



# List of Electrodes for 04/29/2015

Sorted by Standard / Company Name / Classification

Company Name	Classification	Electrode Designation	Point of Manufacture	Flux Gas	Min	Max	Standard
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	E4918-1-H4R	Bohler E7018-1	China	N/A		Unlimited	A5.1:2004
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	E4918-H4R	Bohler E7018 (DCEP only)	China	N/A		Unlimited	A5.1:2004
Air Liquide Canada, Inc.	ER4043	Blueshield Crystal 4043	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
Air Liquide Canada, Inc.	ER5356	Blueshield Crystal 5356	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
Airgas, Inc.	ER4043	Radnor 4043	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
Airgas, Inc.	ER5356	Radnor 5356	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
AlcoTec Wire Corporation	ER1100	Almigweld ER1100/Altigweld R1100	USA	-	1.2	Unlimited	A5.10/A5.10M:2012
AlcoTec Wire Corporation	ER4043	Almigweld ER4043/Altigweld R4043	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
AlcoTec Wire Corporation	ER4047	Almigweld ER4047/Altigweld R4047	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
AlcoTec Wire Corporation	ER5183	Almigweld ER5183/Altigweld R5183	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
AlcoTec Wire Corporation	ER5356	Almigweld ER5356/Altigweld R5356	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
AlcoTec Wire Corporation	ER5554	Almigweld ER5554/Altigweld R5554	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
AlcoTec Wire Corporation	ER5556	Almigweld ER5556/Altigweld R5556	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
BOHLER WELDING GROUP CANADA	ER4043	Bohler ER4043 TIG	Canada	-	0.9	Unlimited	A5.10/A5.10M:2012
BOHLER WELDING GROUP CANADA	ER4043	Bohler ER4043 MIG	Canada	-	0.9	Unlimited	A5.10/A5.10M:2012
BOHLER WELDING GROUP CANADA	ER5356	Bohler ER5356 TIG	Canada	-	0.9	Unlimited	A5.10/A5.10M:2012
BOHLER WELDING GROUP CANADA	ER5356	Bohler ER5356 MIG	Canada	-	0.9	Unlimited	A5.10/A5.10M:2012
ESAB AB	ER1100	OK Autrod 1100 / OK Tigrod 1100	USA	-	1.2	Unlimited	A5.10/A5.10M:2012
ESAB AB	ER4043	OK Autrod 4043/ OK Tigrod 4043	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
ESAB AB	ER4047	OK Autrod 4047/ OK Tigrod 4047	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
ESAB AB	ER5183	OK Autrod 5183/ OK Tigrod 5183	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
ESAB AB	ER5356	OK Autrod 5356 / OK Tigrod 5356	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
ESAB AB	ER5554	OK Autrod 5554/ OK Tigrod 5554	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
ESAB AB	ER5556	OK Autrod 5556/ OK Tigrod 5556	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
HOBART BROTHERS ALUMINUM	ER1100	MaxalMIG ER1100/MaxalTIG R1100	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
HOBART BROTHERS ALUMINUM	ER4043	MaxalMIG ER4043/MaxalTIG R4043	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
HOBART BROTHERS ALUMINUM	ER4943	MaxalMig ER4943/ MaxalTig R4943	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
HOBART BROTHERS ALUMINUM	ER5183	MaxalMIG ER5183/MaxalTIG R5183	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
HOBART BROTHERS ALUMINUM	ER5356	MaxalMIG ER5356/MaxalTIG R5356	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
HOBART BROTHERS ALUMINUM	ER5554	MaxalMIG ER5554/MaxalTIG R5554	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
HOBART BROTHERS ALUMINUM	ER5556	MaxalMIG ER5556/MaxalTIG R5556	USA	-	0.9	Unlimited	A5.10/A5.10M:2012



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Hobart Brothers Company, SWBU	ER1100	Aluminum ER1100/Aluminum R1100	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
Hobart Brothers Company, SWBU	ER4043	Smootharc ER/R4043	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
Hobart Brothers Company, SWBU	ER4043	Aluminum ER4043/Aluminum R4043	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
Hobart Brothers Company, SWBU	ER5183	Aluminum ER5183/Aluminum R5183	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
Hobart Brothers Company, SWBU	ER5356	Aluminum ER5356/Aluminum R5356	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
Hobart Brothers Company, SWBU	ER5356	Smootharc ER/R5356	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
Hobart Brothers Company, SWBU	ER5554	Aluminum ER5554/Aluminum R5554	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
Hobart Brothers Company, SWBU	ER5556	Aluminum ER5556/Aluminum R5556	USA	-	0.9	Unlimited	A5.10/A5.10M:2012
Indalco Alloys Inc.	ER1100	IA 1100	Canada	-	1.2	1.2	A5.10/A5.10M:2012
INDALCO ALLOYS INC.	ER1100	Gulf Wire 1100	Canada	-	1.2	1.2	A5.10/A5.10M:2012
Indalco Alloys Inc.	ER4043	IA 4043	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
INDALCO ALLOYS INC.	ER4043	Gulf Wire 4043	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
Indalco Alloys Inc.	ER5183	IA 5183	Canada	-	1.2	1.2	A5.10/A5.10M:2012
INDALCO ALLOYS INC.	ER5183	Gulf Wire 5183	Canada	-	1.2	1.2	A5.10/A5.10M:2012
INDALCO ALLOYS INC.	ER5356	Gulf Wire 5356	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
Indalco Alloys Inc.	ER5356	IA 5356	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
LINCOLN ELECTRIC COMPANY	ER4043	Superglaze HD 4043	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
LINCOLN ELECTRIC COMPANY	ER5183	Superglaze HD 5183	Canada	-	1.2	1.2	A5.10/A5.10M:2012
LINCOLN ELECTRIC COMPANY	ER5356	Superglaze HD 5356	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
LINCOLN ELECTRIC COMPANY	ER5356	Superglaze HD 5356TM	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER1100	Superglaze 1100	Canada	-	1.2	1.2	A5.10/A5.10M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER4043	Superglaze 4043	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER5183	Superglaze 5183	Canada	-	1.2	1.2	A5.10/A5.10M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER5356	Superglaze 5356 TM	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER5356	Superglaze 5356	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
Linde Canada Limited	ER4043	Linde MIG Aluminum Welding Wire	Switzerland	-	0.9	Unlimited	A5.10/A5.10M:2012
Linde Canada Limited	ER4043	Linde TIG Aluminum Welding Rod	Switzerland	-	0.9	Unlimited	A5.10/A5.10M:2012
Linde Canada Limited	ER5356	Linde MIG Aluminum Welding Wire	Switzerland	-	0.9	Unlimited	A5.10/A5.10M:2012
Linde Canada Limited	ER5356	Linde TIG Aluminum Welding Rod	Switzerland	-	0.9	Unlimited	A5.10/A5.10M:2012
Nexal Aluminum Inc.	ER4043	Nexalloy 4043	Canada	-	0.9	Unlimited	A5.10/A5.10M:2012



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Nexal Aluminum Inc.	ER5183	Nexalloy 5183	Canada	-	0.9	Unlimited	A5.10/A5.10M:2012
Nexal Aluminum Inc.	ER5356	Nexalloy 5356	Canada	-	0.9	Unlimited	A5.10/A5.10M:2012
Novametal S.A.	ER4043	NMA 4043	Switzerland	-	0.9	Unlimited	A5.10/A5.10M:2012
Novametal S.A.	ER5183	NMA 5183	Switzerland	-	1	Unlimited	A5.10/A5.10M:2012
Novametal S.A.	ER5336	NMA 5356	Switzerland	-	0.8	Unlimited	A5.10/A5.10M:2012
Praxair Canada Inc.	ER4043	Prostar R4043	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
Praxair Canada Inc.	ER4043	Prostar ER4043	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
Praxair Canada Inc.	ER5356	Prostar ER5356	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
Praxair Canada Inc.	ER5356	Prostar R5356	USA	-	0.8	Unlimited	A5.10/A5.10M:2012
SOWESCO I, LLC	ER4043	Pinnacle ER4043	Canada	-	0.9	Unlimited	A5.10/A5.10M:2012
SOWESCO I, LLC	ER5356	Pinnacle ER5356	Canada	-	0.9	Unlimited	A5.10/A5.10M:2012
Techniweld Products Corporation	ER4043	Powerweld 4043	Canada	-	0.9	Unlimited	A5.10/A5.10M:2012
Techniweld Products Corporation	ER5356	Powerweld 5356	Canada	-	0.9	Unlimited	A5.10/A5.10M:2012
The Harris Products Group	ER1100	Harris 1100	Canada	-	1.2	1.2	A5.10/A5.10M:2012
The Harris Products Group	ER4043	Matheson Select 4043	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
The Harris Products Group	ER4043	Harris 4043	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
The Harris Products Group	ER5183	Harris 5183	Canada	-	1.2	1.2	A5.10/A5.10M:2012
The Harris Products Group	ER5356	Harris 5356	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
The Harris Products Group	ER5356	Matheson Select 5356	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
Vanguard Steel Limited	ER4043	Bonarc ER 4043	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
Vanguard Steel Limited	ER5356	Bonarc ER 5356	Canada	-	0.8	Unlimited	A5.10/A5.10M:2012
Special Metals Welding Products Company	ENiCrFe-2	Inco-Weld Welding Electrode A	USA	-	-	Unlimited	A5.11/A5.11M:2010
Special Metals Welding Products Company	ENiCrMo-3	Inconel Welding Electrode 112	USA	-	-	Unlimited	A5.11/A5.11M:2010
Special Metals Welding Products Company	ENiCrMo-4	Inco-Weld Welding Electrode C-276	USA	-	-	Unlimited	A5.11/A5.11M:2010
KUANG TAI METAL IND. CO., LTD.	ERNiCr-3	KTS-82	Taiwan	-	-	Unlimited	A5.14/A5.14M:2009
KUANG TAI METAL IND. CO., LTD.	ERNiCr-3	KMS-82	Taiwan	-	-	Unlimited	A5.14/A5.14M:2009
KUANG TAI METAL IND. CO., LTD.	ERNiCrMo-3	KTS-61	Taiwan	-	-	Unlimited	A5.14/A5.14M:2009
KUANG TAI METAL IND. CO., LTD.	ERNiCrMo-3	KMS-61	Taiwan	-	-	Unlimited	A5.14/A5.14M:2009
KUANG TAI METAL IND. CO., LTD.	ERNiCrMo-4	KMS-17	Taiwan	-	-	Unlimited	A5.14/A5.14M:2009
KUANG TAI METAL IND. CO., LTD.	ERNiCrMo-4	KTS-17	Taiwan	-	-	Unlimited	A5.14/A5.14M:2009
KUANG TAI METAL IND. CO., LTD.	ERNiCu-7	KMS-60	Taiwan	-	-	Unlimited	A5.14/A5.14M:2009



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KUANG TAI METAL IND. CO., LTD.	ERNiCu-7	KTS-60	Taiwan	-	-	Unlimited	A5.14/A5.14M:2009
LINCOLN ELECTRIC COMPANY OF CANADA LP	ERNi-1	Techalloy 208	USA			Unlimited	A5.14/A5.14M:2009
LINCOLN ELECTRIC COMPANY OF CANADA LP	ERNiCr-3	Techalloy 606	USA			Unlimited	A5.14/A5.14M:2009
LINCOLN ELECTRIC COMPANY OF CANADA LP	ERNiCrCoMo-1	Techalloy 617	USA			Unlimited	A5.14/A5.14M:2009
LINCOLN ELECTRIC COMPANY OF CANADA LP	ERNiCrMo-10	Techalloy 622	USA			Unlimited	A5.14/A5.14M:2009
LINCOLN ELECTRIC COMPANY OF CANADA LP	ERNiCrMo-3	Techalloy 625	USA			Unlimited	A5.14/A5.14M:2009
LINCOLN ELECTRIC COMPANY OF CANADA LP	ERNiCrMo-4	Techalloy 276	USA			Unlimited	A5.14/A5.14M:2009
LINCOLN ELECTRIC COMPANY OF CANADA LP	ERNiCu-7	Techalloy 418	USA			Unlimited	A5.14/A5.14M:2009
LINCOLN ELECTRIC COMPANY OF CANADA LP	ERNiFeCr-1	Techalloy 825	USA			Unlimited	A5.14/A5.14M:2009
LINCOLN ELECTRIC COMPANY OF CANADA LP	ERNiFeCr-2	Techalloy 718	USA			Unlimited	A5.14/A5.14M:2009
Oxford Alloys, Inc.	ERNiCrMo-3	Oxford Alloys 625	USA	-		Unlimited	A5.14/A5.14M:2009
Oxford Alloys, Inc.	ERNiCrMo-4	Oxford Alloys C-276	USA	-		Unlimited	A5.14/A5.14M:2009
Special Metals Welding Products Company	ERNiCr-3	Inconel Filler Metal 82	USA	-	-	Unlimited	A5.14/A5.14M:2009
Special Metals Welding Products Company	ERNiCrMo-3	Inconel Filler Metal 625	USA	-	-	Unlimited	A5.14/A5.14M:2009
Special Metals Welding Products Company	ERNiCrMo-4	Inco-Weld Filler Metal C-276	USA	-	-	Unlimited	A5.14/A5.14M:2009
TECHALLOY, INC.	ERNi-1	Techalloy 208	USA	-		Unlimited	A5.14/A5.14M:2009
TECHALLOY, INC.	ERNiCr-3	Techalloy 606	USA	-		Unlimited	A5.14/A5.14M:2009
TECHALLOY, INC.	ERNiCrCoMo-1	Techalloy 617	USA	-		Unlimited	A5.14/A5.14M:2009
TECHALLOY, INC.	ERNiCrMo-10	Techalloy 622	USA	-		Unlimited	A5.14/A5.14M:2009
TECHALLOY, INC.	ERNiCrMo-3	Techalloy 625	USA	-		Unlimited	A5.14/A5.14M:2009
TECHALLOY, INC.	ERNiCrMo-4	Techalloy 276	USA	-		Unlimited	A5.14/A5.14M:2009
TECHALLOY, INC.	ERNiCu-7	Techalloy 418	USA	-		Unlimited	A5.14/A5.14M:2009
CHOSUN WELDING CO. LTD.	ER48S-2 (ER70S-2)	TGC-50B	Korea	100% Ar	1.2	4.0	A5.18/A5.18M:2005
CHOSUN WELDING CO. LTD.	ER48S-6 (ER70S-6)	TGC-50S	Korea	100% Ar	1.2	4.0	A5.18/A5.18M:2005
HYUNDAI WELDING CO., LTD.	ER48S-6 (ER70S-6)	ST-50.6	Korea	100% Ar	2.4	3.2	A5.18/A5.18M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER48S-2 (ER70S-2)	Lincoln ER70S-2 {cu}	USA	100% Ar	1.6	3.2	A5.18/A5.18M:2005



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Vanguard Steel Limited	ER48S-2 (ER70S-2)	Bonarc ER70S-2	Korea		1.6	3.2	A5.18/A5.18M:2005
Air Liquide Canada Inc.	E308LT0-1	BLU-650-308L	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Air Liquide Canada Inc.	E308LT0-4	BLU-650-308L	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Air Liquide Canada Inc.	E308LT1-1	BLU-650P	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Air Liquide Canada Inc.	E308LT1-4	BLU-650P	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Air Liquide Canada Inc.	E309LT0-1	BLU-650-309L	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Air Liquide Canada Inc.	E309LT0-4	BLU-650-309L	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Air Liquide Canada Inc.	E309LT1-1	BLU-654P	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Air Liquide Canada Inc.	E309LT1-4	BLU-654P	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Air Liquide Canada Inc.	E316LT0-1	BLU-650-316L	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Air Liquide Canada Inc.	E316LT0-4	BLU-650-316L	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Air Liquide Canada Inc.	E316LT1-1	BLU-652P	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Air Liquide Canada Inc.	E316LT1-4	BLU-652P	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Arctec Alloys Limited	E308LT1-1	308L Flux Cored	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Arctec Alloys Limited	E308LT1-4	308L Flux Cored	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Arctec Alloys Limited	E309LT1-1	309L Flux Cored	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Arctec Alloys Limited	E309LT1-4	309L Flux Cored	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Arctec Alloys Limited	E316LT1-1	316L Flux Cored	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Arctec Alloys Limited	E316LT1-4	316L Flux Cored	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
ESAB Group, Inc./Alloy Rods	E308LT0-3	Core-Bright 308L	USA	-		Unlimited	A5.22/A5.22M:2012
ESAB Group, Inc./Alloy Rods	E309LT0-3	Core-Bright 309L	USA	-		Unlimited	A5.22/A5.22M:2012
ESAB Group, Inc./Alloy Rods	E316LT0-3	Core-Bright 316L	USA	-		Unlimited	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E2209T1-1	Shield-Bright 2209	Korea	100%CO <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E2209T1-4	Shield-Bright 2209	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E308LT0-1	Shield-Bright 308L X-t	Korea	100%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E308LT0-4	Shield-Bright 308L X-t	Korea	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E308LT1-1	Shield-Bright 308L	Korea	100%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E308LT1-4	Shield-Bright 308L	Korea	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E309LT0-1	Shield-Bright 309L X-t	Korea	100%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E309LT0-4	Shield-Bright 309L X-t	Korea	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E309LT1-1	Shield-Bright 309L	Korea	100%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012



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ESAB SEAH CORPORATION	E309LT1-4	Shield-Bright 309L	Korea	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E316LT0-1	Shield-Bright 316L X-t	Korea	100%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E316LT0-4	Shield-Bright 316L X-t	Korea	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E316LT1-1	Shield-Bright 316L	Korea	100%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012
ESAB SEAH CORPORATION	E316LT1-4	Shield-Bright 316L	Korea	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	A5.22/A5.22M:2012
FSH Welding Canada	E308LT1-1	Selectarc FC 308L-AP	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
FSH Welding Canada	E308LT1-4	Selectarc FC 308L-AP	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
FSH Welding Canada	E309LT1-1	Selectarc FC 309L-AP	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
FSH Welding Canada	E309LT1-4	Selectarc FC 309L-AP	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
FSH Welding Canada	E316LT1-1	Selectarc FC 316L-AP	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
FSH Welding Canada	E316LT1-4	Selectarc FC 316L-AP	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E410NiMoT1-1	FabCO 410NiMo T1	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Hobart Brothers Co., Tubular Wire Business (Plant 2)	EC309LSi	FabCOR 309LSi	USA	Ar + 2%O <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
Hobart Brothers Co., Tubular Wire Business (Plant 2)	EC309LSi	FabCOR 309LSi	USA	Linde Mison 8C	1.2	1.6	A5.22/A5.22M:2012
Hyundai Welding Co., Ltd.	E308LT1-1	SW-308L Cored	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Hyundai Welding Co., Ltd.	E308LT1-4	SW-308L Cored	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Hyundai Welding Co., Ltd.	E309LMoT1-1	SW-309MoL Cored	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Hyundai Welding Co., Ltd.	E309LMoT1-4	SW-309MoL Cored	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Hyundai Welding Co., Ltd.	E309LT1-1	SW-309L Cored	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Hyundai Welding Co., Ltd.	E309LT1-4	SW-309L Cored	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Hyundai Welding Co., Ltd.	E316LT1-1	SW-316L Cored	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Hyundai Welding Co., Ltd.	E316LT1-4	SW-316L Cored	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kiswel Inc.	E308LT1-1	K-308LT	USA	100%CO <sub>2</sub>	-	Unlimited	A5.22/A5.22M:2012
Kiswel Inc.	E308LT1-4	K-308LT	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.22/A5.22M:2012
Kiswel Inc.	E309LT1-1	K-309LT	USA	100%CO <sub>2</sub>	-	Unlimited	A5.22/A5.22M:2012
Kiswel Inc.	E309LT1-4	K-309LT	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.22/A5.22M:2012
Kiswel Inc.	E316LT1-1	K-316LT	USA	100%CO <sub>2</sub>	-	Unlimited	A5.22/A5.22M:2012
Kiswel Inc.	E316LT1-4	K-316LT	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.22/A5.22M:2012
Kiswel Ltd.	E308LT1-1	K-308LT	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kiswel Ltd.	E308LT1-4	K-308LT	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kiswel Ltd.	E309LT1-1	K-309LT	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012



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Company Name	Classification	Electrode Designation	Point of Manufacture	Flux Gas	Min	Max	Standard
Kiswel Ltd.	E309LT1-4	K-309LT	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kiswel Ltd.	E316LT1-1	K-316LT	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kiswel Ltd.	E316LT1-4	K-316LT	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E2209T1-1	Premiarc DW-2209	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E2209T1-4	Premiarc DW-2209	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E2594T1-1	Premiarc DW-2594	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E2594T1-4	Premiarc DW-2594	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E308HT1-1	Premiarc DW-308H	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E308HT1-4	Premiarc DW-308H	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E308LT0-1	Premiarc DW-308L	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E308LT0-1	Premiarc DW-G308L	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E308LT0-4	Premiarc DW-G308L	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E308LT0-4	Premiarc DW-308L	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E308LT1-1	Premiarc DW-308LP	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E308LT1-4	Premiarc DW-308LP	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E309LMoT0-1	Premiarc DW-309LMo	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E309LMoT0-4	Premiarc DW-309LMo	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E309LT0-1	Premiarc DW-309L	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E309LT0-1	Premiarc DW-G309L	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E309LT0-4	Premiarc DW-309L	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E309LT0-4	Premiarc DW-G309L	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E309LT1-1	Premiarc DW-309LP	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E309LT1-4	Premiarc DW-309LP	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E310T0-1	Premiarc DW-310	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E310T0-4	Premiarc DW-310	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E312T0-1	Premiarc DW-312	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E316LT0-1	Premiarc DW-316L	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E316LT0-1	Premiarc DW-G316L	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E316LT0-4	Premiarc DW-316L	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E316LT0-4	Premiarc DW-G316L	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E316LT1-1	Premiarc DW-316LP	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E316LT1-4	Premiarc DW-316LP	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012



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Kobe Steel, Ltd.	E317LT0-1	Premiarc DW-317L	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E317LT0-4	Premiarc DW-317L	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E347T0-1	Premiarc DW-347	Japan	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Kobe Steel, Ltd.	E347T0-4	Premiarc DW-347	Japan	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E308LT0-1	Premiarc DW-308L	Netherlands	100%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E308LT0-4	Premiarc DW-308L	Netherlands	Ar + 20% to 25%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E308LT1-1	Premiarc DW-308LP	Netherlands	100%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E308LT1-4	Premiarc DW-308LP	Netherlands	Ar + 20% to 25%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E309LT0-1	Premiarc DW-309L	Netherlands	100%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E309LT0-4	Premiarc DW-309L	Netherlands	Ar + 20% to 25%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E309LT1-1	Premiarc DW-309LP	Netherlands	100%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E309LT1-4	Premiarc DW-309LP	Netherlands	Ar + 20% to 25%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E316LT0-1	Premiarc DW-316L	Netherlands	100%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E316LT0-4	Premiarc DW-316L	Netherlands	Ar + 20% to 25%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E316LT1-1	Premiarc DW-316LP	Netherlands	100%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
KOBELCO WELDING OF EUROPE BV	E316LT1-4	Premiarc DW-316LP	Netherlands	Ar + 20% to 25%CO <sub>2</sub>		UNLIMITED	A5.22/A5.22M:2012
Kuang Tai Metal Ind. Co. Ltd.	E308LT0-1	KFW-308LF	Taiwan	100%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
Kuang Tai Metal Ind. Co. Ltd.	E308LT0-4	KFW-308LF	Taiwan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
Kuang Tai Metal Ind. Co. Ltd.	E308LT1-1	KFW-308L	Taiwan	100%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
Kuang Tai Metal Ind. Co. Ltd.	E308LT1-4	KFW-308L	Taiwan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
Kuang Tai Metal Ind. Co. Ltd.	E309LT0-1	KFW-309LF	Taiwan	100%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
Kuang Tai Metal Ind. Co. Ltd.	E309LT0-4	KFW-309LF	Taiwan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
Kuang Tai Metal Ind. Co. Ltd.	E309LT1-1	KFW-309L	Taiwan	100%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
Kuang Tai Metal Ind. Co. Ltd.	E309LT1-4	KFW-309L	Taiwan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
Kuang Tai Metal Ind. Co. Ltd.	E316LT0-1	KFW-316LF	Taiwan	100%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
Kuang Tai Metal Ind. Co. Ltd.	E316LT0-4	KFW-316LF	Taiwan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
Kuang Tai Metal Ind. Co. Ltd.	E316LT1-1	KFW-316L	Taiwan	100%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012





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Company Name	Classification	Electrode Designation	Point of Manufacture	Flux Gas	Min	Max	Standard
Kuang Tai Metal Ind. Co. Ltd.	E316LT1-4	KFW-316L	Taiwan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E308LT0-1	UltraCore FC 308L	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E308LT0-4	UltraCore FC 308L	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E308LT1-1	UltraCore FCP 308L	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E308LT1-4	UltraCore FCP 308L	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E309LT0-1	UltraCore FC 309L	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E309LT0-4	UltraCore FC 309L	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E309LT1-1	UltraCore FCP 309L	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E309LT1-4	UltraCore FCP 309L	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E316LT0-1	UltraCore FC 316L	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E316LT0-4	UltraCore FC 316L	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E316LT1-1	UltraCore FCP 316L	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	E316LT1-4	UltraCore FCP 316L	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
METRODE PRODUCTS LIMITED	E2209T0-4	Supercore 2205	England	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
METRODE PRODUCTS LIMITED	E2209T1-4	Supercore 2205P	England	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
METRODE PRODUCTS LIMITED	E2594T0-4	Supercore 2507	England	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.22/A5.22M:2012
METRODE PRODUCTS LIMITED	E2594T1-4	Supercore 2507P	England	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
METRODE PRODUCTS LIMITED	E308LT0-1	Supercore 308L	England	100%CO <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
METRODE PRODUCTS LIMITED	E308LT0-4	Supercore 308L	England	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
METRODE PRODUCTS LIMITED	E309LT0-1	Supercore 309L	England	100%CO <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
METRODE PRODUCTS LIMITED	E309LT0-4	Supercore 309L	England	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
METRODE PRODUCTS LIMITED	E316LT0-1	Supercore 316L	England	100%CO <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
METRODE PRODUCTS LIMITED	E316LT0-4	Supercore 316L	England	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.22/A5.22M:2012
Select-Arc Inc.	E308LT0-1	SelectAlloy 308L Stainless	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Select-Arc Inc.	E308LT0-4	SelectAlloy 308L Stainless	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Select-Arc Inc.	E308LT1-1	SelectAlloy 308L-AP Stainless	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Select-Arc Inc.	E308LT1-4	SelectAlloy 308L-AP Stainless	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012



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Select-Arc Inc.	E309LT0-1	SelectAlloy 309L Stainless	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Select-Arc Inc.	E309LT0-4	SelectAlloy 309L	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Select-Arc Inc.	E309LT1-1	SelectAlloy 309L-AP Stainless	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Select-Arc Inc.	E309LT1-4	SelectAlloy 309L-AP Stainless	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Select-Arc Inc.	E316LT0-1	SelectAlloy 316L Stainless	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Select-Arc Inc.	E316LT0-4	SelectAlloy 316L	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Select-Arc Inc.	E316LT1-1	SelectAlloy 316L-AP Stainless	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Select-Arc Inc.	E316LT1-4	SelectAlloy 316L-AP Stainless	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
SELECT-ARC, INC.	E309LT1-1	Select 309L-AP-LF	USA	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
SELECT-ARC, INC.	E309LT1-4	Select 309L-AP-LF	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Sodel Limitee	E308LT1-4	Wirogas 3080G	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Sodel Limitee	E309LT1-4	Wirogas 3090G	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Sodel Limitee	E316LT1-4	Wirogas 3160G	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Vanguard Steel Limited	E308LT1-1	Bonarc E308LT-1	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Vanguard Steel Limited	E308LT1-4	Bonarc E308LT-1	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Vanguard Steel Limited	E309LT1-1	Bonarc E309LT-1	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Vanguard Steel Limited	E309LT1-4	Bonarc E309LT-1	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Vanguard Steel Limited	E316LT1-1	Bonarc E316LT-1	Korea	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
Vanguard Steel Limited	E316LT1-4	Bonarc E316LT-1	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E2209T0-1	BÖHLER CN 22/9 N-FD	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E2209T0-1	Avesta FCW 2D-2205	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E2209T0-4	BÖHLER CN 22/9 N-FD	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E2209T0-4	Avesta FCW 2D-2205	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E2209T1-1	BÖHLER CN 22/9 PW-FD	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E2209T1-1	Avesta FCW 2205-PW	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E2209T1-4	BÖHLER CN 22/9 PW-FD	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E2209T1-4	Avesta FCW 2205-PW	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E308LT0-1	Avesta FCW-2D 308L/MVR	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E308LT0-1	BÖHLER EAS 2-FD	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E308LT0-4	Avesta FCW-2D 308L/MVR	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E308LT0-4	BÖHLER EAS 2-FD	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E308LT1-1	BÖHLER EAS 2 PW-FD	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012



