Lincoln® ER308/308L N

AWS ER308/ER308L • Stainless Steel

Typical Applications

- Nuclear power plant components, maintenance and construction
- Sheet metal on the corresponding stainless steel base metals
- High pressure piping and tubing
- Pressure Vessels

ASME IX Qualification

ASME IX Qualification: QW432 F-No 6,

QW442 A-No 8

Conformances

AWS A5.9/A5.9M: 2006: ER308, ER308L ASME SFA-A5.9: ER308, ER308L

Welding Positions

ΑII

Key Features

- Q2 Lot® Certificate showing actual wire composition and calculated ferrite number (FN) available online
- "N" Designator cobalt restriction of 0.05% max
- Available as Batch Managed Inventory
- Use on base metals of similar composition
- Meets the low cobalt levels typically required in the nuclear industry
- Dual classification ensures the maximum carbon content is 0.03%
- ▶ 0.03% carbon content increases resistance to intergranular corrosion
- Prior to using this material for ASME Boiler and Pressure Vessel Code Section III applications, please contact the Lincoln Electric Specials Department to receive a Certified Material Test Report (CMTR) which meets all requirements of NCA-3860
- Product is marked every 4 in. (101.6 mm) with AWS classification and LOT number for easy identification

DIAMETERS / PACKAGING

Diameter	10 lb (4.5 kg) Plastic Tube
in (mm)	30 lb (13.6 kg) Master
3/32 (2.4)	ED033854
1/8 (3.2)	ED033855

WIRE COMPOSITION – As Required per AWS A5.9/A5.9M: 2006

	%С	%Cr	%Ni	%Mo	%Mn		
Requirements - AWS ER308L	0.03 ⁽²⁾ max.	19.5 - 22.0	9.0 -11.0	0.75 max.	1.0 - 2.5		
Test Results ⁽¹⁾	0.02	20.2	9.2	0.03	1.6		
	%Si	%Р	%S	%Cu	Total Others		
Requirements - AWS ER308L	0.30 - 0.65	0.03 max.	0.03 max.	0.75 max.	0.50 max.		
Test Results ⁽¹⁾	0.44	0.02	0.02	0.11	0.03		

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.

⁽¹⁾ See test results disclaimer on pg. 12. (2) Requirements for ER308 is 0.08% max. carbon