

Grinox® 2 Plus

Stainless • AWS E308L-16

Key Features

- ▶ Rutile flux coating provides great arc stability with easy strike and re-strike.
- ▶ Free spatter deposits, smooth bead appearance and easy slag removal.
- ▶ Excellent resistance to intergranular corrosion and oxidizing agents.
- ▶ Higher ductility and good working temperature range (from -184°F (-120°C) to 662°F (350°C)).

Welding Positions

All, except vertical down

Typical Applications

- ▶ Type 18%Cr-9%Ni austenitic stainless steel, such as AISI: 301, 302, 304L & 308L. Also good results with AISI: 321 & 347.
- ▶ Petrochemical Equipment Manufacturing, Power Generation Construction, Food & Beverage Equipment, Shipbuilding & Offshore, Transportation Equipment Manufacturing.

Conformances

AWS A5.4 E308L-16

CWB Approved according to CSA W48-14

DIAMETERS / PACKAGING

Diameter in (mm)	Length in (mm)	10 lb Capsule (4.54 kg) 30 lb Master (13.62 kg)
3/32 (2.4)	12 (305)	55728
1/8 (3.2)	14 (350)	55729
5/32 (4.0)	14 (350)	55730

MECHANICAL PROPERTIES(1) – As Required per AWS A5.4/A5.4M

	Yield Strength ⁽²⁾ MPa (ksi)	Tensile Strength MPa (ksi)	Elongation %	Charpy V-Notch J(ft*lb) @ °C (°F)
Requirements AWS E308L-16	Not Specified	517 (75) min.	35 min.	Not Specified
Typical Results(3). As-Welded, 1/8" (3.2 mm) Electrode Diameter	Not Specified	571(83)	50	Not Specified

DEPOSIT COMPOSITION(1) – As Required per AWS A5.4/A5.4M

	%C	%Mn	%Si	%P	%S
Requirements AWS E308L-16	0.04 máx.	0.5 – 2.5	1.00 max.	0.04 max.	0.03 max.
Typical Results(3)	0.04	0.6	0.2	0.01	0.02
	%Ni	%Cr	%Mo	%Cu	
Requirements AWS E308L-16	9.00 – 11.0	18.0 – 21.0	0.75 max.	0.75 max.	
Typical Results(3)	10.2	18.5	0.04	0.20	

TYPICAL OPERATING PROCEDURES

Polarity ⁽⁵⁾	3/32 in (2.4 mm)	Current (Amps) 1/8 in (3.2 mm)	5/32 in (4.0 mm)	
D.C.+ / A.C	40 – 70	70 – 100	110 – 140	

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 MATERIAL SAFETY DATA SHEET (MSDS) FOR THIS PRODUCT AND SPECIFIC INFORMATION PRINTED ON THE PRODUCT CONTAINER.

(1)Typical all weld metal. (2)Measured with 0.2% offset. (3)See test results disclaimer on next page. (5) Preferred polarity is listed first.

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.

LINCOLN ELECTRIC COMPANY OF CANADA
939 Gana Court • Mississauga • Ontario • L5S 1N9
Phone: +1.905.565.5600 • www.lincolnelectric.ca

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