

ER 347Si

Stainless Steel WIRE/GTAW

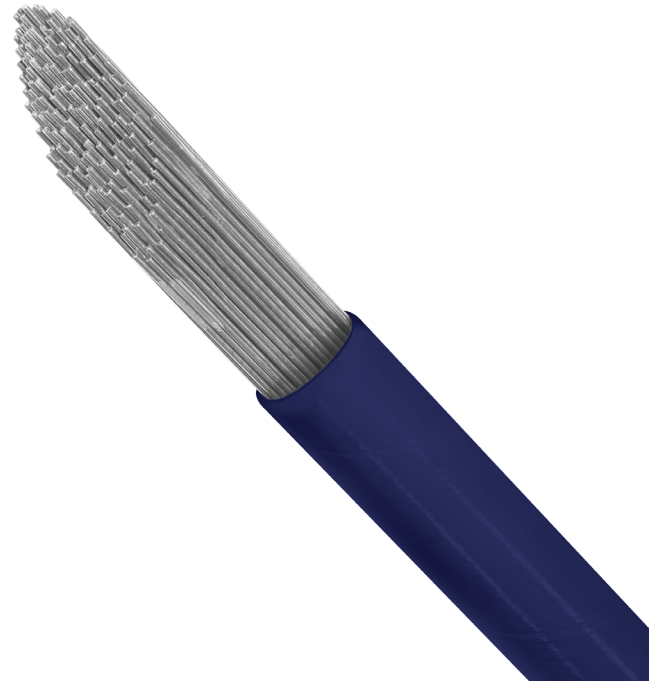
Standards

EN/ISO-Standard - 14343-A
EN/ISO-Classification - W 19 9 Nb Si

AWS-Standard - A5.9
AWS-Classification - ER 347Si

Features and Applications

- Austenitic stainless steel wire with a significant presence of niobium, that provides resistance to intergranular chromium carbide precipitation, thus increasing the resistance to intergranular corrosion.
- Increased silicon content promotes weld pool fluidity to give a smooth deposit appearance.
- Ideal for welding and overlay of chromium-nickel stainless steel base metals of similar composition, stabilised either by Nb or Ti (e.g. types 321 and 347).
- Typically used on applications for the chemical industry, particularly at high temperatures (e.g. equipment intermittently heated within a temperature range varying from 400°C to 800°C). Including applications such as firewalls, pressure vessels, food processing, dairy, oil and textile industries etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Typical Base Materials

All 300 series austenitic stainless steel, particularly 321 and 347 (stabilised)*

* 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 (%)	Impact Strength (J)
≥550	≥350	≥25	≥50

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 %	Nb %
0.020	1.74	0.82	0.005	0.024	9.55	19.50	0.050	0.04	0.205

Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6011100360	1.60	1000	5	Cardboard Tube
6011100362	2.40	1000	5	Cardboard Tube
6011100363	3.20	1000	5	Cardboard Tube

Liability: Whilst all reasonable efforts have been made to ensure the accuracy of the information contained, this information is subject to change without notice and can be only considered as suitable for general guidance.

