

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.

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

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

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

Typical Charpy V-Notch Properties

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

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

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