LINCOLN® ER70S-2

Mild Steel, Copper Coated • AWS ER70S-2

KEY FEATURES

- Contains zirconium, titanium, and aluminum in addition to silicon and manganese
- Produces x-ray quality welds over most surface conditions
- Recommended for TIG welding on all grades of steel
- Ink jet printing identification on entire length of electrode
- Q2 Lot® Certificates showing actual wire chemistry available online

WELDING POSITIONS

ΑII

CONFORMANCES

AWS A5.18: ER70S-2 **ASME SFA-A5.18:** ER70S-2

CSA W48 CLASSIFICATION B-G 49A 3 CG2 (ER495-2)

TYPICAL APPLICATIONS

- Repairs on a variety of mild and low alloy steel
- Small diameter pipe and tubing
- Sheet metal applications
- Root pass pipe welding

Diameter	10 lb (4.5 kg)	5 lb (2.3 kg) Plastic Tube	10 lb (4.5 kg) Plastic Tube	50 lb (22.7 kg)
in (mm)	Carton	20 lb (9.1 kg) Master Carton	30 lb (13.6 kg) Master Carton	Carton
1/16 (1.6) 3/32 (2.4) 1/8 (3.2) 5/32 (4.0)	ED033952* ED033953* ED033954*	ED034325 ED034326 ED034327	ED034328 ED034329 ED034330 ED034810	ED034331 ED034332 ED034333

^{*} Nuclear Tested Product

WIRE COMPOSITION⁽¹⁾ – As Required per AWS A5.18/A5.18M

	%C	%Mn	%S	%Si	%P	%Cu	%Cr
Requirements - AWS ER70S-2	0.07 max	0.90-1.40	0.035 max	0.40-0.70	0.0025 max	0.50 max	(1)
Typical Results ⁽²⁾	0.04	1.08	0.005	0.55	0.0003	0.20	0.08
	%Ni	%Мо	%V	%AI	%Ti	%.	Zr
Requirements - AWS ER70S-2	%Ni (1)	%Mo (1)	%V (1)	%AI 0.05-0.15	%Ti 0.05-0.15	0.02-	

⁽¹⁾Total 0.50% maximum, combined. ⁽²⁾See test results disclaimer

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.

