



ER 317L

Stainless Steel WIRE/GTAW



Standards

EN/ISO-Standard - 14343-A

EN/ISO-Classification - W 18 15 3 L

AWS-Standard - A5.9

AWS-Classification - ER 317 / 317L

Features and Applications

- Austenitic stainless steel wire used for welding alloys of a similar chemical composition.
- Ideal for severely corrosive environments where crevice and pitting corrosion are of concern.
- Low carbon content reduces the possibilities of intergranular carbide precipitation.
- Not suitable for structural service above 400°C or for cryogenic applications.
- Weld deposit is similar to 316L with high molybdenum content for increased corrosion resistance.
- Typically used in the chemical and petrochemical industries, marine environments, papermaking and food processing industries etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Approvals

CE, UKCA

Typical Base Materials

Stainless CrNiMo steels e.g. 317L or similar*

* Illustrative, not exhaustive list

Welding Positions

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

Shielding Gases

EN ISO 14175 - TIG: I1 (Argon)

Polarity

DC (-)

Chemical Composition % (Typical)

C %	Mn %	Si %	S %	P %	Ni %	Cr %	Mo %	Cu %
<0.03	1.43	0.45	<0.030	<0.030	13.60	18.82	3.55	<0.75

Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6011100590	1.60	1000	5	Plastic Tube
6011100591	2.40	1000	5	Plastic Tube
6011100592	3.20	1000	5	Plastic Tube

Other diameters available on request

Mechanical Properties

Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Impact Strength (J)
≥480	≥300	≥25	-

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