



Aluminum MIG Wire Product Catalog



www.lincolnelectric.com



About The Lincoln Electric Company

Lincoln Electric is the world's leading manufacturer of welding equipment and consumables. Our focus is on helping companies make their welding operations more effective, more efficient, more profitable. We are dedicated to two equally important goals: exceptional quality and exceptional service. Our field support team — with hundreds of field sales engineers and thousands of knowledgeable and responsive Lincoln distributors in countries all over the world — is the largest in the industry. Innovative thinking. A quality, service-first attitude. Fresh approaches to design, manufacturing, and packaging.

Worldwide strength.

Choose Lincoln.

About SuperGlaze® Aluminum MIG Wire

For superior welding performance, turn to SuperGlaze® aluminum MIG wire from Lincoln Electric.

SuperGlaze[®] prevents the problems usually associated with aluminum wire feeding such as birdnesting, tangling and burnback to provide a stable arc, great feedability and exceptional control — every time you weld! The keys are SuperGlaze[®]'s smooth surface finish and consistent chemical composition. What this means for you is quality wire that produces a quality weld.

Let Us Put Our Experience to Work for You

As a major supplier of welding wire, Lincoln Electric is the leader in MIG wire manufacturing technology. We carry that same technology and expertise to our aluminum MIG wire manufacturing. Our fully integrated aluminum MIG wire facility uses state-of-the-art equipment to produce a complete range of aluminum alloys including 1100, 4043 4047, 5183, 5356, 5554 and 5556.



SuperGlaze® www.lincolnelectric.com



What Makes Our SuperGlaze[®] Stand Out From the Rest?

Three unique features:

- 1. A proprietary process which gives SuperGlaze[®] a superior surface finish for optimum surface integrity.
- A manufacturing process that precisely controls the alloy chemical composition to produce consistent physical characteristics.
- 3. State-of-the-art testing equipment to evaluate the surface condition and feedability of the wire to ensure problem-free welding.

What all this means to you is outstanding welding characteristics, spool to spool, time after time. Lincoln's aluminum MIG wire coupled with our advanced MIG welding equipment makes aluminum as easy to weld as any other material... and makes Lincoln the one source for all your aluminum welding needs.

ContentsPageProduct Introduction2-3Wire Selection
Guide4-5Aluminum Wires6-11Typical Operating
Procedures12-13Packaging14LE District Sales Offices15



Important Information On Our Website

Consumable AWS Certificates: http://www.lincolnelectric.com/products/certificates/

Material Safety Data Sheets (MSDS): http://www.lincolnelectric.com/product/msds/

ANSI Z49.1, E205 Safety Booklet, and other Arc Welding Safety Materials: http://www.lincolnelectric.com/community/safety/

Safe Practices Article:

http://www.lincolnelectric.com/knowledge/articles/ content/lenstaybl.asp



Here's How Our Process Works

Controlling Alloys

The process of making aluminum MIG wires is a complex one, but one in which Lincoln has a clear and distinct advantage. First, we utilize automated titling furnaces to efficiently produce the proper aluminum alloys. With this equipment, we are able to hold tight tolerances in the composition. The alloy is carefully refined prior to casting to minimize hydrogen, alkaline metals, and inclusions.

Continuous Casting

Second, we use a continuous casting process specially configured to high alloy materials. This process keeps the surface free from imperfections and impurities.

Drawing the Wire

In the last manufacturing step of the process, we use advanced wire drawing technology to preserve both surface integrity and internal soundness.

Testing the Wire

To ensure superior quality of welding wire, continuous finished product inspection is done. Surface quality is evaluated along with feedability and welding performance. This guarantees every spool of wire is problem-free.

Welding Performance

Most aluminum MIG welding problems are caused by poor feeding. Since aluminum is relatively soft, it is important that the wire surface be as smooth as possible for best feedability. SuperGlaze[®] products provide easier feeding than competitive products because they have fewer surface imperfections as shown at the right. SuperGlaze[®] wire also feeds with less force than typical competitive products as the feedability test graph shows. What this means is better control of the weld puddle for the operator. It also means longer gun liner and contact tip life as burn-backs do not occur.



