

Standard: ASTM B348、ASTM F67、ISO5832-2

Material: Titanium

Purity: $\geq 99.5\%$

Diameter: $\phi 6\text{mm}-\phi 600\text{mm}$

Length: Customized based on customer needs

Origin: Baoji, China

Payment: T/T

Grade 1 Pure Titanium Rod

At Baoji Zecheng Metal Materials Co., Ltd., we ensure that every **Grade 1 titanium rod** possesses uniform and stable mechanical properties and precise chemical composition through advanced cold working and heat treatment processes.

To meet the diverse needs of our global customers, we offer a wide range of **Grade 1 pure titanium rods** in various specifications and sizes, from small rods with diameters of a few millimeters to large rods with diameters of several hundred millimeters. We also provide **custom titanium rods**, including cutting, processing, and surface treatment according to your specific requirements, ensuring that each titanium rod perfectly suits your application environment, whether in the chemical industry, marine engineering, or medical device field.

Why Choose **Grade 1 Titanium Rod**?

Highest purity – extremely low impurity content, while still possessing excellent corrosion resistance and superior biocompatibility.

Excellent machinability – easily stretched, bent, and processed into complex shapes, making it particularly suitable for medical and precision equipment manufacturing.

Outstanding corrosion resistance – performs exceptionally well in strong acid, strong alkali, and oxidizing environments.

Wide range of applications – suitable for various fields, including medical devices, chemical equipment, and even marine environments.

Product Name	Grade 1 pure titanium rod , Grade 1 pure titanium bar
Brand	Zecheng metal
Technology	Forged, Rolled
Shape	Grade 1 titanium round bars, Grade 1 titanium square bars, Grade 1 titanium flat bars, Grade 1 titanium hollow bars, or other shapes.
Finish	Machine Polishing, Grinding Polishing, Sandblasting
Delivery time	Standard sizes: ready to ship in 7 to 15 business days Special customization: takes about one month to ship.
Application	Petrochemical industry, Marine industry, Medical industry
Condition	Hot-worked, Cold-worked, Forged, Annealed, or Stress-relieved condition

GR1 titanium rod shipping information

Quality Certification: ISO9001 & AS9100	Packaging: Moisture-proof bags + export-specific wooden crates
Transportation: Sea freight, Air freight	Trade Terms: EXW, FOB, CIF, FCA

Weight: Subject to actual weighing before shipment	MOQ: 50kg (Minimum order quantity may vary for different product specifications)
Shipping Insurance: Available upon customer request	Quality Control: All products undergo strict quality checks before shipment to ensure compliance with international standards

Chemical composition of GR1 titanium rod

C (Max)	O (Max)	N (Max)	H (Max)	Fe (Max)	Other Elements (Max Each)	Other Elements (Max Total)	Ti
0.08	0.18	0.03	0.015	0.20	0.1	0.4	balance

Tensile Requirements of Ti grade1 bars

Tensile Strength, min		Yield Strength(0.2% Offset) min or range		Elongation in 4D, min, %	Reduction of Area, min %
ksi	MPa	ksi	MPa	24	30
35	240	20	138		

Equivalent Grades

ASTM Standard	China Standard	Russian Standard	DIN Standard	UNS Standard
Grade1	TA1	BT1-00	3.7025	R50250

Titanium bar quality certification

titanium bar packaging

GR1 titanium bar manufacturing process

FAQ About Grade 1 Titanium Rod

What customization options are available for Gr1 titanium bars?

We offer a wide range of customization options including dimensions, shapes, surface treatments, and more to ensure the product perfectly matches your application needs.

What other grades of titanium rods do you offer?

In addition to Gr1 titanium rods, we offer a variety of titanium grades such as Gr 2, Gr 3, Gr 4, Gr 7, Gr 11, and alloy grades like Gr 5, Gr 9, Gr 12, and Gr 23. Visit our titanium rod product page for detailed information.

Does surface treatment affect the mechanical properties of Gr1 titanium bars?

Proper surface treatments will not affect the mechanical properties of titanium rods. In fact, they can enhance corrosion resistance and aesthetic quality. We recommend selecting the surface treatment based on your application needs.