

Grade 2 Titanium Wire – High-Performance CP Titanium Wire

Material Standards: ASTM B863, ASTM F1341, ASTM F67

Grade: Gr2 (Commercially Pure Titanium, CP Ti)

Chemical Composition (wt%):

Ti: $\geq 99.0\%$, O $\leq 0.25\%$, N $\leq 0.03\%$, H $\leq 0.015\%$, Fe $\leq 0.30\%$, C $\leq 0.08\%$

Delivery Time: 2–4 weeks depending on size and processing complexity

MOQ: Flexible – trial orders starting from 1–5 kg are welcome

Our company produces and processes Grade 2 commercially pure titanium wire, certified to ISO9001 and AS9100. We offer a wide range of wire diameters and shapes, including coils, straight lengths, and welding wire, to meet your needs.

Our Quality Promise:

Every batch is individually inspected using non-destructive testing (NDT) and shipped with third-party inspection reports. Secure export packaging in durable wooden crates ensures safe long-distance transportation.

Mechanical Properties (Typical):

Diameter (in./mm)	Tensile Strength min.	Yield Strength (0.2%) min.	Elongation min. (%)
≥ 0.125 (≥ 3.18)	50 ksi (345 MPa)	40 ksi (275 MPa)	20
< 0.125 to 0.062 inclusive (< 3.18 to 1.58)	50 ksi (345 MPa)	40 ksi (275 MPa)	12
< 0.062 to 0.020 inclusive (< 1.58 to 0.51)	50 ksi (345 MPa)	—	10
< 0.020 to 0.005 inclusive (< 0.51 to 0.13)	50 ksi (345 MPa)	—	8

Technical Specifications:

Forms & Sizes: Coils (0.1 – 3.0 mm), Straight Wire (0.5 – 8.0 mm, lengths up to 3000 mm),

Spools/Reels (0.1 – 2.0 mm for welding or braiding)

Tolerances: Per ASTM B863 or customized

Condition: Annealed or cold-worked

Finishes: Bright annealed, pickled, cold drawn, cold rolled, ground, polished

Brinell Hardness (HB): 130-160

Density: 4.5 g/cm³ – around 40% lighter than steel

Key Features:

Excellent Ductility & Formability: High elongation (up to 20%), ideal for complex cold forming, braiding, and heading applications.

Superior Corrosion Resistance: Excellent performance in seawater, chloride, and acidic environments.

Biocompatibility: Safe for medical implants and surgical instruments.

Why Work with Baoji Zecheng?

By choosing us, you gain a reliable partner with proven expertise in titanium materials. We combine advanced production capabilities, stringent quality control, and flexible customization to support aerospace, medical, chemical, and marine projects.

Ready to source premium Grade 2 titanium wire?

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☐ Get a Quote: info@zctitanium.com

☐ Technical Support: wanggang@zctitanium.com

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