

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

INERTFIL 308L is a G 19 9 L/ER 308L type solid MAG welding wire, supplied precision layer wound, depositing a low C-19Cr9Ni weld metal. Suitable for use with Ar+2%O₂ or Ar+0.5...5%CO₂ mixed shielding gases.

INERTFIL 308L is used for welding of 304 and 304L grade stainless steel. The weld metal provides good corrosion resistance properties to intergranular attack from a range of liquid media at service temperatures up to 300°C. 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 low carbon content reduces the propensity to intergranular carbide precipitation, which increases the resistance to intergranular corrosion without the use of stabilizers.

Classification		Approvals	Grade
EN ISO	14343-A: G 19 9 L	DB	●
AWS	A5.9: ER 308L	TÜV	●

CE

Chemical analysis (Typical values in %)

	C	Mn	Si	P	S	Cr	Ni
Wire	0.020	1.8	0.45	≤ 0.025	≤ 0.020	20	10

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	≥520	≥35	≥140	≥40


Gas test: M13

Shielding Gas - EN ISO 14175 : M12, M13

Materials

AISI 304 - 304L - 302

1.4541 (X6CrNiTi18-10); 1.4301 (X4CrNi18-10); 1.4311 (X2CrNiN18-10)

Storage	Current condition and welding position
Keep dry and avoid condensation	DC+
	

Packaging data

Packaging Type	BS300
Diam(mm) / weight(kg)	15
1.6	●