

AMS 4928 Titanium Bar

Material Code: Ti-6Al-4V (Equivalent to Grade 5, TC4)

Standard: AMS 4928

Available Shapes: Round Bar, Rectangular Bar, Square Bar, Flat Bar, Hexagonal Bar, Octagonal Bar

Certificates: ISO 9001 & AS9100

Delivery Time: Typically 2-4 weeks

Our company's AMS 4928 Titanium Bar is suitable for Grade 5 titanium alloy bars with a diameter or minimum distance across flats not exceeding 10.000 in. (254.00 mm), usually used for parts with a maximum working temperature range of 750~900 ° F (399~510 ° C) and requiring medium strength (the working temperature range depends on the working time of the annealed product at the working temperature).

The products provided by our company are usually supplied in the annealed state. In order to ensure the quality and performance of the products, the raw materials undergo multiple smelting and strict quality control during the production process, including ultrasonic testing and other means.

What is AMS 4928 Ti-6Al-4V Titanium Bar used for?

AMS 4928 Ti-6Al-4V titanium alloy bars are specifically designed for the aerospace and aviation industries. This material is particularly suitable for critical components and structures operating in extreme environments, such as aircraft engine parts and spacecraft structural components.

AMS 4928 Titanium Rod Chemical Composition

Element	Minimum Value	Maximum Value
Al	5.50	6.75
V	3.50	4.50
Fe	-	0.30
O	-	0.20
C	-	0.08
N	-	0.05 (500 ppm)
H	-	0.0125 (125 ppm)
Y	-	0.005 (50 ppm)
Other, each	-	0.10
Total, other	-	0.40
Ti	Balance	

Mechanical Properties of AMS 4928 Ti-6Al-4V Titanium Bar

Nominal Diameter or Minimum Distance Between Sides	Tensile Strength (ksi)	0.2% Yield Strength (ksi)	Elongation (in. 4D) (%)	Reduction of Area (%)
≤ 2.000	135	125	10	25
> 2.000 to ≤ 4.000	130	120	10	25
> 4.000 to ≤ 6.000	130	120	10	20
> 6.000 to ≤ 10.000	130	119	10	20

1. Density: ~4.43 g/cm³

2. Melting Point: $1668 \pm 4^{\circ} \text{C}$
3. Modulus of Elasticity: $\sim 110 \text{ GPa}$
4. Thermal Conductivity: $\sim 6.7 \text{ W/(m} \cdot \text{K)}$ at room temperature
5. Supply condition: Annealed state
6. Minimum order quantity: Depends on specifications and stock availability, negotiable
7. Packaging: Export standard wooden crates, rust-proof treatment, clearly labeled
8. Payment method: Telegraphic Transfer (T/T), specific terms to be negotiated based on order amount and cooperation history

AMS 4928 Titanium Rod Surface Treatments

We provide various surface treatments for our AMS 4928 titanium rods, including:

- Mechanical Polishing
- Grinding Polishing
- Sandblasting

With a surface finish/roughness Ra value $\leq 3.2 \mu\text{m}$, we can also offer custom surface treatments to meet your exact specifications.

AMS 4928 Titanium Bar Quality Assurance

As an authorized supplier of AMS 4928 titanium alloy bars, we ensure every batch undergoes thorough quality testing:

- Mechanical Property Test Reports
- Non-Destructive Testing Reports (Including ultrasonic testing for internal defects)
- Factory Test Reports (MTR)
- Third-Party Inspection Reports

We ensure our products meet or exceed AMS 4928 specifications.

Frequently Asked Questions

1. How can I request a sample of AMS 4928 Ti-6Al-4V Titanium Bar?

We provide samples before order confirmation to help verify the product. Contact our sales team with your requirements, and we will assist you with the process.

2. Can I customize AMS 4928 Titanium Alloy Bars?

Yes! We offer a wide range of customization options, including dimensions, shapes, and surface finishes. Let our sales team know your exact needs, and we will tailor the product to your specifications.

3. How can I buy AMS 4928 Ti-6Al-4V Titanium Bar at a discounted price?

We offer competitive pricing for bulk orders and additional discounts for long-term customers. Contact us via info@zctitanium.com for more information or to place an order.

Why choose AMS 4928 titanium alloy bars?

- High strength and lightweight
- Excellent high-temperature stability
- Flexible customization services
- Authoritative certification and traceability