Lincolnwe

EN 760 - S A AB 1; EN 760 - S A AR 1 • 800 Series Neutral Flux

Key Features

Recommended Wires

For Mild Steel Lincolnweld® L-50®, L-61®, LA-71 For Low Alloy Steel Lincolnweld® LA-75

- General purpose flux designed to weld butt joints and flat and horizontal fillets
- ▶ When used with Lincolnweld® L-50® or L-61®, it is capable of producing 480 MPa (70 ksi) tensile strength after stress relief
- Small loss of strength when used in the stress-relieved condition

Product Information

Basicity Index: 1.0

Density: 1.3 g/cm³

Typical Applications

- Butt joints and flat and horizontal fillets
- ▶ Pair with Lincolnweld® L-61® on A516 steels

Packaging

50 lb (22.7 kg) Bag EDS27857

FLUX COMPOSITION(1)

	%Si0 ₂	%Mn0	%MgO	%CaF ₂	%Na ₂ O	%Al ₂ O ₃	%TiO ₂	% Metal Alloys
Lincolnweld® 865™	11	1	14	19	2	37	12	3 max.

AWS TEST RESULTS(1)

Flux/Wire Combination	Weld Condition	Yield Strength ⁽²⁾ MPa (ksi)	Tensile trength MPa (ksi)	Elongation (%)	Charpy J (ft•lbf)	V-Notch @ °C (°F)	AWS Classification (A5.17/A5.23)
L-50®	As-welded	500 (72)	580 (84)	27	53 (39)	-29 (-20)	F7A2-EM13K-H8
L-50®	Stress-relieved(3)	440 (64)	550 (80)	30	28 (21)	-46 (-50)	F7P5-EM13K-H8
L-61®	As-welded	480 (70)	570 (83)	22	85 (63)	-29 (-20)	F7A2-EM12K-H8
L-61®	Stress-relieved(3)	450 (65)	550 (80)	30	117 (86)	-29 (-20)	F7P2-EM12K-H8
LA-71	As-welded	540 (78)	630 (91)	26	73 (54)	-29 (-20)	F7A2-EM14K-H8
LA-75	As-welded	520 (76)	600 (87)	23	77 (57)	-29 (-20)	F8A2-ENi1K-G-H8
LA-75	Stress-relieved ⁽³⁾	500 (73)	610 (88)	27	79 (58)	-29 (-20)	F8P2-ENi1K-G-H8

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

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