ER317/317L Data Sheet

Specifications:

AWS A5.9
AWS Class ER317/317L
ASME SFA 5.9
UNS S31783, S31780

Properties:

Tensile Strength: 84,000 psi
Yield Strength: 58,000 psi
Elongation: 41%

Description:

ER317/317L is a filler metal that contains a low carbon content of a maximum 0.03%, which allows for a reduced likelihood of intergranular carbide precipitation without the use of stabilizers. ER317/317L was created for welding where crevice and pitting corrosion occurs. This alloy id good in corrosive environments and best suited for chemical processing plants, food processing, and marine industries.

Available in multiple sizes and diameters in spool and wire rods.

Chemical Composition (Wt%)

Si	Mn	Cu	Mo	S	Ni	Cr	P	C
0.30-0.65	1.0-2.5	0.75	3.0-4.0	0.03	13.0-15.0	18.5-20.5	0.03	0.03

Note: Single values are maximum unless otherwise noted.

Maintaining a proper welding procedure, including pre-heat and interpass temperatures, may be critical depending on the type and thickness of material being welded.

CAUTION: Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standards A49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36 Street, #130, Miami, FL 33126: OSHA Safety and Health Standards 29 CRF 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.