

Specifications:

AWS A5.9
 AWS Class ER316/316LSi
 ASME SFA 5.9
 UNS S31688

Properties:

Tensile Strength: 83,000 psi
Yield Strength: 58,000 psi
Elongation: 42%

Description:

ER316LSi is a filler metal that is mainly used for welding low carbon molybdenum-bearing austenitic alloys. This alloy contains a low carbon content of a maximum 0.03%, which allows for a reduced likelihood of intergranular carbide precipitation without the use of stabilizers. ER316LSi is similar to ER316/316L except for its higher silicon content. The higher silicon content allows for ease in welding and a smooth bead appearance. ER316LSi is good for applications in chemical industries, shipbuilding, and industries where a very high resistance to corrosion is needed.

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

Chemical Composition (Wt%)

Si	Mn	Cu	Mo	S	Ni	Cr	P	C
0.65-1.0	1.0-2.5	0.75	2.0-3.0	0.03	11.0-14.0	18.0-20.0	0.03	0.03

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.