With our MIG welding process knowledge, we understand that welding performance is one of the most important criteria used when selecting a wire. Aluminum MIG wire tends to produce a welding arc that is less stable than other materials because aluminum conducts electricity better. Small changes in wire diameter, wire feed speed, and current produce dramatic changes in weld bead profile, arc length and can even cause equipment downtime due to wire burnback and fusing to tip. Our continuous evaluation of finished product ensures consistency in manufacturing. You can count on Lincoln aluminum MIG wire for superior arc stability, weld appearance, integrity and productivity.





ALUMINUM MIG WIRE SELECTION GUIDE Electrode AWS Recommended General Page Name Number Polarity Description No. SuperGlaze® 4043 ER4043 DC+ SuperGlaze® 4043 is a great choice for the welding of 6 heat-treatable base alloys and more specifically the 6XXX series alloys. It has a lower melting point and more fluidity than the 5XXX series filler alloys and is preferred by welders because of its favorable operating characteristics. ER4043 type wires are also less sensitive to weld cracking with the 6XXX series base alloys. SuperGlaze® 4043 is suitable for sustained elevated temperature service, i.e. above 150°F (65°C). A lower melting point and higher fluidity are two advantages 7 SuperGlaze® 4047 ER4047 DC+ SuperGlaze® 4047 has over its cousin SuperGlaze® 4043. SuperGlaze® 4047 produces very clean weld deposits and possesses excellent operator appeal. It can be used as a substitute for an ER4043 type wire to increase silicon in the weld metal, minimize hot cracking, and produce higher fillet weld shear strength. SuperGlaze® 4047 is suitable for sustained elevated temperature service, i.e. above 150°F (65°C). DC+ SuperGlaze® 5183 ER5183 SuperGlaze® 5183 is designed to weld high magnesium alloys to 8 meet higher tensile strength requirements. Use on 5083 and 5654 base materials when required tensile strengths are 40,000 psi (276 MPa) or greater. Typical applications are in the marine and cryogenic industries, and high strength structural aluminum fabrication. DC+ SuperGlaze® 5356 ER5356 SuperGlaze® 5356 is our most popular aluminum MIG wire. It is 9 a great general purpose filler alloy designed for the welding of 5XXX series alloys when 40,000 psi (276 MPa) tensile strength is not required. SuperGlaze® 5554 ER5554 DC+ SuperGlaze® 5554 is intended as a matching filler alloy when 10 welding 5454 base alloys. This alloy is a lower magnesium content alloy and is often used for automotive wheels, over-the-road trailers, and rail tank cars where the weld filler metal chemistry must closely match the base material chemistry to maximize corrosion performance. SuperGlaze® 5556 ER5556 DC+ SuperGlaze® 5556 weld deposits will provide matching tensile 11 strengths for the 5XXX alloys, such as 5083 and 5654. Contains increased amounts of magnesium and manganese.



Aluminum MIG Wire

(AWS ER4043)

SuperGlaze[®] 4043 is a great choice for the welding of heat-treatable base alloys and more specifically the 6XXX series alloys. It has a lower melting point and more fluidity than the 5XXX series filler alloys and is preferred by welders because of its favorable operating characteristics. ER4043 type wires are also less sensitive to weld cracking with the 6XXX series base alloys. SuperGlaze[®] 4043 is suitable for sustained elevated temperature service, i.e. above 150°F (65°C).

Advantage Lincoln

- All-position aluminum MIG wire.
- Superior wire surface finish for the best feedability and arc performance.
- Optimal manufacturing process to precisely control chemical composition.
- State-of-the-art testing equipment to ensure trouble-free performance of the weld wire.
- Manufactured under a quality system certified to ISO 9001 requirements.

Typical Applications

- · For welding 6XXX alloys, and most casting alloys.
- Good all purpose filler alloy.
- Automotive components such as frame and drive shafts.
- Bicycle frames.

