

OK Tigrod 316LSi

Bare corrosion resisting chromium-nickel-molybdenum rods for welding of austenitic stainless alloys of 18% Cr-8% Ni and 18% Cr-10% Ni-3% Mo types. OK Tigrod 316LSi has a good general corrosion resistance, in particular the alloy has very good resistance against corrosion in acid and chlorinated environments. The alloy has a low carbon content which makes it particularly recommended where 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 ship building and various types of architectural structures.

Klasifikace	EN ISO 14343-A : W 19 12 3 L Si SFA/AWS A5.9 : ER316LSi Werkstoffnummer : ~1.4430
Schválení	BV : 316L BT CE : EN 13479 DB : 43.039.06 DNV-GL : VL 316 L (I1) NAKS/HAKC : 1.6-2.4 mm VdTÜV : 05336

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

Condition	Mez skluzu	Mez pevnosti v tahu	Prodloužení
Po svaení	500 MPa (73 ksi)	630 MPa (91 ksi)	33 %

Typical Charpy V-Notch Properties

Condition	Testing Temperature	Vrubová houževnatost
Po svaení	20 °C (68 °F)	175 J (130 ft-lb)
Po svaení	-110 °C (-166 °F)	110 J (81 ft-lb)
Po svaení	-196 °C (-321 °F)	90 J (67 ft-lb)

Typické složení drátu %

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

Typického chemického složení svarového kovu v %

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