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voestalpine Böhler Welding Austria GmbH	E308LT1-1	Avesta FCW 308L-PW	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E308LT1-4	BÖHLER EAS 2 PW-FD	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E308LT1-4	Avesta FCW 308L-PW	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E309LMoT0-1	BÖHLER CN23/12Mo-FD	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E309LMoT0-4	BÖHLER CN23/12Mo-FD	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E309LT0-1	Avesta FCW-2D 309L	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E309LT0-1	BÖHLER CN 23/12-FD	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E309LT0-4	Avesta FCW-2D 309L	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E309LT0-4	BÖHLER CN 23/12-FD	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E309LT1-1	Avesta FCW 309L-PW	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E309LT1-1	BÖHLER CN 23/12 PW-FD	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E309LT1-4	BÖHLER CN 23/12 PW-FD	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E309LT1-4	Avesta FCW 309L-PW	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E316LT0-1	Avesta FCW-2D 316L/SKR	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E316LT0-1	BÖHLER EAS 4M-FD	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E316LT0-4	Avesta FCW-2D 316L/SKR	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E316LT0-4	BÖHLER EAS 4M-FD	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E316LT1-1	Avesta FCW 316L-PW	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E316LT1-1	BÖHLER EAS 4 PW-FD	Austria	100%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E316LT1-4	BÖHLER EAS 4 PW-FD	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
voestalpine Böhler Welding Austria GmbH	E316LT1-4	Avesta FCW 316L-PW	Austria	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.22/A5.22M:2012
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	F49A4-ENi1K-Ni1 (F7A4-ENi1K-Ni1)	Spoolarc 75	USA	OK Flux 429 (made in USA)	-	-	A5.23/A5.23M:2011
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	F55A4-ENi1K-Ni1 (F8A4-ENi1K-Ni1)-H8	Spoolarc 75	USA	OK Flux 10.71 (made in USA)	-	-	A5.23/A5.23M:2011
Hobart Brothers Co., Tubular Wire Business (Plant 2)	F49A7-ECNi1-Ni1-H8(F7A10-ECNi1-Ni1-H8)	SubCOR N1S	USA	HN-590 (made in Taiwan)		Unlimited	A5.23/A5.23M:2011
HYUNDAI WELDING CO., LTD.	F55A6-EG-G (F8A8-EG-G)	A-G2	Korea	S-800WT (made in Korea)	Unlimited	Unlimited	A5.23/A5.23M:2011
ITW WELDING GmbH	F55A5-EA2-A2 (F8A6-EA2-A2)	SDX S2Mo-EA2	Germany	SWX 150( Made in Poland)			A5.23/A5.23M:2011
ITW WELDING GmbH	F55A5-EA2-A2-H8 (F55A6-EA2-A2-H8)	SDX S2Mo-EA2	Germany	SWX 150( Made in Poland)			A5.23/A5.23M:2011



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ITW WELDING GmbH	F55A5-EA2-A4-H8 (F55A6-EA2-A4-H8)	SDX S2Mo-EA2	Germany	SWX 110 (Made In Poland)			A5.23/A5.23M:2011
ITW WELDING GmbH	F55A5-EA2-A4-H8 (F55A6-EA2-A4-H8)	SDX S2Mo-EA2	Germany	Hobart SWX 120(Made In Poland)			A5.23/A5.23M:2011
ITW WELDING GmbH	F55A6-EH12K (F8A6-EH12K)	SDX S3Si-EH12K	Germany	SWX 150( Made in Poland)	2.00	4.00	A5.23/A5.23M:2011
LINCOLN ELECTRIC (JINZHOU) WELDING MATERIALS CO., LTD.	F55A3-ENi1K-Ni1-H4 (F8A2-ENi1K-Ni1-H4)	Premierweld Ni1K	China	Lincolnweld 960 (made in USA) (baked at 350 degree C for 1 hour)		Unlimited	A5.23/A5.23M:2011
Lincoln Electric (Jinzhou) Welding Materials Co., Ltd.	F55A5-ENi1K-Ni1-H8 (F8A6-ENi1K-Ni1-H8)	Premierweld Ni1K	China			Unlimited	A5.23/A5.23M:2011
LINCOLN ELECTRIC COMPANY	F49A4-ENi1K-G-H8 (F7A4-ENi1K-G-H8)	Lincolnweld LA-75	USA	Lincolnweld WTX (made in USA)	1.6	4.0	A5.23/A5.23M:2011
LINCOLN ELECTRIC COMPANY	F76A5-ECM2-M2-H8 (F11A6-ECM2-M2-H8)	Lincolnweld LAC-M2	USA	Lincolnweld 880M (made in USA)	2.4	4.0	A5.23/A5.23M:2011
LINCOLN ELECTRIC COMPANY	F76A7-ECG-G-H4 (F11A10-ECG-G-H4)	Lincolnweld LAC-690	USA	Lincolnweld 888 (made in USA)	2.4	4.0	A5.23/A5.23M:2011
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A4-EA1-G-H8 (F7A4-EA1-G-H8)	Lincolnweld L-70	Canada	Lincolnweld 8500 (made in USA)		Unlimited	A5.23/A5.23M:2011
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A4-EM12K-Ni1-H8 (F7A4-EM12K-Ni1-H8)	Lincolnweld L-61	Canada	Lincolnweld AXXX10 (made in USA)		Unlimited	A5.23/A5.23M:2011
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49P4-ENi5-Ni5-H8 (F7P4-ENi5-Ni5-H8)	Lincolnweld LA-85 {cu}	Canada	Lincolnweld 882 (made in USA)		Unlimited	A5.23/A5.23M:2011
LINCOLN ELECTRIC COMPANY OF CANADA LP	F62A2-EA1-G (F9A0-EA1-G)	Lincolnweld L-70	USA	Lincolnweld 761 (made in USA)		Unlimited	A5.23/A5.23M:2011
Lincoln Electric of Canada LP	F49A6-ENi1K-Ni1-H8 (F7A8-ENi1K-Ni1-H8)	Lincolnweld LA-75 {cu}	Canada	Lincolnweld 880M (made in USA)		Unlimited	A5.23/A5.23M:2011
Lincoln Electric of Canada LP	F55A3-ENi1K-Ni1 (F8A2-ENi1K-Ni1)	Lincolnweld LA-75	USA	Lincolnweld 980 (made in USA)		Unlimited	A5.23/A5.23M:2011
Lincoln Electric of Canada LP	F55A3-ENi1K-Ni1 (F8A2-ENi1K-Ni1)	Lincolnweld LA-75	USA	Lincolnweld 960 (made in USA)		Unlimited	A5.23/A5.23M:2011
Lincoln Electric of Canada LP	F55A3-ENi1K-Ni1-H8 (F8A2-ENi1K-Ni1-H8)	Lincolnweld LA-75	Canada	Lincolnweld 960 (made in USA)		Unlimited	A5.23/A5.23M:2011
Lincoln Electric of Canada LP	F55A3-ENi1K-Ni1-H8 (F8A2-ENi1K-Ni1-H8)	Lincolnweld LA-75	Canada	Lincolnweld 980 (made in USA)		Unlimited	A5.23/A5.23M:2011
Lincoln Electric of Canada LP	F62A2-EA1-G (F9A0-EA1-G)	Lincolnweld L-70	Canada	Lincolnweld 761 (made in USA)		Unlimited	A5.23/A5.23M:2011



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Lincoln Electric of Canada LP	F62A5-EA3K-A3-H4 (F9A6-EA3K-A3-H4)	Lincolnweld LA-90	USA	Lincolnweld 888 (made in USA)(baked at 430C for 6 hrs for hydrogen test)		Unlimited	A5.23/A5.23M:2011
Lincoln Electric of Canada LP	F9A4-ENi5-G-H2 (F62A4-ENi5-G-H2)	Lincolnweld LA-85	USA	Lincolnweld MIL800-HPNi (made in USA)	4	4	A5.23/A5.23M:2011
Tien Tai Electrode (Kunshan) Electrode Co. Ltd.	F55A3-ENi1-Ni1 (F8A2-ENi1-Ni1)	TSW--E31	China	TF-565 (made in Taiwan)	Unlimited	Unlimited	A5.23/A5.23M:2011
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	F55P2-EB2-B2 (F8P0-EB2-B2)	T Union SA EB2	China	T UV 101SJ (made in China)		Unlimited	A5.23/A5.23M:2011
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	F62P2-EB3-B3 (F9P0-EB3-B3)	T Union SA EB3	China	T UV 101SJ (made in China)		Unlimited	A5.23/A5.23M:2011
Air Liquide Canada, Inc.	E55C-Ni1-H4 (E80C-Ni1-H4)	Blueshield LA 80C-Ni1	USA	Ar + 15%CO <sub>2</sub>	-	Unlimited	A5.28/A5.28M:2005
Air Liquide Canada, Inc.	E55C-Ni1-H4 (E80C-Ni1-H4)	Blueshield LA 80C-Ni1	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.28/A5.28M:2005
Air Liquide Canada, Inc.	E55C-Ni1-H4 (E80C-Ni1-H4)	Blueshield LA 80C-Ni1	USA	Arcal 211	-	Unlimited	A5.28/A5.28M:2005
Air Liquide Canada, Inc.	E69C-G-H4 (E100C-G-H4)	Blueshield LA 100C-MG	USA	Ar + 2%O <sub>2</sub>		Unlimited	A5.28/A5.28M:2005
Air Liquide Canada, Inc.	E69C-G-H4 (E100C-G-H4)	Blueshield LA 100C-MG	USA	Ar + 15%CO <sub>2</sub>		Unlimited	A5.28/A5.28M:2005
Air Liquide Canada, Inc.	E76C-K4-H4 (E110C-K4-H4)	Blueshield LA 110C-MG	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
Air Liquide Canada, Inc.	E76C-K4-H4 (E110C-K4-H4)	Blueshield LA 110C-MG	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
ESAB GROUP CANADA, INC.	E55C-Ni1-H8 (E80C-Ni1-H8)	Coreweld 88-HSNI1	USA	Linde Mison 8C	1.2	1.2	A5.28/A5.28M:2005
ESAB GROUP INC./ ALLOY RODS	E76C-G-H4 (E110C-G-H4)	Coreweld 110	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
ESAB Group, Inc./Alloy Rods	E76C-G-H4 (E110C-G-H4)	Coreweld 110	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E76C-K4-H4 (E110C-K4-H4)	FabCOR 1100	USA	Ar + 5%CO <sub>2</sub>		Unlimited	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E76C-K4-H4 (E110C-K4-H4)	FabCOR 1100	USA	Ar + 25%CO <sub>2</sub>		Unlimited	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni1-H4 (E80C-Ni1-H4)	FabCOR 209	USA	Ar + 5%O <sub>2</sub>	-	UNLIMITED	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni1-H4 (E80C-Ni1-H4)	FabCOR EDGE Ni1	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni1-H4 (E80C-Ni1-H4)	FabCOR 209	USA	Ar + 5%CO <sub>2</sub>	-	UNLIMITED	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni1-H4 (E80C-Ni1-H4)	FabCOR EDGE Ni1	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni1-H4 (E80C-Ni1-H4)	FabCOR EDGE Ni1	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni1-H4 (E80C-Ni1-H4)	FabCOR 209	USA	Ar + 20% to 25%CO <sub>2</sub>	-	UNLIMITED	A5.28/A5.28M:2005



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Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni1-H8 (E80C-Ni1-H8)	FabCOR 80N1	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni1-H8 (E80C-Ni1-H8)	FabCOR 80N1	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni1-H8 (E80C-Ni1-H8)	FabCOR 80N1	USA	Ar + 10%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
Hyundai Welding Co., Ltd.	ER80S-Ni1	ST-1N	Korea	100% Ar	1.6	3.2	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	E55C-Ni1-H4 (E80C-Ni1-H4)	Metalshield MC-80Ni1	Canada	Ar + 1 to 5%O <sub>2</sub>	1.1	1.6	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	E55C-Ni1-H4 (E80C-Ni1-H4)	Metalshield MC-80Ni1	Canada	Ar + 5%CO <sub>2</sub>	1.1	1.6	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	E55C-Ni1-H4 (E80C-Ni1-H4)	Metalshield MC-80Ni1	Canada	Ar + 25%CO <sub>2</sub>	1.1	1.6	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	E62C-K3-H4 (E90C-K3-H4)	Metalshield MC-90	USA	Ar + 8%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	E62C-K3-H4 (E90C-K3-H4)	Metalshield MC-90	USA	Ar + 25%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	E76C-K4-H4 (E110C-K4-H4)	Metalshield MC-110	USA	Ar + 25%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	E76C-K4-H4 (E110C-K4-H4)	Metalshield MC-110	USA	Ar + 8%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER55S-D2 (ER80S-D2)	Superarc LA-90	USA	100%CO <sub>2</sub>		Unlimited	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER55S-G(ER80S-G)	Pipeliners 80Ni1	USA	Ar + 20%CO <sub>2</sub>	1	1.2	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER55S-Ni1 (ER80S-Ni1)	Superarc LA-75	USA	Ar + 10%CO <sub>2</sub>		Unlimited	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER55S-Ni1 (ER80S-Ni1)	Superarc LA-75	USA	Ar + 8%CO <sub>2</sub>		Unlimited	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER62S-D2 (ER90S-D2)	Superarc LA-90	USA	Argoshield Light		Unlimited	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER62S-D2 (ER90S-D2)	Superarc LA-90	Canada	Helistar CS		Unlimited	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER62S-D2 (ER90S-D2)	Superarc LA-90	Canada	Ar + 5%O <sub>2</sub>		Unlimited	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER62S-D2 (ER90S-D2)	Superarc LA-90	USA	Ar + 10%CO <sub>2</sub>		Unlimited	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER62S-D2 (ER90S-D2)	Superarc LA-90	USA	Ar + 5%O <sub>2</sub>		Unlimited	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER69S-G (ER100S-G)	Superarc LA-100	USA	Ar + 5%CO <sub>2</sub>	-	Unlimited	A5.28/A5.28M:2005
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER69S-G (ER100S-G)	Superarc LA-100	USA	Ar + 2%O <sub>2</sub>		Unlimited	A5.28/A5.28M:2005
National Standard LLC	ER55S-D2 (ER80S-D2)	NS-102CF	USA	100%CO <sub>2</sub>	0.9	Unlimited	A5.28/A5.28M:2005



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National Standard LLC	ER55S-D2 (ER80S-D2)	NS-102 {cu}	USA	100%CO <sub>2</sub>	0.9	Unlimited	A5.28/A5.28M:2005
Select-Arc Inc.	E55C-W2-H8 (E80C-W2-H8)	Select 80C-W	USA	Ar + 10%CO <sub>2</sub>	-	Unlimited	A5.28/A5.28M:2005
Select-Arc Inc.	E76C-K4-H4 (E110C-K4-H4)	SELECT 110C-K4	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
SELECT-ARC, INC.	E55C-Ni1-H4 (E80C-Ni1-H4)	Select 80C-Ni1	USA	Ar + 15%CO <sub>2</sub>	-	Unlimited	A5.28/A5.28M:2005
SELECT-ARC, INC.	E55C-Ni1-H4 (E80C-Ni1-H4)	Select 80C-Ni1	USA	Arcal 211	-	Unlimited	A5.28/A5.28M:2005
SELECT-ARC, INC.	E55C-Ni1-H4 (E80C-Ni1-H4)	Select 80C-Ni1	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.28/A5.28M:2005
Select-Arc, Inc.	E76C-K4-H4 (E110C-K4-H4)	SELECT 110C-K4	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
Tien Tai Electrode (Kunshan) Electrode Co. Ltd.	E55C-Ni1-H4 (E80C-Ni1-H4)	TEC-80Ni1	China	Ar + 20%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E69C-G-H4 (E100C-G-H4)	FabCOR 100N2G	USA	Ar + 15%CO <sub>2</sub>	1.2	1.2	A5.28/A5.28M:2005
Praxair Canada Inc.	ER62S-D2 (ER90S-D2)	Prostar D2	Italy	Ar + 18%CO <sub>2</sub>	0.9	Unlimited	A5.28/A5.28M:2005
SELECT-ARC, INC.	E55C-Ni2-H4(E80C-Ni2-H4)	Select 80C-Ni2	USA	Ar + 15%CO <sub>2</sub>			A5.28/A5.28M:2005
SELECT-ARC, INC.	E62C-K3-H4 (E90C-K3-H4)	Select 90C-M2	USA	Ar + 10%CO <sub>2</sub>			A5.28/A5.28M:2005
ESAB GROUP INC./ ALLOY RODS	E55C-Ni1-H8 (E80C-Ni1-H8)	Coreweld 88-HS Ni1	USA	Ar + 25%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
ESAB GROUP INC./ ALLOY RODS	E55C-Ni1-H8 (E80C-Ni1-H8)	Coreweld 88-HS Ni1	USA	Linde Mison 25C	1.2	1.6	A5.28/A5.28M:2005
ESAB GROUP INC./ ALLOY RODS	E55C-Ni1-H8 (E80C-Ni1-H8)	Coreweld 88-HS Ni1	USA	Ar + 8%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni1-H4 (E80C-Ni1-H4)	FabCOR 80N1	USA	Stargold LowHy 15	1.2	1.2	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni2-H4(E80C-Ni2-H4)	FabCOR 80N2	USA	Ar + 15%CO <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E55C-Ni2-H4(E80C-Ni2-H4)	FabCOR 80N2	USA	Ar + 2%O <sub>2</sub>	1.2	1.6	A5.28/A5.28M:2005
KUNSHAN GINTUNE WELDING CO., LTD.	E55C-Ni1-H4 (E80C-Ni1-H4)	GCR-81Ni1M	China	Ar + 20%CO <sub>2</sub>	1.0	1.6	A5.28/A5.28M:2005
SELECT-ARC, INC.	E55C-Ni1-H4 (E80C-Ni1-H4)	Select 80C-Ni1LS	USA	Ar + 15%CO <sub>2</sub>	-	unlimited	A5.28/A5.28M:2005
Air Liquide Canada, Inc.	E551T1-Ni1C-JH4 (E81T1-Ni1C-JH4)	Blueshield LA T-91 C60 Ni1	USA	100%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010
Air Liquide Canada, Inc.	E551T1-Ni1M-JH4 (E81T1-Ni1M-JH4)	Blueshield LA T-91 C60 Ni1	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010
Air Liquide Canada, Inc.	E551T1-Ni2C-H8 (E81T1-Ni2C-H8)	Blueshield LA 81T1-Ni2	USA	100%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010



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Air Liquide Canada, Inc.	E551T1-Ni2M-H8 (E81T1-Ni2M-H8)	Blueshield LA 81T1-Ni2	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010
Air Liquide Canada, Inc.	E551T1-W2C-H8 (E81T1-W2C-H8)	Blueshield LA 81T1-W2	USA	100%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010
Air Liquide Canada, Inc.	E551T1-W2M-H8 (E81T1-W2M-H8)	Blueshield LA 81T1-W2	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010
Air Liquide Canada, Inc.	E621T1-K2C-H8 (E91T1-K2C-H8)	Blueshield LA T-91 K2	USA	100%CO <sub>2</sub>	-	1.6	A5.29/A5.29M:2010
Air Liquide Canada, Inc.	E621T1-K2M-H8 (E91T1-K2M-H8)	Blueshield LA T-91 K2	USA	Ar + 15%CO <sub>2</sub>		1.6	A5.29/A5.29M:2010
Air Liquide Canada, Inc.	E761T1-K3M-JH8 (E111T1-K3M-JH8)	Blueshield LA 111T1-K3M	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010
AIR LIQUIDE WELDING FRANCE / MP305 SPS S.R.L.	E551T1-Ni1M-H8 (E81T1-Ni1M-H8)	SAFDUAL 128	Romania	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Arctec Alloys Limited	E551T1-Ni1M (E81T1-Ni1M)	FCS 224 N	Korea	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.29/A5.29M:2010
Arctec Alloys Limited	E551T1-Ni1MJ-H8 (E81T1-Ni1MJ-H8)	FCS 223 N	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.29/A5.29M:2010
Eagle Alloys Ltd.	E551T1-Ni1M-H8 (E81T1-Ni1M-H8)	Eagle 881 FMG	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Eagle Alloys Ltd.	E81T1-Ni1C-H8	Eagle 881 FGS	Korea	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
ESAB Group, Inc./Alloy Rods	E551T1-Ni1C-H8 (E81T1-Ni1C-H8)	Dual Shield 810X-Ni1	USA	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
ESAB Group, Inc./Alloy Rods	E551T1-Ni1M-JH4 (E81T1-Ni1M-JH4)	Dual Shield II 80-Ni1H4	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.29/A5.29M:2010
ESAB Group, Inc./Alloy Rods	E551T1-Ni2C-H8 (E81T1-Ni2C-H8)	Dual Shield 8000-Ni2	USA	100%CO <sub>2</sub>		Unlimited	A5.29/A5.29M:2010
ESAB Group, Inc./Alloy Rods	E551T1-Ni2M-H8 (E81T1-Ni2M-H8)	Dual Shield 8000-Ni2	USA	Ar + 20% to 25%CO <sub>2</sub>		Unlimited	A5.29/A5.29M:2010
ESAB Group, Inc./Alloy Rods	E551T1-W2C-H8 (E81T1-W2C-H8)	Dual Shield 8100-W	USA	100%CO <sub>2</sub>		Unlimited	A5.29/A5.29M:2010
ESAB Group, Inc./Alloy Rods	E760T5-K4C-H8 (E110T5-K4C-H8)	Dual Shield T-115	USA	100%CO <sub>2</sub>	2.4	2.4	A5.29/A5.29M:2010
ESAB Group, Inc./Alloy Rods	E760T5-K4M-H4 (E110T5-K4M-H4)	Dual Shield T-115	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
ESAB Group, Inc./Alloy Rods	E761T1-K3M-H4 (E111T1-K3M-H4)	Dual Shield II 110	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010
ESAB SEAH CORPORATION	E551T1-K2C-H4 (E81T1-K2C-H4)	Dual Shield II 81-K2	Korea	100%CO <sub>2</sub>	1.2	1.4	A5.29/A5.29M:2010
Eutectic Canada Inc.	E551T1-Ni1C-JH4 (E81T1-Ni1C-JH4)	Endotec Alloy DO 271S	Italy	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Eutectic Canada Inc.	E551T1-Ni1M-JH4 (E81T1-Ni1M-JH4)	Endotec Alloy DO 271S	Italy	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E550T1-Ni1C-H8 (E80T1-Ni1C-H8)	FabCO 81N1	USA	100%CO <sub>2</sub>	1.6	2.4	A5.29/A5.29M:2010





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Hobart Brothers Co., Tubular Wire Business (Plant 2)	E550T1-Ni1M-H8 (E80T1-Ni1M-H8)	FabCO 81N1	USA	Ar + 10%CO <sub>2</sub>	1.6	2.4	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E551T1-B2C (E81T1-B2C)	FabCO 811B2	USA	100%CO <sub>2</sub>	1.1	1.6	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E551T1-Ni1C-JH4 (E81T1-Ni1C-JH4)	FabCO 811N1	USA	100%CO <sub>2</sub>	1.1	1.6	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E551T1-Ni1M-JH4 (E81T1-Ni1M-JH4)	FabCO 811N1	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E551T1-Ni2C-JH4 (E81T1-Ni2C-JH4)	FabCO 803	USA	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E551T1-Ni2M-H8 (E81T1-Ni2C-H8)	FabCO 803	USA	Linde Mison 15C	1.2	1.6	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E551T1-Ni2M-JH4 (E81T1-Ni2M-JH4)	FabCO 803	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E621T1-K2C-H8 (E91T1-K2C-H8)	FabCO 991K2	USA	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E760T5-K4C-H4 (E110T5-K4C-H4)	FabCO 115	USA	100%CO <sub>2</sub>	1.2	2.4	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E761T1-K3M-JH8 (E111T1-K3M-JH8)	FabCO 110	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Hyundai Welding Co., Ltd.	E551T1-K2C-H4 (E81T1-K2C-H4)	Supercored 81-K2	Korea	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Hyundai Welding Co., Ltd.	E551T1-Ni1M-H4 (E81T1-Ni1M-H4)	Supercored 81MAG	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.29/A5.29M:2010
HYUNDAI WELDING CO., LTD.	E621T1-K2C-H8 (E91T1-K2C-H8)	SC-91K2 Cored	Korea	100%CO <sub>2</sub>	1.2	1.4	A5.29/A5.29M:2010
HYUNDAI WELDING CO., LTD.	E621T1-Ni2C-J H4 (E91T1-Ni2C-J H4)	SC-91LT	Korea	100%CO <sub>2</sub>	1.2	1.4	A5.29/A5.29M:2010
ITW WELDING GmbH	E551T1-GM-JH4 (E81T1-GM-JH4)	Megafil 781R	Germany	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.29/A5.29M:2010
ITW WELDING GmbH	E551T1-Ni1M-JH4 (E81T1-Ni1M-JH4)	Megafil 821R	Germany	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Kiswel Ltd.	E760T1-K3C-H8 (E110T1-K3C-H8)	K-110TK3	Korea	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Kobe Steel, Ltd.	E551T1-B2C (E81T1-B2C)	Trustarc DW-81B2	Japan	100%CO <sub>2</sub>	1.2	1.2	A5.29/A5.29M:2010
Kobe Steel, Ltd.	E551T1-B2M (E81T1-B2M)	Trustarc DW-81B2	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.29/A5.29M:2010
Kobe Steel, Ltd.	E551T1-Ni1MJ-H8 (E81T1-Ni1MJ-H8)	Trustarc DW-A81Ni1	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	A5.29/A5.29M:2010
Kobe Steel, Ltd.	E621T1-B3C (E91T1-B3C)	Trustarc DW-91B3	Japan	100%CO <sub>2</sub>	1.2	1.2	A5.29/A5.29M:2010
Kobe Steel, Ltd.	E621T1-B3M (E91T1-B3M)	Trustarc DW-91B3	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY	E621T1-K2M-H8 (E91T1-K2M-H8)	Outersield 91K2-H	USA	Ar + 15%CO <sub>2</sub>	1.1	1.6	A5.29/A5.29M:2010



