

Grade 7 Titanium Bar

Grade: Grade 7 (UNS R52400 / TA9 / DIN 3.7235)

Standard Sizes: Customizable (Standard Diameter: 5mm – 500mm, Length: 6m, customizable upon request)

Lead Time: Customized production, approximately 2-4 weeks

Payment Terms: T/T (Telegraphic Transfer)

Overview of Grade 7 Titanium Rods

Titanium Grade 7 Bar is a premium α -type titanium alloy, developed by adding palladium (Pd) to industrial-grade titanium. This combination significantly improves the alloy's corrosion resistance in both reducing and oxidizing environments, particularly in conditions with high chloride ion concentrations, high temperatures, and strong acids. It retains the excellent mechanical properties and formability of pure titanium while offering exceptional corrosion resistance. This makes Grade 7 titanium ideal for use in harsh and corrosive environments.

- Physical Properties: Density 4.51g/cm³, grain size 6.0-7.0
- Main components: Titanium (Ti) balance, 0.12% ≤ Pd ≤ 0.25, nitrogen (N) ≤ 0.03, carbon (C) ≤ 0.08, hydrogen (H) ≤ 0.015, iron (Fe) ≤ 0.30, oxygen (O) ≤ 0.25
- Standards: ASTM B348, ASME SB348, GB/T2965
- Mechanical properties: Tensile strength: ≥ 345Mpa, Yield strength (0.2% Offset): ≥ 275Mpa; 4D elongation: ≥ 20%, Reduction of area: ≥ 30%
- Delivery status: Hot-processed state (R)/cold-processed state (Y)/annealed state (M), determined according to customer needs
- Surface treatment: machine polishing, grinding polishing, sandblasting

Ti-0.2Pd Bar Packaging & Shipping

Packaging Solutions:

Each titanium bar is individually wrapped in anti-rust paper to ensure protection from corrosion during transit.

Plastic caps are applied at both ends of the bar to prevent physical damage.

The bars are secured on wooden pallets and separated with anti-slip mats for stability.

Waterproof plastic film is used to wrap the bars, which are secured with steel straps to prevent damage during transport.

Each package is clearly labeled with material type, batch number, dimensions, and other relevant information.

Shipping Assurance:

Factory Test Certificates (MTC) are provided with every shipment.

FOB/CIF shipping terms are available for major ports worldwide.

Airfreight services are available for urgent orders to ensure timely delivery.

We assist with customs clearance and provide all necessary documentation upon arrival.

Grade 7 Titanium Bar Stock Availability & Sample Orders

We offer small-batch sample orders, with authentic material and certificates of compliance.

Standard sizes are available in stock, and specific stock information can be provided upon request.

FAQs

1. How can I get Grade 7 Titanium Bar Free Sample or a Quote ?

Contact us via our website, email, or phone with your product specifications (such as grade, dimensions, processing, and surface treatment requirements). We will arrange free samples (small size, shipping cost borne by the customer) and provide a detailed quote based on your specifications.
2. Do you have Grade 7 Titanium Rods stock?

We stock certain standard sizes, but since Grade 7 is commonly used in customized applications, most orders are produced based on customer drawings and specifications. Contact our sales team for availability or to place a sample order.
3. What are the main advantages of Grade 7 compared to Grade 2 Titanium Bar ?

Grade 7 offers significantly better corrosion resistance, especially in reducing acids and environments with high chloride concentrations. The palladium addition enhances resistance to crevice and pitting corrosion. While it has a higher cost, its longer service life and lower maintenance costs provide greater overall economic benefits in challenging environments.
4. Do you offer customized Grade 7 Titanium Rod?

Yes. We provide a full range of machining services, from cutting to rough turning and fine grinding, for both standard and custom-sized bars. This helps customers save time and reduce overall costs. Please provide your drawings for evaluation and quoting.

Why Choose Us for Your Ti-0.2Pd Bar Needs?

- **Source Manufacturer:** We control the entire process from smelting to forging and machining, ensuring the highest quality and competitive pricing.
- **Reliable Quality:** Our products comply with international standards, and we provide complete traceability documentation for all shipments.
- **Flexible Services:** We support small-batch customization, sample orders, and a variety of machining services tailored to your specific requirements.

For more information or to place an order, please contact us today.