

Grade 5 Titanium Wire

Origin: Baoji, China

Shape: Round

Surface Treatment: Pickling, Polishing

Standards: ASTM B863, ASTM F1472, ASTM F136, AMS 4928

Lead Time: 2-4 weeks

Manufacturing Process: Drawing, Cutting, and Braiding

Grade 5 titanium wire, also known as Ti-6Al-4V wire, is a high-performance titanium alloy widely used in critical components for aerospace and industrial applications due to its excellent strength-to-weight ratio, outstanding corrosion resistance, and remarkable durability. We supply a variety of diameters of pure titanium and titanium alloy wire, ranging from Φ 0.2mm to Φ 12mm, available in coils, straight lengths, or welding wire.

Tolerance: According to standards or customization

Condition: Annealed, Cold Worked

MOQ: Negotiable (small order acceptable)

Payment Terms: T/T

Transportation: By sea, by air, international express

Mechanical Properties

Tensile Strength: \geq 897 MPa

Yield Strength: \geq 828 MPa

Elongation: \geq 10%

Density: 4.43 g/cm³

Quality Assurance

- ISO 9001
- AS9100 (Aerospace Quality System)
- 100% inspection for each batch
- Mill Test Certificate (MTC) available
- Chemical & mechanical property test report

Manufacturing Process

Our Grade 5 titanium wire is produced through a rigorous, multi-stage manufacturing process:

First Line: Raw Material Preparation & Ingot Casting

Sponge Ti + Alloy

Vacuum Melting

Ti Ingot

Second Line: Hot Working & Initial Wire Forming

Forging +Hot Rolling

Wire Rod

Annealing

Third Line: Cold Working & Finished Product Treatment

Coarse Drawing

Intermediate Annealing

Fine Drawing

Finished Wire

Surface Treatment

Inspection & Packaging

Applications

Aerospace: Used in the manufacturing of aircraft structural components, engine parts, spacecraft components, and other critical components.

Medical Industry: Due to its excellent biocompatibility, it is widely used in orthopedic implants, dental implants, surgical instruments, and other medical applications.

Industrial Applications: Used for manufacturing chemical equipment, filters, pressure vessels, corrosion-resistant components, especially in harsh environments.

Marine Industry: Ideal for seawater environments, such as offshore platforms, subsea pipelines, and other marine applications, where the corrosion resistance of titanium alloy wire is especially critical.

As one of Zecheng Metal's core products, we are committed to providing high-quality titanium wire to customers worldwide. With years of expertise and manufacturing technology, we ensure that every batch of products meets industry standards. Our professional engineering team is

always ready to provide technical support and assist in solving various challenges related to titanium alloy product applications.

Contact Information

For quotations, please contact: info@zctitanium.com

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Baoli Zecheng Metal Materials Co., Ltd.