Lincolnweld° P2007™ & 308/308L

Stainless Steel • AWS ER308/ER308L

Key Features

- Versatile design to weld several types of austenitic stainless steels
- Produces sound welds with excellent slag removal and bead appearance
- Designed combination to recover nearly all of the wire chromium in the deposit
- Balanced ferrite level for high resistance to hot cracking
- Low carbon content to reduce risk of sensitization of the weld

Typical Applications

Nuclear reactor vessels and other components

ASME IX Qualification

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QW432 F-No 6. QW442 A-No 8

DIAMETERS / PACKAGING - FI IIX

	. = 07.
50 lb (22.7 kg) Plastic Bag	
ED033159	

DIAMETERS / PACKAGING - WIRE

Diameter in (mm)	60 lb (27.2 kg) Coil
5/64 (2.0)	ED033147
3/32 (2.4)	ED033148
1/8 (3.2)	ED033149
5/32 (4.0)	ED033150

MECHANICAL PROPERTIES(1) - As Required per AWS 45 9/45 9M· 2006

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		Yield Strength ⁽²⁾ MPa (ksi)	Tensile Strength MPa (ksi)	Elongation %	Ferrite Number
	Requirements - AWS ER308, ER308L	Not Specified			
	Test Results(3,5) - As-Welded	380 (55)	565 (82)	42	15

WIRE & DEPOSIT COMPOSITION(1)

	%C ⁽⁴⁾	%Cr	%Ni	%Mo	%Mn	%Si
Requirements - AWS ER308L	0.03 max.	19.5 - 22.0	9.0 - 11.0	0.75 max.	1.0 - 2.5	0.30 - 0.65
Typical Performance ⁽³⁾						
Wire Composition	0.02	20.1	9.8	0.10	1.8	0.50
All Weld Metal Composition ⁽⁵⁾	0.02	19.0 - 19.5	9.8	0.10	1.5 - 1.9	0.50 - 0.80

TYPICAL OPERATING PROCEDURES

Diameter in (mm)	Wire Feed Speed m/min (in/min)	Voltage (volts)	Current (amps)
5/64 (2.0)	2.0-6.1 (80-240)	24-30	190-500
3/32 (2.4)	1.5-5.3 (60-210)	26-32	195-575
1/8 (3.2)	0.9-2.8 (35-110)	28-34	200-700
5/32 (4.0)	0.8-1.9 (30-75)	30-36	320-775

IMPORTANT: SPECIAL VENTILATION AND/OR EXHAUST REQUIRED

Fumes from the normal use of some welding products can contain significant quantities of components - such as chromium and manganese - which can lower the 5.0 mg/m3 maximum exposure guideline for general welding fume. BEFORE USE, READ AND UNDERSTAND THE MATERIAL SAFETY DATA SHEET (MSDS) FOR THIS PRODUCT AND SPECIFIC INFORMATION PRINTED ON THE PRODUCT CONTAINER.

Typical all weld metal. Measured with 0.2% offset. See test results disclaimer on pg. 12. Maws Requirement for ER308 is 0.08% max. carbon.

sults shown correspond with the recommended Lincolnweld® and Blue Max® fluxes listed above, but not required per AWS A5.9-93.