LINCOLNWELD® L-61®

Mild Steel Solid Electrode ▪ AWS EM12K

BUY AMERICA

KEY FEATURES

- Industry standard for submerged arc welding applications
- A low carbon, medium manganese, low silicon general purpose submerged arc electrode
- A good choice for a wide range of applications with single or multiple pass subarc welding
- Actual (Type 3.1) certificates for each lot of wire showing chemical composition are available in the certificate center of lincolnelectric.com

CONFORMANCES

AWS A5.17/A5.17M	EM12K
AWS A5.23:	EM12K
MIL-E-23765/4:	MIL-EM12K
EN 756:	S2Si

RECOMMENDED FLUXES

Lincolnweld® 760®, 761®, 780®, 781™, 860®, 865™, 882™, 888™, 761-Pipe™, P223™, 960®, 980™, WTX™, AXXX-10™, 995N™, SPX80™

DIAMETERS / PACKAGING

Diameter in. (mm)	60 lb (27.2 kg) Coil	250 lb (113 kg) Speed Feed® SlimReel™	300 lb (136 kg) Speed Feed® Reel	300 lb (136 kg) Speed Feed® Drum
1/16 (1.6)	ED011803			
5/64 (2.0)	ED011825, ED030756*			
3/32 (2.4)	ED011815, ED033875*	ED033074		
1/8 (3.2)	ED011807, ED033876*	ED033075		
5/32 (4.0)	ED011821, ED033877*, ED032097**	ED033076	ED030412	ED030628
3/16 (4.8)	ED011812, ED034055*			

Diameter in. (mm)	600 lb (272 kg) Speed Feed® Drum	750 lb (340 kg) Speed Feed® Reel	1000 lb (453 kg) Speed Feed® Drum	2200 lb (998 kg) Speed Feed® Stem
1/16 (1.6)				
5/64 (2.0)	EDS11823	ED011826	ED011824	
3/32 (2.4)	EDS11813	EDS11817	ED011814, ED034043*	
1/8 (3.2)	EDS11805	EDS11809	ED011806, ED034044*	ED032973
5/32 (4.0)	EDS11819	ED030012	ED011820, ED034045*, ED030703**	ED032972
3/16 (4.8)			ED011811	ED032994

**Buy America Product **Tested Material*

WIRE COMPOSITION[1] - *As Required per AWS A5.17/A5.17M*

	%C	%Mn	%Si	%S	%P	%Cu
Lincolnweld® L-61®	0.05-0.15	0.80-1.25	0.10-0.35	0.030	0.030	0.35

[1]Single values are maximums.

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.

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