

INERTROD 318Si

TIG Rods Stainless and Heat resistant steels

Inertrod 318Si is a stainless TIG rod suitable for welding stabilised austenitic steels such as AISI 318. The niobium addition considerably improves the oxidation resistance of the weld deposit.

Classification	
AWS	A5.9: ER 318 (similar)
EN	12072: W 19 12 3 Nb Si

Approvals	Grades
DB	
TÜV	

see Appendix, Classification Society Approvals, for details pag. 521

Analysis of all-weld metal (Typical values in %)

C	Mn	Si	P	S	Cr	Ni	Mo	Nb	Cu	N	Ferrite
0.07	1.75	0.85	≤ 0.020	≤ 0.020	19	12.60	2.60	0.70	-	-	3-12

All-weld metal Mechanical Properties

Heat Treatment	Yield Strength N/mm ²	Tensile Strength N/mm ²	Elongation A5 (%)	Impact Energy ISO - V (J) 20°C	Hardness
As Welded	≥ 350	≥ 550	≥ 25	≥ 47	-

Gas test: Acc. To EN 439: I1(Arcal1)

Shielding Gas: Acc. To EN 439: I1(Arcal1)

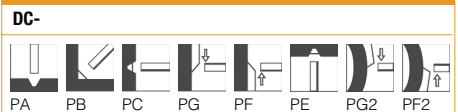
Materials

- 1.4571 (X6CrNiMoTi17-12-2) - 1.4401 (X4CrNiMo17-12-2)
- 1.4580 (X6CrNiMoNb17-12-2) - 1.4408 (GX5CrNiMo19-11)
- 1.4581 (GX5CrNiMoNb19-10) - 1.4436 (X4CrNiMo17-13-3)
- 1.4583 (X10CrNiMoNb18-12)

Storage

Keep dry and avoid condensation

Current condition and welding position



Packaging data: Tube 5 kg

Diameters (L: 1000 mm)	1,6	2,0	2,4		

Further forms of delivery on request.