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LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T8-K6-H16 (E71T8-K6-H16)	Innershield NR-207	USA	None	1.7	2.0	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T8-Ni1-H16 (E71T8-Ni1-H16)	Innershield NR-203 Ni1%	USA	-	2	2.4	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491TG-G-H16 (E71TG-G-H16)	Innershield NR-212	USA	-	1.1	2.4	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E551T1-K2C-JH4	UltraCore 81K2C-H	USA	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E551T1-K2M-JH4	UltraCore 81K2A75-H	USA	Ar + 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E551T1-Ni1C-JH4 (E81T1-Ni1C-JH4)	UltraCore 81Ni1C-H	USA	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E551T1-Ni1C-JH4 (E81T1-Ni1C-JH4)	UltraCore 81Ni1C-H Plus	USA	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E551T1-Ni1M-JH4 (E81T1-Ni1M-JH4)	UltraCore 81Ni1A75-H	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E551T1-Ni1M-JH4 (E81T1-Ni1M-JH4)	UltraCore 81Ni1M-H Plus	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E551T1-Ni2C-JH4 (E81T1-Ni2C-JH4)	UltraCore 81Ni2C-H	USA	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E551T1-Ni2M-JH4 (E81T1-Ni2M-JH4)	UltraCore 81Ni2A75-H	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E621T1-K2M-H8 (E91T1-K2M-H8)	Outershield 91K2-H	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	A5.29/A5.29M:2010
LINCOLN SMITWELD B.V.	E551T1-K2M-JH4 (E81T1-K2M-JH4)	Outershield 81K2-H	Netherlands	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	A5.29/A5.29M:2010
Nippon Steel & Sumikin Welding Co., Ltd.	E551T1-GC-H4	NSSW SF-3E	Japan	100%CO <sub>2</sub>	1.2	1.2	A5.29/A5.29M:2010
Nippon Steel & Sumikin Welding Co., Ltd.	E551T1-GM-H4 (E81T1-GM-H4)	NSSW SF-3AM	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Postle Industries, Inc.	E621T1-K2C-H8 (E91T1-K2C-H8)	Postalloy 3044 FCG	USA	100%CO <sub>2</sub>	-	1.6	A5.29/A5.29M:2010
Select-Arc Inc.	E551T1-W2C-H8 (E81T1-W2C-H8)	Select 810W	USA	100%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010
Select-Arc Inc.	E551T1-W2M-H8 (E81T1-W2M-H8)	Select 810W	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010
SELECT-ARC, INC.	E551T1-K2M-JH4 (E81T1-K2M-JH4)	Select 812-K2	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
SELECT-ARC, INC.	E551T1-Ni1C-JH4 (E81T1-Ni1C-JH4)	Select 820-Ni1	USA	100%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010
SELECT-ARC, INC.	E551T1-Ni1M-JH4 (E81T1-Ni1M-JH4)	Select 820-Ni1	USA	Ar + 20% to 25%CO <sub>2</sub>	-	Unlimited	A5.29/A5.29M:2010
SELECT-ARC, INC.	E551T1-Ni2M-JH4 (E81T1-Ni2M-JH4)	Select 820-Ni2	USA	Ar + 20% to 25%CO <sub>2</sub>		1.6	A5.29/A5.29M:2010
SODEL LIMITEE	E551T1-GM-JH4 (E81T1-GM-JH4)	Wirogas 7114	USA	Ar + 20% to 25%CO <sub>2</sub>		1.6	A5.29/A5.29M:2010



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Tien Tai Electrode (Kunshan) Electrode Co. Ltd.	E551T1-Ni1C-JH4 (E81T1-Ni1C-JH4)	TWE-811Ni1	China	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Vanguard Steel Limited	E551T1-Ni1C-H8 (E81T1-Ni1C-H8)	Bonarc E 81T1 Ni1	Korea	100%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
Vanguard Steel Limited	E551T1-Ni1M-H8 (E81T1-Ni1M-H8)	Bonarc E 81T1 Ni1M	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	A5.29/A5.29M:2010
VOESTALPINE BÖHLER WELDING FILEUR S.P.A.	E551T1-Ni1C-JH4 (E81T1-Ni1C-JH4)	BÖHLER Ti 60 T-FD	Italy	100%CO <sub>2</sub>	1.0	1.6	A5.29/A5.29M:2010
VOESTALPINE BÖHLER WELDING FILEUR S.P.A.	E551T1-Ni1M-JH4 (E81T1-Ni1M-JH4)	BÖHLER Ti 60 T-FD	Italy	Ar + 20% to 25%CO <sub>2</sub>	1.0	1.6	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T1-GM-H8 (E71T1-GM-H8)	FabCO Element 71Ni1M	USA	Ar + 25%CO <sub>2</sub>	-	unlimited	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E551T1-GM-H4 (E81T1-GM-H4)	FabCO Element 81K2 M	USA	Stargold LowHy 25	1.2	1.2	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E691T1-GM-H4 (E101T1-GM-H4)	FabCO 101M	USA	Stargold LowHy 25	1.2	1.2	A5.29/A5.29M:2010
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E761T1-GM-H4 (E111T1-GM-H4)	FabCO 750M	USA	Stargold LowHy 25	1.2	1.2	A5.29/A5.29M:2010
ITW WELDING GmbH	E551T1-Ni1M-JH4 (E81T1-Ni1M-JH4)	Megafil 821R	Germany	Stargold LowHy 25	1.2	1.2	A5.29/A5.29M:2010
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T11-AZ-CS3-H16 (E71T11-AZ-CS3-H16)	Innershield NR-211-MP	Canada	N/A	0.8	0.9	
VOESTALPINE BÖHLER WELDING FILEUR S.P.A.	E760T15-M20A6-K4-H4 (E110T15-M20A8-K4-H4)	BÖHLER 700 T-MC	Italy	M20 (Greater than Ar + 5% CO <sub>2</sub> to Ar + 15%CO <sub>2</sub> )	1.0	1.6	
VOESTALPINE BÖHLER WELDING FILEUR S.P.A.	E760T15-M21A6-K4-H4 (E110T15-M21A8-K4-H4)	BÖHLER 700 T-MC	Italy	M21 (Greater than Ar + 15% CO <sub>2</sub> to Ar + 25%CO <sub>2</sub> )	1.0	1.6	
LINCOLN ELECTRIC COMPANY	E5510-G	Pipeliners Arc 80	USA	-	4.0	5.0	A5.5/A5.5M:2006
LINCOLN ELECTRIC COMPANY	E5510-P1	Pipeliners Arc 80	USA	-	4.0	5.0	A5.5/A5.5M:2006
LINCOLN ELECTRIC COMPANY OF CANADA LP	E6218M-H4R (E9018M-H4R)	Excalibur 9018M MR	USA	-		5	A5.5/A5.5M:2006
LINCOLN ELECTRIC COMPANY OF CANADA LP	E6245-P2-H4R (E9045-P2-H4R)	Pipeliners LH-D90	USA	-	3.2	4.5	A5.5/A5.5M:2006
LINCOLN ELECTRIC COMPANY OF CANADA LP	E6945-P2-H4R (E10045-P2-H4R)	Pipeliners LH-D100	USA	-	3.2	5	A5.5/A5.5M:2006
LINCOLN ELECTRIC COMPANY OF CANADA LP	E6945-P2-H4R (E8045-P2-H4R)	Pipeliners LH-D80	USA	-	3.2	4.5	A5.5/A5.5M:2006
LINCOLN ELECTRIC COMPANY OF CANADA LP	E7618-M-H4R (E11018M-H4R)	Excalibur 11018M MR	USA	-	-	5	A5.5/A5.5M:2006
LINCOLN SMITWELD B.V	E4918-G-H4R	KRYO 1	Netherlands	N/A		5.0	A5.5/A5.5M:2006
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	E8018-B2-H4R	Bohler E8018-B2 (DCEP only)	China	N/A		Unlimited	A5.5/A5.5M:2006
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	E9018-B3-H4R	Bohler E9018-B3 (DCEP only)	China	N/A		Unlimited	A5.5/A5.5M:2006



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LINCOLN ELECTRIC COMPANY OF CANADA LP	ERCuNi	Techalloy 413	USA			Unlimited	A5.7/A5.7M:2007
National Standard LLC	ERCuSi-A	NS-656	USA	-	-	Unlimited	A5.7/A5.7M:2007
TECHALLOY, INC.	ERCuNi	Techalloy 413	USA	-		Unlimited	A5.7/A5.7M:2007
EXOCOR	ER2209	Executive 2209	Taiwan	-	-	Unlimited	A5.9/5.9M:2012
EXOCOR	ER2594	Executive 2594	Taiwan	-	-	Unlimited	A5.9/5.9M:2012
EXOCOR	ER310	Executive 310	Taiwan	-	-	Unlimited	A5.9/5.9M:2012
EXOCOR	ER347	Executive 347	Taiwan	-	-	Unlimited	A5.9/5.9M:2012
Air Liquide Canada Inc.	ER308L	Blueshield 640-308L	Taiwan	-			A5.9/A5.9M:2012
Air Liquide Canada Inc.	ER309L	Blueshield 640-309L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Air Liquide Canada Inc.	ER316L	Blueshield 640-316L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Air Liquide Canada, Inc.	ER308H	Blueshield 640-308H	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Air Liquide Canada, Inc.	ER308L	Blueshield 630-308L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Air Liquide Canada, Inc.	ER308LSi	Blueshield 640-308L HiSiI	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Air Liquide Canada, Inc.	ER309L	Blueshield 630-309L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Air Liquide Canada, Inc.	ER309LSi	Blueshield 640-309L HiSiI	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Air Liquide Canada, Inc.	ER316L	Blueshield 630-316L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Air Liquide Canada, Inc.	ER316LSi	Blueshield 640-316L HiSiI	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Air Liquide Canada, Inc.	ER317L	Blueshield 640-317L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Air Liquide Canada, Inc.	ER409Nb	Blueshield 640-409Cb	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Arcos Industries, LLC	ER308/308L	308L	USA				A5.9/A5.9M:2012
Arcos Industries, LLC	ER308LSi	308LSi	USA				A5.9/A5.9M:2012
Arcos Industries, LLC	ER309/309L	309L	USA				A5.9/A5.9M:2012
Arcos Industries, LLC	ER309LSi	309LSi	USA				A5.9/A5.9M:2012
Arcos Industries, LLC	ER316/316L	316L	USA				A5.9/A5.9M:2012
Arcos Industries, LLC	ER316LSi	316LSi	USA				A5.9/A5.9M:2012
Changzhou Huatong Welding Wire Co. Ltd.	ER308L	ER308L	China	-		Unlimited	A5.9/A5.9M:2012
Changzhou Huatong Welding Wire Co. Ltd.	ER308LSi	ER308LSi	China	-		Unlimited	A5.9/A5.9M:2012
Changzhou Huatong Welding Wire Co. Ltd.	ER309L	ER309L	China	-		Unlimited	A5.9/A5.9M:2012
Changzhou Huatong Welding Wire Co. Ltd.	ER309LSi	ER309LSi	China	-		Unlimited	A5.9/A5.9M:2012



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Changzhou Huatong Welding Wire Co. Ltd.	ER316L	ER316L	China	-		Unlimited	A5.9/A5.9M:2012
Changzhou Huatong Welding Wire Co. Ltd.	ER316LSi	ER316LSi	China	-		Unlimited	A5.9/A5.9M:2012
ESAB CZ, s.r.o., clen koncernu (ESAB CZ)	ER308L	OK Tigrod 308L	Czech Republic	-	-	Unlimited	A5.9/A5.9M:2012
ESAB CZ, s.r.o., clen koncernu (ESAB CZ)	ER308LSi	OK Autrod 308LSi	Czech Republic	-	-	Unlimited	A5.9/A5.9M:2012
ESAB CZ, s.r.o., clen koncernu (ESAB CZ)	ER309L	OK Tigrod 309L	Czech Republic	-	-	Unlimited	A5.9/A5.9M:2012
ESAB CZ, s.r.o., clen koncernu (ESAB CZ)	ER309LSi	OK Autrod 309LSi	Czech Republic	-	-	Unlimited	A5.9/A5.9M:2012
ESAB CZ, s.r.o., clen koncernu (ESAB CZ)	ER316L	OK Tigrod 316L	Czech Republic	-	-	Unlimited	A5.9/A5.9M:2012
ESAB CZ, s.r.o., clen koncernu (ESAB CZ)	ER316LSi	OK Autrod 316LSi	Czech Republic	-	-	Unlimited	A5.9/A5.9M:2012
EXOCOR	ER308H	Executive 308H	Taiwan	-	-	-	A5.9/A5.9M:2012
EXOCOR	ER308L	Executive 308L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
EXOCOR	ER308LSi	Executive 308LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
EXOCOR	ER309L	Executive 309L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
EXOCOR	ER309LSi	Executive 309LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
EXOCOR	ER316L	Executive 316L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
EXOCOR	ER316LSi	Executive 316LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
EXOCOR	ER317L	Executive 317L	Taiwan	-	-	-	A5.9/A5.9M:2012
EXOCOR	ER409Nb	Executive 409Cb	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
EXOCOR	ER630	Executive 630	Taiwan	-	-	-	A5.9/A5.9M:2012
Hyundai Welding Co., Ltd.	ER316L	ST-316L	Korea			Unlimited	A5.9/A5.9M:2012
Kuang Tai Metal Ind. Co. Ltd.	ER308H	KMS-308H	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Kuang Tai Metal Ind. Co. Ltd.	ER308L	KTS-308L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Kuang Tai Metal Ind. Co. Ltd.	ER308LSi	KMS-308LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Kuang Tai Metal Ind. Co. Ltd.	ER309L	KTS-309L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Kuang Tai Metal Ind. Co. Ltd.	ER309LSi	KMS-309LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Kuang Tai Metal Ind. Co. Ltd.	ER316L	KTS-316L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Kuang Tai Metal Ind. Co. Ltd.	ER316LSi	KMS-316LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Kuang Tai Metal Ind. Co. Ltd.	ER317L	KMS-317L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Kuang Tai Metal Ind. Co. Ltd.	ER409Nb	KMS-409Cb / KMS 409Nb	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Kuang Tai Metal Ind. Co. Ltd.	ER630	KTS-630	Taiwan	-	-	-	A5.9/A5.9M:2012
Kuang Tai Metal Ind. Co. Ltd.	ER630	KMS-630	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER2209	KMS-2209	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012



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KUANG TAI METAL IND. CO., LTD.	ER2209	KTS-2209	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER2594	KMS-2594	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER2594	KTS-2594	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER308L	KMS-308L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER309L	KMS-309L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER310	KTS-310	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER310	KMS 310	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER316L	KMS-316L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER317L	KTS-317L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER347	KMS-347	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER347	KTS-347	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER410NiMo	KMS-410NiMo	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
KUANG TAI METAL IND. CO., LTD.	ER410NiMo	KTS-410NiMo	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER2209	Lincoln ER2209	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER2209	Lincolnweld 2209	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER2209	BlueMax MIG 2209	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER2594	Lincoln ER2594	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER2594	BlueMax MIG 2594	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER2594	Lincolnweld 2594	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER308	Lincoln ER308/308L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER308	Lincolnweld 308/308L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER308	BlueMax MIG 308L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER308L	BlueMax MIG 308L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER308L	Lincolnweld 308/308L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER308L	Lincoln ER308/308L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER308LSi	MUREX 308LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER309	Lincoln ER309/309L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER309	BlueMax MIG 309L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER309	Lincolnweld 309/309L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER309L	BlueMax MIG 309L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER309L	Lincoln ER309/309L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER309L	Lincolnweld 309/309L	USA			Unlimited	A5.9/A5.9M:2012



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LINCOLN ELECTRIC COMPANY	ER309LSi	MUREX 309LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER310	Lincolnweld 310	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER310	Lincoln ER310	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER310	BlueMax MIG 310	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER312	Lincoln ER312	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER312	BlueMax MIG 312	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER316	Lincolnweld 316/316L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER316	BlueMax MIG 316L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER316	Lincoln ER316/316L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER316L	BlueMax MIG 316L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER316L	Lincolnweld 316/316L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER316L	Lincoln ER316/316L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER316LSi	MUREX 316LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER317	Lincoln ER317/317L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER317	BlueMax MIG 317L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER317	Lincolnweld 317/317L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER317L	Lincolnweld 317/317L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER317L	BlueMax MIG 317L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER317L	Lincoln ER317/317L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER320LR	Lincoln ER320LR	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER320LR	BlueMax MIG 320LR	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER320LR	Lincolnweld 320LR	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER330	BlueMax MIG 330	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER347	BlueMax MIG 347	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER347	Lincoln ER347	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER347	Lincolnweld 347	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER410	Lincoln ER410	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER410	BlueMax MIG 410	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER630	BlueMax MIG 630	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER630	Lincoln ER630	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	ER630	Lincolnweld 630	USA			Unlimited	A5.9/A5.9M:2012



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LINCOLN ELECTRIC COMPANY OF CANADA LP	ER2209	Techalloy 2209	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER2594	Techalloy 2594	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER308	Lincolnweld 308/308L	USA	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER308	Techalloy 308/308L	USA			Unlimited	A5.9/A5.9M:2012
Lincoln Electric Company of Canada LP	ER308L	Murex 308L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER308L	Techalloy 308/308L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER308L	Lincolnweld 308/308L	USA	-	-	Unlimited	A5.9/A5.9M:2012
Lincoln Electric Company of Canada LP	ER308LSi	Murex 308LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER308Si	Techalloy 308LHS	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER309	Lincolnweld 309/309L	USA	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER309	Techalloy 309/309L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER309L	Lincolnweld 309/309L	USA	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER309L	Techalloy 309/309L	USA			Unlimited	A5.9/A5.9M:2012
Lincoln Electric Company of Canada LP	ER309L	Murex 309L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
Lincoln Electric Company of Canada LP	ER309LSi	Murex 309LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER310	Techalloy 310	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER312	Techalloy 312	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER316	Techalloy 316/316L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER316	Lincolnweld 316/316L	USA	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER316L	Techalloy 316/316L	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER316L	Lincolnweld 316/316L	USA	-	-	Unlimited	A5.9/A5.9M:2012
Lincoln Electric Company of Canada LP	ER316L	Murex 316L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER316LSi	Murex 316LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER317L	Techalloy 317L	USA			Unlimited	A5.9/A5.9M:2012





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LINCOLN ELECTRIC COMPANY OF CANADA LP	ER320LR	Techalloy 320LR	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER330	Techalloy 330	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER347	Techalloy 347	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER410	Techalloy 410	USA			Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY OF CANADA LP	ER630	Techalloy 630	USA			Unlimited	A5.9/A5.9M:2012
Lincoln Electric of Canada LP	ER308LSi	Blue Max Mig 308LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012
Lincoln Electric of Canada LP	ER309LSi	Blue Max Mig 309LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012
Lincoln Electric of Canada LP	ER316LSi	Blue Max Mig 316LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012
Linde Canada Limited	ER308L	ER308L	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Linde Canada Limited	ER308LSi	ER308LSi	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Linde Canada Limited	ER309L	ER309L	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Linde Canada Limited	ER309LSi	ER309LSi	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Linde Canada Limited	ER316L	ER316L	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Linde Canada Limited	ER316LSi	ER316LSi	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Map Canada Ltd.	ER308L	Super MIG 308L	China	-		Unlimited	A5.9/A5.9M:2012
Map Canada Ltd.	ER308LSi	Super Mig 308LSi	China	-		Unlimited	A5.9/A5.9M:2012
Map Canada Ltd.	ER309L	Super MIG 309L	China	-		Unlimited	A5.9/A5.9M:2012
Map Canada Ltd.	ER309LSi	Super Mig 309LSi	China	-		Unlimited	A5.9/A5.9M:2012
Map Canada Ltd.	ER316L	Super MIG 316L	China	-		Unlimited	A5.9/A5.9M:2012
Map Canada Ltd.	ER316LSi	Super Mig 316LSi	China	-		Unlimited	A5.9/A5.9M:2012
METRODE PRODUCTS LIMITED	ER2209	ER329N MIG	England		0.8	3.2	A5.9/A5.9M:2012
METRODE PRODUCTS LIMITED	ER2209	ER329N TIG	England		0.8	3.2	A5.9/A5.9M:2012
National Standard LLC	ER308L	NS-308L	USA	-	-	Unlimited	A5.9/A5.9M:2012
National Standard LLC	ER308LSi	NS-308LHS	USA	-	-	Unlimited	A5.9/A5.9M:2012
National Standard LLC	ER309L	NS-309L	USA	-	-	Unlimited	A5.9/A5.9M:2012
National Standard LLC	ER309LSi	NS-309LHS	USA	-	-	Unlimited	A5.9/A5.9M:2012
National Standard LLC	ER316L	NS-316L	USA	-	-	Unlimited	A5.9/A5.9M:2012
National Standard LLC	ER316LSi	NS-316LHS	USA	-	-	Unlimited	A5.9/A5.9M:2012
National Standard LLC	ER409Nb	NS-409Cb	USA	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER2209	NMS 1.4462	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012



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Company Name	Classification	Electrode Designation	Point of Manufacture	Flux Gas	Min	Max	Standard
Novametal S.A.	ER2594	NMS 25.9.4	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER308H	NMS 308H	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER308L	NMS 308AWS	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER308LSi	NMS 308LSi	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER309	NMS 309H	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER309L	NMS 309L	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER309LSi	NMS 309LSi	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER310	NMS 310	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER312	NMS 312	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER316H	NMS 316H	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER316L	NMS 316AWS	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER316LSi	NMS 316LSi	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER317L	NMS 317L	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER347	NMS 347	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER347Si	NMS 347 Si	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER385	NMS 904L	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
Novametal S.A.	ER409Nb	NMS 409	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
PANCHMAHAL STEEL LIMITED	ER308L	PANCH MIG ER308L	India			Unlimited	A5.9/A5.9M:2012
PANCHMAHAL STEEL LIMITED	ER308L	PANCH TIG ER308L	India			Unlimited	A5.9/A5.9M:2012
PANCHMAHAL STEEL LIMITED	ER308LSi	PANCH MIG ER308LSi	INDIA		0.8	1.6	A5.9/A5.9M:2012
PANCHMAHAL STEEL LIMITED	ER309L	PANCH TIG 309L	India			Unlimited	A5.9/A5.9M:2012
PANCHMAHAL STEEL LIMITED	ER309L	PANCH MIG 309L	India			Unlimited	A5.9/A5.9M:2012
PANCHMAHAL STEEL LIMITED	ER309LSi	PANCH MIG ER309LSi	India		0.8	1.6	A5.9/A5.9M:2012
PANCHMAHAL STEEL LIMITED	ER316L	PANCH TIG 316L	India			Unlimited	A5.9/A5.9M:2012
PANCHMAHAL STEEL LIMITED	ER316L	PANCH MIG 316L	India			Unlimited	A5.9/A5.9M:2012
PANCHMAHAL STEEL LIMITED	ER316LSi	PANCH MIG 316LSi	India		0.8	1.6	A5.9/A5.9M:2012
Praxair Canada Inc.	ER308L	308LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012
Praxair Canada Inc.	ER308L	308L	USA	-	-	Unlimited	A5.9/A5.9M:2012
Praxair Canada Inc.	ER309L	309L	USA	-	-	Unlimited	A5.9/A5.9M:2012
Praxair Canada Inc.	ER309L	309LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012
Praxair Canada Inc.	ER316L	316L	USA	-	-	Unlimited	A5.9/A5.9M:2012
Praxair Canada Inc.	ER316L	316LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012



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Rodacciai S.P.A.	ER308L	RW 308 LAWS	Italy	-	-	Unlimited	A5.9/A5.9M:2012
Rodacciai S.P.A.	ER308LSi	RW 308 LSi	Italy	-	-	Unlimited	A5.9/A5.9M:2012
Rodacciai S.P.A.	ER309L	RW 309 L	Italy	-	-	Unlimited	A5.9/A5.9M:2012
Rodacciai S.P.A.	ER309LSi	RW 309 LSi	Italy	-	-	Unlimited	A5.9/A5.9M:2012
Rodacciai S.P.A.	ER316L	RW 316 LAWS	Italy	-	-	Unlimited	A5.9/A5.9M:2012
Rodacciai S.P.A.	ER316LSi	RW 316 LSi	Italy	-	-	Unlimited	A5.9/A5.9M:2012
SANDVIK MATERIALS TECHNOLOGY	ER2209	ER2209	USA	-	-	Unlimited	A5.9/A5.9M:2012
Sandvik Materials Technology	ER308L	ER308/308L	USA	-	-	Unlimited	A5.9/A5.9M:2012
Sandvik Materials Technology	ER308LSi	ER308Si/308LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012
Sandvik Materials Technology	ER309L	ER309/309L	USA	-	-	Unlimited	A5.9/A5.9M:2012
Sandvik Materials Technology	ER309LSi	ER309Si/309LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012
Sandvik Materials Technology	ER316L	ER316/316L	USA	-	-	Unlimited	A5.9/A5.9M:2012
Sandvik Materials Technology	ER316LSi	ER316Si/316LSi	USA	-	-	Unlimited	A5.9/A5.9M:2012
Sandvik Materials Technology	ER317L	ER317/317L	USA	-	-	Unlimited	A5.9/A5.9M:2012
Sandvik Materials Technology	ER347	ER347	USA	-	-	Unlimited	A5.9/A5.9M:2012
Select-Arc Inc.	EC308L	SelectAlloy 308L-C Stainless	USA	-	-	Unlimited	A5.9/A5.9M:2012
Select-Arc Inc.	EC308LSi	SelectAlloy 308LSi-C Stainless	USA	-	-	Unlimited	A5.9/A5.9M:2012
Select-Arc Inc.	EC309L	SelectAlloy 309L-C Stainless	USA	-	-	Unlimited	A5.9/A5.9M:2012
Select-Arc Inc.	EC309LSi	SelectAlloy 309LSi-C Stainless	USA	-	-	Unlimited	A5.9/A5.9M:2012
Select-Arc Inc.	EC316L	SelectAlloy 316L-C Stainless	USA	-	-	Unlimited	A5.9/A5.9M:2012
Select-Arc Inc.	EC316LSi	SelectAlloy 316LSi-C Stainless	USA	-	-	Unlimited	A5.9/A5.9M:2012
Selectarc Industries S.A.S.	ER308L	Selectarc TIG 308L	Italy	-	-	Unlimited	A5.9/A5.9M:2012
Selectarc Industries S.A.S.	ER308LSi	Selectarc MIG 308LSi	Italy	-	-	Unlimited	A5.9/A5.9M:2012
Selectarc Industries S.A.S.	ER309L	Selectarc TIG 309L	Italy	-	-	Unlimited	A5.9/A5.9M:2012
Selectarc Industries S.A.S.	ER309LSi	Selectarc MIG 309LSi	Italy	-	-	Unlimited	A5.9/A5.9M:2012
Selectarc Industries S.A.S.	ER316L	Selectarc TIG 316L	Italy	-	-	Unlimited	A5.9/A5.9M:2012
Selectarc Industries S.A.S.	ER316LSi	Selectarc MIG 316LSi	Italy	-	-	Unlimited	A5.9/A5.9M:2012
SHANGHAI LINCOLN ELECTRIC CO. LTD.	EC409	Primalloy T-409Ti	China	-	1.2	1.2	A5.9/A5.9M:2012
SHANGHAI LINCOLN ELECTRIC CO. LTD.	EC439	Primalloy T-439Ti	China	-	1.2	1.2	A5.9/A5.9M:2012
SODEL LIMITEE	ER308L	308L	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
SODEL LIMITEE	ER308LSi	308LHS	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012



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SODEL LIMITEE	ER309L	309L	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
SODEL LIMITEE	ER309LSi	309LHS	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
SODEL LIMITEE	ER316L	316L	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
SODEL LIMITEE	ER316LSi	316LHS	Switzerland	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER2209	Techalloy 2209	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER308	Techalloy 308/308L	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER308L	Techalloy 308/308L	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER308LSi	Techalloy 308LHS	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER309	Techalloy 309/309L	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER309L	Techalloy 309/309L	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER309LSi	Techalloy 309LHS	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER310	Techalloy 310	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER312	Techalloy 312	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER316	Techalloy 316/316L	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER316L	Techalloy 316/316L	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER316LSi	Techalloy 316LHS	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER317L	Techalloy 317/317L	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER320LR	Techalloy 320LR	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER347	Techalloy 347	USA	-	-	Unlimited	A5.9/A5.9M:2012
TECHALLOY, INC.	ER630	Techalloy 630	USA	-	-	Unlimited	A5.9/A5.9M:2012
Techniweld Products Corporation	ER308L	Powerweld ER308L	China	-	-	Unlimited	A5.9/A5.9M:2012
TECHNIWELD PRODUCTS CORPORATION	ER308L	Powerweld 308L	India	-	-	Unlimited	A5.9/A5.9M:2012
Techniweld Products Corporation	ER309L	Powerweld ER309L	China	-	-	Unlimited	A5.9/A5.9M:2012
TECHNIWELD PRODUCTS CORPORATION	ER316L	Powerweld 316L	India	-	-	Unlimited	A5.9/A5.9M:2012
Techniweld Products Corporation	ER316L	Powerweld ER316L	China	-	-	Unlimited	A5.9/A5.9M:2012
TECHNIWELD PRODUCTS CORPORATION.	ER309L	Powerweld 309L	India	-	-	Unlimited	A5.9/A5.9M:2012
Vanguard Steel Limited	ER308L	ER308L	China	-	-	Unlimited	A5.9/A5.9M:2012
Vanguard Steel Limited	ER308LSi	Bonarc ER308L Hi Si (MIG)	Korea	-	-	Unlimited	A5.9/A5.9M:2012
Vanguard Steel Limited	ER308LSi	Bonarc ER308L Hi Si (TIG)	Korea	-	-	Unlimited	A5.9/A5.9M:2012
Vanguard Steel Limited	ER309L	ER309L	China	-	-	Unlimited	A5.9/A5.9M:2012
Vanguard Steel Limited	ER316L	ER316L	China	-	-	Unlimited	A5.9/A5.9M:2012