Welding Positions

All Position

Shielding Gas

100% Argon Argon / Helium Mixtures Flow Rate: 30 - 50 CFH

Conformance

AWS A5.10: ER4043 CWB

		DIAMETERS/PAC	KAGING	
Diameter in. (mm)	1 lb (0.4 kg) Spool 20 lb (9.1 kg) Carton	16 lb (7.3 kg) Spool	20 lb (9.1 kg) Fiber Spool	275 lb (125 kg) Accu-Pak® Box
0.030 (0.8) 0.035 (0.9) 3/64 (1.2) 1/16 (1.6)	ED030307 ED030308 ED030310	ED028395 ED028397	ED029234 ED030281	ED030982 ⁽¹⁾ ED030983 ⁽²⁾

WIRE COMPOSITION										
	%AI	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be
Requirements AWS ER4043	Remainder	4.50 - 6.00	0.80 max.	0.30 max.	0.05 max.	0.05 max.	_	0.10 max.	0.20 max.	0.0008 max.
Test Results ⁽²⁾	Remainder	5.26	0.15	0.006	0.01	0.03	_	0.001	0.009	<0.0002

(1) Wire payoff kit K2858-1 sold separately. (2) Wire payoff kit K2859-1 sold separately. NOTE: Typical Operating Procedures found on pages 12-13.



Aluminum MIG Wire (AWS ER4047)

A lower melting point and higher fluidity are two advantages SuperGlaze® 4047 has over its cousin SuperGlaze® 4043. SuperGlaze® 4047 produces very clean weld deposits and possesses excellent operator appeal. It can be used as a substitute for an ER4043 type wire to increase silicon in the weld metal, minimize hot cracking, and produce higher fillet weld shear strength. SuperGlaze® 4047 is suitable for sustained elevated temperature service, i.e. above 150°F (65°C).

Advantage Lincoln

- All-position aluminum MIG wire.
- Similar to SuperGlaze[®] 4043, with even higher crack resistance.
- Superior wire surface finish for the best feedability and arc performance.
- Optimal manufacturing process to precisely control chemical composition.
- State-of-the-art testing equipment to ensure trouble-free performance of the weld wire.
- Manufactured under a quality system certified to ISO 9001 requirements.

Welding Positions

All Position

Shielding Gas

100% Argon Argon / Helium Mixtures Flow Rate: 30 - 50 CFH

Conformance

AWS A5.10: ER4047

Typical Applications

- Automotive components, heat exchangers.
- Body panels.

	DIAMETERS/PACKAGING							
Diameter	16 lb (7.3 kg)							
in. (mm)	Spool							
3/64 (1.2)	EDS28417							
1/16 (1.6)	EDS28418							

WIRE COMPOSITION										
	%AI	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be
Requirements AWS ER4047	Remainder	11.00 - 13.00	0.80 max.	0.30 max.	0.15 max.	0.10 max.	_	0.20 max.	_	0.0008 max.
Test Results ⁽²⁾		As Reported per AWS Requirements								

NOTE: Typical Operating Procedures can be found on pages 12-13.



SuperGlaze® www.lincolnelectric.com

Aluminum MIG Wire

(AWS ER5183)

SuperGlaze[®] 5183 is designed to weld high magnesium alloys to meet higher tensile strength requirements. Use on 5083 and 5654 base materials when required tensile strengths are 40,000 psi (276 MPa) or greater. Typical applications are in the marine and cryogenic industries, and high strength structural aluminum fabrication.

Advantage Lincoln

- All-position aluminum MIG wire.
- Superior wire surface finish for the best feedability and arc performance.
- Optimal manufacturing process to precisely control chemical composition.
- State-of-the-art testing equipment to ensure trouble-free performance of the weld wire.
- Manufactured under a quality system certified to ISO 9001 requirements.

Typical Applications

- For welding high magnesium 5XXX alloys.
- Marine fabrication and repair.
- Cryogenic tanks.
- Shipbuilding and other high strength structural aluminum applications.
- Bicycle frames.

Welding Positions

All Position

Shielding Gas

100% Argon Argon / Helium Mixtures Flow Rate: 30 - 50 CFH

Conformance

AWS A5.10:	ER5183
ABS:	IACS Grade WC
Lloyd's Register:	WC
DNV:	5183
G.L.:	S-AIMg 4.5Mn
Bureau Veritas:	WC
TUV	

DIAMETERS/PACKAGING								
Diameter in. (mm)	16 lb (7.3 kg) Spool	300 lb (136.1 kg) Accu-Pak® Box						
3/64 (1.2) 1/16 (1.6)	EDS28437 EDS28438	ED031825						

WIRE COMPOSITION										
	%AI	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be
Requirements AWS ER5183	Remainder	0.40 max.	0.40 max.	0.10 max.	0.50 - 1.00	4.30 - 5.20	0.05 - 0.25	0.25 max.	0.15 max.	0.0008 max.
Test Results ⁽²⁾	Remainder	0.03	0.13	0.001	0.65	4.99	0.10	0.02	0.07	0.0006

NOTE: Typical Operating Procedures can be found on pages 12-13.



