

ER Ti2 (Grade 2)

Titanium Alloy TIG/GTAW

Standards

EN/ISO-Standard - 24034
EN/ISO-Classification - S Ti 0120 (Ti99,6)

AWS-Standard - A5.16
AWS-Classification - ER Ti2

Features and Applications

- Solid titanium wire offering a sound combination of mechanical strength and corrosion resistance.
- Widely used in the aircraft industry where tensile strength and weight ratios are very critical.
- Ideal for high temperature creep resistance applications.
- Weld deposit is ductile and provides excellent corrosion resistance in highly oxidising and mildly reducing environments.
- Typically used in the petrochemical industry, aerospace manufacturing and the chemical process industries etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Typical Base Materials

Pure titanium and titanium alloys with similar chemical composition; Titanium grades 1-4; UNS R50400H.*
* Illustrative, not exhaustive list

Welding Positions

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

Shielding Gases

EN ISO 14175 - TIG: I1 (Argon)

Polarity

TIG DC (-)

Mechanical Properties

Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Impact Strength (J)
≥345	≥275	≥20	-

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

Chemical Composition of Weld Metal %

C %	O %	N %	H %	Fe %	Ti %
max	0.08	max	max	max	rem.
0.03	0.16	0.015	0.008	0.12	

Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6031100322	1.60	1000	1	Cardboard Tube
3031100324	2.40	1000	1	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.

