

# LINCOLN® ER70S-6

Mild Steel, Copper Coated ▪ AWS ER70S-6

## KEY FEATURES

- High levels of manganese and silicon deoxidizers tolerate medium to heavy mill scale surfaces
- More puddle fluidity
- Excellent wetting action
- Ink jet printing identification on entire length of electrode
- Q2 Lot® - Certificates showing actual wire chemistry available online

## WELDING POSITIONS

All

## CONFORMANCES

<b>AWS A5.18/A5.18M:</b>	ER70S-6
<b>ASME SFA-A5.18:</b>	ER70S-6
<b>CSA W48 CLASSIFICATION</b>	B-G 49A 3 CG6 (ER495-6)

## TYPICAL APPLICATIONS

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

## DIAMETERS / PACKAGING

Diameter in (mm)	5 lb (2.3 kg) Plastic Tube 20 lb (9.1 kg) Master Carton	10 lb (4.5 kg) Plastic Tube 30 lb (13.6 kg) Master Carton	50 lb (22.7 kg) Carton
1/16 (1.6)	ED034334	ED034337	ED034340
3/32 (2.4)	ED034335	ED034338	ED034341
1/8 (3.2)	ED034336	ED034339	ED034342
5/32 (4.0)		ED034781	

## WIRE COMPOSITION – As Required per AWS A5.18/A5.18M

	%C	%Mn	%S	%Si	%P
<b>Requirements</b> - AWS ER70S-6	0.06-0.15	1.40-1.85	0.035 max	0.80-1.15	0.025 max
<b>Typical Results</b> <sup>(2)</sup>	0.09	<1.60	0.007	0.90	0.007
	%Cu	%Cr	%Ni	%Mo	%V
<b>Requirements</b> - AWS ER70S-6	0.50 max	(1)	(1)	(1)	(1)
<b>Typical Results</b> <sup>(2)</sup>	0.20	0.05	0.05	0.05	0.05

<sup>(1)</sup>Total 0.50% maximum, combined. <sup>(2)</sup>See test results disclaimer

*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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