IN502 | |
|---------------|----------------|
| SOURCE | PRODUCT |
| Arcos Alloys | Arcos IN 502 |

| IN515 | |
|---------------|----------------|
| SOURCE | PRODUCT |
| Arcos Alloys | Arcos IN 515 |

| IN521 | |
|---------------|----------------|
| SOURCE | PRODUCT |
| Arcos Alloys | Arcos IN 521 |

| IN308 | |
|---------------|----------------|
| SOURCE | PRODUCT |
| Arcos Alloys | Arcos IN 308 |

| IN308L | |
|---------------|----------------|
| SOURCE | PRODUCT |
| Arcos Alloys | Arcos IN 308L |

| IN310 | |
|---------------|----------------|
| SOURCE | PRODUCT |
| Arcos Alloys | Arcos IN 310 |

| IN312 | |
|---------------|----------------|
| SOURCE | PRODUCT |
| Arcos Alloys | Arcos IN 312 |

A5.30-97, CONSUMABLE INSERTS

See ANSI/AWS A5.30-97, Specification on Consumable Inserts

IN316

SOURCE

Arcos Alloys

PRODUCT

Arcos IN 316

IN316L

SOURCE

Arcos Alloys

PRODUCT

Arcos IN 316L

IN348

SOURCE

Arcos Alloys

PRODUCT

Arcos IN 348

IN60

SOURCE

Arcos Alloys

PRODUCT

Arcos IN 60

IN61

SOURCE

Arcos Alloys

PRODUCT

Arcos IN 61

IN62

SOURCE

Arcos Alloys

PRODUCT

Arcos IN 62

IN67

SOURCE

Arcos Alloys

PRODUCT

Arcos IN 67

IN6A

SOURCE

Arcos Alloys

PRODUCT

Arcos IN 392

IN82

SOURCE

Arcos Alloys

PRODUCT

Arcos IN 82

A5.31-92, FLUXES for BRAZING AND BRAZE WELDING

See ANSI/AWS A5.31-92, Specification for Fluxes for Brazing and Braze Welding

FB1-A

| SOURCE | PRODUCT |
|----------------------------|---|
| All-State Welding Products | Brazaloy No. 31, No. 35, No. 53, No. 61 |
| Crown Alloys Company | AL#100 Flux |
| HARRIS WELCO | WELCO 10 FLUX |
| Nassau Research Corp. | Neptune Flux |

FB1-B

| SOURCE | PRODUCT |
|-----------------------|--------------|
| Nassau Research Corp. | Neptune Flux |

FB1-C

| SOURCE | PRODUCT |
|-----------------------|----------------------------|
| Astrolite Alloys | Astrolite FB1-C |
| Lucas-Milhaupt, Inc. | Alumibraze, Alumibraze 400 |
| Nassau Research Corp. | Neptune Flux |

FB2-A

| SOURCE | PRODUCT |
|-----------------------|--------------|
| Nassau Research Corp. | Neptuen Flux |

FB3-A

| SOURCE | PRODUCT |
|----------------------------|--------------------------------|
| All-State Welding Products | Brazaloy No. 110, S-2000 |
| Astrolite Alloys | Astrolite FB3-A |
| Crown Alloys Company | Sil #45-White |
| HARRIS WELCO | STAY-SILV BRAZING FLUX (WHITE) |
| Lucas-Milhaupt, Inc. | Handy Flux |
| Nassau Research Corp. | Gemini Flux |

FB3-C

| SOURCE | PRODUCT |
|----------------------------|--------------------------------|
| All-State Welding Products | S-3000 Black |
| Astrolite Alloys | Astrolite FB3-C |
| Cronatron Welding Systems | Cronasil FB3-C |
| Crown Alloys Company | Sil #45-Black |
| HARRIS WELCO | STAY-SILV BRAZING FLUX (BLACK) |
| Lucas-Milhaupt, Inc. | Handy Flux Type B-1 |

