

# 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

<b>SFA/AWS A5.10/A5.10M:</b>	ER4043
<b>ASME SFA-A5.10:</b>	ER4043
<b>CWB/CSA W48-06:</b>	ER4043
<b>AMS4190K: (Chemistry Only)</b>	5.2Si (4043)

## 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	60 lb (27.2 kg) Mini-Drum	300 lb (136 kg) Gem-Pak™ Box
0.030 (0.8)	ED030307	ED028395	ED029234 ED030281	ED036718 ED036592 ED036719	ED036609 ED036610 ED036611
0.035 (0.9)	ED030308				
3/64 (1.2)	ED030310				
1/16 (1.6)					

## WIRE COMPOSITION<sup>(1)</sup> – As Required per SFA/AWS A5.10/A5.10M

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

<sup>(1)</sup>Typical all weld metal. <sup>(2)</sup>See test results disclaimer

*Material Safety Data Sheets (MSDS) and Certificates of Conformance are available on our website at [www.lincolnelectric.com](http://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

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