

Ti-6Al-4V Titanium bar

Size: Dia (mm): $\phi 6$ - $\phi 600$ mm

Length (mm): 100-6000

(Can be customized upon request)

Origin: Baoji, China

Standard: ASTM B348, AMS 4928

Surface treatment: machine polishing, grinding polishing, sandblasting

Payment: T/T, L/C

What Is Ti-6Al-4V Titanium Bar

Gr5 titanium bar is mainly composed of three elements: Ti, Al and V. The content of titanium is between 88% and 91%, the content of aluminum is between 5.5% and 6.75%, and the content of vanadium is between 3.5% and 4.5%. In addition, the material also contains trace amounts of other elements such as Fe, O, C, and N, which have a significant impact on the material properties. We have sufficient **Ti-6Al-4V bars**, ingots, and semi-finished billets, and customers can choose standard specifications or customized sizes. We promise that all titanium bars meet industry standards such as ASTM B348 and AMS 4928, and are committed to providing fast delivery services to meet customers' urgent needs. Whether it is a small batch of samples or large-scale production, we can arrange the shipment quickly.

Product Specifications: Gr5 Titanium Bar

Grade	Grade 5
Brand	Zecheng metal
Technology	Forged, Rolled or Other
Shape	Round rods, Square rods, Hollow rods, Rectangular rods, etc.
Delivery time	Standard sizes: ready to ship in 7 to 15 business days Special customization: takes about one month to ship.
Application	Aerospace, Military and Medical Fields
Delivery Status	Hot processed state (R) Cold working state (Y) Annealed state (M)

Chemical Composition of Grade5 Titanium Bar

C (Max)	O (Max)	N (Max)	H (Max)	Fe (Max)	Al	V	Other Elements (Max Each)	Other Elements (Max Total)
0.08	0.20	0.05	0.015	0.40	5.5-6.75	3.5-4.5	0.1	0.4

Mechanical properties of Grade5 Titanium Bar

Tensile Strength, min		Yield Strength(0.2% Offset) min or range		Elongation in 4D, min, %	Reduction of Area, min %
ksi	MPa	ksi	MPa		
130	895	120	828	10	25

Equivalent Grades of Ti-6Al-4V

Composition	ASTM Standard	China(GB/T) Standard	DIN Standard	JIS Standard	UNS Standard
6Al4V	Grade5	TC4	DIN3.7164 DIN3.7165	TAP6400	UNS R56400

Gr5 titanium bar with ISO9001 & AS9100 certificates

Ti-6Al-4V Titanium Bar Production Process

The manufacturing of Gr5 Ti-6Al-4V titanium rods includes several stages: melting, forging, rolling, heat treatment, and precision machining. We use advanced VR vacuum induction furnaces for refining raw materials, and the bars are formed through forging to ensure superior mechanical properties and structural integrity.

Key Equipment Used:

Melting and Forging Equipment

Over 30 lathes, including CNC lathes, horizontal and vertical lathes

Heavy-duty gantry milling machines for large square bar processing

Centerless lathes and grinders for smooth surface finishes

Vertical and horizontal band saws for precise cutting

FAQs About Grade5 Titanium Bar

Q: What is your factory's production and processing capacity?

A: Our factory is equipped with over 30 lathes, including CNC and heavy-duty machines. We can process titanium bars up to 6000mm in length and 4000mm in diameter, as well as square bars up to 1200mm×1600mm×4000mm.

Q: What after-sales services are offered with Ti-6Al-4V titanium bars?

A:

Product Quality: We guarantee that our products meet ISO9001 and AS9100 international quality management standards.

Technical Support: Our team provides expert consultation and application advice.

Customization: We offer tailored solutions to meet your specific requirements.

Customer Service: Our team is ready to respond to all inquiries promptly.

Packaging & Shipping: Special export packaging is used to prevent damage during transit.

Q: Can I receive a Titanium 6Al-4V Bar Free Sample?

A: Yes, please contact our sales team to request a free sample, and they will assist you with the necessary arrangements.

Contact Us for Custom Orders or Inquiries

For pricing inquiries, to place a **custom titanium bars**, or to learn more about our products, please reach out to us:

Phone: (+86) 13809172622

Email: info@zctitanium.com

Our professional sales team is available to assist you 24/7.