

# SUPERGLAZE<sup>®</sup> 5183 PLUS

Aluminum · AWS A5.10 : ER5183



## KEY FEATURES

- Smooth arc transfer for the most demanding 5183 applications
- Optimal arc stability and feedability
- Designed for ease of use on semi-automatic spooled applications

## WELDING POSITIONS

- All

## SHIELDING GAS

- 100% Argon
- Argon / Helium Mixtures
- Flow Rate: 14.2-23.6 l/min for Argon

## DIAMETERS / PACKAGING

Diameter [mm]	7 kg Steel Spool	7.26 kg Plastic Spool
1.2	ED704127	ED704128
1.6	ED704129	

## WIRE COMPOSITION<sup>(1)</sup> - As Required per SFA/AWS A5.1.0

	%Al	%Si	%Fe	%Cu	%Mn
<b>Requirements</b> - AWS ER5183	Remainder	0.40 max	0.40 max	0.10 max	0.50 - 1.0
<b>Typical Results</b> <sup>(2)</sup>	Remainder	0.03	0.13	0.001	0.65
	%Mg	%Cr	%Zn	%Ti	%Be
<b>Requirements</b> - AWS ER5 183	4.3 - 5.2	0.05 - 0.25	0.25 max	0.15 max	0.0003 max
<b>Typical Results</b> <sup>(2)</sup>	5.0	0.10	0.02	0.07	0.0002

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

## CONFORMANCES

**AWS A5.10:** ER5183  
**TUV, DB, CWB, ABS,** AlMg4.5Mn0.7[A]  
**DNV, KR, LR, RINA,**  
**CCS, BVISO 18273:**

## TYPICAL APPLICATIONS

- Marine fabrication and repair
- Cryogenic tanks
- Shipbuilding and other high strength structural aluminum applications
- Railcars
- Offshore industry

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/m<sup>3</sup> 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](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**

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, and cutting equipment. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications 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, or to provide engineering advice in relation to a specific situation. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the definition of specifications, and 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](http://www.lincolnelectric.com) for any updated information



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