

INERTFIL 316L

MIG-MAG Wires Stainless and Heat resistant steels

Inertfil 316L is a stainless steel solid wire conforming to ER 316L with C=0,03% max. Excellent mechanical properties and resistance to chemical corrosion, suitable for welding or surfacing stainless steels having the same chemical analysis. Excellent weld bead appearance. Upon request Inertfil 316H with Carbon 0.08% max (AWS A5.9: ER 316H) can be supplied.

Classification	
AWS	A5.9: ER 316L
EN	12072: G 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: M13(Cargal1)

Shielding Gas: Acc. To EN 439: M13(Cargal1)

Materials

1.4401 (X4CrNiMo17-12-2), 1.4435 (X2CrNiMo18-14-3)

1.4571 (X6CrNiMoTi17-12-2), 1.4583 (X10CrNiMoNb18-12)

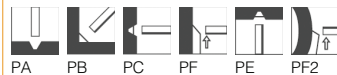
AISI 316L

Storage

Keep dry and avoid condensation

Current condition and welding position

DC+



Packaging data: BS300 Kg. 15

Diameters	1,0	1,2				