Aluminum MIG Wire

(AWS ER5356)

SuperGlaze[®] 5356 is our most popular aluminum MIG wire. It is a great general purpose filler alloy designed for the welding of 5XXX series alloys when 276 MPa (40,000 ksi) tensile strength is not required.

Advantage Lincoln

- All-position aluminum MIG wire.
- Superior wire surface finish for the best feedability and arc performance.
- Optimal manufacturing process to precisely control chemical composition.
- State-of-the-art testing equipment to ensure trouble-free performance of the weld wire.
- Manufactured under a quality system certified to ISO 9001 requirements.

Typical Applications

- For welding most 5XXX alloys when 276 MPa (40,000 ksi) tensile strength is not required.
- Automotive bumpers and supports.
- Structural frames in the shipbuilding industry.
- Bicycle frames.
- Formed truck panels.

Welding Positions

All Position

Shielding Gas

100% Argon Argon / Helium Mixtures Flow Rate: 30 - 50 CFH

Conformance

AWS A5.10:	ER5356
ABS:	IACS WB
Lloyd's Register:	WB
DNV:	5356
G.L.:	S-AIMg 5
Bureau Veritas:	WB
CWB	
TUV	

		DIAMETERS/PACK	AGING	
Diameter in. (mm)	1 lb (0.4 kg) Spool 20 lb (9.1 kg) Carton	16 lb (7.3 kg) Spool	20 lb (9.1 kg) Fiber Spool	300 lb (136.1 kg) Accu-Pak® Box
0.035 (0.9) 3/64 (1.2) 1/16 (1.6)	ED030312 ED030314	ED028385 ED028387	ED030282 ED030283	ED031826 ⁽¹⁾ ED030985 ⁽¹⁾

	_	00			
/	RE	(8(8)	MP)NI
		00		00	

	%AI	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be
Requirements AWS ER5356	Remainder	0.25 max.	0.40 max.	0.10 max.	0.05 - 0.20	4.50 - 5.50	0.05 - 0.20	0.10 max.	0.06 - 0.20	0.0008 max.
Test Results ⁽²⁾	Remainder	0.05	0.09	0.03	0.12	4.56	0.08	0.003	0.15	0.0007

⁽¹⁾ Wire payoff kit K2860-1 sold separately. NOTE: Typical Operating Procedures can be found on pages 12-13.



Aluminum MIG Wire

(AWS ER5554)

SuperGlaze[®] 5554 is intended as a matching filler alloy when welding 5454 base alloys. This alloy is a lower magnesium content alloy and is often used for automotive wheels, over-the-road trailers, and rail tank cars where the weld filler metal chemistry must closely match the base material chemistry to maximize corrosion performance.

Advantage Lincoln

- All-position aluminum MIG wire.
- Superior wire surface finish for the best feedability and arc performance.
- Optimal manufacturing process to precisely control chemical composition.
- State-of-the-art testing equipment to ensure trouble-free performance of the weld wire.
- Manufactured under a quality system certified to ISO 9001 requirements.

Typical Applications

- Matching filler alloy for 5454 base alloys.
- Automotive wheels.
- Transportation industry applications such over-the-road trailers and rail tank cars.
- Chemical storage tanks.

Welding Positions

All Position

Shielding Gas

100% Argon Argon / Helium Mixtures Flow Rate: 30 - 50 CFH

Conformance

AWS A5.10: ER5554 CWB

	DIAMETERS/PACKAGING
Diameter	16 lb (7.3 kg)
in. (mm)	Spool
3/64 (1.2)	ED029573
1/16 (1.6)	ED029574

WIRE COMPOSITION										
	%AI	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be
Requirements AWS ER5554	Remainder	0.25 max.	0.40 max.	0.10 max.	0.50 - 1.00	2.40 - 3.00	0.05 - 0.20	0.25 max.	0.06 - 0.20	0.008 max.
Test Results ⁽²⁾	Remainder	0.06	0.13	0.03	0.51	2.41	0.06	0.005	0.09	0.0006

NOTE: Typical Operating Procedures can be found on pages 12-13.



