

MIG/MAG solid wires-TIG rods Stainless and Heat resistant steels

INERTFIL 316L is a G 19 12 3L/ER 316L type solid MAG welding wire supplied precision layer wound, depositing a low C-19Cr12Ni2.6Mo weld metal. Suitable for use with Ar+2%O₂ or Ar+0.5...5%CO₂ mixed shielding gases.

INERTFIL 316L is used for welding of 316 and 316L grade stainless steels. It is used for a wide range of applications including pipework and plate fabrication, vessel production etc. Batch with controlled low ferrite number is available for cryogenic applications.

The weld metal has a high resistance to crevice corrosion by oxidising acids.

Classification	
EN ISO	14343-A: G 19 12 3L
AWS	A5.9: ER 316L

Approvals	Grade
DB	●

Chemical analysis (Typical values in %)

	C	Mn	Si	P	S	Cr	Ni	Mo
Wire	0.020	1.4	0.45	≤ 0.025	≤ 0.020	19	12.5	2.6

All-weld metal Mechanical Properties

Heat Treatment	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation A5 (%)	Impact Energy ISO - V (J)	
				+20 °C	-196 °C
As Welded	≥350	≥510	≥30	≥130	≥32

Gas test: M13

Shielding Gas - EN ISO 14175 : Ar+0.5%≤O₂≤3%, Ar+0.5≤CO₂≤5

Materials

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

AISI 316L

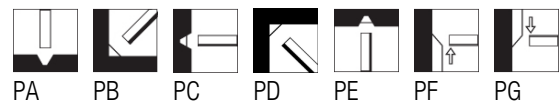
1.4571 (X6CrNiMoTi17-12-2), 1.4583 (X10CrNiMoNb18-12)

Storage

Keep dry and avoid condensation

Current condition and welding position

DC+



Packaging data

Packaging Type	BS300
Diam(mm) / weight(kg)	15
1.0	●
1.2	●