

OK Tigrod 308LSi

Bare corrosion resisting chromium-nickel rods for welding of austenitic chromium nickel alloys of 18% Cr 8% Ni-type. OK Tigrod 308LSi has a good general corrosion resistance. The alloy has a low carbon content which makes this alloy 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 for pipes, tubes and boilers.

Specifications

Classifications	EN ISO 14343-A : W 19 9 L Si SFA/AWS A5.9 : ER308LSi Werkstoffnummer : ~1.4316
Approvals	BV : 308L BT CE : EN 13479 DB : 43.039.11 DNV-GL : VL 308 L (I1) UKCA : EN 13479 VdTÜV : 05335

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

Alloy Type	Austenitic (with approx. 8 % ferrite) 19% Cr - 9% Ni - Low C
Shielding Gas	I1 (EN ISO 14175)

Tensile Properties

Testing Condition	Yield Strength	Tensile Strength	Elongation
As Welded	480 MPa	635 MPa	37 %

Charpy Testing

Testing Condition	Testing Temp	Impact Value
As Welded	20 °C	170 J
As Welded	-60 °C	150 J
As Welded	-110 °C	140 J
As Welded	-196 °C	75 J

Typical Wire Composition %

C	Mn	Si	S	P	Ni	Cr	Mo	Cu	N
0.01	1.8	0.8	0.012	0.013	10.0	20.0	0.1	0.10	0.06

Typical Wire Composition %

Nb	FN WRC-92
0.02	8

Typical Weld Metal Analysis %

C	Mn	Si	S	P	Ni	Cr	Mo	Cu	N
0.01	1.8	0.7	0.01	0.02	10	20	0.1	0.1	0.07

Typical Weld Metal Analysis %

Nb	FN WRC-92
0.1	8