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Venus Wire Industries PVT Ltd.	ER308L	Venus 308L TIG	India	-		Unlimited	A5.9/A5.9M:2012
Venus Wire Industries PVT Ltd.	ER308LSi	Venus 308LSi MIG	India	-	0.8	1.6	A5.9/A5.9M:2012
Venus Wire Industries PVT Ltd.	ER309L	Venus 309L TIG	India	-		Unlimited	A5.9/A5.9M:2012
Venus Wire Industries PVT Ltd.	ER309LSi	Venus 309LSi MIG	India	-	0.8	1.6	A5.9/A5.9M:2012
Venus Wire Industries PVT Ltd.	ER316L	Venus 316L TIG	India	-		Unlimited	A5.9/A5.9M:2012
Venus Wire Industries PVT Ltd.	ER316LSi	Venus 316LSi MIG	India	-	0.8	1.6	A5.9/A5.9M:2012
VENUS WIRE INDUSTRIES PVT. LTD.	ER308L	Venus 308L	India	-		Unlimited	A5.9/A5.9M:2012
VENUS WIRE INDUSTRIES PVT. LTD.	ER309L	Venus 309L	India	-		Unlimited	A5.9/A5.9M:2012
VENUS WIRE INDUSTRIES PVT. LTD.	ER316L	Venus 316L	India	-		Unlimited	A5.9/A5.9M:2012
VOESTALPINE BOHLER WELDING USA, INC	ER2209	Avesta ER2209	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
VOESTALPINE BOHLER WELDING USA, INC	ER316LSi	ER316Si/316LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
VOESTALPINE BOHLER WELDING USA, INC.	ER308H	ER308H	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
VOESTALPINE BOHLER WELDING USA, INC.	ER308L	ER308/308L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
VOESTALPINE BOHLER WELDING USA, INC.	ER308LSi	ER308Si/308LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
VOESTALPINE BOHLER WELDING USA, INC.	ER309L	ER309/309L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
VOESTALPINE BOHLER WELDING USA, INC.	ER309LSi	ER309/ER309LSi	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
VOESTALPINE BOHLER WELDING USA, INC.	ER316L	ER316/316L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
VOESTALPINE BOHLER WELDING USA, INC.	ER317L	ER317L	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
VOESTALPINE BOHLER WELDING USA, INC.	ER409Nb	ER409Cb	Taiwan	-	-	Unlimited	A5.9/A5.9M:2012
LINCOLN ELECTRIC COMPANY	F7TA4-EM12K-H8 (Two Run)	Lincolnweld WTX-TR / Lincolnweld L-61	USA	Lincolnweld WTX-TR (made in USA)	1.6	5	AWS A5.23/5.23M:2011 (SAW Low Alloy)
Changzhou Huatong Welding Wire Co. Ltd.	A - 18.8 Mn	307Si	China	-		1.2	ISO 14343:2009
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	B-G 55A 3 M21 SM31	Spoolarc 83	USA	Ar + 15%CO <sub>2</sub>	1.2	1.2	ISO 14343:2009
Sandvik Materials Technology	A - 18.8 Mn	AXT	USA	-	-	Unlimited	ISO 14343:2009
ARCOS INDUSTRIES, LLC	E491T-8J-H16	ARCOS 78	USA	None	1.6	2.0	W48-06 (FCAW/MCAW Mild steel)
ITW WELDING GmbH	E491C-6M-H4	Megafil 710M	Germany	Ar + 15%CO <sub>2</sub>	1.6	1.6	W48-06 (FCAW/MCAW Mild steel)
SELECT-ARC, INC.	E491T-8J-H16	SELECT 78	USA	None	1.6	2.0	W48-06 (FCAW/MCAW Mild steel)
Hyundai Welding Co. Ltd.	E491T-9M-H8	Supercored 71MAG	China	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06



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2072902 Ontario Ltd.	E492T-9-H8	Super Slag 70	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
2072902 Ontario Ltd.	E492T-9M-H8	Super Slag 70	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	2.4	W48-06
Air Liquide Canada, Inc.	E491C-6-H4	Blueshield LA C-6 CT	USA	100%CO <sub>2</sub>	0.9	2.4	W48-06
Air Liquide Canada, Inc.	E491C-6-H4	Blueshield LA C-6LF	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6-H4	Blueshield LA C-6	USA	100%CO <sub>2</sub>	0.9	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6-H4	Blueshield LA C-6 LS	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6 LS	USA	Arcal 14	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6 LF	USA	Arcal 211	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6	USA	Arcal 14	0.9	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6	USA	Blueshield 23	0.9	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6 CT	USA	Ar + 5%CO <sub>2</sub>	0.9	2.4	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6 LS	USA	Arcal 211	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6LF	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6	USA	Ar + 5%CO <sub>2</sub>	0.9	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6 LS	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6 LF	USA	Arcal 14	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6 CT	USA	Arcal 211	0.9	2.4	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6LF	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6M-H4	Blueshield LA C-6	USA	Arcal 211	0.9	1.6	W48-06
Air Liquide Canada, Inc.	E491C-6MJ-H4	Blueshield LA C-6 CT	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491T-11-H8	Blueshield LA T-11	USA	N/A	0.9	1.6	W48-06
Air Liquide Canada, Inc.	E491T-12J-H4	Blueshield LA 91-T12M	USA	100%CO <sub>2</sub>	1.1	1.6	W48-06
Air Liquide Canada, Inc.	E491T-12MJ-H4	Blueshield LA 91-T12M	USA	Arcal 211	1.1	1.6	W48-06
Air Liquide Canada, Inc.	E491T-12MJ-H4	Blueshield LA 91-T12M	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
Air Liquide Canada, Inc.	E491T-14-H16	Blueshield LA T-14	USA	N/A	0.76	1.6	W48-06
Air Liquide Canada, Inc.	E491T-14-H16	Optiweld Opt-T14	USA	N/A	0.76	1.6	W48-06
Air Liquide Canada, Inc.	E491T-9-H4	Blueshield LA T-91 LF	USA	100%CO <sub>2</sub>	0.9	2.0	W48-06
Air Liquide Canada, Inc.	E491T-9-H8	Blueshield LA T-91 PLUS	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491T-9-H8	Blueshield LA T-91	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491T-9M-H4	Blueshield LA T-91 LF	USA	Ar + 15%CO <sub>2</sub>	0.9	2.0	W48-06
Air Liquide Canada, Inc.	E491T-9M-H4	Blueshield LA T-91 LF	USA	Arcal 211	0.9	2.0	W48-06
Air Liquide Canada, Inc.	E491T-9M-H8	Blueshield LA T-91 PLUS	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06



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Air Liquide Canada, Inc.	E491T-9M-H8	Blueshield LA T-91	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E491T-9M-H8	Blueshield LA T-91	USA	Arcal 211	1.2	1.6	W48-06
Air Liquide Canada, Inc.	E492T-4-H16	Blueshield LA Unishield	USA	N/A	2	3	W48-06
Air Liquide Canada, Inc.	E492T-9-H8	Blueshield LA T-9 Plus	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Air Liquide Canada, Inc.	E492T-9-H8	Blueshield LA T-9LF	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Air Liquide Canada, Inc.	E492T-9-H8	Blueshield LA T-9	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Air Liquide Canada, Inc.	E492T-9M-H8	Blueshield LA T-9	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	2.4	W48-06
Air Liquide Canada, Inc.	E492T-9M-H8	Blueshield LA T-9 Plus	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	2.4	W48-06
Air Liquide Canada, Inc.	E492T-9M-H8	Blueshield LA T-9	USA	Arcal 211	1.2	2.4	W48-06
AIR LIQUIDE WELDING FRANCE / MP305 SPS S.R.L.	E491C-6M-H4	STAR DUAL 206 HP	Romania	Arcal 14	1.2	1.4	W48-06
AIR LIQUIDE WELDING FRANCE / MP305 SPS S.R.L.	E491C-6M-H4	STAR DUAL 206 HP	Romania	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.4	W48-06
AIRGAS INC	E491C-6MJ-H4	RADNOR McKAY SPEED-COR 6	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	W48-06
Airgas Inc	E491C-6MJ-H4	RADNOR McKAY SPEED-COR 6	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
AIRGAS INC	E492T-9-H8	RADNOR McKAY SPEED-ALLOY 70	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Airgas Inc.	E491C-6MJ-H4	RADNOR McKAY SPEED-COR 6	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	W48-06
Airgas Inc.	E491C-6MJ-H4	RADNOR McKAY SPEED-COR 6	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
AIRGAS INC.	E491C-6MJ-H4	RADNOR McKAY SPEED-COR 6	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
AIRGAS INC.	E491C-6MJ-H4	RADNOR McKAY SPEED-COR 6	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
AIRGAS INC.	E491T-1-H8	RADNOR McKAY SPEED-ALLOY 71A	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
AIRGAS INC.	E491T-1M-H8	RADNOR McKAY SPEED-ALLOY 71A	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
AMERICAN FILLER METALS COMPANY	E491T-1-H8	AFM E71T-1 Unbaked	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
AMERICAN FILLER METALS COMPANY	E491T-1M-H8	AFM E71T-1 Unbaked	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Arcos Industries, LLC	E491T-12MJ-H4	Arcos E71T-1	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
Arcos Industries, LLC	E492T-9-H8	Arcos E70T-1	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Arcos Industries, LLC	E492T-9M-H8	Arcos E70T-1	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	2.4	W48-06
Arctec Alloys Limited	E491T-1-H8	FCS 1171 M	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
Arctec Alloys Limited	E491T-11-H16	FCS FCO 222	USA	N/A	0.9	1.6	W48-06
Arctec Alloys Limited	E491T-9M-H16	FCS 171	USA	100%CO <sub>2</sub>	0.9	1.6	W48-06
Arctec Alloys Limited	E491T-9M-H8	FCS 171	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
Atlantic China Welding Consumables, Inc.	E491T-9-H8	CHT711	China	100%CO <sub>2</sub>	1.2	1.6	W48-06
Atlantic China Welding Consumables, Inc.	E491T-9M-H8	CHT711M	China	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	W48-06



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Changzhou Huatong Welding Wire Co. Ltd.	E491T-9-H8	HTW-711	China	100%CO <sub>2</sub>	1.2	1.6	W48-06
Changzhou Huatong Welding Wire Co. Ltd.	E491T-9M-H8	HTW-711	China	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
CHANGZHOU YUNHE XINRUI WELDING MATERIAL CO. LTD.	E491T-9-H8	YHE71T-1	China	100%CO <sub>2</sub>	1.2	1.6	W48-06
CHANGZHOU YUNHE XINRUI WELDING MATERIAL CO. LTD.	E491T-9M-H8	YHE71T-1M	China	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
CHOSUN WELDING CO. LTD.	E491T-1-H8	CSF-71T (Baking Type)	Korea	100%CO <sub>2</sub>	0.9	1.6	W48-06
CHOSUN WELDING CO. LTD.	E491T-1-H8	CSF-71T (Unbaking Type)	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
CHOSUN WELDING CO. LTD.	E491T-1M-H8	CSF-71T (Unbaking Type)	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
CHOSUN WELDING CO. LTD.	E491T-1M-H8	CSF-71T (Baking Type)	Korea	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
Corex Canada	E492T-9-H8	FLUX-COR 7XR	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Corex Canada	E492T-9-H8	FLUX-COR 7	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Eagle Alloys Ltd.	E491T-9-H8	Eagle 771 FGS	Korea	100%CO <sub>2</sub>	1.1	1.6	W48-06
Eagle Alloys Ltd.	E491T-9M-H8	Eagle 771 FGS	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
Eagle Alloys Ltd.	E492C-6M-H8	Eagle 770 MC	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
ESAB Group Canada Inc.	E491C-6M-H4	Coreweld C6	USA	Stargon VS	1.2	1.2	W48-06
ESAB Group Canada Inc.	E491C-6M-H4	Coreweld C6	USA	Linde Mison 15C	1.2	1.6	W48-06
ESAB Group Canada Inc.	E491C-6M-H8	Coreweld C6	USA	Argoshield GP	1.2	1.6	W48-06
ESAB Group Canada Inc.	E491C-6M-H8	Coreweld C6	USA	Linde Mison 8C	1.2	1.6	W48-06
ESAB Group Canada Inc.	E491C-6M-H8	Coreweld C6	USA	Ar + 8%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group Canada Inc.	E491T-9M-H16	Dual Shield 710X	USA	Argoshield 25C	1.2	1.6	W48-06
ESAB Group Canada Inc.	E491T-9M-H8	Dual Shield 710X-M	USA	Linde Mison 25C	1.2	1.6	W48-06
ESAB Group Canada Inc.	E491T-9M-H8	Dual Shield 710X-M	USA	Argoshield GP	1.2	1.6	W48-06
ESAB Group Canada Inc.	E491T-9M-H8	Dual Shield 710X-M	USA	Argoshield 25C	1.2	1.6	W48-06
ESAB Group Canada Inc.	E491T-9M-H8	Dual Shield 710X-M	USA	Linde Mison 15C	1.2	1.6	W48-06
ESAB Group Canada Inc.	E491T-9MJ-H8	Dual Shield II 712X	USA	Argoshield 25C	1.2	1.6	W48-06
ESAB GROUP INC./ ALLOY RODS	E491C-6M-H4	Coreweld 70	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	0.9	W48-06
ESAB GROUP INC./ ALLOY RODS	E491C-6M-H8	Coreweld C6	USA	Argoshield 8C	1.2	1.6	W48-06
ESAB GROUP INC./ ALLOY RODS	E491C-6M-H8	Coreweld C6	USA	Argoshield 8C	1.2	1.6	W48-06
ESAB GROUP INC./ ALLOY RODS	E491T-9-H8	ESAB 71	USA	100%CO <sub>2</sub>	0.9	1.6	W48-06
ESAB GROUP INC./ ALLOY RODS	E491T-9M-H16	ESAB 71	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
ESAB GROUP INC./ ALLOY RODS	E492C-6M-H4	Coreweld C6 LF	USA	Ar + 10%CO <sub>2</sub>	1.2	1.6	W48-06





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ESAB GROUP INC./ ALLOY RODS	E492C-6M-H4	Coreweld C6 LF	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB GROUP INC./ ALLOY RODS	E492C-6M-H4	Coreweld C6	USA	Stargold LowHy 15	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491C-6M-H4	Coreweld C6	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491C-6M-H4	Coreweld 70	USA	Ar + 8%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491C-6M-H4	Coreweld 70	USA	Mig Mix Gold	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491C-6M-H4	Coreweld 77-HS	USA	Ar + 8%CO <sub>2</sub>	1.2	Unlimited	W48-06
ESAB Group, Inc./Alloy Rods	E491C-6M-H4	Coreweld 77-HS	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	Unlimited	W48-06
ESAB Group, Inc./Alloy Rods	E491T-11-H16	Coreshield 11	USA	N/A	0.9	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-12J-H8	Dual Shield II 71 Ultra	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-12J-H8	Dual Shield II 711X	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-12M-H8	Dual Shield II 70 Ultra	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-12MJ-H4	Dual Shield II 70T-12H4	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-1M-H16	Dual Shield 70 Ultra Plus	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-1M-H8	Dual Shield 70 Ultra Plus	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-8-H8	Coreshield 8	USA	N/A	1.6	2	W48-06
ESAB Group, Inc./Alloy Rods	E491T-9-H16	Dual Shield 7100 LC	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-9-H8	Dual Shield 7100 Ultra	USA	100%CO <sub>2</sub>	0.9	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-9-H8	Dual Shield 710X	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-9M-H16	Dual Shield 710X	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-9M-H16	Dual Shield 7100 Ultra	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-9M-H8	Dual Shield 710X-M	USA	Ar + 15%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-9M-H8	Dual Shield 710X-M	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-9M-H8	Dual Shield 7100 LC	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E491T-9MJ-H8	Dual Shield II 712X	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E492C-6-H8	Coreweld 70	USA	100%CO <sub>2</sub>	0.9	1.6	W48-06
ESAB Group, Inc./Alloy Rods	E492T-1	Dual Shield 700X	USA	100%CO <sub>2</sub>	1.6	2.4	W48-06
ESAB Group, Inc./Alloy Rods	E492T-6	Coreshield 6	USA	N/A	2	2.4	W48-06
ESAB Group, Inc./Alloy Rods	E492T-9-H8	Dual Shield R-70 Ultra	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
ESAB Group, Inc./Alloy Rods	E492T-9M-H16	Dual Shield R-70 Ultra	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	2.4	W48-06
ESAB Group/All-State	E491T-11-H16	All-State Shield-Free Plus-MP	USA	N/A	0.9	1.6	W48-06
ESAB INDIA LIMITED (CHENNAI PLANT)	E492T-1	71T1(E71T1-1)	India	100%CO <sub>2</sub>	1.2	1.2	W48-06
ESAB MEXICO S.A. DE C.V.	E491T-9-H8	Dual Shield 7100LC	Mexico	100%CO <sub>2</sub>	1.2	1.6	W48-06



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ESAB MEXICO S.A. DE C.V.	E491T-9-H8	Dual Shield 71 RC	Mexico	100%CO <sub>2</sub>	-	1.6	W48-06
ESAB MEXICO S.A. DE C.V.	E491T-9-H8	Dual Shield 7100 Ultra	Mexico	100%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB MEXICO S.A. DE C.V.	E491T-9M-H8	Dual Shield 7100LC	Mexico	Ar + 25%CO <sub>2</sub>	1.2	1.6	W48-06
ESAB MEXICO S.A. DE C.V.	E492T-9-H8	Dual Shield R-70 Ultra	Mexico	100%CO <sub>2</sub>	1.6	2.4	W48-06
ESAB MEXICO S.A. DE C.V.	E492T-9M-H8	Dual Shield R-70 Ultra	Mexico	Ar + 25%CO <sub>2</sub>	1.6	2.4	W48-06
ESAB SeAH WELDING PRODUCTS (YANTAI) CO., LTD.	E491T-1-H8	Weld 71T-1	China	100%CO <sub>2</sub>	1.2	1.6	W48-06
Eutectic Canada Inc.	E491C-6J-H4	Endotec Alloy DO 270	Italy	100%CO <sub>2</sub>	1.0	1.6	W48-06
Eutectic Canada Inc.	E491C-6MJ-H4	Endotec Alloy DO 270	Italy	Ar + 20% to 25%CO <sub>2</sub>	1.0	1.6	W48-06
Eutectic Canada Inc.	E491T-9J-H4	Endotec Alloy DO 266S	Italy	100%CO <sub>2</sub>	1.2	1.6	W48-06
Eutectic Canada Inc.	E491T-9MJ-H4	Endotec Alloy DO266S	Italy	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
EXOCOR INC.	E492T-9-H8	Executive 70	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Gedik Kaynak Sanayi ve Ticaret A.S.	E491T-9J-H8	GeKa ELCOR R 71	Turkey	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Bros Co -Trimark	E492T-5J-H4	Tri-Mark TM-55	USA	100%CO <sub>2</sub>	1.6	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6M-H4	FabCOR Edge MC	USA	Ar + 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6M-H4	FabCOR Edge MC	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6M-H4	COREX Metal-Cor 6	USA	Linde Mison 15C	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6M-H4	FabCOR Ultimet 716	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6M-H4	Corex Metal-Cor 6L	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6M-H4	FabCOR 86R	USA	Linde Mison 8C	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6M-H4	FabCOR 86R	USA	Linde Mison 15C	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6M-H4	FabCOR Ultimet 716	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6M-H4	Corex Metal-Cor 6L	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	FabCOR 96	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor Maxim	USA	Ar + 5%CO <sub>2</sub>	1.2	1.2	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	FabCOR 86R	USA	Mig Mix Gold	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	FabCOR 86R	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06



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Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	FabCOR EDGE	USA	Ar + 5%CO <sub>2</sub>	1.2	1.2	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	FabCOR 96	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor Maxim	USA	Argoshield 25C	1.2	1.2	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor 6	USA	Mig Mix Gold	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	FabCOR EDGE	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor Maxim	USA	Argoshield 8C	1.2	1.2	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor 6	USA	Argoshield 25C	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor Maxim	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor 6	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	FabCOR 96	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	FabCOR 86R	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor 6	USA	Argoshield GP	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	FabCOR 86R	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor Maxim	USA	Argoshield GP	1.2	1.2	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor 6	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor 6	USA	Argoshield 8C	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491C-6MJ-H4	Metal-Cor 6	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-1-H8	FabCO Triple 7	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-1-H8	VERSATILE	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-12J-H8	FabCO 771	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-12MJ-H4	Corex Verti-Cor 70	USA	Ar + 15%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-12MJ-H4	FabCO XL-525	USA	Ar + 15%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-12MJ-H4	FabCO XL-525	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06



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Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-12MJ-H4	Corex Verti-Cor 70	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-1M-H8	FabCO Triple 7	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-1M-H8	VERSATILE	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9-H4	FabCO XL-550	USA	100%CO <sub>2</sub>	1.2	1.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9-H4	Formula XL-550 (H4)	USA	100%CO <sub>2</sub>	1.2	1.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9-H8	Formula XL-550	USA	100%CO <sub>2</sub>	1.6	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9-H8	FabCO XL-550	USA	100%CO <sub>2</sub>	1.6	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9-H8	FabCO TRIPLE 8	USA	100%CO <sub>2</sub>	1.4	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9-H8	FabCO Excel-Arc 71	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9-H8	Verti-Cor III	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9-H8	FabCO HORNET	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9-H8	Verti-Cor II	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9M-H8	FabCO HORNET	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9M-H8	Verti-Cor III	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9M-H8	FabCO Excel-Arc 71	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9M-H8	Verti-Cor II	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2mm	1.6mm	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9MJ-H4	FabCO XL-525	USA	Ar + 15%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E491T-9MJ-H4	FabCO XL-525	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E492C-6M-H4	FabCOR Ultimet 716	USA	Linde Mison 8C	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E492C-6M-H4	FabCOR Edge MC	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E492C-6M-H4	COREX Metal-Cor 6L	USA	Linde Mison 8C	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E492C-6MJ-H4	FabCOR Edge	USA	Stargold LowHy 15	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E492C-6MJ-H4	Metal-Cor Maxim	USA	Argoshield GP	1.4	1.6	W48-06



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Hobart Brothers Co., Tubular Wire Business (Plant 1)	E492C-6MJ-H4	FabCOR EDGE	USA	Ar + 5%CO <sub>2</sub>	1.4	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E492C-6MJ-H4	Metal-Cor Maxim	USA	Ar + 5%CO <sub>2</sub>	1.4	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E492C-6MJ-H4	Metal-Cor Maxim	USA	Argoshield 25C	1.4	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E492C-6MJ-H4	Metal-Cor Maxim	USA	Ar + 20% to 25%CO <sub>2</sub>	1.4	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E492C-6MJ-H4	Metal-Cor Maxim	USA	Argoshield 8C	1.4	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 1)	E492C-6MJ-H4	FabCOR EDGE	USA	Ar + 20% to 25%CO <sub>2</sub>	1.4	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491C-6M-H4	Metal-Cor 6	USA	Mig Mix Gold	0.9	0.9	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491C-6MJ-H4	Metal-Cor 6	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	0.9	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491C-6MJ-H4	FabCOR 86R	USA	Mig Mix Gold	0.9	0.9	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491C-6MJ-H4	FabCOR 86R	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	0.9	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491C-6MJ-H4	Metal-Cor 6	USA	Ar + 5%CO <sub>2</sub>	0.9	0.9	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491C-6MJ-H4	FabCOR 86R	USA	Ar + 5%CO <sub>2</sub>	0.9	0.9	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-11-H8	Fabshield 21B	USA	N/A	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-12J-H8	Corex Verti-Cor 72	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-12J-H8	Tri-Mark TM-771	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-12MJ	Tri-Mark TM-910	USA	Linde Mison 15C	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-12MJ	Tri-Mark TM-910	USA	Linde Mison 25C	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-12MJ	Tri-Mark TM-910	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-12MJ	Tri-Mark TM-910	USA	Ar + 8%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-12MJ-H4	Verti-Cor 70	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-12MJ-H4	Corex VERTI-COR 70	USA	Linde Mison 15C	1.2	1.2	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-12MJ-H4	FabCO XL-525	USA	Ar + 15%CO <sub>2</sub>	0.9	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-12MJ-H4	FabCO XL-525	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06



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Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-12MJ-H4	Verti-Cor 70	USA	Ar + 15%CO <sub>2</sub>	0.9	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-8J-H8	Fabshield XLR-8	USA	N/A	1.6	2.0	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-9-H8	FabCO TRIPLE 8	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-9-H8	FabCO VISION AP70	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-9-H8	FabCO Excel-Arc 71	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-9J-H4	FabCO XL-550	USA	100%CO <sub>2</sub>	1.6	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-9M-H8	VERTI-COR III	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-9M-H8	FabCO VISION AP70	USA	Linde Mison 25C	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-9M-H8	FabCO VISION AP70	USA	Argoshield GP	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-9M-H8	FabCO Excel-Arc 71	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-9M-H8	FabCO VISION AP70	USA	Linde Mison 15C	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-9M-H8	FabCO VISION AP70	USA	Ar + 15%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-9MJ-H4	FabCO XL-525	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E491T-GS	Fabshield 23	USA	N/A	1.2	1.2	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492C-6M-H4	FabCOR Ultimet 716	US	Ar + 5%CO <sub>2</sub>	2.0	2.0	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492C-6M-H4	FabCOR Ultimet 716	US	Ar + 25%CO <sub>2</sub>	2.0	2.0	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492C-6M-H4	FabCOR Element 70C6	USA	Ar + 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492C-6M-H4	FabCOR Element 70C6	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492C-6MJ-H4	FabCOR CVN	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-5J-H4	FabCO 85	USA	100%CO <sub>2</sub>	1.6	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-5J-H4	Corex Tuf-Cor 5	USA	100%CO <sub>2</sub>	1.6	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-5MJ-H4	Corex Tuf-Cor 5	USA	Ar + 20% to 25%CO <sub>2</sub>	1.6	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-5MJ-H4	Tri-Mark TM-55	USA	Ar + 20% to 25%CO <sub>2</sub>	1.6	2.4	W48-06



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Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-5MJ-H4	FabCO 85	USA	Ar + 20% to 25%CO <sub>2</sub>	1.6	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-9-H16	Tri-Mark TM-72	USA	100%CO <sub>2</sub>	2.4	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-9-H8	Fabdual T9M	USA	100%CO <sub>2</sub>	2.4	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-9-H8	Eclipse RXR-XLS	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-9-H8	FabCO RXR	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-9-H8	Tri-Mark TM RX7	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-9-H8	FabCO TR70	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-9M-H8	Fabdual T9M	USA	Ar + 20% to 25%CO <sub>2</sub>	2.4	2.4	W48-06
Hobart Brothers Co., Tubular Wire Business (Plant 2)	E492T-9M-H8	FabCO VISION AP70	USA	Argoshield Pro	1.2	1.6	W48-06
Hobart Brothers Company	E491T-9-H8	VERTI-COR III	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS COMPANY,	E491C-6M-H4	COREX Metal-Cor 6	USA	Linde Mison 8C	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6M-H4	Metal-Cor 6	USA	Linde Mison 15C	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6M-H4	FabCOR 86R	USA	Linde Mison 15C	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6M-H4	FabCOR 86R	USA	Linde Mison 8C	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6M-H4	Metal-Cor 6	USA	Linde Mison 8C	1.2	1.2	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	FabCOR 96	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	Metal-Cor 6	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	Metal-Cor 6	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	FabCOR 86R	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	Metal-Cor 6	USA	Argoshield 25C	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	FabCOR 96	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	Metal-Cor 6	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	FabCOR 96	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	Metal-Cor 6	USA	Argoshield 8C	1.2	1.6	W48-06