Aluminum MIG Wire

(AWS ER5556)

SuperGlaze® 5556 weld deposits will provide matching tensile strengths for the 5XXX alloys, such as 5083 and 5654. Contains increased amounts of magnesium and manganese.

Advantage Lincoln

- All-position aluminum MIG wire.
- Superior wire surface finish for the best feedability and arc performance.
- Optimal manufacturing process to precisely control chemical composition.
- State-of-the-art testing equipment to ensure trouble-free performance of the weld wire.
- Manufactured under a quality system certified to ISO 9001 requirements.

Typical Applications

- For welding the higher strength 5XXX alloys, such as 5083 and 5654.
- Pressure vessels.
- Storage tanks.

Welding Positions

All Position

Shielding Gas

100% Argon Argon / Helium Mixtures Flow Rate: 30 - 50 CFH

Conformance

AWS A5.10: ER5556

DIAMETERS/PACKAGING						
Diameter	16 lb (7.3 kg)					
in. (mm)	Spool					
3/64 (1.2)	EDS29581					
1/16 (1.6)	EDS29582					

WIRE COMPOSITION										
	%AI	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Be
Requirements AWS ER5556	Remainder	0.25 max.	0.40 max.	0.10 max.	0.50 - 1.00	4.70 - 5.50	0.05 - 0.20	0.25 max.	0.05 - 0.20	0.0008 max.
Test Results ⁽²⁾	Remainder	0.03	0.13	0.001	0.65	5.00	0.10	0.02	0.07	0.0006

NOTE: Typical Operating Procedures can be found on pages 12-13.



TYPICAL OPERATING PROCEDURES FOR GROOVE WELDING

Metal Thickness (in.)	Weld Position ⁽¹⁾	Edge Preparation ⁽²⁾	Joint Spacing (in.)	Weld Passes	Electrode Diameter (in.)	DC+ Current ⁽³⁾ (Amps)	Arc Votlage ⁽³⁾ (Volts)	Argon Gas Flow (cfh)	Arc Travel Speed (ipm/pass)	Approx. Electrode Consump. (lb/100 ft.)
1/16	F F	A G	None 3/32	1 1	0.030 0.030	70 - 110 70 - 110	15 - 20 15 - 20	25 25	25 - 45 25 - 45	1.5 2
1/8	F, V, H F, V, H, O	A G	0 - 3/32 3/16	1 1	0.030 - 3/64 0.030 - 3/64	120 - 150 110 - 135	20 - 24 19 - 23	30 30	24 - 30 18 - 28	2 3
3/16	F, V, H F, V, H O F, V H, O	B F H H	0 - 1/16 0 - 1/16 0 - 1/16 3/32 - 3/16 3/16	1F, 1R 1 2F 2 3	0.030 - 3/64 3/64 3/64 - 1/16 3/64	130 - 175 140 - 180 140 - 175 140 - 185 130 - 175	22 - 26 23- 2 7 23 - 27 23 - 27 23 - 27 23 - 27	35 35 60 35 60	24 - 30 24 - 30 24 - 30 24 - 30 25 - 35	4 5 5 8 10
1/4	F F V, H O F, V O, H	C-90° F F H H	0 - 3/32 0 - 3/32 0 - 3/32 0 - 3/32 1/8 - 1/4 1/4	1F, 1R 2 3F, 1R 3F, 1R 2 - 3 4 - 6	3/64 - 1/16 3/64 - 1/16 3/64 3/64 - 1/16 3/64 - 1/16 3/64 - 1/16	175 - 200 185 - 225 165 - 190 180 - 200 175 - 225 170 - 200	24 - 28 24 - 29 25 - 29 25 - 29 25 - 29 25 - 29 25 - 29	40 40 45 60 40 60	24 - 30 24 - 30 25 - 35 25 - 35 24 - 30 25 - 40	6 8 10 10 12 12
3/8	F F V, H O F, V O, H	C-90° F F H H	0 - 3/32 0 - 3/32 0 - 3/32 0 - 3/32 1/4 - 3/8 3/8	1F, 1R 2F, 1R 3F, 1R 5F, 1R 4 8 - 10	1/16 1/16 1/16 1/16 1/16 1/16	225 - 290 210 - 275 190 - 220 200 - 250 210 - 290 190 - 260	26 - 29 26 - 29 26 - 29 26 - 29 26 - 29 26 - 29 26 - 29	50 50 55 80 50 80	20 - 30 24 - 35 24 - 30 25 - 40 24 - 30 25 - 40	16 18 20 20 35 50
3/4	F F V, H, O F V, H, O	C-60° F E E	0 - 3/32 0 - 1/8 0 - 1/16 0 - 1/16 0 - 1/16	3F, 1R 4F, 1R 8F, 1R 3F, 3R 6F, 6R	3/32 3/32 1/16 1/16 1/16	340 - 400 325 - 375 240 - 300 270 - 330 230 - 280	26 - 31 26 - 31 26 - 30 26 - 30 26 - 30	60 60 80 60 80	14 - 20 16 - 20 24 - 30 16 - 24 16 - 24	50 70 75 70 75

