

# SuperGlaze® 5183

Aluminum • AWS ER5183

## Key Features

- ▶ Designed to meet the tensile strength requirements of high magnesium alloys
- ▶ For 5083 and 5654 base materials

## Typical Applications

- ▶ Marine fabrication and repair
- ▶ Cryogenic tanks
- ▶ Shipbuilding and other high strength structural aluminum applications
- ▶ Bicycle frames

## Conformances

AWS A5.10/A5.10M: 1999	ER5183
ASME SFA-A5.10:	ER5183
ABS:	IACS W26 Grade WC
Lloyd's Register:	WC/-1 S
DNV Grade:	5183
GL:	RAIMg4,5
BV Grade:	WC
CWB/CSA W48-06:	ER5183

## Welding Positions

All

## Shielding Gas

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

## DIAMETERS / PACKAGING

Diameter in (mm)	16 lb (7.3 kg) Plastic Spool
3/64 (1.2)	EDS28437
1/16 (1.6)	EDS28438

## DEPOSIT COMPOSITION<sup>(1)</sup> – As Required per AWS A5.10/A5.10M: 1999

	%Al	%Si	%Fe	%Cu	%Mn
<b>Requirements - AWS ER5183</b>	Remainder	0.40 max.	0.40 max.	0.10 max.	0.50 - 1.00
<b>Typical Performance<sup>(2)</sup></b>	Remainder	0.03	0.13	0.001	0.65
	%Mg	%Cr	%Zn	%Ti	%Be
<b>Requirements - AWS ER5183</b>	4.30 - 5.20	0.05 - 0.25	0.25 max.	0.15 max.	0.0008 max.
<b>Typical Performance<sup>(2)</sup></b>	4.99	0.10	0.02	0.07	0.0006

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

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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