

ER 410

Stainless Steel WIRE/GTAW

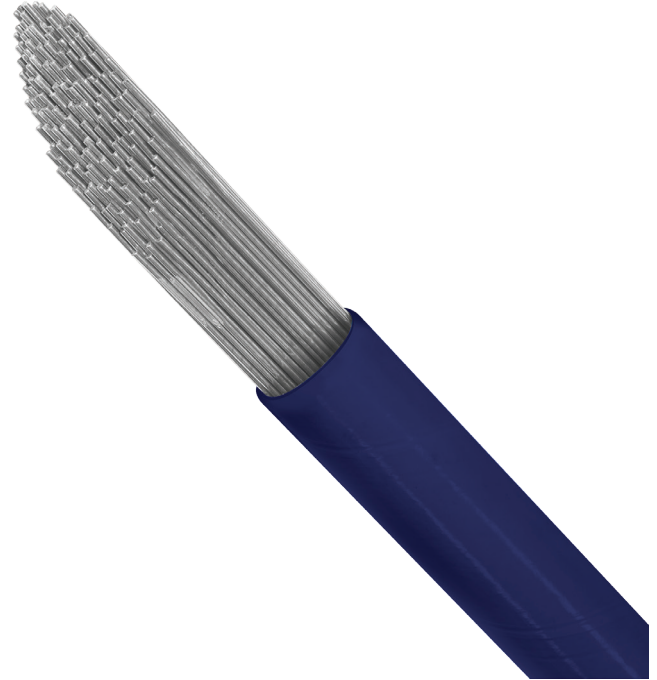
Standards

EN/ISO-Standard - 14343-A
EN/ISO-Classification - W 13

AWS-Standard - A5.9
AWS-Classification - ER 410

Features and Applications

- Stainless steel wire designed to weld stainless steels of similar composition, including deposition of overlays on carbon steels to resist corrosion, erosion and abrasion.
- ER 410 contains sufficient carbon to enable air-hardening transformation of the weld metal to a predominately martensitic microstructure.
- Preheat and postweld heat treatments are required to achieve welds of adequate ductility for many engineering purposes.
- Ideal for welding or repairing 12% Cr air-hardenable stainless steels like types 410, 416, 420, 431 and cast C-15.
- Typically used on applications for heat furnaces and turbine part production etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Typical Base Materials

Wrought or cast martensitic, types 403, 405, 410, and 416 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 (-)

Mechanical Properties

Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)
≥450	≥250	≥15

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%
0.015	0.55	0.48	0.004	0.028	0.37	12.90	0.08	0.15

Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6011100546	1.60	1000	5	Cardboard Tube
6011100196	2.40	1000	5	Cardboard Tube
6011100547	3.20	1000	5	Cardboard Tube

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