

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	SFA/AWS A5.9 : ER316LSi EN ISO 14343-A : W 19 12 3 L Si Werkstoffnummer : ~1.4430
Approvals	BV 316L BT CE EN 13479 DB 43.039.06 DNV-GL VL 316 L (I1) NAKS/HAKC 1.6-2.4 mm VdTUV 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

Yield Strength	Tensile Strength	Elongation
500 MPa (72.5 ksi)	630 MPa (91 ksi)	33 %

Typical Charpy V-Notch Properties

Testing Temperature	Impact Value
20 °C (68 °F)	175 J (129 ft-lb)
-110 °C (-166 °F)	110 J (81 ft-lb)
-196 °C (-321 °F)	90 J (66 ft-lb)

Typical Weld Metal Analysis %

C	Mn	Si	S	P	Ni	Cr	Mo	Cu
0.01	1.8	0.8	0.01	0.02	12	18	2.8	0.1

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

Deposition Data

Diameter
1.2 mm
2.4 mm
2 mm
1.6 mm
4 mm
3.2 mm
1 mm