TYPICAL OPERATING PROCEDURES FOR GROOVE WELDING

Metal Thickness ⁽⁴⁾ (in.)	Weld Position ⁽¹⁾	Weld Passes ⁽⁵⁾	Electrode Diameter (in.)	DC+ Current ⁽³⁾ (Amps)	Arc Votlage ⁽³⁾ (Volts)	Argon Gas Flow (cfh)	Arc Travel Speed (ipm/pass)	Approx. Electrode Consump. ⁽⁵⁾ (lb/100 ft.)
1/8	F	1	0.030 - 3/64	125 - 150	20 - 24	30	24 - 30	2
	V, H	1	0.030	110 - 130	19 - 23	30	24 - 30	2
	0	1	0.030 - 3/64	115 - 140	20 - 24	40	24 - 30	2
3/16	F	1	3/64	180 - 210	22 - 26	30	24 - 30	4.5
	V, H	1	0.030 - 3/64	130 - 175	21 - 25	35	24 - 30	4.5
	0	1	0.030 - 3/64	130 - 190	22 - 26	45	24 - 30	4.5
1/4	F	1	3/64 - 1/16	170 - 240	24 - 28	40	24 - 30	7
	V, H	1	3/64	170 - 210	23 - 27	45	24 - 30	7
	0	1	3/64 - 1/16	190 - 220	24 - 28	60	24 - 30	7
3/8	F	1	1/16	240 - 300	26 - 29	50	18 - 25	17
	V, H	3	1/16	190 - 240	24 - 27	60	24 - 30	17
	0	3	1/16	200 - 240	25 - 28	85	24 - 30	17
3/4	F	4	3/32	360 - 380	26 - 30	60	18 - 25	66
	V, H	4 - 6	1/16	260 - 310	25 - 20	70	24 - 30	66
	0	10	1/16	275 - 310	25 - 29	85	24 - 30	66

⁽¹⁾ F - Flat, V = Vertical, H = Horizontal, O = Overhead.

See joint designs on page 13.

For 5XXX series wires, use a welding current on the high side of the range and an arc voltage in the lower portion of the range. For 1XXX, and 4XXX series wires, use the lower currents and higher arc voltages.

⁽⁴⁾ Metal thickness of 3/4" or greater for fillet welds sometimes employs a double vee bevel of 50° or greater included vee with 3/32" to 1/8" land thickness on the abutting member.

[®] Number of weld passes and electrode consumption given for weld on one side only.



TYPICAL JOINT DESIGNS FOR ALUMINUM MIG WELDING



THE WELDING EXPERTS

PACKAGING AND ACCESSORIES

Packaging

No matter what your need, Lincoln Electric has a packaging option that offers a great fit. Small packaging includes spools, in quantities of 1 lb, 16 lb or 20 lb (0.4 kg, 7.3 kg or 9.1 kg).

