

# INERTROD 312

## TIG Rods Stainless and Heat resistant steels

Inertrod 312 is a stainless TIG rod suitable for welding or surfacing difficult to weld steels. Suitable for welding buffer layers. The excellent mechanical properties and the notch toughness make Inertrod 312 suitable for a wide range of applications.

Classification	
AWS	A5.9: ER 312
EN	12072: W 29 9

Approvals	Grades

### Analysis of all-weld metal (Typical values in %)

C	Mn	Si	P	S	Cr	Ni	Mo	Nb	Cu	N	Ferrite
0.10	1.80	0.40	≤ 0.030	≤ 0.020	29	9	-	-	-	-	12-20

### All-weld metal Mechanical Properties

Heat Treatment	Yield Strength N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>	Elongation A5 (%)	Impact Energy ISO - V (J) 20°C	Hardness
As Welded	≥ 450	≥ 650	≥ 22	≥ 47	-

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

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

### Materials

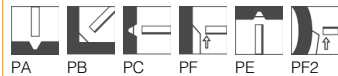
Dissimilar and difficult to weld steels

### Storage

Keep dry and avoid condensation

### Current condition and welding position

DC-



**Packaging data:** Tube 5 kg

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