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HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	FabCOR 86R	USA	Ar + 5%O2	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	Metal-Cor 6	USA	Mig Mix Gold	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	FabCOR 86R	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491C-6MJ-H4	Metal-Cor 6	USA	Argoshield GP	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491T-12MJ-H4	FabCO 712M	USA	Stargold LowHy 25	1.2	1.2	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491T-12MJ-H4	FabCO XL-525	USA	Ar + 8%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491T-12MJ-H4	FabCO 712M	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.4	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491T-1M	FabCO 712M	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.4	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491T-1M-H8	FabCO Element 71T1M	USA	Ar + 15%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491T-1M-H8	FabCO Element 71T1M	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491T-9	RADNOR E71T-1M	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491T-9-H8	FabCO Element 71T1C	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491T-9M	RADNOR E71T-1M	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E491T-9MJ-H4	FabCO XL-525	USA	Ar + 15%CO <sub>2</sub>	0.9	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E492C-6M-H4	FabCOR Matrix	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E492C-6M-H4	FabCOR Matrix	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E492C-6MJ-H4	FabCOR CVN	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E492T-12J-H8	FabCO 70XHP	USA	100%CO <sub>2</sub>	1.6	2.4	W48-06
HOBART BROTHERS TUBULAR WIRE BUSINESS	E492T-9MJ-H8	FabCO 70XHP	USA	Ar + 20% to 25%CO <sub>2</sub>	1.6	2.4	W48-06
Hyundai Welding (Kunshan) Co., Ltd.	E491T-1-H8	SF-71	China	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding (Kunshan) Co., Ltd.	E491T-12-H8	SF-71MC	China	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding (Kunshan) Co., Ltd.	E491T-12M-H8	SF-71MC	China	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding (Kunshan) Co., Ltd.	E491T-9M-H8	Supercored 71MAG	China	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co. Ltd.	E491T-1-H8	SF-71	China	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491C-3-H8	SC-70T Cored	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06





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HYUNDAI WELDING CO., LTD.	E491C-6M-H8	SC-70T Cored	Korea	Argoshield 8C	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491C-6M-H8	SC-70T Cored	Korea	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491C-6M-H8	SC-70T Cored	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
HYUNDAI WELDING CO., LTD.	E491C-6M-H8	SC-70T Cored	Korea	Argoshield GP	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491C-6MJ-H4	SC-70ML	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491C-6MJ-H8	SC-70ML	Korea	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-1-H8	SF-71	Vietnam	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-1-H8	Supercored 71	Korea	100%CO <sub>2</sub>	-	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-1-H8	SF-71MC	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-1-H8	SF-71	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-12-H8	SF-71MC	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-12J-H4	SC-71SR	Korea	100%CO <sub>2</sub>	1.2	1.4	W48-06
HYUNDAI WELDING CO., LTD.	E491T-12M-H8	SF-71MC	Korea	Argoshield 25C	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-12M-H8	SF-71MC	Korea	Ar + 15%CO <sub>2</sub>	1.2	1.6	W48-06
HYUNDAI WELDING CO., LTD.	E491T-12M-H8	SF-71MC	Korea	Argoshield GP	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-12MJ-H8	SC-71MSR	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.4	W48-06
Hyundai Welding Co., Ltd.	E491T-1M-H8	SF-71MC	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-9-H8	SF-71MC	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-9J-H8	Supercored 71H	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-9M-H4	SC-71LHM Cored	Korea	Ar + 20% to 25%CO <sub>2</sub>	-	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-9M-H8	Supercored 71MAG	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
HYUNDAI WELDING CO., LTD.	E491T-9M-H8	SF-71MC	Korea	Argoshield GP	1.2	1.6	W48-06
HYUNDAI WELDING CO., LTD.	E491T-9M-H8	SF-71MC	Korea	Argoshield 25C	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E491T-9M-H8	SF-71MC	Korea	Ar + 15%CO <sub>2</sub>	1.2	1.6	W48-06
HYUNDAI WELDING CO., LTD.	E491T-G	SC-70Z Cored	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.0	1.2	W48-06
HYUNDAI WELDING CO., LTD.	E492C-6M-H4	supercored 70NS	Korea	Argoshield GP	0.9	1.6	W48-06
HYUNDAI WELDING CO., LTD.	E492C-6M-H4	Supercored 70NS	Korea	Argoshield 8C	0.9	1.6	W48-06
Hyundai Welding Co., Ltd.	E492C-6M-H4	Supercored 70NS	Korea	Ar + 5%CO <sub>2</sub>	0.9	1.6	W48-06
Hyundai Welding Co., Ltd.	E492C-6M-H8	Supercored 70NS	Korea	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
Hyundai Welding Co., Ltd.	E492T-1-H8	SF-70MX	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
Hyundai Welding Co., Ltd.	E492T-9-H8	SC-70H Cored	Korea	100%CO <sub>2</sub>	1.6	2.4	W48-06
Hyundai Welding Vina Co., Ltd.	E491T-1-H8	SF-71	Vietnam	100%CO <sub>2</sub>	1.2	1.6	W48-06



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Company Name	Classification	Electrode Designation	Point of Manufacture	Flux Gas	Min	Max	Standard
HYUNDAI WELDING VINA CO., LTD.	E491T-9J-H8	Supercored 71H	Vietnam	100%CO <sub>2</sub>	1.2	1.6	W48-06
HYUNDAI WELDING VINA CO., LTD.	E491T-9J-H8	Supercored 71Hi	Vietnam	100%CO <sub>2</sub>	1.2	1.4	W48-06
ITW WELDING GmbH	E491C-6M-H4	Megafil 710M	Germany	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
ITW WELDING GmbH	E491T-9-H4	Megafil 713R	Germany	100%CO <sub>2</sub>	1.2	1.6	W48-06
ITW WELDING GmbH	E491T-9M-H4	Megafil 713R	Germany	Stargold LowHy 25	1.2	1.2	W48-06
ITW WELDING GmbH	E491T-9M-H4	Megafil 713R	Germany	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
KISWEL INC.	E491T-1M-H8	K-71TM	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Kiswel Inc.	E491T-9-H8	K-71T Plus	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Kiswel Inc.	E491T-9M	K-71T Plus	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Kiswel Inc.	E492C-6M-H4	KX-706M	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Kiswel Inc.	E492T-9-H8	K-70ST	USA	100%CO <sub>2</sub>	1.6	2.4	W48-06
Kiswel Inc.	E492T-9M-H8	K-70ST	USA	Ar + 20% to 25%CO <sub>2</sub>	1.6	2.4	W48-06
Kiswel Ltd.	E491T-1-H8	K-71TLF	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
Kiswel Ltd.	E491T-1M-H8	K-71TLF	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Kiswel Ltd.	E491T-9-H8	K-71T	Korea	100%CO <sub>2</sub>	1.1	1.6	W48-06
Kiswel Ltd.	E491T-9M-H8	K-71T	Korea	Ar + 10%CO <sub>2</sub>	1.1	1.6	W48-06
Kiswel Ltd.	E491T-GS	K-NGS	Korea	N/A	0.8	2.4	W48-06
Kiswel Ltd.	E492C-6M-H8	KX-706M	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
KISWEL, INC.	E491T-1-H8	K-71T	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
KISWEL, INC.	E491T-1-H8	K-71TM	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
KISWEL, INC.	E491T-11	K-NGS11	USA	None	1.2	1.6	W48-06
KISWEL, INC.	E491T-GS	K-NGS	USA	None	1.2	1.6	W48-06
Kiswel, Inc.	E492C-6M-H4	KX-706M	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Kobe Steel, Ltd.	E491C-6M-H4	Familiarc MX-A70C6LF	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.3	W48-06
Kobe Steel, Ltd.	E491C-6M-H4	Familiarc MX-A70C6LF	Japan	Ar + 5%CO <sub>2</sub>	1.1	1.3	W48-06
Kobe Steel, Ltd.	E491T-12MJ-H8	Familiarc DW-A55EH	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
Kobe Steel, Ltd.	E491T-12MJ-H8	Familiarc DW-A55ESR	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.1	2.0	W48-06
Kobe Steel, Ltd.	E491T-9-H8	Frontiarc-711	Japan	100%CO <sub>2</sub>	1.1	1.6	W48-06
Kobe Steel, Ltd.	E491T-9-H8	Frontiarc-711	Japan	100%CO <sub>2</sub>	1.1	1.6	W48-06
Kobe Steel, Ltd.	E491T-9-H8	Familiarc DW-50	Japan	100%CO <sub>2</sub>	1.1	1.6	W48-06
Kobe Steel, Ltd.	E491T-9M-H8	Frontiarc-711	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
Kobe Steel, Ltd.	E491T-9M-H8	Familiarc DW-50	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06



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Kobe Steel, Ltd.	E491T-9M-H8	Frontiarc-711	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
Kobe Steel, Ltd.	E492C-6M-H4	Familiarc MX-A70C6LF	Japan	Ar + 5%CO <sub>2</sub>	1.1	1.6	W48-06
Kobe Steel, Ltd.	E492C-6M-H4	Familiarc MX-A70C6LF	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
KOBE WELDING OF KOREA CO., LTD.	E491T-9-H8	DW-50	Korea	100%CO <sub>2</sub>	1.1	1.6	W48-06
Kobe Welding of Korea Co., Ltd.	E491T-9-H8	Frontiarc-711	Korea	100%CO <sub>2</sub>	1.1	1.6	W48-06
Kobe Welding of Korea Co., Ltd.	E491T-9M-H8	Frontiarc-711	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
KOBE WELDING OF KOREA CO., LTD.	E491T-9M-H8	DW-50	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
Kobe Welding of Qingdao Co., Ltd.	E491T-9-H8	Frontiarc-711	China	100%CO <sub>2</sub>	1.1	1.6	W48-06
Kobe Welding of Qingdao Co., Ltd.	E491T-9M-H8	Frontiarc-711	China	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
KOBE WELDING OF QUINGDAO	E491T-9-H8	DW-50	China	100%CO <sub>2</sub>	1.1	1.6	W48-06
KOBE WELDING OF QUINGDAO	E491T-9M-H8	DW-50	China	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
Kobelco Welding of Europe B.V.	E491T-9-H8	Familiarc DW-50	Netherlands	100%CO <sub>2</sub>	1.1	1.6	W48-06
Kobelco Welding of Europe B.V.	E491T-9M-H8	Familiarc DW-50	Netherlands	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
KUANG TAI METAL (VIETNAM) CO., LTD.	E491T-1M	KFX-71M	Vietnam	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	W48-06
Kuang Tai Metal Ind. Co. Ltd.	E491T-1	KFX-71T	Taiwan	100%CO <sub>2</sub>	1.2	1.2	W48-06
Kuang Tai Metal Ind. Co. Ltd.	E491T-1M	KFX-71M	Taiwan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	W48-06
LINCOLN ELECTRIC COMPANY	E491T-12J-H4	UltraCore 712C-H Plus	USA	100%CO <sub>2</sub>	1.6	1.6	W48-06
LINCOLN ELECTRIC COMPANY	E491T-12J-H8	UltraCore HD-12C	USA	100%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY	E491T-12J-H8	UltraCore SR-12C	USA	100%CO <sub>2</sub>	0.9	1.6	W48-06
LINCOLN ELECTRIC COMPANY	E491T-12MJ-H8	UltraCore HD-12M	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY	E491T-12MJ-H8	UltraCore SR-12M	USA	Ar + 25%CO <sub>2</sub>	0.9	1.6	W48-06
LINCOLN ELECTRIC COMPANY	E491T-9J-H8	UltraCore HD-12C	USA	100%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY	E491T-9MJ-H8	UltraCore HD-12M	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491C-6M-H8	Metalshield MC-710XL	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491C-6M-H8	Metalshield MC-710XL	USA	Ar + 8%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491C-6MJ-H4	Metalshield MC-6	Canada	Linde Mison 8C	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-1-H8	UltraCore HD-C	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-11-H16	Innershield NR-211-MP	USA	N/A	0.8	2.4	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-11-H16	Innershield NR-211-MP	USA	N/A	0.8	0.9	W48-06



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LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-12J-H8	UltraCore 712C	USA	100%CO <sub>2</sub>		Unlimited	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-12MJ-H4	UltraCore 712A80-H Plus	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-12MJ-H4	UltraCore 712A80-H	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-12MJ-H8	UltraCore 712A80	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-1M-H8	UltraCore HD-M	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-8-H16	Innershield NR-232	USA	N/A	1.7	2	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-8-H8	Innershield NR-203MP	USA	N/A	1.7	2	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9-H16	Outershield 71M	USA	100%CO <sub>2</sub>	0.9	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9-H4	Outershield 71 Supreme	Canada	100%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9-H8	UltraCore 71C	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9-H8	UltraCore 71A75 Dual	Canada	CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9-H8	UltraCore HD-C	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Lincoln Electric Company of Canada LP	E491T-9-H8	Murex LW-71	China	100%CO <sub>2</sub>	1.2	1.2	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9-H8	Alcan E491T-1	Canada	100%CO <sub>2</sub>	2	2	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9-H8	UltraCore 71A75 Dual	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9-H8	Outershield 71 Elite	Canada	100%CO <sub>2</sub>	1.1	2	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9J-H8	UltraCore 712C	USA	100%CO <sub>2</sub>		Unlimited	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H16	Outershield 71M	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H16	Outershield 71M	USA	All-Core	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H4	Outershield 71 Supreme	Canada	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	UltraCore 71A85	USA	Linde Mison 15C	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	UltraCore 71A75 Dual	USA	Linde Mison 25C	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	UltraCore HD-M	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06



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LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	UltraCore 71A85	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	UltraCore 71A75 Dual	Canada	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	UltraCore 71A85	USA	Ar + 15%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	UltraCore 71A85	USA	Linde Mison 25C	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	UltraCore 71A75 Dual	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	UltraCore 71A75 Dual	Canada	Linde Mison 25C	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	Outershield 71 Elite	Canada	Linde Mison 25C	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	Outershield 71 Elite	Canada	Ar + 15%CO <sub>2</sub>	1.1	2	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9M-H8	Alcan E491T-1	Canada	Ar + 15%CO <sub>2</sub>	2	2	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9MJ-H4	UltraCore 712A80-H	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E491T-9MJ-H8	UltraCore 712A80	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E492C-6MJ-H4	Metalshield MC-706	Canada	Linde Mison 8C	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E492C-6MJ-H4	Metalshield MC-706	Canada	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E492C-6MJ-H4	Metalshield MC-706	Canada	Ar + 8%CO <sub>2</sub>	1.1	1.6	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E492T-4-H16	Innershield NS-3M	USA	N/A	2	3	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E492T-5J-H4	UltraCore 75C	USA	100%CO <sub>2</sub>	1.6	2.4	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E492T-7	Innershield NR-311	USA	None	2	2.8	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E492T-9-H16	Outershield 70	USA	100%CO <sub>2</sub>	1.6	2.4	W48-06
LINCOLN ELECTRIC COMPANY OF CANADA LP	E492T-9-H8	UltraCore 70C	USA	100%CO <sub>2</sub>	1.6	2.4	W48-06
Lincoln Electric of Canada LP	E491C-6MJ-H4	Metalshield MC-6	Canada	Linde Mison 15C	1.1	1.6	W48-06
Lincoln Electric of Canada LP	E491C-6MJ-H4	Metalshield MC-6	Canada	Ar + 5%O <sub>2</sub>	1.1	1.6	W48-06
Lincoln Electric of Canada LP	E491C-6MJ-H4	Metalshield MC-6	Canada	Linde Mison 25C	1.1	1.6	W48-06
Lincoln Electric of Canada LP	E491C-6MJ-H4	Metalshield MC-6	Canada	Argoshield Pro	1.1	1.6	W48-06
Lincoln Electric of Canada LP	E491C-6MJ-H4	Metalshield MC-6	Canada	Ar + 5%CO <sub>2</sub>	1.1	1.6	W48-06
Lincoln Electric of Canada LP	E491C-6MJ-H4	Metalshield MC-6	Canada	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06



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Lincoln Electric of Canada LP	E492C-6M-H4	Lincoln E492C-6M	Canada	Ar + 15%CO <sub>2</sub>	2	2	W48-06
Lincoln Electric of Canada LP	E492C-6MJ-H4	Metalshield MC-706	Canada	Linde Mison 15C	1.1	1.6	W48-06
Lincoln Electric of Canada LP	E492C-6MJ-H4	Metalshield MC-706	Canada	Linde Mison 25C	1.1	1.6	W48-06
Map Canada Ltd.	E491T-9-H8	Super Mig SFC-71	China	100%CO <sub>2</sub>	1.2	1.6	W48-06
Map Canada Ltd.	E491T-9M-H8	Super MIG SFC-71	China	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Michigan Arc Products Inc.	E491C-6-H8	Map 70C-6M	USA	100%CO <sub>2</sub>	0.9	1.6	W48-06
Michigan Arc Products Inc.	E491C-6M-H8	Map 70C-6M	USA	Ar + 5%CO <sub>2</sub>	0.9	1.6	W48-06
Michigan Arc Products Inc.	E491T-9-H4	MAP 71T1LF	USA	100%CO <sub>2</sub>	0.9	2.0	W48-06
Michigan Arc Products Inc.	E491T-9M-H4	MAP 71T1LF	USA	Ar + 15%CO <sub>2</sub>	0.9	2.0	W48-06
NATIONAL STANDARD LLC	E491T-9M-H8	Tru-Core FC71 AG	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
NATIONAL STANDARD LLC	E492T-9M-H16	Tru-Core FC 70T	USA	100%CO <sub>2</sub>	1.6	2.0	W48-06
NIPPON STEEL & SUMIKIN WELDING	E491C-6MJ-H4	NSSW SM-3A	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.4	W48-06
Nippon Steel & Sumikin Welding Co., Ltd.	E491T-1-H4	NSSW SF-1E	Japan	100%CO <sub>2</sub>	1.2	1.2	W48-06
Nippon Steel & Sumikin Welding Co., Ltd.	E491T-1M-H4	NSSW SF-1A	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Nippon Steel & Sumikin Welding Co., Ltd.	E491T-9MJ-H4	NSSW SF-3A	Japan	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.4	W48-06
Praxair Canada Inc	E491C-6MJ-H4	PROSTAR StarCore 6	USA	Mig Mix Gold	1.2	1.6	W48-06
Praxair Canada Inc.	E491C-6M-H4	Prostar Starcore 6LF	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491C-6M-H4	Prostar Starcore 6LF	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	PROSTAR StarCore 6	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	PROSTAR StarCore 6	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	Prostar StarCore 6	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	0.9	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	Prostar StarCore 6	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	Prostar StarCore 6	USA	Ar + 5%CO <sub>2</sub>	0.9	0.9	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	Prostar Starcore 6LS	USA	Ar + 5%CO <sub>2</sub>	1.2	1.2	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	Prostar StarCore 6	USA	Mig Mix Gold	1.2	1.6	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	Prostar StarCore 6	USA	Mig Mix Gold	0.9	0.9	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	Prostar StarCore 6	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	Prostar StarCore 6	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	Prostar Starcore 6LS	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.2	W48-06
Praxair Canada Inc.	E491C-6MJ-H4	PROSTAR StarCore 6	USA	Ar + 5%O <sub>2</sub>	1.2	1.6	W48-06
PRAXAIR CANADA INC.	E491T-1-H8	Advantage 71M	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
PRAXAIR CANADA INC.	E491T-1-H8	Advantage 71C	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06



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Praxair Canada Inc.	E491T-12J-H8	Prostar FC-71C	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491T-12J-H8	Prostar FC-71C	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491T-12MJ-H4	Prostar FC-71 Supreme	USA	Ar + 15%CO <sub>2</sub>	0.9	1.6	W48-06
Praxair Canada Inc.	E491T-12MJ-H4	Prostar FC-71 Supreme	USA	Ar + 15%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491T-12MJ-H4	Prostar FC-71 Supreme	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491T-12MJ-H4	Prostar FC-71 Supreme	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
PRAXAIR CANADA INC.	E491T-1M-H8	Advantage 71M	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491T-9-H8	Prostar FC-71LF	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491T-9-H8	Prostar FC-71LF	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491T-9M-H8	Prostar FC-71LF	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491T-9M-H8	Prostar FC-71LF	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491T-9MJ-H4	Prostar FC-71 Supreme	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
Praxair Canada Inc.	E491T-9MJ-H4	Prostar FC-71 Supreme	USA	Ar + 8%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491T-9MJ-H4	Prostar FC-71 Supreme	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E491T-9MJ-H4	Prostar FC-71 Supreme	USA	Ar + 15%CO <sub>2</sub>	0.9	1.6	W48-06
Praxair Canada Inc.	E491T-9MJ-H4	Prostar FC-71 Supreme	USA	Ar + 15%CO <sub>2</sub>	1.2	1.6	W48-06
PRAXAIR CANADA INC.	E492C-6M-H4	Advantage MC 6	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
PRAXAIR CANADA INC.	E492C-6M-H4	Advantage MC 6	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Praxair Canada Inc.	E492C-6MJ-H4	Prostar Starcore 6LS	USA	Ar + 5%CO <sub>2</sub>	1.4	1.6	W48-06
Praxair Canada Inc.	E492C-6MJ-H4	Prostar StarCore 6LS	USA	Stargold LowHy 15	1.2	1.6	W48-06
Praxair Canada Inc.	E492C-6MJ-H4	Prostar Starcore 6LS	USA	Ar + 20% to 25%CO <sub>2</sub>	1.4	1.6	W48-06
Praxair Canada Inc.	E492T-9-H8	Prostar FC-70LF	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Praxair Canada Inc.	E492T-9-H8	Prostar FC-70	USA	100%CO <sub>2</sub>	2.4	2.4	W48-06
Praxair Canada Inc.	E492T-9M-H8	Prostar FC-70	USA	Ar + 20% to 25%CO <sub>2</sub>	2.4	2.4	W48-06
Select-Arc Inc.	E491C-6-H4	Select 70C-6LS	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Select-Arc Inc.	E491C-6-H4	Select 70C-T	USA	100%CO <sub>2</sub>	0.9	2.4	W48-06
Select-Arc Inc.	E491C-6-H4	Select 70C-6	USA	100%CO <sub>2</sub>	0.9	1.6	W48-06
Select-Arc Inc.	E491C-6M-H4	Select 70C-6LS	USA	Arcal 211	1.2	1.6	W48-06
Select-Arc Inc.	E491C-6M-H4	Select 70C-7	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Select-Arc Inc.	E491C-6M-H4	Select 70C-T	USA	Ar + 5%CO <sub>2</sub>	0.9	2.4	W48-06
Select-Arc Inc.	E491C-6M-H4	Select 70C-6LS	USA	Arcal 14	1.2	1.6	W48-06
Select-Arc Inc.	E491C-6M-H4	Select 70C-6LS	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06



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Select-Arc Inc.	E491C-6M-H4	Select 70C-6	USA	Ar + 5%CO <sub>2</sub>	0.9	1.6	W48-06
Select-Arc Inc.	E491C-6M-H4	Select 70C-7	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
Select-Arc Inc.	E491C-6MJ-H4	Select 70C-T	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Select-Arc Inc.	E491T-11-H8	Select 701	USA	N/A	0.9	1.6	W48-06
Select-Arc Inc.	E491T-12J-H4	Select 720 HP	USA	100%CO <sub>2</sub>	1.1	1.6	W48-06
Select-Arc Inc.	E491T-12MJ-H4	Select 720 HP	USA	Arcal 211	1.1	1.6	W48-06
Select-Arc Inc.	E491T-12MJ-H4	Select 720 HP	USA	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
Select-Arc Inc.	E491T-9-H4	Select 71 Supreme	USA	100%CO <sub>2</sub>	0.9	2.0	W48-06
Select-Arc Inc.	E491T-9-H4	Select 720	USA	100%CO <sub>2</sub>	0.9	2.0	W48-06
Select-Arc Inc.	E491T-9M-H4	Select 71 Supreme	USA	Ar + 15%CO <sub>2</sub>	0.9	2.0	W48-06
Select-Arc Inc.	E491T-9M-H4	Select 720	USA	Ar + 15%CO <sub>2</sub>	0.9	2.0	W48-06
Select-Arc Inc.	E491T-9M-H4	Select 720	USA	Arcal 211	0.9	2.0	W48-06
Select-Arc Inc.	E491T-9M-H8	Encore	USA	Ar + 25%CO <sub>2</sub>	1.2	1.6	W48-06
Select-Arc Inc.	E492C-6M-H4	Endurance	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Select-Arc Inc.	E492T-9-H8	Select 97	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Select-Arc Inc.	E492T-9-H8	Select 71	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Select-Arc Inc.	E492T-9-H8	Select 70TR	USA	100%CO <sub>2</sub>	1.2	2.4	W48-06
Select-Arc Inc.	E492T-9M-H8	Select 70TR	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	2.4	W48-06
SELECT-ARC, INC.	E491C-6MJ-H4	Select 70C-6 SR	USA	Ar + 25%CO <sub>2</sub>	1.2	1.6	W48-06
SELECT-ARC, INC.	E491C-6MJ-H4	Select 70C-6 SR	USA	Ar + 5%CO <sub>2</sub>	1.2	1.6	W48-06
SELECT-ARC, INC.	E491T-12MJ-H4	Select 7000-SR	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
SELECT-ARC, INC.	E491T-9-H8	Select 707	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
SELECT-ARC, INC.	E491T-9M-H8	Select 707	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Select-Arc, Inc.	E491T-9M-H8	Select 717	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
SELECT-ARC, INC.	E492C-6MJ-H4	Endurance	USA	Ar + 8%CO <sub>2</sub>	1.2	1.6	W48-06
Sowesco I, LLC.	E491T-1-H8	Pinnacle Alloys Premier 71	China	100%CO <sub>2</sub>	1.2	1.6	W48-06
Sowesco I, LLC.	E491T-1-H8	Pinnacle Alloys Premier 71	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
Sowesco I, LLC.	E491T-12-H8	Pinnacle Alloys Premier 712	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
Sowesco I, LLC.	E491T-12M-H8	Pinnacle Alloys Premier 712	Korea	Ar + 15%CO <sub>2</sub>	1.2	1.6	W48-06
Sowesco I, LLC.	E492T-9-H8	Pinnacle Alloys Premier 70	Korea	100%CO <sub>2</sub>	1.6	2.4	W48-06
Techniweld Products Corporation	E491T-9-H8	Powerweld E71T-1	China	100%CO <sub>2</sub>	1.2	1.6	W48-06