PACKAGING PALLET WEIGHTS							
Packaging Type	Package / Ca Ib	arton Weight (kg)	Pallet Ib	Weight (kg)			
1 lb Spool	20	(9.1)	2000	(907)			
20 lb Spool	20	(9.1)	1620	(735)			
275 - 300 AP	275 300	(125) (135)	1100 1200	(500) (545)			



SPOOL / REEL SPECIFICATIONS						
Pack Type	aging	1 lb Spool in. (mm)	16 lb Spool in. (mm)	20 lb Spool in. (mm)		
A	Inside Width	1 - 1/2 (38)	3 - 5/8 (92)	3 - 5/8 (92)		
В	Outside Width	1 - 3/4 (44)	4 (102)	4 (102)		
С	I.D. Arbor Hole	5/18 (7)	2 (51)	2 (51)		
D	0.D. Core	1 - 1/2 (38)	6 - 3/4 (171)	5 - 29/32 (150)		
E	0.D. Flange	4 (102)	11 - 7/8 (302)	11 - 7/8 (302)		
F	I.D. Drive Hole	3/16 (5)	15/32 (12)	15/32 (12)		
G	Drive Hole Offset	1 (25)	1 - 3/4 (44)	1 - 3/4 (44)		



CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarant or

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements. Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.



DISTRICT SALES OFFICES

MINNEAPOLIS 55369-5455

MINNESOTA

(763) 391-8384

MISSISSIPPI

MISSOURI

66214-1629

(913) 894-0888

(563) 386-6522 SPRINGFIELD 65804-2309

(417) 773-2657

(360) 693-4712

OMAHA 68046-7031

MONTANA

NEBRASKA

(402) 203-6401

JACKSON 39212-9635 (601) 372-7679

KANSAS CITY (KS)

ST. LOUIS 63038-0069

Contact VANCOUVER, WA

U.S.A.

ALABAMA

BIRMINGHAM 35124-1156 (205) 988-8232 DOTHAN 36303-5533 (334) 782-1074 MOBILE 3652-5323 (251) 377-8574

ALASKA Contact VANCOUVER, WA (360) 693-0155

ARIZONA PHOENIX 85260-1745 (480) 348-2004

ARKANSAS LITTLE ROCK 72032-4371 (501) 764-0480

CALIFORNIA LOS ANGELES 90670-4062 (562) 906-7700 N. CALIFORNIA 95762-5706 (916) 939-8788

COLORADO DENVER 80112-5115 (303) 792-2418

CONNECTICUT NORTH HAVEN 06238-1090 (860) 742-8887

DELAWARE Contact PHILADELPHIA, PA (610) 543-9462

FLORIDA

JACKSONVILLE 32216-4634 (904) 642-3177 MIAMI 33178-1175 (305) 888-3203 ORLANDO 32714-1954 (407) 788-8557 TAMPA (888) 935-3860

GEORGIA ATLANTA 30122-3811 (888) 935-3860 SAVANNAH 31324-3866

(912) 656-1978

Contact LOS ANGELES, CA (562) 906-7700

IDAHO Contact SALT LAKE CITY, UT (801) 233-9353 ILLINOIS CHICAGO 60440-3538 (630) 783-3600 BLOOMINGTON 61704-1510 (309) 838-3717

INDIANA FT. WAYNE 46825-1551 (260) 484-4422 INDIANAPOLIS 46250-5536 (317) 845-8445 EVANSVILLE 47711-2340 (216) 287-0227 SOUTH BEND 46530-7384 (574) 271-3473

IOWA CEDAR RAPIDS 52402-3160 (319) 362-6804 DAVENPORT 52806-1344 (563) 386-6522 DES MOINES (563) 386-6522

KANSAS KANSAS CITY 66214-1629 (913) 894-0888 WICHITA 67235-9261 (316) 789-5954 OMAHA 68046-7031 (402) 203-6401

KENTUCKY LOUISVILLE 47112-7025 (502) 727-7335

LOUISIANA BATON ROUGE 70808-3150 (225) 922-5151 HOUMA 70364-2516 (225-773-5614 LAFAYETTE 70507-3126 (337) 886-1090 SHREVEPORT 75692-9313 (318) 518-4099

MAINE Contact BOSTON MA (508) 788-9353

MARYLAND BALTIMORE 21044-5675 (410) 443-1091 MASSACHUSETTS BOSTON 01581-2658 (508) 788-9353

MICHIGAN DETROIT 48393-4700 (248) 348-2575 GRAND RAPIDS 49512-3924 (616) 942-8780 NEW HAMPSHIRE Contact BOSTON MA (508) 788-9353

