

## **ABOUT US**

Based on the two manufactures, Baoji Tian Gang Titanium Co.,Ltd (founded in 1998) and Baoji Tai Yuan Non-ferrous Metal Co.,Ltd (founded in 2008), Baoji Reacto Titanium Co.,Ltd was established to export titanium and other non-ferrous metal products world wide.

Baoji Tian Gang Titanium Co.,Ltd is specialized in the production of titanium bars, include round bars, square bars, flat bars and hexagonal bars. Since 1998, we have possessed a rolling machine. In the following years, we purchased straightener, grinder, peeling machine and sand-blasting machine. Now we have grown into an enterprise who have the ability to meet any needs of titanium bars from the customers.

In 2008, Baoji Tai Yuan Non-ferrous Metal Co.,Ltd was established. Since then, the production of titanium wire have been brought into our system. The factory owns drawing machine, straightener, peeling machine, annealing furnace and coiling machine. We could supply customers with wire in coil, straight wire and wire in spool. The surface could be acid pickled, peeled and polished.

Reacto was founded to export titanium and other non-ferrous metal products world wide. Till now, our products have been accepted in America, Japan, Germany, South Korea, Canada, Southeast Asia, etc. Besides titanium bars and wire, fasteners and machining parts account for a large proportion of our main products. We have cooperated with 4 factories (JHY Titanium, Precision Titanium, Tongye Titanium, Huahao Titanium)who specialize in the business of titanium fasteners and machining parts for almost 5 years. So we have the ability to satisfy your special and different needs.

1998年に設立した天罡チタン社と2008年に設立した泰園チタン社をもとに、海外への営業拡大に伴い、宝鷄リアクトチタン有限公司を新たに設立しております。

天罡チタンとしては、メインにチタン棒材をつくる工場です。丸棒・四角棒・フラット棒・六角棒等はラインナップされています。二十年以上のチタン棒材の生産経験を有しているので、業界では高く評価を頂いています。ここ数年、生産設備の強化及び生産工程の改善によって、より良く棒材を提供させていただきます。

経済不況の2008年に、製品システムを豊にするために、チタン線材を作製する泰園チタンを設立しました。最初の二台設備から、完備する生産ラインを立ち上げております。国内をはじめ、地元の貿易会社に経由し、世界各国へ線材を納品しております。

弊社は新たにできたものですが、米国・日本・ドイツ・韓国などの国々のお客様に認めて頂き、定期注文を頂いています。チタン棒材と線材のほかに、チタンボルトナット及び図面加工品も、弊社の強みとなっております。地元の優良企業と連携し、より良く製品を作製しております。

チタンにつきまして、何かありましたら、微力ながら、全力にてサポートをさせていただきます。

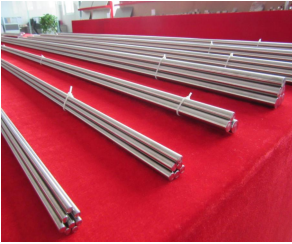
## **ABOUT ROD/BAR**

As a manufacturer, we offer both pure titanium and titanium alloy rods.

Due to its good corrosion resistance, high strength, non-magnetic, excellent ductility, and formability, titanium rods could be used in many fields, such as aerospace, industry, chemical. surgical implant, ocean industry, medical, etc.

We offer grades includes GR1, GR2, GR3, GR4, GR5, GR6, GR7, GR9, GR12, GR23, Medical use Titanium, Aerospace use Titanium Alloy, which are in stock or with short lead time.

## **DETAILS**



Round Bar

**GR1 Bar:** Unalloy titanium, offering excellent ductility, cold formability, capable of drawing, and high corrosion resistance.

Size: dia6.0mm - 200mm

Standard: ASTM B348, ASME SB348, ASTM F67, ISO

### **Chemical Requirements**

Composition	Ti	Fe	C	N	O	H
GR1	Balance	0.2	0.08	0.03	0.15	0.015

### **Tensile Requirements**

Properties	Tensile Strength min		Yield Strength (0.2% Offset) min or range		Elongation in 4D,min%	Reduction of Area min%
	Ksi	MPa	Ksi	MPa		
GR1	35	240	20	138	24	30



Round Bar

**GR2 Bar:** Unalloy titanium gr2 holds a great balance between strength and ductility, with high corrosion resistance.

Size: dia6.0mm - 200mm

Standard: ASTM B348, ASME SB348, ASTM F67, ISO

### **Chemical Requirements**

Composition	Ti	Fe	C	N	O	H
GR2	Balance	0.3	0.08	0.03	0.25	0.015

### **Tensile Requirements**

Properties	Tensile Strength min		Yield Strength (0.2% Offset) min or range		Elongation in 4D,min%	Reduction of Area min%
	Ksi	MPa	Ksi	MPa		
GR2	50	345	40	275	20	30



Round Bar

**GR3 Bar:** Unalloy titanium gr3 offers improved strength with moderate ductility.

Size: dia6.0mm - 200mm

Standard: ASTM B348, ASME SB348, ASTM F67, ISO

### **Chemical Requirements**

Composition	Ti	Fe	C	N	O	H
GR3	Balance	0.3	0.08	0.05	0.35	0.015

### Tensile Requirements

Properties	Tensile Strength min		Yield Strength (0.2% Offset) min or range		Elongation in 4D,min%	Reduction of Area min%
	Ksi	MPa	Ksi	MPa		
GR3	65	450	55	380	18	30