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Tianjin Bridge Welding Materials Group Co., Ltd.	E491T-9-H8	THY-51B	China	100%CO <sub>2</sub>	0.9	1.6	W48-06
TIEN TAI ELECTRODE (KUNSHAN) CO.LTD.	E491T-1-H4	TWE-711Ni	China	100%CO <sub>2</sub>	1.2	1.2	W48-06
Trafilerie di Cittadella S.P.A.	E491T-9J-H4	Fileur ARS HP	Italy	100%CO <sub>2</sub>	1.2	1.6	W48-06
Trafilerie di Cittadella S.P.A.	E491T-9MJ-H4	Fileur ARS HP	Italy	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Unibrace Corp.	E491C-6-H4	Smoothcor 70C-6M	USA	100%CO <sub>2</sub>	0.9	1.6	W48-06
Unibrace Corp.	E491C-6M-H4	Smoothcor 70C-6M	USA	Ar + 5%CO <sub>2</sub>	0.9	1.6	W48-06
Unibrace Corp.	E491T-9-H4	Smoothcor 71T1-T9	USA	100%CO <sub>2</sub>	0.9	2.0	W48-06
Unibrace Corp.	E491T-9M-H4	Smoothcor 71T1-T9	USA	Ar + 15%CO <sub>2</sub>	0.9	2.0	W48-06
Vanguard Steel Limited	E491T-1-H8	Bonarc E71T-1LF	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
Vanguard Steel Limited	E491T-1M-H8	Bonarc E71T-1LF	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Vanguard Steel Limited	E491T-9-H8	Bonarc E71T-9	Korea	100%CO <sub>2</sub>	1.1	1.6	W48-06
Vanguard Steel Limited	E491T-9M-H16	Bonarc E71T-9	Korea	Ar + 10%CO <sub>2</sub>	1.1	1.6	W48-06
Vanguard Steel Limited	E491T-GS	Bonarc E71T-GS	Korea	N/A	0.8	2.4	W48-06
Vanguard Steel Limited	E492C-6M-H8	Bonarc E70C-6M	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
VOESTALPINE BOHLER WELDING AUSTRIA GMBH	E491C-6MJ-H4	BÖHLER HL51 T-MC	Italy	Ar + 20% to 25%CO <sub>2</sub>	1.0	1.6	W48-06
VOESTALPINE BOHLER WELDING AUSTRIA GMBH	E491T-9MJ-H4	Bohler Ti 52 T-FD (HP)	Italy	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
VOESTALPINE BÖHLER WELDING AUSTRIA GMBH	E491C-6M-H4	BÖHLER HL 46-MC	Austria	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
VOESTALPINE BÖHLER WELDING AUSTRIA GMBH	E491T-1-H8	BÖHLER Ti 46-FD	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
VOESTALPINE BÖHLER WELDING AUSTRIA GMBH	E491T-1M-H8	BÖHLER Ti 46-FD	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
VOESTALPINE BÖHLER WELDING FILEUR S.P.A.	E491C-6J-H4	BÖHLER HL51 T-MC	Italy	100%CO <sub>2</sub>	1.0	1.6	W48-06
VOESTALPINE BÖHLER WELDING FILEUR S.P.A.	E491C-6MJ-H4	BÖHLER HL51 T-MC	Italy	Ar + 8%CO <sub>2</sub>	1.0	1.6	W48-06
VOESTALPINE BÖHLER WELDING FILEUR S.P.A.	E491C-6MJ-H4	BÖHLER HL51 T-MC	Italy	Ar + 20% to 25%CO <sub>2</sub>	1.0	1.6	W48-06
VOESTALPINE BÖHLER WELDING FILEUR S.P.A.	E491T-9J-H4	BÖHLER Ti52 T-FD	Italy	100%CO <sub>2</sub>	1.0	1.6	W48-06
VOESTALPINE BÖHLER WELDING FILEUR S.P.A.	E491T-9MJ-H4	BÖHLER Ti52 T-FD	Italy	Ar + 20% to 25%CO <sub>2</sub>	1.0	1.6	W48-06
Washington Alloy Co.	E491T-1-H8	E71T-1C	USA	100%CO <sub>2</sub>	1.2	1.6	W48-06
Washington Alloy Co.	E491T-1M-H8	E71T-1M	USA	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
Washington Alloy Co.	E491T-9-H8	USA E71T-1-LF	Korea	100%CO <sub>2</sub>	1.1	1.6	W48-06



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Washington Alloy Co.	E491T-9M-H8	USA E71T-1-LF	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.1	1.6	W48-06
WASHINGTON ALLOYS INC.	E491T-1-H8	Eagle-Arc 71	Korea	100%CO <sub>2</sub>	1.2	1.6	W48-06
WASHINGTON ALLOYS INC.	E491T-1-H8	Eagle-Arc 71 Baked	Korea	100%CO <sub>2</sub>	0.9	1.6	W48-06
WASHINGTON ALLOYS INC.	E491T-1M-H8	Eagle-Arc 71	Korea	Ar + 20% to 25%CO <sub>2</sub>	1.2	1.6	W48-06
WASHINGTON ALLOYS INC.	E491T-1M-H8	Eagle-Arc 71 Baked	Korea	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
WELDCOTE METALS INC.	E491T-1-H8	Welcote Metals E71T-1	Korea	100%CO <sub>2</sub>	0.9	1.6	W48-06
WELDCOTE METALS INC.	E491T-1M-H8	Welcote Metals E71T-1	Korea	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
X-Ergon (Div. of NCH Canada Inc.)	E491T-9-H8	E71T-1	USA	100%CO <sub>2</sub>	0.9	1.6	W48-06
X-Ergon (Div. of NCH Canada Inc.)	E491T-9M-H8	E71T-1	USA	Ar + 20% to 25%CO <sub>2</sub>	0.9	1.6	W48-06
Zhangjiagang Hengchang Welding Materials Co., Ltd.	E491T-9-H8	SJF-711	China	100%CO <sub>2</sub>	1.2	1.6	W48-06
LINCOLN ELECTRIC MANUFACTURA S.A. DE C.V.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	CH-S6	Mexico	100%CO <sub>2</sub>	0.6	Unlimited	W48-06
ESAB GROUP INC./ ALLOY RODS	B-G 55A 3 C G4M31 (ER80S-D2)	Spoolarc 83	South Carolina	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Hobart Brothers Company, SWBU	B-G 55A 3 C G4M31 (ER80S-D2)	QUANTUM ARC D2 {cu}	USA	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 55A 3 C G4M31	Superarc LA-90	Canada	100%CO <sub>2</sub>		Unlimited	W48-14
Praxair Canada Inc.	B-G 55A 5 M G4M31 (ER80S-D2)	Prostar D2	Italy	Ar + 18%CO <sub>2</sub>	0.9	Unlimited	W48-14
Sidergas SPA	B-G 55A 5 M G4M31 (ER80S-D2)	Sidergas D2	Italy	Ar + 18%CO <sub>2</sub>	0.9	Unlimited	W48-14
Hyundai Welding Co. Ltd.	B-G 49A 3 C G6 (ER49S-6)	SM-70	China	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
2072902 Ontario Ltd.	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Supersmoothweld S3 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
2072902 Ontario Ltd.	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Robowire S3 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
2072902 Ontario Ltd.	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Trico S3 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
2072902 Ontario Ltd.	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Smoothweld S3 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
2072902 Ontario Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Smoothweld S6 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
2072902 Ontario Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Supersmoothweld S6 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
2072902 Ontario Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Smoothweld S6 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14



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2072902 ONTARIO LTD.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	CAN-AM Smoothweld S6	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
2072902 Ontario Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Robowire S6 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
2072902 Ontario Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Trico S6 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Air Liquide Canada, Inc.	B-G 49A 2 C G3 (ER49S-3)	Blueshield LA S-3 {cu}	Canada	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Air Liquide Canada, Inc.	B-G 49A 2 C G3 (ER49S-3)	Blueshield Straightweld S3 {cu}	Canada	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	BLUESHIELD ER70 S-6 MIG WIRE ITEM NUMBER BLU-38977823	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	BLUESHIELD ER70 S-6 MIG WIRE ITEM NUMBER BLU-38977830	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	BLUESHIELD ER70 S-6 MIG WIRE ITEM NUMBER BLU-38977845	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	BLUESHIELD ER70 S-6 MIG WIRE ITEM NUMBER BLU-38978430	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	BLUESHIELD ER70 S-6 MIG WIRE ITEM NUMBER BLU-38977835	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Air Liquide Canada, Inc.	B-G 49A 5 C G6 (ER49S-6)	Blueshield LA S-6 {cu}	Canada	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Air Liquide Canada, Inc.	B-G 49A 5 C G6 (ER49S-6)	Blueshield Straightweld S6 {cu}	Canada	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Air Liquide Canada, Inc.	B-G 49A 5 M G6 (ER49S-6)	Blueshield LA S-6 {cu}	Canada	Arcal 14	0.8	Unlimited	W48-14
Air Liquide Canada, Inc.	B-G 49A 5 M G6 (ER49S-6)	Blueshield Straightweld S6 {cu}	Canada	Arcal 14	0.8	Unlimited	W48-14
Airgas, Inc.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Radnor ER70S-6 {cu}	Mexico	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Airgas, Inc.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	ER70S-6 {cu}	Mexico	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Arctec Alloys Limited	B-G 49A 2 C G3 (ER49S-3)	Arctec ER70S-3 (cu)	Korea	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Arctec Alloys Limited	B-G 49A 3 C G6 (ER49S-6)	Arctec ER70S-6 (cu)	Korea	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Atlantic China Welding Consumables, Inc.	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	CHW-50C3 {cu}	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Atlantic China Welding Consumables, Inc.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	CHW-50C6SM {cu}	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Bohler Welding Group Canada Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Bohler EMK 8-D	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Bohler Welding Group Canada Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Union ER70S-6	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Bohler Welding Group Canada Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Bohler EMK 8S-U	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14



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Company Name	Classification	Electrode Designation	Point of Manufacture	Flux Gas	Min	Max	Standard
CHANGZHOU CITY YUNHE WELDING MATERIAL CO. LTD.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	YH50-6 {cu}	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Changzhou Huatong Welding Wire Co. Ltd.	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	HTW-53 {cu}	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Changzhou Huatong Welding Wire Co. Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	HTW-50 {cu}	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Changzhou Zhengyang Welding Material Co. Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	JY50-6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
CHANGZHOU ZHENGYANG WELDING MATERIAL CO.,LTD	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	JY50-3	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
CHOSUN WELDING CO. LTD.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	MC-50T {cu}	Korea	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.9	-	W48-14
Davis Wire Corporation	B-G 49A 3 C G6 (ER49S-6)	Viking 70S-6	China	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
Eagle Alloys Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Eagle 70S-6	Korea	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Elbor Srl	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	MIG ER70S-6 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
ESAB AB	B-G 49A 3 C G6 (ER49S-6)	OK AristoRod 12.50	China	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
ESAB AB	B-G 49A 3 C G6 (ER49S-6)	OK Autrod 12.51	China	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
ESAB CZ, s.r.o., clen koncernu (ESAB CZ)	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.63 {ncu}	Czech Republic	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
ESAB CZ, s.r.o., clen koncernu (ESAB CZ)	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.50 {ncu}	Czech Republic	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
ESAB CZ, s.r.o., clen koncernu (ESAB CZ)	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.57	Czech Republic	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
ESAB CZ, s.r.o., clen koncernu (ESAB CZ)	B-G 49A 3 C G6 (ER49S-6)	MIG-6 {cu}	Czech Republic	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
ESAB Group Canada Inc.	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.50	China	Argoshield GP	0.8	Unlimited	W48-14
ESAB Group Canada Inc.	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.50	China	Argoshield Universal	0.8	Unlimited	W48-14
ESAB Group Canada Inc.	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.50	China	Argoshield 25C	0.8	Unlimited	W48-14
ESAB Group Canada Inc.	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.50	China	Linde Mison 15C	0.8	Unlimited	W48-14
ESAB Group Canada Inc.	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.50	China	Argoshield Pro	0.8	Unlimited	W48-14
ESAB Group Canada Inc.	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.50	China	Argoshield Light	0.8	Unlimited	W48-14
ESAB Group Canada Inc.	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.50	China	Argoshield 8C	0.8	Unlimited	W48-14
ESAB Group Canada Inc.	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.50	China	Linde Mison 8C	0.8	Unlimited	W48-14



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ESAB Group Canada Inc.	B-G 49A 3 C G6 (ER49S-6)	OK Aristorod 12.50	China	Linde Mison 25C	0.8	Unlimited	W48-14
ESAB GROUP INC./ ALLOY RODS	B-G 49A 3 C G7 (ER49S-7)	Spoolarc 87-HP	South Carolina	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
ESAB INDIA LIMITED (KALMESHWAR PLANT)	B-G 49A 3 C G6 (ER49S-6)	ESAB MW1	India	100%CO <sub>2</sub>	1.2	Unlimited	W48-14
ESAB Mexico SA de CV	B-G 49A 2 C G3 (ER49S-3)	Spoolarc 29S {cu}	Mexico	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
ESAB Mexico SA de CV	B-G 49A 3 C G6 (ER49S-6)	Spoolarc 86 {cu}	Mexico	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Spoolarc 82	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)			W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	B-G 49A 3 C G2 (ER49S-2)	Spoolarc 65	USA	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	B-G 49A 3 C G6 (ER49S-6)	ESAB MIG-6	USA	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	B-G 49A 3 C G6 (ER49S-6)	Spoolarc 86	USA	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
EXOCOR	B-G 49A 3 C G6 (ER49S-6)	Executive 70S-6	Taiwan	100%CO <sub>2</sub> (and with gases allowed in CSA W48)	0.9	Unlimited	W48-14
EXOCOR	B-G 49A 3 C G6 (ER49S-6)	Executive 70S-6CF Plus	Taiwan	100%CO <sub>2</sub> (and with gases allowed in CSA W48)	0.9	Unlimited	W48-14
Gedik Kaynak Sanayi ve Ticaret A.S.	B-G 49A 2 C G3 (ER49S-3)	GeKa SG 1	Turkey	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Gedik Kaynak Sanayi ve Ticaret A.S.	B-G 49A 3 C G6 (ER49S-6)	GeKa SG 2	Turkey	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
GTS Inc.	B-G 49A 3 C G6 (ER49S-6)	GTS Hyperglide 6000	China	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Hobart Brothers Company, SWBU	B-G 49A 2 C G3 (ER49S-3)	QUANTUM ARC 3 {cu}	USA	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Hobart Brothers Company, SWBU	B-G 49A 2 C G3 (ER49S-3)	QCL-3 {ncu}	USA	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Hobart Brothers Company, SWBU	B-G 49A 3 C G6 (ER49S-6)	QCL-6 {ncu}	USA	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Hobart Brothers Company, SWBU	B-G 49A 3 C G6 (ER49S-6)	QUANTUM ARC 6 {cu}	USA	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Hobart Brothers Company, SWBU	B-G 55A 3 C G4M31 (ER80S-D2)	QCL-D2	USA	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Hyundai Welding (Kunshan) Co., Ltd.	B-G 49A 2 C G3 (ER49S-3)	SM-70S	China	100%CO <sub>2</sub>	0.8		W48-14
Hyundai Welding (Kunshan) Co., Ltd.	B-G 49A 3 C G6 (ER49S-6)	SM-70	China	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Hyundai Welding Co., Ltd.	B-G 49A 3 C G6 (ER49S-6)	SM-70	Vietnam	100%CO <sub>2</sub>	0.8		W48-14
Hyundai Welding Co., Ltd.	B-G 49A 3 C G6 (ER49S-6)	SM-70 {cu}	Korea	100%CO <sub>2</sub>	0.8	Unlimited	W48-14



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Hyundai Welding Vina Co., Ltd	B-G 49A 3 C G6 (ER49S-6)	SM-70	Vietnam	100%CO <sub>2</sub>	0.8		W48-14
Independent Welding Distributors Cooperative (IWDC)	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Weldmark 70S-6 Plus {cu}	Mexico	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Indura S.A.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Fidentia Welding ER70S-6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Italfil S.P.A.	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	IT-SG1 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Italfil S.P.A.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	IT-SG2 {cu}	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
KENNEBEX INC.	B-G 49A 3 C G6 (ER49S-6)	KBX S-6	China	100%CO <sub>2</sub>	0.6	-	W48-14
Kiswel Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	KC-28	Korea	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
KUANG TAI METAL (VIETNAM) CO., LTD.	B-G 49A 3 C G6 (ER49S-6)	KM-56	Vietnam	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
KUANG TAI METAL (VIETNAM) CO., LTD.	B-G 49A 3 C G6 (ER49S-6)	KM-56Z	Vietnam	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Kuang Tai Metal Ind. Co. Ltd.	B-G 49A 2 C G3 (ER49S-3)	KM-53Z	Taiwan	-	0.9	Unlimited	W48-14
Kuang Tai Metal Ind. Co. Ltd.	B-G 49A 3 C G6 (ER49S-6)	KM-56Z	Taiwan	-	0.9	Unlimited	W48-14
Lincoln Electric (Jinzhou) Welding Materials Co., Ltd.	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	ER70S-3	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Lincoln Electric (UK) Limited	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	SupraMIG Ultra	United Kingdom	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
LINCOLN ELECTRIC (UK) LIMITED	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Supramig HD	United Kingdom	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
LINCOLN ELECTRIC (UK) LIMITED	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Supramig	United Kingdom	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	-	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Superarc L-50	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Superarc L-58	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.9	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Superglide S3	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.9	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	S-6 Ecowire Spool {cu}	Canada	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-56 {cu}	Canada	Linde Mison 25C	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-59	Canada	Argoshield 25C	0.8	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Arcweld Easyarc 706 {cu}	Canada	Argoshield Pro	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-56 {cu}	Canada	Argoshield Pro	0.6	Unlimited	W48-14



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LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Murex S-6 {cu}	Canada	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-59	Canada	Argoshield 8C	0.8	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-59	Canada	Argoshield Light	0.8	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-56 {cu}	Canada	Argoshield GP	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-56 {cu}	Canada	Argoshield 8C	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Arcweld Easyarc 706 {cu}	Canada	TIME	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-59	Canada	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-59	Canada	Argoshield Pro	0.8	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	S-6 Mig	Canada	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-56 {cu}	Canada	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-56 {cu}	Canada	Argoshield Light	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Super Arc L-56	Canada	Linde Mison 15C	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-56 {cu}	Canada	Argoshield 25C	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-59	Canada	Argoshield GP	0.8	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-59	USA	Linde Mison 25C	0.9	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-56 {cu}	Canada	Argoshield Universal	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-59	Canada	Linde Mison 8C	0.8	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Arcweld Easyarc 706 {cu}	Canada	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Murex S-6	Canada	Linde Mison 15C	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Super Arc L-56	Canada	Linde Mison 8C	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-59	Canada	Argoshield Universal	0.8	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Superarc L-56 {cu}	Canada	Mig Mix Gold Hi-Dep	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C G6 (ER49S-6)	Murex S-6	Canada	Linde Mison 8C	0.6	Unlimited	W48-14



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LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C1 S4 (B-G 49A 3 C S4)	Superarc L-54	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.9	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Superarc L-59	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.9	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Superarc L-56	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Superglide S6	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.9	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Lincoln ER70S-6 {cu}	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Murex S-6	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Prostar S-6 {cu}	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A3 C G3 (ER49S-3)	SuperArc L-50 {cu}	Canada	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A3 C G3 (ER49S-3)	Arcweld EasyArc 703 {cu}	Canada	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	B-G 49A3 C G3 (ER49S-3)	Murex S-3	Canada	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Lincoln Electric Italia S.r.l. a socio unico	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Supramig	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	-	W48-14
Lincoln Electric Italia S.r.l. a socio unico	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Supramig HD	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	-	W48-14
Lincoln Electric Italia S.r.l. a socio unico	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	SupraMig Ultra	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	-	W48-14
Lincoln Electric Manufactura S.A. DE C.V.	B-G 49A 2 C G3 (ER49S-3)	L-50 {cu}	Mexico	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Lincoln Electric Manufactura S.A. DE C.V.	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Lincoln L-S3 {cu}	Mexico	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Lincoln Electric Manufactura S.A. DE C.V.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Lincoln L-S6 {cu}	Mexico	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Lincoln Electric Manufactura S.A. DE C.V.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Lincoln L-56 {cu}	Mexico	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
LINCOLN ELECTRIC MANUFACTURA S.A. DE C.V.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	L-59M	Mexico	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Lincoln Electric of Canada LP	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Superarc L-58	Canada	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.9	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Maxx S6 (Non Copper Coated) {ncu}	Italy	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Solidarc 115 {cu}	Canada	Argoshield Light	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Solidarc 115 {cu}	Canada	Argoshield 8C	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Linde S-6 {cu}	Canada	Argoshield Pro	0.6	Unlimited	W48-14





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Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Solidarc 115 {cu}	Canada	Argoshield GP	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Solidarc 115 {cu}	Canada	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Maxx S6 {cu}	Italy	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Maxx S6 {cu}	Italy	Argoshield Pro	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Solidarc 115 {cu}	Canada	Argoshield Pro	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Linde S-6 {cu}	Canada	Argoshield 8C	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Linde S-6 {cu}	Canada	Argoshield Light	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Linde S-6 {cu}	Canada	Argoshield Universal	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Weldco S-6 {cu}	Canada	Argoshield Pro	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Linde S-6 {cu}	Canada	Argoshield GP	0.6	Unlimited	W48-14
LINDE CANADA LIMITED	B-G 49A 3 C G6 (ER49S-6)	Linde Solidarc 115	Canada	Linde Mison 15C	0.6	Unlimited	W48-14
LINDE CANADA LIMITED	B-G 49A 3 C G6 (ER49S-6)	Linde Solidarc 115	Canada	Linde Mison 8C	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Linde S-6 {cu}	Canada	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Linde S-6 {cu}	Canada	Linde Mison 25C	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Solidarc 115 {cu}	Canada	Argoshield 25C	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Linde S-6 {cu}	Canada	Argoshield 25C	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Weldco S-6 {cu}	Canada	Coogar	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Solidarc 115 {cu}	Canada	TIME	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Solidarc 115 {cu}	Canada	Argoshield Universal	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C G6 (ER49S-6)	Weldco S-6 {cu}	Canada	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
LINDE CANADA LIMITED	B-G 49A 3 C G6 (ER49S-6)	Linde S6	Canada	Linde Mison 8C	0.6	Unlimited	W48-14
LINDE CANADA LIMITED	B-G 49A 3 C G6 (ER49S-6)	Linde S6	Canada	Linde Mison 15C	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Solidarc CS-6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14



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LINDE CANADA LIMITED	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	BOC70S-6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Linde Canada Limited	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Solidarc LS-6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Map Canada Ltd.	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Super MIG 73	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Map Canada Ltd.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Super Mig 70 {cu}	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
National Standard LLC	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	NS-101CF {ncu}	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
National Standard LLC	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Std Arc S-3	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
National Standard LLC	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	P3 S-3	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
National Standard LLC	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	NS-101 {cu}	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
National Standard LLC	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	NS Plus 101{cu}	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
National Standard LLC	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	NS-101CF {ncu}	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
National Standard LLC	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	NS-115CF {ncu}	USA	TIME	0.6	Unlimited	W48-14
National Standard LLC	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	P3 S-6	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
National Standard LLC	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	NS-115 {cu}	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
National Standard LLC	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	NS-115 {cu}	USA	Argoshield Pro	0.6	Unlimited	W48-14
National Standard LLC	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Std Arc S-6	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
National Standard LLC	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	NS Plus 115 {cu}	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
National Standard LLC	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	NS-115 CF	USA	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
NOVOFIL SRL	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	NOVOFIL 70	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
OERLIKON KAYNAK ELEKTRODLARI VE SAN. A.S.	B-G 49A 3 C G2 (ER49S-2)	TG 102	Turkey	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Oerlikon Kaynak Elektrodleri ve San. A.S.	B-G 49A 3 C G2 (ER49S-2)	MG 102	Turkey	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Oerlikon Kaynak Elektrodleri ve San. A.S.	B-G 49A 3 C G6 (ER49S-6)	MG 2	Turkey	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
OERLIKON KAYNAK ELEKTRODLARI VE SAN. A.S.	B-G 49A 3 C G6 (ER49S-6)	TG 2	Turkey	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
ORS Nasco, Inc.	B-G 49A 5 C G6 (ER49S-6)	Anchor Brand (ER49S-6)	Italy	100%CO <sub>2</sub>	0.6	Unlimited	W48-14



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Praxair Canada Inc.	B-G 49A 2 C G3 (ER49S-3)	Prostar S-3 {cu}	Italy	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Praxair Canada Inc.	B-G 49A 3 C G6 (ER49S-6)	Praxair S-6 {cu}	Canada	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
Praxair Canada Inc.	B-G 49A 3 C G6 (ER49S-6)	Praxair S-6 Envirospool {cu}	Canada	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
Praxair Canada Inc.	B-G 49A 5 C G6 (ER49S-6)	Prostar ER70S-6	Italy	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Praxair Canada Inc.	B-G 49A 5 C G6 (ER49S-6)	Prostar ER70S-6	Italy	TIME	0.9	Unlimited	W48-14
Praxair Mexico, S. De R.L. De C.V.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Microalambre Solido Prostar	Mexico	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
SHANDONG JULI WELDING CO., LTD.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	JL-ER50-3	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
SHANDONG JULI WELDING CO., LTD.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	JL-ER50-6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Shanghai Atlantic Welding Consumables Co. Ltd.	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	CHW-50C3	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)		Unlimited	W48-14
Shanghai Atlantic Welding Consumables Co. Ltd.	B-G 49A 3 C G6 (ER49S-6)	CHW-50C6SM	China	100%CO <sub>2</sub> (and with gases allowed in CSA W48)		Unlimited	W48-14
Sidergas SPA	B-G 49A 2 C G3 (ER49S-3)	Sidergas S-3 {cu}	Italy	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Sidergas SPA	B-G 49A 5 C G6 (ER49S-6)	Sidergas S-6 {cu}	Italy	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
SOWESCO I, LLC	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Pinnacle Alloys Premier S-3	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Sowesco I, LLC	B-G 49A 3 C G6 (ER49S-6)	Pinnacle Alloys Premier S-6	China	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Sowesco I, LLC	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Pinnacle Alloys Premier S-6	Korea	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Sowesco I, LLC.	B-G 49A 3 C G6 (ER49S-6)	Pinnacle Alloys Premier S-6	Korea	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Sowesco I, LLC.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Pinnacle Alloys Premier S-6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Sowesco I, LLC.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Pinnacle Alloys Premier S-6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Techniweld Products Corporation	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Unibraz ER70S-6 {cu}	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Techniweld Products Corporation	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Unibraz S-6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Techniweld Products Corporation	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Power Fist S-6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
The Harris Products Group	B-G 49A 2 C G3 (ER49S-3)	Harris E70S3	Turkey	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
The Harris Products Group	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	ER70S-3	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14



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The Harris Products Group	B-G 49A 3 C G6 (ER49S-6)	Harris E70S6	Turkey	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
The Harris Products Group	B-G 49A 3 C G6 (ER49S-6)	Harris ER70S-6	China	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
The Harris Products Group	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	ER70S-6	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Tianjin Bridge Welding Materials Group Co., Ltd.	B-G 49A 3 C G6 (ER49S-6)	THQ-50C	China	100%CO <sub>2</sub>	0.6	Unlimited	W48-14
TIANJIN METALLURGY GROUP FLOURISH STEEL	A-G 42 3 C1 3Si1	TM 56	China	C1 (100%CO <sub>2</sub> )	0.8	Unlimited	W48-14
TIANJIN METALLURGY GROUP FLOURISH STEEL	A-G 42 3 M21 3Si1	TM 56	China	M21 (Greater than Ar + 15% CO <sub>2</sub> to Ar + 25%CO <sub>2</sub> )	0.8	Unlimited	W48-14
TIANJIN METALLURGY GROUP FLOURISH STEEL	B-G 49A 3 C1 S12	TM 56	China	C1 (100%CO <sub>2</sub> )	0.8	Unlimited	W48-14
TIANJIN METALLURGY GROUP FLOURISH STEEL	B-G 49A 3 M21 S12	TM 56	China	M21 (Greater than Ar + 15% CO <sub>2</sub> to Ar + 25%CO <sub>2</sub> )	0.8	Unlimited	W48-14
Trefilal Inc.	B-G 49A 2 C G3 (ER49S-3)	S-3 Welding Wire{cu}	Canada	100%CO <sub>2</sub>	0.9	Unlimited	W48-14
Trefilal Inc.	B-G 49A 5 C G6 (ER49S-6)	S-6 Welding Wire{cu}	Canada	100%CO <sub>2</sub>	0.8	Unlimited	W48-14
Trefilal Inc.	B-G 49A 5 M G6 (ER49S-6)	S-6 Welding Wire{cu}	Canada	Arcal 14	0.8	Unlimited	W48-14
Vanguard Steel Limited	B-G 49A 2 C1 S3 (B-G 49A 2 C G3)	Bonarc ER70S-3 {cu}	Korea	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Vanguard Steel Limited	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Bonarc ER70S-6 {cu}	Korea	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Vanguard Steel Limited	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	VGD S-6 {cu}	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Vanguard Steel Limited	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	VDG ER70S-6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Bohler SG 2	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Bohler SG 2	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Bohler SG 2	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Bohler SG 3	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
voestalpine Böhler Welding Austria GmbH	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	BÖHLER EMK 6	Austria	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
Washington Alloy Co.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	ER70S-6	Korea	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
WASHINGTON ALLOYS INC.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	WA Alloy ER70S-6	Korea	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.9	-	W48-14
WB Alloy Products Limited	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	WB 6000	Italy	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14



