

## OK Tigrod 318Si

Bare corrosion resisting stabilized chromium-nickel-molybdenum wire for welding of Cr-Ni-Mo and Cr-Ni stabilized or non-stabilized steels. OK Tigrod 318Si has a good general corrosion resistance. The alloy is stabilized with niobium to improve the resistance against intergranular corrosion of the weld metal. The higher silicon content improves the welding properties, such as wetting. Due to stabilization of niobium this alloy is recommended for service temperatures up to 400 °C.

### Specifications

<b>Classifications</b>	EN ISO 14343-A : W 19 12 3 Nb Si SFA/AWS A5.9 : ER318 (mod) Werkstoffnummer : ~1.4576
<b>Approvals</b>	CE : EN 13479 DB : 43.039.15 NAKS/HAKC : 2.0 mm VdTÜV : 09737

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

<b>Alloy Type</b>	Austenitic (with approx. 7 % ferrite) 19% Cr - 12% Ni - 3 % Mo - Nb
<b>Shielding Gas</b>	I1 (EN ISO 14175)

### Typical Tensile Properties

Condition	Yield Strength	Tensile Strength	Elongation
As Welded	460 MPa	615 MPa	35 %

### Typical Charpy V-Notch Properties

Condition	Testing Temperature	Impact Value
As Welded	20 °C	40 J
As Welded	-60 °C	70 J

### Typical Wire Composition %

C	Mn	Si	Ni	Cr	Mo	Cu	Nb
0.05	1.7	0.8	11.9	18.8	2.60	0.10	0.50

### Typical Weld Metal Analysis %

C	Mn	Si	S	P	Ni	Cr	Mo	Cu	Nb
0.04	1.3	0.8	0.01	0.02	12	19	2.8	0.1	0.5