ER310
Data Sheet

Specifications:

AWS A5.9
AWS Class ER310
ASME SFA 5.9
UNS S31080

Properties:

Tensile Strength: 89,500 psi
Yield Strength: 60,500 psi
Elongation: 41%

Description:

ER310 has a weld deposit that is fully austenitic and is used in welding base metals of similar composition. This alloy is designed to have a high temperature oxidation resistance up to 2100°F. Thus making ER310 great for welding in chemical processing, nuclear plants, and heat treatment equipment.

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	0.75	0.03	20.0-22.5	25.0-28.0	0.03	0.08-0.15

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.