

Specifications:

AWS A5.9
 AWS Class ER218
 ASME SFA 5.9
 UNS S21880

Properties:

Yield Strength: 85,000 psi
Tensile Strength: 123,000 psi
Elongation: 15%

Description:

Nitronic® 60W is also known as ER218. This alloy, over a range of temperatures, has a high strength and toughness due to it being an austenitic stainless steel. This alloy is often welded with base metals that are similar in composition, as well as dissimilar alloys, such as mild steels. ER218 is often used in applications for engine valves and other places where galling resistance is needed.

Available in multiple sizes and diameters

Chemical Composition (Wt%)

Si	Mn	Cu	Mo	S	Ni	Cr	P	C	N	Fe
3.9	8.2	0.75 max	0.75 max	0.02	8.6	17.2	0.03	0.07	0.12	BAL

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.

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