

INERTROD 316L

TIG Rods Stainless and Heat resistant steels

Inertrod 316L is a stainless TIG rod conforming to ER 316L with 0.03% C maximum. Excellent mechanical and corrosion resistance, suitable for the welding or surfacing of stainless steels having similar chemical analyses.

Classification	
AWS	A5.9: ER 316L
EN	12072: W 19 12 3L

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
0.02	1.40	0.45	≤ 0.025	≤ 0.020	19	12.50	2.60	-	-	-	5-10

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	≥ 510	≥ 30	≥ 47	-

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

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

Materials

1.4401 (X4CrNiMo17-12-2), 1.4435 (X2CrNiMo18-14-3)
1.4571 (X6CrNiMoTi17-12-2), 1.4583 (X10CrNiMoNb18-12)
AISI 316L

Storage

Keep dry and avoid condensation

Current condition and welding position

DC-



Packaging data: Tube 5 kg

Diameters (L: 1000 mm)	1,0	1,2	1,6	2,0	2,4	3,2

Further forms of delivery on request.