

Grade 4 Titanium bar-en

Material grade: Grade 4 (pure titanium)

Shape: titanium round bars, titanium square bars, titanium flat bars, titanium hollow bars, titanium hexagonal bars

Size range:

Diameter: ϕ 3mm- ϕ 600mm

length: 100-6000mm

(the diameter and length of titanium rod can be customized according to customer needs)

Finish: machine polishing, grinding polishing, sandblasting, etc.

Grade 4 Titanium Bar | Pure Titanium Rod Supplier | Buy Discount Titanium Rod

Physical & Mechanical Properties of Grade 4 Titanium Rod

Density: 4.51g/cm³

Melting point: 3020°F (1660° C)

Tensile Strength: $\geq$ 550 MPa

Yield Strength(0.2% Offset): $\geq$ 483 MPa

Elongation in 4D: $\geq$ 15%

Reduction of Area: $\geq$ 25%

Magnetic Properties: Completely non-magnetic

Elastic Modulus: 105-110 GPa

Standards and Condition:

Applicable Standards: ASTM B348, ASTM F67, ISO5832-2, etc.

Processing Condition: Annealed, hot-worked, cold-worked.

Packaging and Transportation:

Standard export packaging is used, suitable for various transportation methods.

Standard size delivery time is typically 7-15 days, depending on order quantity and transportation method.

Key Features & Advantages of Grade 4 Titanium Bar

High-Temperature Strength and Creep Strength: At high temperatures (500-600°C), the Gr4 Titanium bar has the highest strength and creep strength.

Good Oxidation Resistance and Weldability: Suitable for applications requiring good oxidation resistance and welding performance.

Corrosion Resistance and Machinability: Good corrosion resistance and machinability in a variety of environments.

Moderate Strength: Grade 4 has slightly higher tensile strength than other commercially pure titanium and can be used as a medium-strength structural material.

Chemical composition

C (Max)	O (Max)	N (Max)	H (Max)	Fe (Max)	Other Elements (Max Each)	Other Elements (Max Total)	Ti
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0.08	0.40	0.05	0.015	0.50	0.1	0.4	balance
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Applications of Grade 4 Titanium Rods

Medical: Artificial joints, orthopedic implants, and precision surgical instruments

Marine and Ocean Engineering: Seawater desalination equipment, marine mining components

Chemical and Petrochemical Industry: Reactors, pipelines, and valves

3C Electronic Devices: Mobile phones and mobile electronic products

Custom Options & Services

At Baoji Zecheng Metal Materials Co., Ltd., we understand that each customer has unique requirements. That's why we offer customizable G4 Titanium Bars to suit your specific needs. Whether you require particular sizes, surface treatments, or packaging solutions, we are here to provide tailored solutions that meet your exact specifications.

Customization Services:

Titanium Bar Sizes: Diameters range from 3mm to 600mm, and we can customize to meet your exact requirements.

Surface Treatment: We offer various surface finishing options, including mechanical polishing, sandblasting, and custom coatings.

Packaging: Secure and reliable international shipping packaging.

Samples: We provide samples based on your specifications and order quantities.

Contact Us for More Information

If you have any questions or would like to place an order for Titanium Bars, please feel free to contact us. We are committed to delivering the highest quality titanium products available in the market.

Phone: (+86) 13809172622

Email: info@zctitanium.com

Frequently Asked Questions (FAQ)

Q: How does Ti Grade 4 Bars differ from other titanium bars (e.g., Grade 2 or Grade 5)?

A: Gr 4 Titanium Rods offer a balance of strength and corrosion resistance that falls between Grade 2 and Grade 5. Grade 4 is more affordable than Grade 5, making it ideal for applications that don't require the high performance of Grade 5 but still need reliable strength and durability.

Q: Are your titanium bar products certified with ISO 9001, AS9100, or other international quality certifications?

A: Yes, our titanium bars have successfully passed ISO 9001 and AS9100 international quality management system certifications. This ensures that we maintain strict quality control throughout the production process.

Q: Can I customize the size and surface treatment of Ti Grade 4 Bars?

A: Absolutely! You can customize the size, surface treatment, and packaging of Gr4 Titanium Rods according to your needs. Simply contact us with your requirements, and we will provide you with a tailored solution.