ER2553
Data Sheet

Specifications:

AWS A5.9
AWS Class ER2553
ASME SFA 5.9
UNS S39553

Properties:

Tensile Strength: 108,000 psi
Elongation: ≥20%

Description:

ER2553 is considered a super duplex alloy that contains austenite within a ferrite matrix. ER2553 has a high corrosion resistance, especially to sulphuric acid, as well as a higher level of resistance to stress corrosion cracking and chloride pitting. This alloy is used in a variety of industries, such as oil, petrochemical, and offshore.

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

Chemical Composition (Wt%)

Si	Mn	Cu	Mo	S	Ni	Cr	P	C
1.0	1.5	1.5-2.5	2.9-3.9	0.03	4.5-6.5	24.0-27.0	0.04	0.04

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.