SUPERGLAZE® 4043

Aluminum ▪ AWS ER4043

KEY FEATURES

- Designed for welding heat-treatable base alloys and more specifically 6XXX series alloys
- Lower melting point and more fluidity than 5XXX series filler alloys
- Low sensitivity to weld cracking with 6XXX series base alloys
- Suitable for sustained elevated temperature service, i.e. above 65°C (150°F)
- Not recommended for materials to be anodized

WELDING POSITIONS

All, except vertical down

NOTE

- Typical Operating Procedures on pg. I-15 - I-16

CONFORMANCES

SFA/AWS A5.10/A5.10M:	ER4043
ASME SFA-A5.10:	ER4043
CWB/CSA W48-06:	ER4043

TYPICAL APPLICATIONS

- For welding 6XXX alloys, and most casting alloys
- Automotive components such as frame and drive shafts
- Bicycle frames

SHIELDING GAS

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

DIAMETERS / PACKAGING

Diameter in (mm)	1 lb (0.5 kg) Plastic Spool 20 lb (9.1 kg) Master Carton	16 lb (7.3 kg) Plastic Spool	20 lb (9.1 kg) Plastic Spool	300 lb (136 kg) Gem-Pak™ Box
0.030 (0.8)	ED030307			
0.035 (0.9)	ED030308	ED028395		ED036609
3/64 (1.2)	ED030310		ED029234	ED036610
1/16 (1.6)			ED030281	ED036611

WIRE COMPOSITION[1] – *As Required per SFA/AWS A5.10/A5.10M*

	%Al	%Si	%Fe	%Cu	%Mn
Requirements - AWS ER4043	Remainder	4.50-6.00	0.80 max	0.30 max	0.05 max
Typical Results[2]	Remainder	5.26	0.15	0.01	0.01
	%Mg	**%Cr**	**%Zn**	**%Ti**	**%Be**
Requirements - AWS ER4043	0.05 max	—	0.10 max	0.20 max	0.0003 max
Typical Results[2]	0.03	—	0.001	0.01	<0.0002

[1]Typical all weld metal. [2]See test results disclaimer

Material Safety Data Sheets (MSDS) and Certificates of Conformance are available on our website at www.lincolnelectric.com

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 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.

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.

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