BLUE MAX® MIG 309LMO MOD

Stainless • Similar to AWS ER309LMo

KEY FEATURES

- Similar to 309L with the exception for the addition of 2.0 - 3.0% molybdenum to increase its pitting corrosion resistance in halide-containing environments
- Surfacing of base metals to improve their resistance to corrosion
- Used to achieve a single-layer overlay with a chemical composition similar to that of a 316L stainless steel

WELDING POSITIONS

ΑII

CONFORMANCES

Similar to

AWS A5.9/A5.9M: 2012 ER309LMo **ISO 14343:2009:** 23 12 2 L

TYPICAL APPLICATIONS

 Used for the first layer of multilayer overlays with filler metals such as 316L or 317L stainless steel

DIAMETERS / PACKAGING

Diameter		33 lb (15 kg)
in (mm)		PLW Steel Spool
	(0.9) (1.1) (1.6)	ED035082 ED035083 ED035084

WIRE COMPOSITION(1)

	%C	%Cr	%Ni	%Mo	%Mn
Requirements ⁽¹⁾ AWS ER309LMo	0.03 max	23.0 - 25.0	12.0 - 14.0	2.0 - 3.0	1.0 - 2.5
Typical Performance(2)	0.01	22.3	15.0	2.6	1.40
	%Si	%P	%S	%Cu	FN
Requirements ⁽¹⁾ AWS ER309LMo	0.30 - 0.65	0.03 max	0.03 max	0.75 max	Not Required
Typical Performance(2)	0.40	0.02	0.01	0.10	6 - 12

TYPICAL OPERATING PROCEDURES

Diameter in (mm)	Voltage (volts)	Amperage	Gas Flow	Gas
0.035 (0.9) 0.045 (1.1)	26-29 28-32	160-210 180-250	30-50 CFH 30-50 CFH	98/99% Argon + 2/1% Oxygen
0.062 (1.6)	29-33	200-280	30-50 CFH	97% Argon + 3% CO ₂

⁽¹⁾ Nearest classification ⁽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 MATERIAL SAFETY DATA SHEET (MSDS) FOR THIS PRODUCT AND SPECIFIC INFORMATION PRINTED ON THE PRODUCT CONTAINER.

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.

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