

Lincolnweld® 882™

800 Series Neutral Flux • EN 760 – S A AS 1; EN 760 – S A AS 2

Key Features

- ▶ Designed for a variety of welding applications and is known for providing consistent mechanical properties
- ▶ Recommended for stainless steel welding and can be paired with both mild and low alloy steel electrodes
- ▶ Smooth bead appearance

Typical Applications

- ▶ Single wire or tandem welding
- ▶ Used for welding of stainless, mild and low alloy steel
- ▶ Excellent for multiple pass fillet welds

Recommended Wires

For Mild Steel
Lincolnweld® L-50®, L-56®, L-60, L-61®, LA-71, L-S3

For Low Alloy Steel
Lincolnweld® L-70, LA-75, LA-82, LA-85, LA-92, LA-93, LAC-Ni2

Product Information

Basicity Index: 1.6
Density: 1.2 g/cm³

Packaging

50 lb (22.7 kg) Bag ED027859

FLUX COMPOSITION⁽¹⁾

	%SiO ₂	%MnO	%MgO	%CaF ₂	%Na ₂ O	%Al ₂ O ₃	%CaO	%ZrO ₂	% Metal Alloys
Lincolnweld® 882™	16	1	22	24	2	24	1	7	3 max.

AWS TEST RESULTS⁽¹⁾

Flux/Wire Combination	Weld Condition	Yield Strength ⁽²⁾ MPa (ksi)	Tensile Strength MPa (ksi)	Elongation (%)	Charpy V-Notch J (ft•lbf) @ °C (°F)		AWS Classification (A5.17/A5.23)
L-50®	As-welded	420 (61)	520 (76)	29	130 (96)	-51 (-60)	F7A6-EM13K-H8
L-56®	As-welded	500 (73)	600 (87)	28	92 (68)	-40 (-40)	F7A4-EH11K-H8
L-56®	Stress-relieved ⁽³⁾	420 (61)	560 (81)	30	47 (35)	-46 (-50)	F7P5-EH11K-H8
L-60	As-welded	370 (54)	460 (67)	32	207 (153)	-51 (-60)	F6A6-EL12-H8
L-61®	As-welded	400 (58)	500 (72)	31	190 (140)	-51 (-60)	F7A6-EM12K-H8
L-S3	As-welded	410 (60)	520 (76)	28	130 (96)	-51 (-60)	F7A6-EH12K-H8
LA-71	As-welded	480 (69)	570 (82)	31	61 (45)	-51 (-60)	F7A6-EM14K-H8
LA-71	Stress-relieved ⁽³⁾	430 (62)	550 (80)	32	70 (52)	-51 (-60)	F7P6-EM14K-H8
L-70	Stress-relieved ⁽³⁾	450 (65)	550 (80)	30	76 (56)	-40 (-40)	F7P4-EA1-A2-H8
LA-75	As-welded	430 (62)	540 (79)	32	133 (98)	-40 (-40)	F7A4-ENi1K-Ni1-H8
LA-82	As-welded	660 (95)	740 (108)	26	56 (41)	-51 (-60)	F10A6-EF2-F2-H8
LA-85	As-welded	510 (74)	610 (88)	25	88 (65)	-40 (-40)	F7A4-ENi5-Ni5-H8
LA-85	Stress-relieved ⁽³⁾	500 (73)	590 (86)	26	102 (75)	-40 (-40)	F7P4-ENi5-Ni5-H8
LA-92	Stress-relieved ⁽⁴⁾	520 (75)	610 (89)	27	83 (61)	-29 (-20)	F7P2-EB2R-B2-H8
LA-93	Stress-relieved ⁽⁴⁾	610 (88)	700 (101)	23	214 (158)	-18 (0)	F9P0-EB3R-B3-H8
LAC-Ni2	As-welded	570 (83)	660 (95)	20	72 (53)	-40 (-40)	F8A4-ECNi2-Ni2-H8
LAC-Ni2	Stress-relieved ⁽³⁾	500 (73)	600 (87)	25	100 (74)	-40 (-40)	F7P4-ECNi2-Ni2-H8

⁽¹⁾See test results disclaimer below. ⁽²⁾Measured with 0.2% offset. ⁽³⁾Stress-relieved for 1 hour at 621°C (1150°F). ⁽⁴⁾Stress-relieved for 1 hour at 691°C (1275°F).
NOTE: For the most up-to-date AWS certificates of conformance please visit 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.

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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 for any updated information.