

INERTROD 316LSi

TIG Rods Stainless and Heat resistant steels

Inertrod 316LSi is a stainless TIG rod conforming to ER 316LSi with C 0.03% max and Si 0,85 %. Excellent mechanical properties and resistance to chemical corrosion, suitable for welding or surfacing stainless steels having a similar chemical analysis. Excellent bead appearance.

Classification	
AWS	A5.9: ER 316L Si
EN	12072: W 19 12 3 L 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
0.02	1.40	0.85	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:

Diameters (L: 1000 mm)	1,2	1,6	2,0	2,4	3,2
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Further forms of delivery on request.