A5.31-92, FLUXES for BRAZING AND BRAZE WELDING

See ANSI/AWS A5.31-92, Specification for Fluxes for Brazing and Braze Welding

FB3-C (Continued from previous page)

| SOURCE | PRODUCT |
|-----------------------|-------------|
| Nassau Research Corp. | Gemini Flux |

FB3-D

| SOURCE | PRODUCT |
|---------------------------|--|
| Astrolite Alloys | Astrolite FB3-D |
| HARRIS WELCO | WELCO 17 FLUX |
| Lucas-Milhaupt, Inc. | Handy Flux Hi-Temp, Handy Flux Hi-Temp M |
| Nassau Research Corp. | Gemini Flux |
| Wall Colmonoy Corporation | Nicrobraz Flux |

FB3-E

| SOURCE | PRODUCT |
|----------------------|-------------------|
| Astrolite Alloys | Astrolite FB3-E |
| Lucas-Milhaupt, Inc. | Handy Liquid Flux |

FB3-F

| SOURCE | PRODUCT |
|----------------------------|--|
| All-State Welding Products | BRAZO, Ferro Flux, Brazaloy No. 1, No. 5, 1113 Dry, 13 RED |
| Astrolite Alloys | Astrolite FB3-F |
| HARRIS WELCO | STAY-SILV WHITE POWDER FLUX |
| Lucas-Milhaupt, Inc. | Handy Dry Flux 6040 |

FB3-G

| SOURCE | PRODUCT |
|----------------------------|---------------------------|
| All-State Welding Products | Brazaloy No. 21, No. 1113 |
| Astrolite Alloys | Astrolite FB3-G |
| Lucas-Milhaupt, Inc. | Handy Flux Type D |
| Nassau Research Corp. | Gemini Flux |

FB3-H

| SOURCE | PRODUCT |
|-----------------------|--------------------|
| Astrolite Alloys | Astrolite FB3-H |
| Lucas-Milhaupt, Inc. | Handy Flux Type DB |
| Nassau Research Corp. | Gemini Flux |

A5.31-92, FLUXES for BRAZING AND BRAZE WELDING

See ANSI/AWS A5.31-92, Specification for Fluxes for Brazing and Braze Welding

FB3-I

| SOURCE | PRODUCT |
|-----------------------|------------------------------|
| Astrolite Alloys | Astrolite FB3-I |
| Lucas-Milhaupt, Inc. | Handy Flux Type High Temp DB |
| Nassau Research Corp. | Gemini Flux |

FB3-J

| SOURCE | PRODUCT |
|---------------------------|--------------------|
| HARRIS WELCO | WELCO 600 FLUX |
| Wall Colmonoy Corporation | Colmonoy 6-20 Flux |

FB3-K

| SOURCE | PRODUCT |
|--------------|----------------------------------|
| HARRIS WELCO | WELCO SPEEDFLUX LIQUID, TYPE B-2 |

FB4-A

| SOURCE | PRODUCT |
|-----------------------|---------------------|
| Astrolite Alloys | Astrolite FB4-A |
| Lucas-Milhaupt, Inc. | Handy Flux Type A-1 |
| Nassau Research Corp. | Gemini Flux |

AWS Classification System

The AWS classification system provides means of identifying filler metals, fluxes, consumable inserts, and tungsten electrodes that meet the requirements of AWS specifications. Although a full explanation of the system and its symbols is beyond the scope of this document, the outline given below will provide a brief summary of the general scheme. For complete details, the pertinent specification should be consulted.

