ER 310

Stainless Steel **WIRE/GTAW**

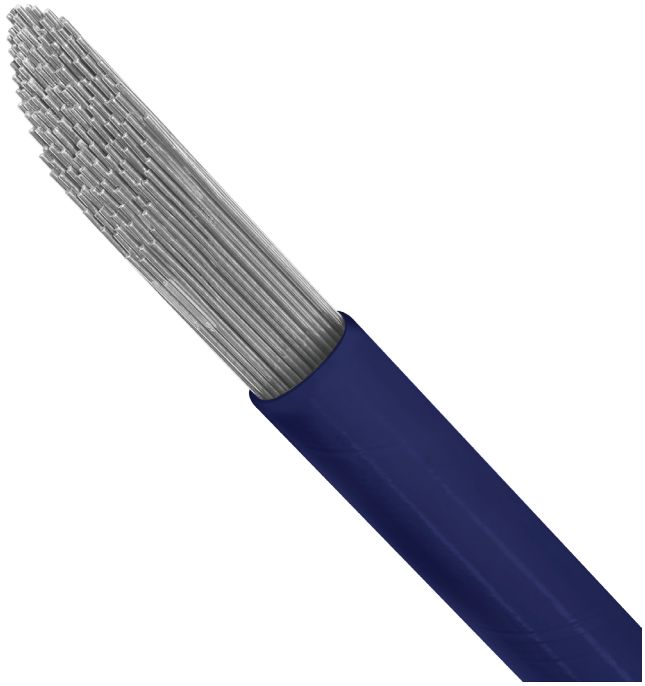
Standards

EN/ISO-Standard - 14343-A
EN/ISO-Classification - W 25 20

AWS-Standard - A5.9
AWS-Classification - ER 310

Features and Applications

- Austenitic stainless steel wire most often used to weld base metals of similar composition.
- Excellent resistance to oxidation, especially at high working temperatures (lower than 1000°C) due to its high Cr content.
- Fully austenitic and therefore sensitive to hot cracking.
- Ideal for welding and overlay of stainless steels of similar chemical composition including dissimilar welding.
- Typically used on industrial furnaces, annealing chambers, fused salt treatment installations and boiler parts, as well as heat exchangers etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Typical Base Materials

300 series austenitic stainless steel for welding (e.g. AISI 310, 304); mild and carbon steels for overlay works*

* 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 (-)

Mechanical Properties

Tensile Strength (N/mm^2)	Yield Strength (N/mm^2)	Elongation (%)
≥550	≥350	≥20

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

Chemical Composition % (Typical)

C %	Mn%	Si %	S %	P %	Ni %	Cr %	Mo %	Cu%
0.096	1.65	0.35	0.006	0.025	20.07	26.80	0.060	0.25

Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6011100339	1.60	1000	5	Cardboard Tube
6011100341	2.40	1000	5	Cardboard Tube
6011100342	3.20	1000	5	Cardboard Tube