

Grade 6 Titanium Bar

Grade 6 titanium, also known as Ti-5Al-2.5Sn, is an alloy that strengthens titanium through the addition of aluminum (Al) and tin (Sn). Renowned for its excellent high-temperature strength, microstructure stability, and weldability, Grade 6 titanium is perfect for applications in demanding environments.

Key Benefits of Ti-5Al-2.5Sn Bar:

- **High-Temperature Strength:** Ideal for use in environments with operating temperatures ranging from 300°C to 480°C.
- **Low-Temperature Toughness:** Maintains excellent toughness even in low-temperature environments.
- **Corrosion Resistance:** Resists a wide range of corrosive agents.
- **Creep Resistance:** Performs well under sustained stress at elevated temperatures.

At Baoji Zecheng Metal Materials Co., Ltd., our Grade 6 titanium alloy bars are specifically engineered to meet the rigorous requirements of industries like aerospace, military, and chemical manufacturing.

Ti-5Al-2.5Sn Bar Product Specifications

Item	Grade 6 Titanium Bar (UNS R54520)
Chemical Composition	Ti: balance, Al: 4.0–6.0%, Sn: 2.0–3.0%, N ≤ 0.03%, C ≤ 0.08% H ≤ 0.015%, Fe ≤ 0.50%, O ≤ 0.20%
Tensile Strength	Min 828 MPa (120 ksi)
Yield Strength	Min 795 MPa (115 ksi)
Elongation	Min 10%
Common Forms Available	Bars (Round, Square, Hexagonal) Wires, Forgings, Plates or Sheet Castings
Standards	ASTM B348, AMS 4926, AMS 4910, AMS 4924, etc
Core Features	High-temperature stability Excellent weldability

Item	Grade 6 Titanium Bar (UNS R54520)
	High strength-to-weight ratio Exceptional corrosion resistance Creep resistance
Size Range	Diameter: 6 mm to 450 mm Length: Up to 6000 mm (Customizable)

When to Choose Grade 6 Titanium Bar:

If your application involves temperatures above 300°C and requires excellent weldability and long-term microstructure stability, Grade 6 titanium is the optimal choice.

- For applications that prioritize maximum strength at room temperature, consider Ti-6Al-4V (Grade 5).
- For highly reducing environments, Ti-0.2Pd (Grade 7) may be more appropriate.

When procuring, please specify your required dimensions, applicable standards, and any necessary quality assurance documents (e.g., material certificates) to ensure you get the product best suited for your needs.

Contact Us:

If you're interested in our Grade 6 titanium or other titanium alloys, feel free to get in touch with us. We're here to help you find the best solutions for your requirements.

- Phone: +8613809172622
- Email for Quote: info@zctitanium.com
- Technical Support: wanggang@zctitanium.com