

# TECHALLOY® X

Nickel ▪ AWS ERNiCrMo-2

## KEY FEATURES

- The Ni-Cr-Mo alloy system provides excellent resistance to oxidizing and reducing environments
- Meets AMS 5798G chemical and tolerance requirements
- Q2 Lot® -Certificate showing actual deposit composition available online

## WELDING POSITIONS

All

## CONFORMANCES

**AWS A5.14/A5.14M:** ERNiCrMo-2  
**UNS** NO6002

## TYPICAL APPLICATIONS

- Used for TIG and MIG welding of nickel-chromium-molybdenum alloys

## DIAMETERS / PACKAGING

Diameter in (mm)	MIG 33 lb (14.9 kg) Wire Basket	TIG 10 lb (4.5 kg) Tube 30 lb (13.6 kg) Master Carton
0.035 (0.9)	MGX035667	
0.045 (1.1)	MGX045667	
1/16 (1.6)		TGX062638
3/32 (2.4)		TGX093638
1/8 (3.2)		TGX125638

## WIRE COMPOSITION<sup>(1)</sup> - As Required per AWS A5.14

	%C	%Mn	%Si	%S	%P	%Cr	%Ni
<b>Requirements</b>							
AWS ERNiCrMo-2	0.05 - 0.15	1.0 max	1.0 max	0.03 max	0.04 max	20.5 - 23.0	remainder
<b>Typical Results<sup>(2)</sup></b>	0.10	0.03	0.10	<0.001	0.01	21.7	48
	%Mo	%Cu	%Fe	%Co	%W	Other Elements, Total %	
<b>Requirements</b>							
AWS ERNiCrMo-2	8.0 - 10.0	0.50 max	17.0 - 20.0	0.5 - 2.5	0.2 - 1.0	0.50 max	
<b>Typical Results<sup>(2)</sup></b>	9.3	0.01	18.6	1.9	0.6	<0.50	

<sup>(1)</sup> Typical all weld metal. <sup>(2)</sup> See test results disclaimer on pg. 13.

*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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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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