



**SUPERGLAZE<sup>®</sup> HD**  
ALUMINUM WIRE FOR HEAVY DUTY APPLICATIONS





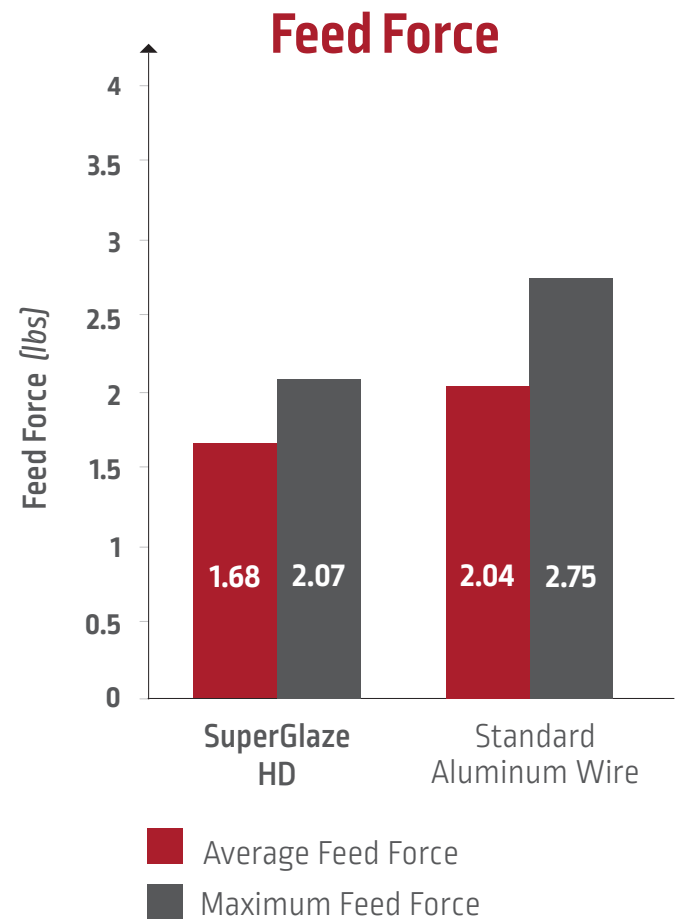


# Aluminum Wire

## For Heavy Duty Applications

When it comes to high production aluminum welding, not all aluminum welding wires are created equal. In demanding welding environments, standard aluminum wire can result in inconsistent wire feeding and poor arc characteristics resulting in costly downtime. SuperGlaze® HD was developed to address those common problems and make the aluminum welding process easier.

Even in the most demanding aluminum applications, SuperGlaze HD ensures smooth and trouble-free wire feeding without wire shavings. When it comes to the most demanding aluminum applications, let SuperGlaze HD do the heavy lifting.









Standard Aluminum Wire



SuperGlaze HD



*Wire shavings during the feeding process with standard aluminum wire versus SuperGlaze HD*

## High Quality High Performance

### Smooth operation

A smooth and consistent arc is critical to a good aluminum weld. SuperGlaze HD delivers a steady wire feed from the payoff to the arc, making the welding process easier for any welder.

### No shavings, no problems

Nothing jams up the feeding process like wire shavings, especially in aluminum welding. It starts with binding, gun chatter and burnbacks, and it only gets worse if it remains unchecked. SuperGlaze HD virtually eliminates shavings and results in a uniform and uninterrupted weld.

### Quality from start to finish

From the first stages of the manufacturing process to the last, we ensure surface cleanliness and quality in SuperGlaze HD. Lincoln Electric is the only aluminum wire manufacturer that controls everything from the ingot to the melting and alloying through to the finished product. This translates to consistency in the product from day to day, week to week, month to month, and ensures the highest possible wire quality.



