

OK Tigrod 316LSi

Bare, corrosion-resistant, chromium-nickel-molybdenum rods for welding austenitic stainless alloys of the 18% Cr-8% Ni and 18% Cr-10% Ni-3% Mo types.

OK Tigrod 316LSi has good general corrosion resistance, particularly to corrosion in acid and chlorinated environments. The alloy has a low carbon content which makes it particularly recommended when there is a risk of intergranular corrosion. The higher silicon content improves the welding properties such as wetting. The alloy is widely used in the chemical and food-processing industries, as well as in shipbuilding and various types of architectural structure.

Classifications Wire Electrode:	EN ISO 14343-A:W 19 12 3 L Si, SFA/AWS A5.9:ER316LSi, Werkstoffnummer :~1.4430
Approvals:	BV 316L BT, CE EN 13479, DB 43.039.06, DNV 316L (-196°C), GL 4429 (I1), NAKS/HAKC 2.0MM-2.4MM, VdTÜV 05336

Approvals are based on factory location. Please contact ESAB for more information.

Alloy Type:	Austenitic (with approx. 8 % ferrite) 19% Cr - 12% Ni - 3% Mo - Low C- High Si
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Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
As welded	500 MPa	630 MPa	33 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
As welded	20 °C	175 J
As welded	-110 °C	110 J
As welded	-196 °C	90 J

Typical Wire Composition %

C	Mn	Si	Ni	Cr	Mo	Cu	Ferrite FN
0.01	1.8	0.9	12.2	18.4	2.60	0.12	7