TECH-ROD® 122

Nickel • AWS ENiCrMo-10

KEY FEATURES

- Excellent corrosion resistance in oxidizing as well as reducing media in a wide variety of chemical process environments
- Offers an outstanding resistance to stress corrosion cracking, pitting and crevice corrosion
- Better corrosion resistance than 276 and 625
- Q2 Lot® certificates showing actual deposit composition available online

CONFORMANCES

AWS A5.11/A5.11M: 2010 ENiCrMo-10 ASME SFA-A5.11 ENiCrMo-10 UNS W86122

TYPICAL APPLICATIONS

- Used for welding of nickel-chromium-molybdenum alloys as well as for overlay cladding on carbon, low alloy or stainless steels
- Used for dissimilar joints between nickel-chromiummolybdenum alloys and stainless, carbon or low alloy steels

DIAMETERS / PACKAGING

Diameter	Length	8 lb (3.6 kg) Can	10 lb (4.5 kg) Can	
in (mm)	in (mm)	24 lb (10.9 kg) Master Can	30 lb (13.6 kg) Master Can	
3/32 (2.4 1/8 (3.2) 5/32 (4.0)	12 (305) 14 (355) 14 (355)	EL122093632		

MECHANICAL PROPERTIES - As Required per AWS A5.11/A5.11M: 2010

	Tensile Strength Mpa (ksi)	Elongation %
Requirements		
AWS A5.11/A5.11M:2010	690 (110 min)	25 min
Typcial Performance		
Tech-Rod® 122	730 (105)	39

DEPOSIT COMPOSITION(1) - As Required per AIN/S 45 11. 2010

DEPUSIT COMPUSITION	OSIT COMPOSITION - AS REQUIRED PELAWS AS. LT. 2010					
	%C	%Mn	%Fe	%P	%S	
Requirements						
AWS ENiCrMo-10	0.02 max	1.0 max	2.0 - 6.0	0.03 max	0.015 max	
Typical Performance(2)						
Tech-Rod® 122	0.02	0.4	4.8	0.01	0.004	
	%Si	%Cu	%Ni	%Co	%Cr	
Requirements						
AWS ENiCrMo-10	0.2 max	0.50 max	Remainder	2.5 max	20.0 - 22.5	
Typical Performance(2)						
Tech-Rod® 122	0.1	0.001	56.7	0.014	21.0	
	%Nb+Ta	%Мо	%V	%W	%Other	
Requirements						
AWS ENiCrMo-10	Not Specified	12.5 - 14.5	0.35 max	2.5 - 3.5	0.50 max.	
Typical Performance(2)						
Tech-Rod® 122	0.008	13.4	0.01	3.4	_	

TYPICAL OPERATING PROCEDURES

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Diameter	Length	Amperage	
in (mm)	in (mm)	Flat	Vertical & Overhead
3/32 (2.4)	12 (305)	70-85	65-75
1/8 (3.2)	14 (355)	85-110	80-90
5/32 (4.0)	14 (355)	110-140	100-120

⁽¹⁾ Typical all wire chemistry. (2) See test results disclaimer on pg. 13. Safety Data Sheets (SDS) are available on our website at www.lincolnelectric.com

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.

