



ER 308L

Stainless Steel WIRE/GTAW



Standards

EN/ISO-Standard - 14343-A
EN/ISO-Classification - W 19 9 L

AWS-Standard - A5.9
AWS-Classification - ER 308L

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.
- Offers good corrosion resistance in nitric acid environments.
- Good mechanical properties at sub-zero temperatures down to -197°C.
- Typically used on applications where a good atmospheric corrosion resistance in urban and rural medias is expected, pipes/tubes, boiler engineering, food processing and chemical industries etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Approvals

CE, UKCA

Typical Base Materials

All 300 series austenitic stainless steel*

* 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%
0.021	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
6011100424	1.00	1000	5	Plastic Tube
6011100321	1.20	1000	5	Plastic Tube
6011100326	1.60	1000	5	Plastic Tube
6011100328	2.40	1000	5	Plastic Tube
6011100329	3.20	1000	5	Plastic Tube

Mechanical Properties

Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Impact Strength (J)
≥510	≥320	≥25	≥80

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