

Specifications:

AWS A5.9
 AWS Class ER410NiMo
 ASME SFA 5.9
 UNS S41086

Properties:

Tensile Strength: 118,500 psi
Yield Strength: 92,000 psi
Elongation: 20%

(Properties listed above based on PWHT between 1100°F-1150°F for 1 hour)

Description:

ER410NiMo is primarily made to weld castings and wrought material of similar composition. These metals were made to contain more nickel to get rid of ferrite in the microstructure. Interpass temperature greater than 300°F is required for this alloy. Also PWHT should not be greater than 1150°F as this could result in hardening. This alloy is often used in the production of turbines, propeller shafts, gears, etc in the offshore and hydropower industries.

Available in multiple sizes and diameters

Chemical Composition (Wt%)

Si	Mn	Cu	Mo	S	Ni	Cr	P	C
0.5	0.6	0.75	0.4-0.7	0.03	4.0-5.0	11.0-12.5	0.03	0.06

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 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.