Prefix Letters

Prefix letters used to indicate a product form, the joining process, or both are as follows:

| | |
|----|--|
| E | Indicates an arc welding electrode, which, by definition, carries the arc welding current. |
| R | Indicates a welding rod which is heated by means other than by carrying the arc welding current. |
| ER | Indicates a filler metal which may be used either as an arc welding electrode or as a welding rod. |
| EC | Indicates a composite electrode. |
| EW | Indicates a (nonconsumable) tungsten electrode. |
| B | Indicates a brazing filler metal. |
| RB | Indicates a filler metal that may be used as a welding rod or as a brazing filler metal, or both. |
| RG | Indicates a welding rod to be used in oxyfuel gas welding. |
| F | Indicates a flux for use in submerged arc welding. |
| IN | Indicates a consumable insert. |

Symbols Following the Prefix

Classification symbols that follow the prefix are based on criteria that best evaluate the welding capabilities of the filler metal for the applicable process. These criteria include (a) chemical composition of filler or weld metal, (b) weld metal mechanical properties, (c) certain process parameters or combinations of all factors or both. The classification system also varies with the major specification requirements.

Optional Supplemental Designators

| | |
|-----|--|
| R | — Moisture resistant electrode covering ² |
| H16 | — Diffusible hydrogen shall be 16ml/100g of weld metal maximum ³ |
| H8 | — Diffusible hydrogen shall be 8 ml/100 g of weld metal maximum ² |
| H4 | — Diffusible hydrogen shall be 4 ml/100 g of weld metal maximum ² |
| -1 | — Improved impact properties and somewhat higher ductility. |

Mild and Low Alloy Steel Covered Electrodes

For mild and low alloy steel covered electrodes, the prefix E is followed by a number series which indicates minimum strength level, position capability, type of covering, and welding current. The following paragraph and table explains how the number series is used in AWS A5.1-91.

² Only applies to electrodes found in AWS A5.1.

³ Presently, H16, H8, and H4 only apply to AWS A5.1 and A5.23.

The letter E designates an electrode. The first two digits, 60, for example, designates tensile strength of at least 60 ksi for the weld metal, in the as-welded condition. The third digit indicates the position in which satisfactory welds can be made with the electrode. Thus, the “1” as in E6010, means that the electrode is satisfactory for use in all positions (flat, vertical, overhead, and horizontal). The “4” as in E7048, indicates the electrode is suitable for the flat position and also for vertical-down welding and for other positions (see table). The last two digits taken together indicate the type current with which the electrode can be used and the type of covering on the electrode, as listed in the following table.

| AWS Classification | Type of Covering | Capable of Producing Satisfactory Welds in Positions Shown ^a | Type of Current ^b |
|------------------------------|-------------------------------------|---|------------------------------|
| E60 Series Electrodes | | | |
| E6010 | High cellulose sodium | F, V, OH, H | dcep |
| E6011 | High cellulose potassium | F, V, OH, H | ac or dcep |
| E6012 | High titania sodium | F, V, OH, H | ac or dcen |
| E6013 | High titania potassium | F, V, OH, H | ac or dc, either polarity |
| E6020 | High iron oxide | H-fillets | ac or dcen |
| E6022 ^c | High iron oxide | F | ac or dc, either polarity |
| E6027 | High iron oxide, iron powder | H-fillets, F | ac or dcen |
| E70 Series Electrodes | | | |
| E7014 | Iron powder, titania | F, V, OH, H | ac or dc, either polarity |
| E7015 | Low hydrogen sodium | F, V, OH, H | dcep |
| E7016 | Low hydrogen potassium | F, V, OH, H | ac or dcep |
| E7018 | Low hydrogen potassium, iron powder | F, V, OH, H | ac or dcep |
| E7024 | Iron powder, titania | H-fillets, F | ac or dc, either polarity |
| E7027 | High iron oxide, iron powder | H-fillets, F | ac or dcen |
| H7028 | Low hydrogen potassium, iron powder | H-fillets, F | ac or dcep |
| E7048 | Low hydrogen potassium, iron powder | F, OH, H, V-down | ac or dcep |

a. The abbreviations, F, V, V-down, OH, H, and H-fillets indicate the welding positions as follows:

- F — Flat
- H — Horizontal
- H-fillets — Horizontal fillets
- V-down — Vertical down direction
- V — Vertical—[For electrodes 3/16in. (4.8mm) and under, except 5/32 in. (4.0mm) and under for classifications E7014, E7015, E7106, and E7018
- OH — Overhead

b. dcep means direct current, electrode positive; dcen means direct current, electrode negative.

c. Electrodes of the E6022 classification are for single-pass welds.

