ER307
Data Sheet

Specifications:

AWS A5.9
AWS Class ER307
ASME SFA 5.9

Properties:

Tensile Strength: 94,400 psi
Yield Strength: 67,400 psi
Elongation: 40%

Description:

ER307 is an austenitic stainless steel containing a high manganese content. ER307 is mainly used for joining and surfacing applications that involve work-hardened steels, heat resistant steels that are subject to temperatures of 1560°F maximum. This alloy is also good for joining and surfacing dissimilar steels.

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	3.3-4.75	0.75	0.05-1.5	0.03	8.0-10.7	19.5-22.0	0.03	0.04-0.14

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.