

# BLUE MAX<sup>®</sup> MIG 307 MOD

Stainless ▪ Similar to AWS ER307

## KEY FEATURES

- Austenitic stainless steel
- 7% Manganese (Mn) increases resistance to hot cracking between dissimilar steels
- Q2 Lot<sup>®</sup> - Certificates showing actual wire composition and calculated ferrite number (FN) available online

## WELDING POSITIONS

All

## CONFORMANCES

ISO 14343-A: G 18 8 Mn  
\*Similar to ER307

## TYPICAL APPLICATIONS

- Automotive exhaust systems
- Armor Plate (military)
- Designed for joining dissimilar stainless steels
- Work hardening manganese steel

## SHIELDING GAS

Short Circuiting Transfer  
90% Helium / 7.5% / 2.5 CO<sub>2</sub>  
Axial Spray Transfer  
98% Argon / Balance O<sub>2</sub>

## DIAMETERS / PACKAGING

Diameter in (mm)	33 lb (15 kg) Steel Spool
0.045 (1.2)	ED036050

## WIRE COMPOSITION<sup>(1)</sup>

	%C	%Mn	%Si	%Cr	%Ni
Typical Performance	0.08	7.1	0.80	18.8	8.6
	%S	%P	%Mo	%Cu	%FN
Typical Performance <sup>(4)</sup>	0.009	0.023	-	-	-

## TYPICAL OPERATING PROCEDURES

Diameter in (mm)	Voltage (volts)	Amperage	Gas Flow	Gas
0.045 (1.1)	28-32	180-250	30-50 CFH	98/2 (Ar/O <sub>2</sub> )

<sup>(1)</sup>Typical all weld metal. <sup>(2)</sup>Measured with 0.2% offset. <sup>(3)</sup>Nearest classification. <sup>(4)</sup>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/m<sup>3</sup> 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](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 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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