NEW MEXICO ALBUQUERQUE 87120-5360 (505) 890-6347

NEW YORK BUFFAL0 14228-1035 (716) 574-2292 SYRACUSE 13057-9313 (315) 432-0281

NORTH CAROLINA CHARLOTTE 28273-3552 (704) 588-3251 RALEIGH 27540-9649 (704) 301-0565

NORTH DAKOTA Contact MINNEAPOLIS, MN (763) 391-8384

OHIO BEDFORD (216) 407-9538 AKRON (216) 383-2662 CINCINNATI 45242-3706 (513) 554-4440 CLEVELAND 44117-2525 (216) 383-2662 COLUMBUS 43221-4073 (614) 488-7913 TOLEDO 43551-1914 (419) 874-6331 OKLAHOMA OKLAHOMA CITY 73139-2432 (405) 616-1751 TULSA 74146-1622 (918) 622-9353

OREGON Contact VANCOUVER, WA (360) 693-4712

PENNSYLVANIA PHILADELPHIA 19008-4310 (610) 543-9462 PITTSBURGH 15001-4800 (724) 857-2750 ERIE 16506-1566 (216) 469-1059 HARRISBURG 17104-1422 (717) 213-9163

RHODE ISLAND Contact BOSTON MA (508) 788-9353

SOUTH CAROLINA FLORENCE 29063-8468 (803) 331-4340

SOUTH DAKOTA SIOUX FALLS 571110-4004 (262) 227-2807

TENNESSEE MEMPHIS 38119-5811 (901) 683-6260 NASHVILLE 37228-1708 (615) 291-9926 TRI-CITIES 37659-5693 (423) 612-1204

TEXAS DALLAS 76051-7602 (817) 329-9353 LUBBOCK 76902-1151 (325) 260-3667 ENNIS 75119-4940 (903) 343-7918 HOUSTON 77060-3143 (281) 847-9444 MONTGOMERY 77316-2429 (713) 724-2350

UTAH MIDVALE 84047-3759 (801) 233-9353

VERMONT Contact BOSTON MA (508) 788-9353 VIRGINIA VIRGINIA BEACH 23455-7216 (757) 870-5508 DANVILLE 24541-6785 (434) 441-0227 HAMPTON ROADS 23455-7216 (757) 870-5508

WASHINGTON VANCOUVER 98661-8023 (360) 693-4712 SPOKANE 99005-9637 (509) 953-7399

WASHINGTON DC Contact PHILADELPHIA (610)543-9462

WEST VIRGINIA BARBOURSVILLE 25504-9665 (304) 736-5600

WISCONSIN GREEN BAY 54302-1829 (920) 435-1012 MILWAUKEE 53051-1103 (262) 650-9364

CANADA

ALBERTA CALGARY (403) 253-9600/ (877) 600-WELD WINNIPEG (204) 488-6398

BRITISH COLUMBIA VANCOUVER (604) 945-7524

MARITIMES NEWBRUNSWICK (506) 849-4474

MANITOBA WINNIPEG (204) 488-6398

ONTARIO MISSISSAUGA (905) 565-5600 TORONTO (416) 421-2600/ (800) 268-6114

OUEBEC MONTREAL (450) 654-3121

International Headquarters

LATIN AMERICA Miami, Florida U.S.A. Phone: (305) 888-3203 **EUROPE** Barcelona, Spain Phone: 34 91 816 4266 RUSSIA, AFRICA & MIDDLE EAST Cleveland, Ohio U.S.A. Phone: (216) 481-8100 ASIA PACIFIC Shanghai Phone: 86 21 6602 6620 Australia Phone: 61 2 9772 7222

The Harris[®] Products Group

4501 Quality Place, Mason, Ohio 45040 U.S.A. • Web Site: www.harrisproductsgroup.com Consumables: ph: 1-800-733-8912, fax: (513) 754-8778 • Equipment: ph: 1-800-241-0804, fax: (770) 535-0544





THE LINCOLN ELECTRIC COMPANY 22801 St. Clair Avenue • Cleveland, OH U.S.A. • 44117-1199 Phone: +1.216.481.8100 • www.lincolnelectric.com