

SUPERGLAZE® HD 5183

Aluminum ▪ AWS ER5183

KEY FEATURES

- Designed for heavy duty applications
- Reduced shavings and improved feedability
- For 5083 and 5456 base materials

WELDING POSITIONS

All

SHIELDING GAS

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

NOTE

- Typical Joint Designs and Operating Procedures on pg. I-14 - I-16

CONFORMANCES

AWS A5.10: ER5183
Lloyd's Register: WC/I-1
ISO 18273: AlMg4.5Mn0.7(A)

TYPICAL APPLICATIONS

- Ideal for aggressive work environments and applications with long conduit lengths
- Marine fabrication and repair
- Cryogenic tanks
- Shipbuilding and other high strength structural aluminum applications
- Railcars
- Offshore industry

DIAMETERS / PACKAGING

Diameter in (mm)	16 lb (7.3 kg) Steel Spool	20 lb (9.1 kg) Plastic Spool	300 lb (136 kg) Gem-Pak® Box
0.035 (0.9)	ED035690	ED035691	ED036341
3/64 (1.2)	ED035692	ED035693	ED036342
1/16 (1.6)	ED035694	ED035695	ED036343

WIRE COMPOSITION⁽¹⁾ – As Required per AWS A5.10

	%Al	%Si	%Fe	%Cu	%Mn
Requirements - AWS ER5183	Remainder	0.40 max	0.40 max	0.10 max	0.50-1.0
Typical Results ⁽²⁾	Remainder	0.03	0.13	0.001	0.65
	%Mg	%Cr	%Zn	%Ti	%Be
Requirements - AWS ER5183	4.3-5.2	0.05-0.25	0.25 max	0.15 max	0.0003 max
Typical Results ⁽²⁾	5.0	0.10	0.02	0.07	0.00002

⁽¹⁾Typical wire chemistry. ⁽²⁾See test results disclaimer

IMPORTANT: SPECIAL VENTILATION AND/OR EXHAUST REQUIRED

Fumes from the normal use of some welding products can contain significant quantities of components - such as chromium and manganese - which can lower the 5.0 mg/m³ maximum exposure guideline for general welding fume.

BEFORE USE, READ AND UNDERSTAND THE SAFETY DATA SHEET (SDS) FOR THIS PRODUCT AND SPECIFIC INFORMATION PRINTED ON THE PRODUCT CONTAINER.

Safety Data Sheets (SDS) 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.

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