ER 316L

Stainless Steel WIRE/GTAW

Standards

EN/ISO-Standard - 14343-A EN/ISO-Classification - W 19 12 3 L AWS-Standard - A5.9 AWS-Classification - ER 316L

Features and Applications

- Austenitic stainless steel wire that has a low carbon content, which reduces the possibilities of intergranular carbide precipitation, while increasing the resistance to intergranular corrosion without the use of stabilisers such as niobium or titanium.
- The presence of molybdenum provides creep resistance in a halide atmosphere.
- Ideal for joining and surfacing of stainless steels of similar composition (CrNi and CrNiMo steels/cast steels). Including low-carbon molybdenum-bearing austenitic alloys.
- Typically used in the food processing, dairy and chemical industries etc.
- Test Certificates can be found online @wilkinsonstar247.com



Typical Base Materials

All 300 series austenitic stainless steel, mainly low-carbon molybdenum-bearing*

* Illustrative, not exhaustive list

Welding Positions

EN ISO 6947 - PA, PB, PC, PD, PE, PF, PG

Shielding Gases	Polarity	
EN ISO 14175 - TIG: I1 (Argon)	DC (-)	

Mechanical Properties

Tensile Strength	Yield Strength	Elongation	Impact Strength
(N/mm²)	(N/mm²)	(%)	(J)
≥510	≥320	≥25	≥80

Mechanical properties are approximate and may vary based on the heat, shielding gas, welding parameters and other factors.

Chemical Composition % (Typical)

С%	Mn%	Si %	S %	P %	Ni %	Cr %	Mo %	Cu%
0.021	1.80	0.43	0.005	0.027	11.19	18.70	2.62	0.30

Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6011100164	0.80	1000	5	Cardboard Tube
6011100169	1.00	1000	5	Cardboard Tube
6011100399	1.20	1000	5	Cardboard Tube
6011100351	1.60	1000	5	Cardboard Tube
6011100170	2.00	1000	5	Cardboard Tube
6011100352	2.40	1000	5	Cardboard Tube
6011100353	3.20	1000	5	Cardboard Tube

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