Stainless Steel Electrodes

The three digit numbers that follow the prefix E or ER in A5.4, A5.9, or A5.22 indicate the chemical composition in the manner used by the AISI stainless steel alloy designations. In addition, letters or numbers may be used to indicate composition modifications.

Nickel, Copper, and Titanium Alloys

The designations for nonferrous product classifications such as the nickel alloys in AWS A5.11 and AWS A5.14; copper alloys in AWS A5.6, AWS A5.7, and AWS A5.27; and titanium alloys in AWS A5.16 follow the prefix as a list of chemical symbols of the elements considered significant in identifying the classification; for example, ECuSi, ECuNi, ERNiCrFe, ERNiCrMo, ERTi, etc. This pattern is also followed for the surfacing welding rods and electrodes in AWS A5.13 and AWS A5.21.

Aluminum and Aluminum Alloys

The specification for aluminum and aluminum alloy bare electrodes and rods, AWS A5.10, uses the Aluminum Association alloy designations after the ER prefix. The specification for aluminum and aluminum alloy arc welding electrodes, AWS A5.3, uses the E prefix to indicate a covered electrode with chemical composition equivalent to Aluminum Association alloy designations 1100, 3003, and 4043.

Tungsten and Tungsten Alloys

The designations that follow the prefix E in A5.12, either WP, WTh, or WZr, indicate pure tungsten, thoriated tungsten, or zirconiated tungsten, respectively. The numeral at the end of some classifications indicates a different chemical composition or product within the specific group.

Magnesium Alloys

The designations following the ER, in classifications contained in AWS A5.19, reflect chemical composition and are based on the same standard system used for base metals. The first part of the letter-number system indicates the two principal alloying elements by code letters arranged in order of decreasing percentage. The second part indicates the percentages (rounded to the nearest whole number) of the two principal alloying elements in the same order as the code letters. The third part is an assigned letter to distinguish different alloys with the same percentages of the two principal alloying elements.

Zirconium and Zirconium Alloys

The designations following the ER in the classifications contained in AWS A5.24 indicate chemical composition. The numerals that follow Zr (which indicates a zirconium base) provide a means for identifying the nominal composition of the filler metal.

Carbon and Low Alloy Steel Electrode-Flux Combinations for Submerged Arc Welding

The designators for AWS A5.17 and AWS A5.23 weld metal indicate the basic chemistry of the filler metal as well as the chemistry and mechanical properties of the weld metal. The identification system is explained in detail with the comparison chart. For additional information, consult the filler metal specification.

Other Product-Type Symbols

Letter symbols are also used following a numerical designation in certain specifications to further identify the product form. A "T" is used to indicate a flux cored electrode. An "S" is used to indicate a solid steel electrode for gas metal arc welding. A "C" is used to indicate a tubular metal-cored low alloy wire.

Suffix Symbols

Suffixes are used in various classifications. The AWS A5.5 (covered low alloy electrodes), AWS A5.23 (solid or composite low alloy bare electrodes), and AWS A5.29 (tubular flux cored low alloy electrodes) specifications for low alloy filler metals use suffixes such as -A1, -B1, -B2, -B2L, and -C1 to indicate chemical composition. The classifications for nonferrous products in AWS A5.6, AWS A5.7, and AWS A5.27 for copper alloys, and AWS A5.11 and AWS A5.14 for nickel alloys list a letter or number suffix to indicate the classification's position in a series of similar alloy groupings.

A similar suffix pattern also is used in AWS A5.13 and AWS A5.21 specifications for surfacing welding rods and electrodes.

Covered stainless steel electrodes employ a number -15 or -16 as a suffix to identify useability. The -15 suffix indicates that the electrode is designed for all-position operation using dcep (electrode positive). The -16 suffix indicates all-position operation with either ac or dcep (electrode positive) current.

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INDEX of AWS Classification Designations

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