## DIAMETERS/PACKAGING

Product Name	0.035 in (0.9 mm)		3/64 in (1.2 mm)		1/16 in (1.6 mm)	
	16 lb (7.3 kg) Steel Spool	16 lb (7.3 kg) Plastic Spool	16 lb (7.3 kg) Steel Spool	20 lb (9.1 kg) Plastic Spool	16 lb (7.3 kg) Steel Spool	20 lb (9.1 kg) Plastic Spool
SuperGlaze HD 5183	ED035690	ED035691	ED035692	ED035693	ED035694	ED035695
SuperGlaze HD 5356	ED035672	ED035673	ED035674	ED035675	ED035676	ED035677
SuperGlaze HD 5356 TM™	-	-	ED035698	ED035699	ED035700	ED035701
SuperGlaze HD 5556	-	-	ED035680	ED035681	-	-

## DIAMETERS/PACKAGING

Product Name	0.035 in (0.9 mm) 300 lb (136 kg) Gem-Pak™ Box	3/64 in (1.2 mm) 300 lb (136 kg) Gem-Pak™ Box	1/16 in (1.6 mm) 300 lb (136 kg) Gem-Pak™ Box
SuperGlaze HD 5183	ED035341	ED035342	ED035343
SuperGlaze HD 5356	ED036335	ED036336	ED036337
SuperGlaze HD 5356 TM™	ED036338	ED036339	ED036340
SuperGlaze HD 5556	ED036380	ED036381	ED036382



Gem-Pak Box



16 lb steel spool



20 lb plastic spool



**WIRE COMPOSITION<sup>(1)</sup> – As Required per AWS A5.10/A5.10M: 2012**

**SuperGlaze HD 5183**

	<b>%Al</b>	<b>%Si</b>	<b>%Fe</b>	<b>%Cu</b>	<b>%Mn</b>
Requirements - <b>AWS ER5183</b>	Remainder	0.40 max	0.40 max	0.10 max	0.50-1.00
Typical Performance <sup>(2)</sup>	Remainder	0.03	0.13	0.001	0.65
	<b>%Mg</b>	<b>%Cr</b>	<b>%Zn</b>	<b>%Ti</b>	<b>%Be</b>
Requirements - <b>AWS ER5183</b>	4.30-5.20	0.05-0.25	0.25 max	0.15 max	0.0003 max
Typical Performance <sup>(2)</sup>	5.0	0.10	0.02	0.07	0.0002

**SuperGlaze HD 5356**

	<b>%Al</b>	<b>%Si</b>	<b>%Fe</b>	<b>%Cu</b>	<b>%Mn</b>
Requirements - <b>AWS ER5356</b>	Remainder	0.25 max	0.40 max	0.10 max	0.05-0.20
Typical Performance <sup>(2)</sup>	Remainder	0.05	0.09	0.03	0.12
	<b>%Mg</b>	<b>%Cr</b>	<b>%Zn</b>	<b>%Ti</b>	<b>%Be</b>
Requirements - <b>AWS ER5356</b>	4.50-5.50	0.05-0.20	0.10 max	0.06-0.20	0.0003 max
Typical Performance <sup>(2)</sup>	4.9	0.08	<0.01	0.15	0.0002

**SuperGlaze HD 5356 TM**

	<b>%Al</b>	<b>%Si</b>	<b>%Fe</b>	<b>%Cu</b>	<b>%Mn</b>
Requirements - <b>AWS ER5356</b>	Remainder	0.25 max	0.40 max	0.10 max	0.05-0.20
	<b>%Mg</b>	<b>%Cr</b>	<b>%Zn</b>	<b>%Ti</b>	<b>%Be</b>
Requirements - <b>AWS ER5356</b>	4.50-5.50	0.05-0.20	0.10 max	0.06-0.20	0.0003 max

**SuperGlaze HD 5556**

	<b>%Al</b>	<b>%Si</b>	<b>%Fe</b>	<b>%Cu</b>	<b>%Mn</b>
Requirements - <b>AWS ER5556</b>	Remainder	0.25 max	0.40 max	0.10 max	0.50 - 1.00
Typical Performance <sup>(2)</sup>	Remainder	0.03	0.13	0.001	0.65
	<b>%Mg</b>	<b>%Cr</b>	<b>%Zn</b>	<b>%Ti</b>	<b>%Be</b>
Requirements - <b>AWS ER5556</b>	4.70 - 5.50	0.05 - 0.20	0.25 max	0.05 - 0.20	0.0003 max
Typical Performance <sup>(2)</sup>	5.00	0.10	0.02	0.07	0.0002

<sup>(1)</sup>Typical wire chemistry. <sup>(2)</sup>See test results disclaimer on back page.



#### TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any welding consumable and procedure before use in the intended application.

#### 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 or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to [www.lincolnelectric.com](http://www.lincolnelectric.com) for any updated information.