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Weldability Sif	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	SIFMIG SG2	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.8	Unlimited	W48-14
WELDCOTE METALS INC.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Weldcote Metals ER70S-6	Korea	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.9	-	W48-14
Welding Material Sales Inc.	B-G 49A 3 C1 S6 (B-G 49A 3 C G6)	Blue Demon ER70S6	China	C1 (100%CO <sub>2</sub> ) (and with gases allowed in CSA W48)	0.6	Unlimited	W48-14
Zhangjiagang Hengchang Welding Materials Co., Ltd.	B-G 49A 3 C G6 (ER49S-6)	SJ-50	China	100%CO <sub>2</sub>	0.6	-	W48-14
AIR LIQUIDE CANADA, INC.	F49A3-EM12K	BLUESHIELD LA 12K	Canada	Oerlikon OP139 (made in Germany)		Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	F49A3-EM12K	BLUESHIELD LA 12K	Canada	Oerlikon OP176 (made in Germany)		Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	F49A5-EM12K	BLUESHIELD LA 12K	Canada	Blueshield LA59 (made in Germany)		Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	F49A6-EM12K	BLUESHIELD LA 12K	Canada	Oerlikon OP120TT (made in Germany)		Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	F49A6-EM12K	BLUESHIELD LA 12K	Canada	Oerlikon OP121TT (made in Germany)		Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	F49P5-EM12K	BLUESHIELD LA 12K	Canada	Blueshield LA59 (made in Germany)		Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	F49P6-EM12K	BLUESHIELD LA 12K	Canada	Oerlikon OP120TT (made in Germany)		Unlimited	W48-14
American Buildings Company	F49A2-EM13K	Lincolnweld L-50	USA	Recycled F49A2 (781)	4	Unlimited	W48-14
American Buildings Company	F49A2-EM13K	Lincolnweld L-50	USA	Recycled F49A2 (781)	4	Unlimited	W48-14
Atlantic China Welding Consumables, Inc.	F49A4-EH14-H8	CHW-S3 {cu}	China	CHF101 (Made in China) (baked at 350 degree C for 2 hours before use)	-	Unlimited	W48-14
BlueScope Buildings North America Inc. (Anncville, PA Plant)	F49A2-EM13K	Lincolnweld L-50	USA	T-781(made in USA)		unlimited	W48-14
Bluescope Buildings North America Inc.(St. Joseph, MO Plant)	F49A2-EM13K	Lincolnweld L-50	USA	T-781(made in USA)		unlimited	W48-14
BueScope Buildings North America Inc. (Evansville, WI Plant)	F49A2-EM13K	Lincolnweld L-50	USA	T-781(made in USA)		unlimited	W48-14
ESAB GROUP INC./ ALLOY RODS	F49A4-EM12K	Spoolarc 81/OK Flux 10.77		OK Flux 10.77 (Made in Hanover)	4.0	4.0	W48-14
ESAB VAMBERK, Z.R.O.	F43P4-EM12K	OK Autrod 12.22	Czech Republic	OK Flux 10.71 (Made in Poland)		unlimited	W48-14
ESAB VAMBERK, Z.R.O.	F43P4-EM12K	OK Autrod 12.22	Czech Republic	OK Flux 10.71 (made in Hungary)		unlimited	W48-14
ESAB VAMBERK, Z.R.O.	F49A4-EM12K	OK Autrod 12.22	Czech Republic	OK Flux 10.71 (Made in Poland)		unlimited	W48-14
ESAB VAMBERK, Z.R.O.	F49A4-EM12K	OK Autrod 12.22	Czech Republic	OK Flux 10.71 (made in Hungary)		unlimited	W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	F49A3-EM12K	Spoolarc 81	USA	OK Flux 429 (made in USA)	-	-	W48-14



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ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	F49A3-EM12K	Spoolarc 81	USA	OK Flux 231 (made in USA)	-	-	W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	F49A3-EM12K-H8	Spoolarc 81	USA	OK Flux 350 (made in USA)	-	-	W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	F49A3-EM13K-H8	Spoolarc 29S	USA	OK Flux 429 (made in USA)	-	-	W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	F49A4-EM12K-H8	Spoolarc 81	USA	OK Flux 10.71 (made in USA)	-	-	W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	F49A5-EM12K	Spoolarc 81	USA	OK Flux 10.62 (made in USA)	-	-	W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	F49A5-EM12K (F48A5-EM12K)	Spoolarc 81	USA	OK Flux 10.71 (Made in Poland)	-	-	W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	F49A6-EM12K	Spoolarc 81	USA	OK Flux 10.72 (made in Poland)	-	-	W48-14
ESAB WELDING & CUTTING PRODUCTS MIDWAY FACILITY	F49A6-EM12K	Spoolarc 81	USA	OK Flux 10.72 (made in USA)	-	-	W48-14
Hobart Brothers Co., Tubular Wire Business (Plant 2)	F49A4-EC1-H8	SubCOR EM13KS	USA	HA-495 (made in Taiwan)		Unlimited	W48-14
Hobart Brothers Co., Tubular Wire Business (Plant 2)	F49A5-EC1-H8	SubCOR EM13KS	USA	HN-590 (made in Taiwan)		Unlimited	W48-14
Hobart Brothers Co., Tubular Wire Business (Plant 2)	F49A5-EC1-H8	SubCOR EM13KS	USA	HN-511 (made in Taiwan)		Unlimited	W48-14
Hobart Brothers Co., Tubular Wire Business (Plant 2)	F49A6-EC1-H8	SubCOR EM13K-S MOD	USA	HN-590 (made in Taiwan)		Unlimited	W48-14
Hobart Brothers Co., Tubular Wire Business (Plant 2)	F49A6-EC1-H8	SubCOR EM13K-S MOD	USA	HN-511 (made in Taiwan)		Unlimited	W48-14
Hobart Brothers Co., Tubular Wire Business (Plant 2)	F43P6-EC1	SubCOR EM13KS	USA	HN-590 (made in Taiwan)		Unlimited	W48-14
Hobart Brothers Co., Tubular Wire Business (Plant 2)	F43P7-EC1	SubCOR EM13KS	USA	HN-511 (made in Taiwan)		Unlimited	W48-14
Hobart Brothers Co., Tubular Wire Business (Plant 2)	F49A6-EC1	METALLOY EM13K-S MOD	USA	SWX 110 (Made In Poland)	2.4	4.00	W48-14
Hobart Brothers Co., Tubular Wire Business (Plant 2)	F49A6-EC1-H8	SubCOR EM13K-S MOD	USA	Hobart SWX 120(Made In Poland)		Unlimited	W48-14
Hyundai Welding (Kunshan) Co., Ltd.	F49A5-EM12K	M-12K	China	S-717 (made in Korea)			W48-14
Hyundai Welding (Kunshan) Co., Ltd.	F49P5-EM12K	M-12K	China	S-717 (made in Korea)			W48-14
Hyundai Welding Co. Ltd.	F49A5-EM12K	M-12K	China	S-717 (made in Korea)			W48-14
Hyundai Welding Co. Ltd.	F49P5-EM12K	M-12K	China	S-717 (made in Korea)			W48-14
HYUNDAI WELDING CO., LTD.	F49A3-EH14	H-14	Korea	S-777MXH (Made in Korea)		Unlimited	W48-14
Hyundai Welding Co., Ltd.	F49A5-EM12K	M-12K	Korea	S-717 (made in Korea)	-	Unlimited	W48-14
Hyundai Welding Co., Ltd.	F49A6-EH14-H8	H-14	Korea	S-787TB (Made in Korea)		Unlimited	W48-14
Hyundai Welding Co., Ltd.	F49A6-EM12K	M-12K	Korea	S-800WT		Unlimited	W48-14



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HYUNDAI WELDING CO., LTD.	F49P3-EH14	H-14	Korea	S-777MXH (Made in Korea)		Unlimited	W48-14
Hyundai Welding Co., Ltd.	F49P5-EM12K	M-12K	Korea	S-717 (made in Korea)	-	Unlimited	W48-14
Hyundai Welding Co., Ltd.	F49P6-EH14-H8	H-14	Korea	S-787TB (Made in Korea)		Unlimited	W48-14
Hyundai Welding Co., Ltd.	F49P6-EM12K	M-12K	Korea	S-800WT		Unlimited	W48-14
ITW WELDING GmbH	F49A4-EM12K-H8	SDX S2Si-EM12K	Germany	Hobart SWX 120(Made In Poland)	2.4	4.0	W48-14
ITW WELDING GmbH	F49A4-EM12K-H8	SDX S2Si-EM12K	Germany	SWX 110 (Made In Poland)	2.4	4.0	W48-14
ITW WELDING GmbH	F49A6-EH12K-H8	SDX S3Si-EH12K	Germany	SWX 150( Made in Poland)	2.4	4.0	W48-14
ITW WELDING GmbH	F49A6-EH12K-H8	SDX S3Si-EH12K	Germany	SWX 110 (Made In Poland)	2.4	4.0	W48-14
ITW WELDING GmbH	F49A6-EH12K-H8	SDX S3Si-EH12K	Germany	Hobart SWX 120(Made In Poland)	2.4	4.0	W48-14
ITW WELDING GmbH	F49A6-EM12K-H8	SDX S2Si-EM12K	Germany	SWX 150( Made in Poland)	2.4	4.0	W48-14
LINCOLN ELECTRIC COMPANY	F49A5-EM12K-H8	Lincolnweld WTX-TR / Lincolnweld L-61	USA	Lincolnweld WTX-TR (made in USA)	1.6	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F43A3-EL12	Lincolnweld L-60 {cu}	Canada	Lincolnweld 760 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A2-EL12-H8	Lincolnweld L-60 {cu}	Canada	Lincolnweld 780 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A2-EM12K	Lincolnweld L-61 {cu}	USA	Lincolnweld 781 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A2-EM12K-H8	Lincolnweld L-61 {cu}	Canada	Lincolnweld 781 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A2-EM13K-H8	Lincolnweld L-50 {cu}	USA	Lincolnweld 781 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A3-EL12	Lincolnweld L-60 {cu}	Canada	Lincolnweld 761 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A3-EM12K	Lincolnweld L-61 {cu}	Canada	Lincolnweld 760 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A3-EM12K	Lincolnweld L-61 {cu}	USA	Lincolnweld 960 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A3-EM12K	Lincolnweld L-61 {cu}	Canada	Lincolnweld 980 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A3-EM12K	Lincolnweld L-61 {cu}	USA	Lincolnweld 980 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A3-EM12K-H8	Lincolnweld L-61 {cu}	USA	Lincolnweld 761 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A3-EM12K-H8	Lincolnweld L-61 {cu}	Canada	Lincolnweld 960 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A3-EM12K-H8	Lincolnweld L-61 {cu}	USA	Lincolnweld 780 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A3-EM12K-H8	Lincolnweld L-61 {cu}	Canada	Lincolnweld 761 (made in USA)		Unlimited	W48-14



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LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A3-EM13K	Lincolnweld L-50 {cu}	USA	Lincolnweld 980 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A5-EM12K-H4	Lincolnweld L-61 {cu}	Canada	Lincolnweld 888 (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A5-EM13K	Lincolnweld L-50 {cu}	Canada	Lincolnweld 880M (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A6-EH11K-H8	Lincolnweld L-56 {cu}	Canada	Lincolnweld 880M (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A6-EM12K-H8	Lincolnweld L-61 {cu}	USA	Lincolnweld WTX (made in USA)		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	F49A6-EM12K-H8	Lincolnweld L-61 {cu}	Canada	Lincolnweld WTX (made in USA)		Unlimited	W48-14
Lincoln Electric Manufactura S.A. DE C.V.	F49A2-EM12K	Lincolnweld L-61	Mexico	Lincolnweld 781 (made in USA)	Unlimited	Unlimited	W48-14
Lincoln Electric Manufactura S.A. DE C.V.	F49A2-EM13K	Lincolnweld L-50	Mexico	Lincolnweld 781 (made in USA)	unlimited	unlimited	W48-14
Lincoln Electric Manufactura S.A. DE C.V.	F49A3-EM12K	Lincolnweld L-61	Mexico	Lincolnweld 761 (made in USA)	unlimited	unlimited	W48-14
Lincoln Electric Manufactura S.A. DE C.V.	F49A3-EM13K	Lincolnweld L-50	Mexico	Lincolnweld 761 (made in USA)			W48-14
Lincoln Electric of Canada LP	F49A2-EL12	Lincolnweld L-60 {cu}	USA	Lincolnweld 780 (made in USA)		Unlimited	W48-14
Lincoln Electric of Canada LP	F49A3-EC1-H8	Lincolnweld LC-72 {cu}	USA	Lincolnweld 980 (made in USA)		2.4	W48-14
Lincoln Electric of Canada LP	F49A3-EM12K-H8	Lincolnweld L-61 {cu}	Canada	Lincolnweld 780 (made in USA)		Unlimited	W48-14
Lincoln Electric of Canada LP	F49A4-EM12K-H8	Lincolnweld L-61 {cu}	Canada	Lincolnweld 860 (made in USA)		Unlimited	W48-14
Lincoln Electric of Canada LP	F49A6-EH12K-H8	Lincolnweld L-S3	USA	Lincolnweld P223 (made in USA)		Unlimited	W48-14
Lincoln Electric of Canada LP	F49A6-EM12K	Lincolnweld L-61 {cu}	Canada	Lincolnweld 882 (made in USA)		Unlimited	W48-14
Nucor Building Systems Group	F49A2-EM13K	Lincolnweld L-50	USA	Recycled F49A2 (761)	4	Unlimited	W48-14
SELECT-ARC, INC.	F49A5-EC1-H8	Select EM12KS	USA	Oerlikon OP139 (made in Germany)			W48-14
Tien Tai Electrode Co. Ltd	F49A5-EC1	Subcor M13K	Taiwan	HN-590 (made in Taiwan)	-	-	W48-14
Tien Tai Electrode Co. Ltd.	F49A4-EM12K	TSW-12KM	Taiwan	TF-565 (made in Taiwan)	-	-	W48-14
Tien Tai Electrode Co. Ltd.	F49A5-EC1	Subcor M13K	Taiwan	TF-565 (made in Taiwan)	-	-	W48-14
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	F49A2-EM12K	T Union SA EM12K	China	T UV 101SJ (made in China)		Unlimited	W48-14
VOESTALPINE BÖHLER WELDING AUSTRIA GMBH	E4918-1-H4	BÖHLER FOX EV 50	Austria	N/A	2.0	6.0	W48-14
VOESTALPINE BÖHLER WELDING AUSTRIA GMBH	E4918-1-H4	BÖHLER AWS E7018-1	Austria	N/A	2.0	6.0	W48-14





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Air Liquide Canada, Inc.	E5518-C1-H8	LA 8018-C1	Canada	N/A	-	Unlimited	W48-14
Air Liquide Canada, Inc.	E5518-C3-H8	LA 8018-C3	Canada	N/A	-	Unlimited	W48-14
Air Liquide Canada, Inc.	E6218-M	LA 9018-M	Canada	N/A	-	5	W48-14
Air Liquide Canada, Inc.	E7618-M	LA 11018-M	Canada	N/A	-	Unlimited	W48-14
ESAB Group, Inc./Alloy Rods	E5518-C1	Atom Arc 8018-C1	USA	N/A	-	5	W48-14
ESAB Group, Inc./Alloy Rods	E5518-C3	Atom Arc 8018	USA	N/A	-	5	W48-14
ESAB Group, Inc./Alloy Rods	E6218-M (E9018-M)	Atom Arc 9018	USA	N/A	2.4	3.2	W48-14
ESAB Group, Inc./Alloy Rods	E7618-M	Atom Arc T	USA	N/A	-	5	W48-14
Kiswel Ltd.	E5518-C3	K-8018C3	Korea	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY	E4910-G	Shield-Arc HYP+	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4910-A1	Shield-Arc 85	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4910-P1 (ALSO MEET THE REQUIREMENTS OF E4910-G)	Shield-Arc HYP+	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4918-A1	Excalibur 7018-A1 MR	USA	N/A	-	4	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E5510-G	Pipeliners 8P+	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E5510-G	Shield-Arc 70+	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E5510-P1 (also meet the requirements of E5510-G)	Pipeliners 8P+	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E5518-B2 (E8018-B2)	Excalibur 8018-B2 MR	USA	N/A	2.4	4	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E5518-C1	Excalibur 8018-C1 MR	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E5518-C3	Excalibur 8018-C3 MR	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E6218-B3 (E9018-B3)	Excalibur 9018-B3 MR	USA	N/A	2.4	4	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E6918-D2 (E10018-D2-H4R)	Excalibur 10018-D2 MR	USA	N/A	2.4	4	W48-14
METRODE PRODUCTS LIMITED	E5518-C1-H4	TUF-MET 2Ni.B	England		3.2	3.2	W48-14
Vanguard Steel Limited	E5518-C3	Bonarc E8018-C3	Korea	N/A	-	5	W48-14
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	E5518-B2-H4	Bohler E8018-B2 (DCEP only)	China	N/A	-	Unlimited	W48-14



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VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	E6218-B3-H4	Bohler E9018-B3 (DCEP only)	China	N/A		Unlimited	W48-14
ESAB GROUP INC./ ALLOY RODS	E4918-1-H4	Atom Arc 7018 Acclaim	USA	N/A	-	5.0	W48-14
Air Liquide Canada, Inc.	E4310	LA 6010	Canada	N/A	-	5	W48-14
Air Liquide Canada, Inc.	E4311	LA Ultra 11	Canada	N/A	-	5	W48-14
Air Liquide Canada, Inc.	E4313	LA 6013	Canada	N/A	-	Unlimited	W48-14
Air Liquide Canada, Inc.	E4914	LA 7014	Canada	N/A	-	Unlimited	W48-14
AIR LIQUIDE CANADA, INC.	E4918-1-H4	LA 7018	Canada	N/A	-	Unlimited	W48-14
Air Liquide Canada, Inc.	E4918-1-H4	Nuclearc 7018	Canada	N/A	-	Unlimited	W48-14
Air Liquide Canada, Inc.	E4918-1-H4	LA 18 LMP	Canada	N/A	-	5	W48-14
Air Liquide Canada, Inc.	E4918-1-H4	LA 18 Plus LMP	Canada	N/A	-	5	W48-14
Air Liquide Canada, Inc.	E4918-1-H4	LA 18 Plus	Canada	N/A	-	Unlimited	W48-14
Air Liquide Canada, Inc.	E4918-1-H4	LA 7018	Canada	N/A	-	Unlimited	W48-14
Air Liquide Canada, Inc.	E4918-1-H4	LA 18 Plus Complete	Canada	N/A	-	6	W48-14
AIR LIQUIDE CANADA, INC.	E4918-1-H4	LA 18 PLUS LMP	Canada	N/A	-	6	W48-14
Air Liquide Canada, Inc.	E4918-H8	LA Excelarc 18	Canada	N/A	-	4	W48-14
Air Liquide Canada, Inc.	E4924	LA 7024	Canada	N/A	-	Unlimited	W48-14
Air Liquide Canada, Inc.	E4928-H8	LA 7028	Canada	N/A	-	Unlimited	W48-14
Air Liquide Canada, Inc.	E5518-B2-H4	LA 8018 B2	Canada	N/A	-	5	W48-14
Atlantic China Welding Consumables, Inc.	E4313	CHE40	China	N/A	-	4.0	W48-14
Atlantic China Welding Consumables, Inc.	E4915-H8	CHE50 (2 hours baking at min. of 350 °C before welding)	China	N/A	-	5.0	W48-14
Atlantic China Welding Consumables, Inc.	E4918-1-H8	CHE58-1 (2 hours baking at min. of 350 °C before welding)	China	N/A	-	5.0	W48-14
Eagle Alloys Ltd.	E4918-1	Eagle 7018-1	Korea	N/A	-	5	W48-14
ESAB AB	E4918-1-H4	OK 55.00	Sweden	N/A	-	5	W48-14
ESAB AB	E4924	OK Femax 33.80	Sweden	N/A	-	6	W48-14
ESAB Group, Inc./Alloy Rods	E4918	Atom Arc 7018	USA	N/A	-	5	W48-14
ESAB Group, Inc./Alloy Rods	E4918-1-H4	Atom Arc 7018-1	USA	N/A	-	Unlimited	W48-14
ESAB MEXICO S.A. DE C.V.	E4918	ATOM ARC 7018-AC	Mexico	N/A	-	4	W48-14
ESAB Mexico SA de CV	E4311	Sureweld E6011	Mexico	N/A	-	5	W48-14
ESAB Mexico SA de CV	E4313	Sureweld E6013	Mexico	N/A	-	4	W48-14
ESAB Mexico SA de CV	E4918	ESAB 7018	Mexico	N/A	-	5	W48-14
ESAB Mexico SA de CV	E4918	Atom Arc 7018	Mexico	N/A	-	5	W48-14



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ESAB Mexico SA de CV	E4918-1	Atom Arc 7018-1	Mexico	N/A	-	Unlimited	W48-14
ESAB Mexico SA de CV	E4924	Sureweld E7024	Mexico	N/A	-	Unlimited	W48-14
Esab Mor Kft	E4918-1	OK 56.69	Hungary	N/A	-	Unlimited	W48-14
GEDIK KAYNAK SAN. VE TIC. A.S.	E4310	GeKa LINK 6010	Turkey	N/A	2.4	5.0	W48-14
GEDIK KAYNAK SAN. VE TIC. A.S.	E4918-1-H4	GeKa LASER B 55-S	Turkey	N/A	2.4	5.0	W48-14
Gedik Kaynak Sanayi ve Ticaret A.S.	E4313	GeKa ELIT	Turkey	N/A	-	5	W48-14
Gedik Kaynak Sanayi ve Ticaret A.S.	E4918-H4	GeKa Laser B47 (2 Hours Baking at Min. 300 °C Before Welding)	Turkey	N/A	-	5	W48-14
Hobart Brothers Company, SEBU	E4310	Radnor 6010	USA	N/A	-	5	W48-14
HOBART BROTHERS COMPANY, SEBU	E4310	Hobart 610	USA	N/A	-	4	W48-14
Hobart Brothers Company, SEBU	E4310	PIPEMASTER PRO-60	USA	N/A	-	5	W48-14
Hobart Brothers Company, SEBU	E4311	Hobart 335A	USA	N/A	-	5	W48-14
Hobart Brothers Company, SEBU	E4311	Cor-Arc 6011	USA	N/A	-	5	W48-14
Hobart Brothers Company, SEBU	E4311	Radnor 6011	USA	N/A	-	5	W48-14
Hobart Brothers Company, SEBU	E4313	Hobart 447C	USA	N/A	-	4	W48-14
Hobart Brothers Company, SEBU	E4914	Cor-Arc 7014	USA	N/A	-	5	W48-14
Hobart Brothers Company, SEBU	E4914	Hobart 14A	USA	N/A	-	5	W48-14
Hobart Brothers Company, SEBU	E4918-1-H4	Hobart 418	USA	N/A	-	6	W48-14
Hobart Brothers Company, SEBU	E4918-1-H4	HOBART 7018XLM	USA	N/A	-	6	W48-14
Hobart Brothers Company, SEBU	E4918-1-H4	Radnor 7018	USA	N/A	-	6	W48-14
Hobart Brothers Company, SEBU	E4924-1	Hobart 24	USA	N/A	-	5	W48-14
Hyundai Welding (Kunshan) Co., Ltd.	E4924	S-7024.F	China	-	-	5.0	W48-14
Hyundai Welding Co. Ltd.	E4924	S-7024.F	China	-	-	5.0	W48-14
Hyundai Welding Co., Ltd.	E4310	S-6010.D	Korea	-	-	5.0	W48-14
Hyundai Welding Co., Ltd.	E4313	S-6013.V	Korea	-	-	5	W48-14
Hyundai Welding Co., Ltd.	E4916	S-7016.H	Korea	-	-	5.0	W48-14
Hyundai Welding Co., Ltd.	E4918	S-7018.GH	Korea	-	-	5	W48-14
Hyundai Welding Co., Ltd.	E4918-1-H8	S-7018.1H	Korea	-	-	5.0	W48-14
Hyundai Welding Co., Ltd.	E4924	S-7024.F	Korea	-	-	5	W48-14
Inweld Canada	E4918-1	Habco Re-Arc 18	USA	N/A	-	5	W48-14
Kiswel Ltd.	E4918	K-7018	Korea	N/A	-	5	W48-14
KUNSHAN GINTUNE WELDING CO., LTD.	E4918-1	GEL-581 (DCEP only)	China	N/A	2.6	5.0	W48-14



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Company Name	Classification	Electrode Designation	Point of Manufacture	Flux Gas	Min	Max	Standard
LINCOLN ELECTRIC COMPANY	E4918-H4	MILLENNIUM ARC 7018	USA	N/A	2.4	4	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4310	Fleetweld 5P+	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4310	Pipeliners 6P+	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4310	Fleetweld 5P	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4310	Arcweld Easyarc 10	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4311	Fleetweld 180	USA	N/A	-	4	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4311	Fleetweld 35+	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4311	Arcweld 230	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4311	Fleetweld 35LS	USA	N/A	-	4	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4313	Fleetweld 37+	USA	N/A	-	4	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4313	Arcweld Satinarc	USA	N/A	-	4	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4313	Fleetweld 37-RSP	Mexico		-	4.0	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4313	Fleetweld 37	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4327	Jetweld 2	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4914	Fleetweld 47	USA	N/A		Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4916-H4	Pipeliners 16P	USA		-	4	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4918	Excalibur 7018 MR	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4918-1	Jetweld LH-70	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4918-1	Arcweld Easyarc 528 MR	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4918-1	Formula 1 LH	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4918-1	Arcweld EasyArc 328 MR	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4918-1	Jetweld LH-78 MR	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4918-1-H4	Excalibur 7018-1 MR	USA	N/A	-	6	W48-14



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LINCOLN ELECTRIC COMPANY OF CANADA LP	E4918-H4R	Excalibur 7018 MR N	USA	N/A	-	5.0	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4924-1	Jetweld 1	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4924-1	Arcweld Easyarc 12	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E4928-H8	Excalibur 7028	USA	N/A	-	Unlimited	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E492T-G-H16	Innershield NR-FAB-70	USA	None	2.4	2.4	W48-14
Linde Canada Limited	E4310	Linde E6010-IP	USA	N/A	-	Unlimited	W48-14
Linde Canada Limited	E4311	Linde E6011	USA	N/A	-	Unlimited	W48-14
Linde Canada Limited	E4313	Linde E6013-V	USA	N/A	-	4	W48-14
Linde Canada Limited	E4914	Linde E7014-IP	USA	N/A	-	Unlimited	W48-14
Linde Canada Limited	E4918-1	Linde E7018-1 MR Performance Plus	USA	N/A	-	Unlimited	W48-14
Linde Canada Limited	E4918-1	Linde E7018-1 Max	USA	N/A	-	6	W48-14
Linde Canada Limited	E4918-H8	Linde E7018 AC	USA	N/A	-	4	W48-14
Linde Canada Limited	E4918-H8	Linde Extra	USA	N/A	-	4	W48-14
Linde Canada Limited	E4924-1	Linde E7024-IP	USA	N/A	-	Unlimited	W48-14
Messer - MG Welding Products	E4918-1	MG 7018-1	USA	N/A	-	5	W48-14
Oerlikon Kaynak Elektrodleri ve San. A.S.	E4310	ESC 60	Turkey	N/A	-	5	W48-14
Oerlikon Kaynak Elektrodleri ve San. A.S.	E4311	ESC 61	Turkey	N/A	-	5	W48-14
Oerlikon Kaynak Elektrodleri ve San. A.S.	E4313	ESR 13	Turkey	N/A	-	5	W48-14
Oerlikon Kaynak Elektrodleri ve San. A.S.	E4918-1-H8	ESB 52 (2 hours baking at min 300°C before welding)	Turkey	N/A	-	5	W48-14
Oerlikon Kaynak Elektrodleri ve San. A.S.	E4918-H8	ESB 48 (2 hours baking at min. 300 °C before welding)	Turkey	N/A	-	5	W48-14
PRAXAIR CANADA INC.	E4310	PROSTAR 6010	Mexico	N/A	-	5.0	W48-14
PRAXAIR CANADA INC.	E4311	Prostar E6011	Mexico	N/A	-	5	W48-14
PRAXAIR CANADA INC.	E4311	PROSTAR 6011	Mexico	N/A	-	5.0	W48-14
PRAXAIR CANADA INC.	E4313	PROSTAR 6013	Mexico	N/A	-	4.0	W48-14
PRAXAIR CANADA INC.	E4914	PROSTAR 7014	Mexico	N/A	-	4.0	W48-14
PRAXAIR CANADA INC.	E4918	PROSTAR E7018AC	Mexico	N/A	-	4	W48-14
PRAXAIR CANADA INC.	E4918-1	Prostar E7018	Mexico	N/A	-	Unlimited	W48-14
Praxair Canada Inc.	E4918-1	Prostar Select 7018	Hungary	N/A	-	Unlimited	W48-14
PRAXAIR CANADA INC.	E4918-1-H8	PROSTAR 7018-1	Mexico	N/A	-	Unlimited	W48-14
PRAXAIR CANADA INC.	E4918-H8	PROSTAR 7018AC	Mexico	N/A	-	Unlimited	W48-14



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PRAXAIR CANADA INC.	E4918-H8	PROSTAR 7018	Mexico	N/A	-	Unlimited	W48-14
PRAXAIR CANADA INC.	E4924	PROSTAR 7024	Mexico	N/A	-	5.0	W48-14
PRAXAIR CANADA INC.	E4924	Prostar E7024	Mexico	N/A	-	Unlimited	W48-14
PROLECTRODE Inc.	E4918-1	PROLECTRODE 7018-1	USA	N/A			W48-14
Shanghai Atlantic Welding Consumables Co. Ltd.	E4915-H8	CHE50 (2 hours baking at min. of 350 °C before welding)	China	N/A	-	5	W48-14
Shanghai Atlantic Welding Consumables Co. Ltd.	E4918-1-H8	CHE58-1 (2 hours baking at min. of 350 °C before welding)	China	N/A	-	5.0	W48-14
Sodel Limitee	E4918	Sodel 318	Canada	N/A	-	Unlimited	W48-14
Techniweld Products Corporation	E4313	Powerweld E6013	China	N/A	-	4	W48-14
Techniweld Products Corporation	E4918-1-H8	Powerweld E7018 (2 hours baking at min. of 350 °C before welding)	China	N/A	-	5	W48-14
TIANJIN BRIDGE WELDING MATERIALS GROUP CO. LTD.	E4313	J421	China	-	2.5	5.0	W48-14
TIANJIN BRIDGE WELDING MATERIALS GROUP CO. LTD.	E4918	THJ506Fe	China	-	2.5	5.0	W48-14
Tien Tai Electrode Co. Ltd.	E4310	TC-10	Taiwan	N/A	-	5.0	W48-14
Tien Tai Electrode Co. Ltd.	E4311	TC-11	Taiwan	N/A	-	5.0	W48-14
Tien Tai Electrode Co. Ltd.	E4313	R-13	Taiwan	N/A	-	4.0	W48-14
Tien Tai Electrode Co. Ltd.	E4914	T-14	Taiwan	N/A	-	5.0	W48-14
Tien Tai Electrode Co. Ltd.	E4918-H8	TL-508	Taiwan	N/A	-	5.0	W48-14
Vanguard Steel Limited	E4310	Bonarc E6010	Korea	N/A	-	5	W48-14
Vanguard Steel Limited	E4311	Bonarc E6011	Korea	N/A	-	5	W48-14
Vanguard Steel Limited	E4313	Bonarc E6013	Korea	N/A	-	5	W48-14
Vanguard Steel Limited	E4914	Bonarc E7014	Korea	N/A	-	5	W48-14
Vanguard Steel Limited	E4918	Bonarc E7018	Korea	N/A	-	5	W48-14
Vanguard Steel Limited	E4918-1	Bonarc E7018-1	Korea	N/A	-	5	W48-14
Vanguard Steel Limited	E4924	Bonarc E7024	Korea	N/A	-	5	W48-14
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	E4918-1-H4	Bohler E7018-1	China	N/A		Unlimited	W48-14
VOESTALPINE BOHLER WELDING (CHINA) CO., LTD.	E4918-H4	Bholer E7018 (DCEP only)	China	N/A		Unlimited	W48-14
VOESTALPINE BÖHLER WELDING MEXICO S.A.DE C.V.	E4310	BÖHLER FOXCEL	Mexico	N/A	-	5.0	W48-14
VOESTALPINE BÖHLER WELDING MEXICO S.A.DE C.V.	E4311	BÖHLER FOX 6011	Mexico	N/A	-	5.0	W48-14
VOESTALPINE BÖHLER WELDING MEXICO S.A.DE C.V.	E4311	UTP 6011	Mexico	N/A	-	5.0	W48-14



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VOESTALPINE BÖHLER WELDING MEXICO S.A.DE C.V.	E4313	UTP 6013	Mexico	N/A	-	4.0	W48-14
VOESTALPINE BÖHLER WELDING MEXICO S.A.DE C.V.	E4313	BÖHLER FOX 6013	Mexico	N/A	-	4.0	W48-14
VOESTALPINE BÖHLER WELDING MEXICO S.A.DE C.V.	E4914	BÖHLER FOX 7014	Mexico	N/A	-	4.0	W48-14
VOESTALPINE BÖHLER WELDING MEXICO S.A.DE C.V.	E4918-1-H8	UTP 7018-1 (Re-drying at 300°C for 2 hours)	Mexico	N/A	-	Unlimited	W48-14
VOESTALPINE BÖHLER WELDING MEXICO S.A.DE C.V.	E4918-H8	UTP 7018 (Re-drying at 300°C for 2 hours)	Mexico	N/A	-	Unlimited	W48-14
VOESTALPINE BÖHLER WELDING MEXICO S.A.DE C.V.	E4924	UTP 617	Mexico	N/A	-	5.0	W48-14
VOESTALPINE BÖHLER WELDING MEXICO S.A.DE C.V.	E4924	BÖHLER FOX 7024	Mexico	N/A	-	5.0	W48-14
Washington Alloy Co.	E4310	E6010	Taiwan	N/A	-	5.0	W48-14
Washington Alloy Co.	E4310	E6010	Korea	N/A	-	5	W48-14
Washington Alloy Co.	E4311	E6011	Taiwan	N/A	-	5.0	W48-14
Washington Alloy Co.	E4311	E6011	Korea	N/A	-	5	W48-14
Washington Alloy Co.	E4313	E6013	Korea	N/A	-	5	W48-14
Washington Alloy Co.	E4313	E6013	Taiwan	N/A	-	4.0	W48-14
Washington Alloy Co.	E4914	E7014	Korea	N/A	-	5	W48-14
Washington Alloy Co.	E4914	E7014	Taiwan	N/A	-	5.0	W48-14
Washington Alloy Co.	E4918	E7018	Korea	N/A	-	5	W48-14
Washington Alloy Co.	E4918-H8	E7018	Taiwan	N/A	-	5.0	W48-14
Washington Alloy Co.	E4918-H8	E7018AC	Taiwan	N/A	-	5.0	W48-14
Washington Alloy Co.	E4924	E7024	Korea	N/A	-	5	W48-14
AIR LIQUIDE CANADA, INC.	E308L-17	BLU-10800832, ELECTRODE, STAINLESS, BLUESHIELD, 620-308L	Indonesia	N/A		5.0	W48-14
AIR LIQUIDE CANADA, INC.	E308L-17	BLU-10800825, ELECTRODE, STAINLESS, BLUESHIELD, 620-308L	Indonesia	N/A		5.0	W48-14
AIR LIQUIDE CANADA, INC.	E308L-17	BLU-10800840, ELECTRODE, STAINLESS, BLUESHIELD, 620-308L	Indonesia	N/A		5.0	W48-14
AIR LIQUIDE CANADA, INC.	E308L-17	BLU-10800850, ELECTRODE, STAINLESS, BLUESHIELD, 620-308L	Indonesia	N/A		5.0	W48-14
AIR LIQUIDE CANADA, INC.	E316L-17	BLU-10801625, ELECTRODE, STAINLESS, BLUESHIELD, 622-316L	Indonesia	N/A		5.0	W48-14
Atlantic China Welding Consumables, Inc.	E308L-16	CHS002	China	N/A		5.0	W48-14
Atlantic China Welding Consumables, Inc.	E309L-16	CHS062	China	N/A		5.0	W48-14
Atlantic China Welding Consumables, Inc.	E316L-16	CHS022	China	N/A		5.0	W48-14



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ELGA AB	E2209-17	Cromarod Duplex	Sweden		2.4	4.0	W48-14
ELGA AB	E308L-16	Cromarod 308L-16	Sweden		2.4	4.0	W48-14
ELGA AB	E308L-17	Cromarod 308L	Sweden		2.4	4.0	W48-14
ELGA AB	E309L-16	Cromarod 309L-16	Sweden		2.4	4.0	W48-14
ELGA AB	E309L-17	Cromarod 309L	Sweden		2.4	4.0	W48-14
ELGA AB	E316L-16	Cromarod 316L-16	Sweden		2.4	4.0	W48-14
ELGA AB	E316L-17	Cromarod 316L	Sweden		2.4	4.0	W48-14
GEDIK KAYNAK SAN. VE TIC. A.S.	E308L-16	GeKa ELOX R 308 L	Turkey	N/A	2.0	4.0	W48-14
Praxair Canada Inc.	E2209-17	PRSP 2209	Sweden		2.4	4.0	W48-14
Praxair Canada Inc.	E308L-16	PRSP308L-16	Sweden		2.4	4.0	W48-14
Praxair Canada Inc.	E308L-17	PRSP308L-17	Sweden		2.4	4.0	W48-14
Praxair Canada Inc.	E309L-16	PRSP309L-16	Sweden		2.4	4.0	W48-14
Praxair Canada Inc.	E309L-17	PRSP309L-17	Sweden		2.4	4.0	W48-14
Praxair Canada Inc.	E316L-16	PRSP316L-16	Sweden		2.4	4.0	W48-14
Praxair Canada Inc.	E316L-17	PRSP316L-17	Sweden		2.4	4.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E2209-17	Sandvik 22.9.3.LR 2209-17	Sweden		2.4	4.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E308L-16	308/308L-16	Sweden		2.4	4.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E308L-17	SANDVIK 19.9.LR 308/308L-17	Sweden		2.4	4.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E309L-16	309/309L-16	Sweden		2.4	4.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E309L-17	SANDVIK 24.13.LR 309/309L-17	Sweden		2.4	4.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E316L-16	316/316L-16	Sweden		2.4	4.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E316L-17	SANDVIK 19.12.3.LR 316/316L-17	Sweden		2.4	4.0	W48-14
Techniweld Products Corporation	E308L-16	Powerweld E308L-16	China	N/A		5	W48-14
Techniweld Products Corporation	E309L-16	Powerweld E309L-16	China	N/A		5	W48-14
Techniweld Products Corporation	E316L-16	Powerweld E316L-16	China	N/A		5.0	W48-14
voestalpine Böhler Welding Austria GmbH	E2209-17	Avesta 2205	Austria	N/A	2.0	5.0	W48-14
voestalpine Böhler Welding Austria GmbH	E2209-17	Avesta 2205-PW AC/DC	Austria	N/A	2.0	5.0	W48-14
VOESTALPINE BÖHLER WELDING AUSTRIA GMBH	E309-17	AVESTA 309AC/DC	Austria	N/A	3.2	4.0	W48-14
voestalpine Böhler Welding Austria GmbH	E309L-17	Avesta 309L	Austria	N/A	2.0	5.0	W48-14
voestalpine Böhler Welding Austria GmbH	E309LMo-17	Avesta P5	Austria	N/A	2.0	5.0	W48-14
voestalpine Böhler Welding Austria GmbH	E347-17	Avesta 347/MVNb	Austria	N/A	2.0	5.0	W48-14





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AIR LIQUIDE CANADA, INC.	E309L-17	BLU-10800925, ELECTRODE, STAINLESS, BLUESHIELD, 624-309L	Indonesia	N/A		5.0	W48-14
AIR LIQUIDE CANADA, INC.	E309L-17	BLU-10800950, ELECTRODE, STAINLESS, BLUESHIELD, 624-309L	Indonesia	N/A		5.0	W48-14
AIR LIQUIDE CANADA, INC.	E309L-17	BLU-10800940, ELECTRODE, STAINLESS, BLUESHIELD, 624-309L	Indonesia	N/A		5.0	W48-14
AIR LIQUIDE CANADA, INC.	E309L-17	BLU-10800932, ELECTRODE, STAINLESS, BLUESHIELD, 624-309L	Indonesia	N/A		5.0	W48-14
AIR LIQUIDE CANADA, INC.	E316L-17	BLU-10801640, ELECTRODE, STAINLESS, BLUESHIELD, 622-316L	Indonesia	N/A		5.0	W48-14
AIR LIQUIDE CANADA, INC.	E316L-17	BLU-10801650, ELECTRODE, STAINLESS, BLUESHIELD, 622-316L	Indonesia	N/A		5.0	W48-14
AIR LIQUIDE CANADA, INC.	E316L-17	BLU-10801632, ELECTRODE, STAINLESS, BLUESHIELD, 622-316L	Indonesia	N/A		5.0	W48-14
Arcos Industries, LLC	E308-16	E308/E308L-16	USA	N/A	2.4	5.0	W48-14
Arcos Industries, LLC	E308-17	E308/E308L-17	USA	N/A	2.4	5.0	W48-14
Arcos Industries, LLC	E308L-16	E308/E308L-16	USA	N/A	2.4	5.0	W48-14
Arcos Industries, LLC	E308L-17	E308/E308L-17	USA	N/A	2.4	5.0	W48-14
Arcos Industries, LLC	E309-16	E309/E309L-16	USA	N/A	2.4	5.0	W48-14
Arcos Industries, LLC	E309-17	E309/E309L-17	USA	N/A	2.4	5.0	W48-14
Arcos Industries, LLC	E309L-16	E309/E309L-16	USA	N/A	2.4	5.0	W48-14
Arcos Industries, LLC	E309L-17	E309/E309L-17	USA	N/A	2.4	5.0	W48-14
Arcos Industries, LLC	E316-16	E316/E316L-16	USA	N/A	2.4	5.0	W48-14
Arcos Industries, LLC	E316-17	E316/E316L-17	USA	N/A	2.4	5.0	W48-14
Arcos Industries, LLC	E316L-16	E316/E316L-16	USA	N/A	2.4	5.0	W48-14
Arcos Industries, LLC	E316L-17	E316/E316L-17	USA	N/A	2.4	5.0	W48-14
Arctec Alloys Limited	E308L-16	E308L-16	Korea	N/A	-	5	W48-14
Arctec Alloys Limited	E309L-16	E309L-16	Korea	N/A	-	5	W48-14
Arctec Alloys Limited	E316L-16	E316L-16	Korea	N/A	-	5	W48-14
Eagle Alloys Ltd.	E308L-16	Eagle E308L-16	Korea	N/A	-	5	W48-14
Eagle Alloys Ltd.	E309L-16	Eagle E309L-16	Korea	N/A	-	5	W48-14
Eagle Alloys Ltd.	E316L-16	Eagle E316L-16	Korea	N/A	-	5	W48-14
ESAB AB	E2209-17	OK 67.50	Sweden	N/A	-	5	W48-14
ESAB AB	E308L-17	OK 61.30	Sweden	N/A	-	5	W48-14
ESAB AB	E309L-17	OK 67.60	Sweden	N/A	-	5	W48-14
ESAB AB	E309LMo-17	OK 67.70	Sweden	N/A	-	5	W48-14



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Company Name	Classification	Electrode Designation	Point of Manufacture	Flux Gas	Min	Max	Standard
ESAB AB	E316L-16	OK 63.20	Sweden	N/A	-	3.2	W48-14
ESAB AB	E316L-16	OK 63.34	Sweden	N/A	-	3.2	W48-14
ESAB AB	E316L-17	OK 63.30	Sweden	N/A	-	5	W48-14
ESAB Group, Inc./Alloy Rods	E308L-16	Arcaloy 308L-16	USA	N/A	-	4	W48-14
ESAB Group, Inc./Alloy Rods	E309L-16	Arcaloy 309L-16	USA	N/A	-	4	W48-14
ESAB Group, Inc./Alloy Rods	E316L-16	Arcaloy 316LF5-16	USA	N/A	-	4	W48-14
FSH Welding Canada	E308L-16	Selectarc 308L-16	France	N/A	-	4	W48-14
FSH Welding Canada	E308L-17	Selectarc 308L-17	France	N/A	-	4	W48-14
FSH Welding Canada	E309L-16	Selectarc 309L-16	France	N/A	-	4	W48-14
FSH Welding Canada	E309L-17	Selectarc 309L-17	France	N/A	-	4	W48-14
FSH Welding Canada	E316L-16	Selectarc 316L-16	France	N/A	-	4	W48-14
FSH Welding Canada	E316L-16	Selectarc 316L-16 VD	France	N/A	-	4	W48-14
FSH Welding Canada	E316L-17	Selectarc 316L-17	France	N/A	-	4	W48-14
Hobart Brothers Company, SEBU	E308L-16	McKay Sterling AP 308/308L-16	USA	N/A	-	5	W48-14
Hobart Brothers Company, SEBU	E309L-16	McKay Sterling AP 309/309L-16	USA	N/A	-	5	W48-14
Hobart Brothers Company, SEBU	E316L-16	McKay Sterling AP 316/316L-16	USA	N/A	-	5	W48-14
Hyundai Welding Co., Ltd.	E308L-16	S-308L.16N	Korea		-	5	W48-14
Hyundai Welding Co., Ltd.	E309L-16	S-309L.16	Korea		-	5	W48-14
Hyundai Welding Co., Ltd.	E316L-16	S-316L.16N	Korea		-	5	W48-14
Inweld Canada	E308L-16	Habco 308L-16	USA	N/A	2.4	4	W48-14
Inweld Canada	E309L-16	Habco 309L-16	USA	N/A	2.4	4	W48-14
Inweld Canada	E316L-16	Habco 316L-16	USA	N/A	2.4	4	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E308-16	Excalibur 308/308H-16	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E308-17	Excalibur 308/308L-17	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E308H-16	Excalibur 308/308H-16	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E308L-16	Excalibur 308L-16	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E308L-17	Excalibur 308/308L-17	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E309-16	Excalibur 309/309L-16	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E309-17	Excalibur 309/309L-17	USA	N/A	-	5	W48-14



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Company Name	Classification	Electrode Designation	Point of Manufacture	Flux Gas	Min	Max	Standard
LINCOLN ELECTRIC COMPANY OF CANADA LP	E309L-16	Excalibur 309/309L-16	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E309L-17	Excalibur 309/309L-17	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E316-15	Excalibur 316/316L-15	USA	N/A	-	3.2	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E316-16	Excalibur 316/316L-16	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E316-16	Excalibur 316/316L-16	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E316-17	Excalibur 316/316L-17	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E316L-15	Excalibur 316/316L-15	USA	N/A	-	3.2	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E316L-16	Excalibur 316/316L-16	USA	N/A	-	5	W48-14
LINCOLN ELECTRIC COMPANY OF CANADA LP	E316L-17	Excalibur 316/316L-17	USA	N/A	-	5	W48-14
LINCOLN SMITWELD B.V.	E308L-16	AROSTA 304L	Netherlands	N/A		5.0	W48-14
LINCOLN SMITWELD B.V.	E308L-17	LIMAROSTA 304L	Netherlands	N/A		5.0	W48-14
LINCOLN SMITWELD B.V.	E309L-16	AROSTA 309S	Netherlands	N/A		5.0	W48-14
LINCOLN SMITWELD B.V.	E309L-17	LIMAROSTA 309S	Netherlands	N/A		5.0	W48-14
LINCOLN SMITWELD B.V.	E316L-16	AROSTA 316L	Netherlands	N/A		5.0	W48-14
LINCOLN SMITWELD B.V.	E316L-17	LIMAROSTA 316L	Netherlands	N/A		5.0	W48-14
Messer - MG Welding Products	E308-16	Slik-Stik 6308	USA	N/A	2.4	4	W48-14
Messer - MG Welding Products	E308L-16	Slik-Stik 6308L	USA	N/A	2.4	4	W48-14
Messer - MG Welding Products	E309-16	Slik-Stik 6309	USA	N/A	2.4	4	W48-14
Messer - MG Welding Products	E309L-16	Slik-Stik 6309L	USA	N/A	2.4	4	W48-14
Messer - MG Welding Products	E316-16	Slik-Stik 6316	USA	N/A	2.4	4	W48-14
Messer - MG Welding Products	E316L-16	Slik-Stik 6316L	USA	N/A	2.4	4	W48-14
Praxair Canada Inc.	E308L-16	PRSP308L-16	Sweden	N/A		5.0	W48-14
Praxair Canada Inc.	E308L-16	PRSP308-16	Netherlands	N/A		5.0	W48-14
Praxair Canada Inc.	E308L-17	PRSP308L-17	Netherlands	N/A		5.0	W48-14
Praxair Canada Inc.	E308L-17	PRSP308L-17	Sweden	N/A		4.0	W48-14
Praxair Canada Inc.	E309L-16	PRSP309L-16	Netherlands	N/A		5.0	W48-14
Praxair Canada Inc.	E309L-16	PRSP309L-16	Sweden	N/A		5.0	W48-14
Praxair Canada Inc.	E309L-17	PRSP309L-17	Sweden	N/A		5.0	W48-14



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Company Name	Classification	Electrode Designation	Point of Manufacture	Flux Gas	Min	Max	Standard
Praxair Canada Inc.	E309L-17	PRSP309L-17	Netherlands	N/A		5.0	W48-14
Praxair Canada Inc.	E316L-16	PRSP316L-16	Sweden	N/A		5.0	W48-14
Praxair Canada Inc.	E316L-16	PRSP316L-16	Netherlands	N/A		5.0	W48-14
Praxair Canada Inc.	E316L-17	PRSP316L-17	Sweden	N/A		5.0	W48-14
Praxair Canada Inc.	E316L-17	PRSP316L-17	Netherlands	N/A		5.0	W48-14
PT. VOESTALPINE BOHLER WELDING ASIA PACIFIC	E308L-16	Avesta Welding E308L-16	Indonesia	N/A		4.0	W48-14
PT. VOESTALPINE BOHLER WELDING ASIA PACIFIC	E308L-17	Avesta Welding 308L/MVR	Indonesia	N/A		5.0	W48-14
PT. VOESTALPINE BOHLER WELDING ASIA PACIFIC	E309L-16	Avesta Welding E309L-16	Indonesia	N/A		4.0	W48-14
PT. VOESTALPINE BOHLER WELDING ASIA PACIFIC	E309L-17	Avesta Welding 309L	Indonesia	N/A		5.0	W48-14
PT. VOESTALPINE BOHLER WELDING ASIA PACIFIC	E309LMo-17	Avesta Welding P5	Indonesia	N/A		5.0	W48-14
PT. VOESTALPINE BOHLER WELDING ASIA PACIFIC	E316L-16	Avesta Welding E316L-16	Indonesia	N/A		4.0	W48-14
PT. VOESTALPINE BOHLER WELDING ASIA PACIFIC	E316L-17	Avesta Welding 316L/SKR	Indonesia	N/A		5.0	W48-14
SANDVIK 19.12.3LR 316/316L-17	E316L-17	SANDVIK 19.12.3LR 316/316L-17	Netherlands	N/A		5.0	W48-14
Sandvik Materials Technology	E308L-16	308/308L-16	Sweden	N/A		5.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E308L-16	308/308L-16	Netherlands	N/A		5.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E308L-17	SANDVIK 19.9.LR 308/308L-17	Netherlands	N/A		5.0	W48-14
Sandvik Materials Technology	E308L-17	308/308L-17	Sweden	N/A	-	4.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E309L-16	309/309L-16	Netherlands	N/A		5.0	W48-14
Sandvik Materials Technology	E309L-16	309/309L-16	Sweden	N/A		5.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E309L-17	SANDVIK24.13.LR 309/309L-17	Netherlands	N/A		5.0	W48-14
Sandvik Materials Technology	E309L-17	309/309L-17	Sweden	N/A	-	4.0	W48-14
Sandvik Materials Technology	E316L-16	316/316L-16	Sweden	N/A		5.0	W48-14
SANDVIK MATERIALS TECHNOLOGY	E316L-16	316/316L-16	Netherlands	N/A		5.0	W48-14
Sandvik Materials Technology	E316L-17	316/316L-17	Sweden	N/A	-	5.0	W48-14
Sodel Limitee	E308-16	308-16	Canada	N/A	-	Unlimited	W48-14
Sodel Limitee	E308L-16	308L-16	Canada	N/A	-	Unlimited	W48-14
Sodel Limitee	E309-16	309-16	Canada	N/A	-	Unlimited	W48-14
Sodel Limitee	E309L-16	309L-16	Canada	N/A	-	Unlimited	W48-14
Sodel Limitee	E316-16	316-16	Canada	N/A	-	Unlimited	W48-14



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Company Name	Classification	Electrode Designation	Point of Manufacture	Flux Gas	Min	Max	Standard
Sodel Limitee	E316L-16	316L-16	Canada	N/A	-	Unlimited	W48-14
Starweld 2961 - 2611 Quebec Inc.	E308L-16	Starweld 308L-16	France	N/A	-	4	W48-14
Starweld 2961 - 2611 Quebec Inc.	E309L-16	Starweld 309L-16	France	N/A	-	4	W48-14
Starweld 2961 - 2611 Quebec Inc.	E316L-16	Starweld 316L-16	France	N/A	-	4	W48-14
Starweld 2961 - 2611 Quebec Inc.	E316L-16	Starweld 316L-VD	France	N/A	-	4	W48-14
Vanguard Steel Limited	E308L-16	Bonarc E308L-16	Korea	N/A	-	5	W48-14
Vanguard Steel Limited	E309L-16	Bonarc E309L-16	Korea	N/A	-	5	W48-14
Vanguard Steel Limited	E310-16	Bonarc E310-16	Korea	N/A	-	4.0	W48-14
Vanguard Steel Limited	E316L-16	Bonarc E316L-16	Korea	N/A	-	5	W48-14
voestalpine Böhler Welding Austria GmbH	E308L-17	Thermanit JEW 308L-17	Austria	N/A	-	5	W48-14
voestalpine Böhler Welding Austria GmbH	E308L-17	BÖHLER FOX EAS 2-A	Austria	N/A	-	5	W48-14
voestalpine Böhler Welding Austria GmbH	E309L-17	BÖHLER FOX CN 23/12-A	Austria	N/A	-	5	W48-14
voestalpine Böhler Welding Austria GmbH	E309L-17	Thermanit 25/14 EW 309L-17	Austria	N/A	-	5	W48-14
voestalpine Böhler Welding Austria GmbH	E316L-17	BÖHLER FOX EAS 4 M-A	Austria	N/A	-	5	W48-14
voestalpine Böhler Welding Austria GmbH	E316L-17	Thermanit GEW 316L-17	Austria	N/A	-	5	W48-14
X-Ergon (Div. of NCH Canada Inc.)	E308L-16	E308L	USA	N/A	-	4	W48-14
X-Ergon (Div. of NCH Canada Inc.)	E309L-16	E309L	USA	N/A	-	4	W48-14
ZZ Avesta Welding	E309-17	ZZ 309 AC/DC	Sweden	N/A	-	4.0	W48-14