Round Bar

**GR4** Bar: Unalloy titanium gr4 offers improved strength with moderate ductility.

Size: dia6.0mm - 200mm

Standard: ASTM B348, ASME SB348, ASTM F67, ISO

### Chemical Requirements

Composition	Ti	Fe	C	N	O	H
GR4	Balance	0.5	0.08	0.05	0.4	0.015

### Tensile Requirements

Properties	Tensile Strength min		Yield Strength (0.2% Offset) min or range		Elongation in 4D,min%	Reduction of Area min%
	Ksi	MPa	Ksi	MPa		
GR4	80	550	70	483	15	25



Round Bar

**GR5** Bar: Alloyed with 6% aluminum and 4% vanadium gr5 titanium is the most widely used titanium alloyed material, due to its light weight and high strength.

Size: dia6.0mm - 200mm

Standard: ASTM B348, ASME SB348, ASTM F67, ISO

### Chemical Requirements

Composition	Ti	Fe	C	N	O	H	AL	V
GR5	Balance	0.4	0.08	0.05	0.2	0.015	5.5-6.75	3.5-4.5

### Tensile Requirements

Properties	Tensile Strength min		Yield Strength (0.2% Offset) min or range		Elongation in 4D,min%	Reduction of Area min%
	Ksi	MPa	Ksi	MPa		
GR5	130	895	120	828	10	25



#### Round Bar

**GR7 Bar:** Alloyed with 0.8% palladium gr7 titanium has improved resistance to corrosion and high temperature.

Size: dia6.0mm - 200mm

Standard: ASTM B348, ASME SB348, ASTM F67, ISO

#### Chemical Requirements

Composition	Ti	Fe	C	N	O	H	Pd
GR7	Balance	0.3	0.08	0.03	0.25	0.015	0.12-0.25

#### Tensile Requirements

Properties	Tensile Strength min		Yield Strength (0.2% Offset) min or range		Elongation in 4D,min%	Reduction of Area min%
	Ksi	MPa	Ksi	MPa		
GR7	50	345	40	275	20	30



#### Round Bar

**GR9 Bar:** Alloyed with 0.3% molybdenum and 0.8% nickel titanium gr9 has superior corrosion resistance and abrasion resistance.

Size: dia6.0mm - 200mm

Standard: ASTM B348, ASME SB348, ASTM F67, ISO

#### Chemical Requirements

Composition	Ti	Fe	C	N	O	H	Mo	Ni
GR9	Balance	0.25	0.08	0.03	0.15	0.015	0.2-0.4	0.6-0.9

#### Tensile Requirements

Properties	Tensile Strength min		Yield Strength (0.2% Offset) min or range		Elongation in 4D,min%	Reduction of Area min%
	Ksi	MPa	Ksi	MPa		
GR9	70	483	50	345	18	25



#### Round Bar

**GR12 Bar:** Alloyed with 3% aluminum and 2.5% vanadium gr12 titanium offers high resistance to pressure. The material has good ductility and toughness is widely used on bike frame. Cold-working and weldability are better than Gr5.

Size: dia6.0mm - 200mm

Standard: ASTM B348, ASME SB348, ASTM F67, ISO

#### Chemical Requirements

Composition	Ti	Fe	C	N	O	H	AL	V
GR12	Balance	0.25	0.08	0.03	0.15	0.015	2.5-3.5	2.0-3.0

#### Tensile Requirements

Properties	Tensile Strength min		Yield Strength (0.2% Offset) min or range		Elongation in 4D,min%	Reduction of Area min%
	Ksi	MPa	Ksi	MPa		
GR12	90	620	70	483	15	25



#### Round Bar

**GR23 Bar:** The material Gr23 is a modification alpha plus beta titanium alloy of Gr5, by reducing the content of interstitial elements, also named Gr5ELI. It offers improved toughness and resistance to low temperature.

Size: dia6.0mm - 200mm

Standard: ASTM B348, ASME SB348, ASTM F67, ISO

#### Chemical Requirements

Composition	Ti	Fe	C	N	O	H	AL	V
GR23	Balance	0.25	0.08	0.03	0.13	0.0125	5.5-6.5	3.5-4.5

#### Tensile Requirements

Properties	Tensile Strength min		Yield Strength (0.2% Offset) min or range		Elongation in 4D,min%	Reduction of Area min%
	Ksi	MPa	Ksi	MPa		
GR23	120	828	110	759	10	15



#### Round Bar

Material: **Medical use titanium bars, Aerospace material.**

Ti-6Al-7Nb, Ti-5Al-2.5Sn, Ti-8Al-1Mo-1V, Ti-6Al-2Sn-4Zr-2Mo

Size: dia6.0mm - 200mm

Standard: ASTM F67, ASTM F136, AMS4928, ISO5832-2



#### Round Bar

Material: Nickel, Tungsten, Molybdenum, Tantalum, Zirconium, Niobium

Size: dia6.0mm - 200mm

Standard: ASTM F67, ASTM F136, AMS4928, ISO5832-2



#### Flat Bar

Material: Titanium, Molybdenum, Nickel, Niobium, Tantalum, Zirconium, Wolfram

Grade: GR1, GR2, GR3, GR4, GR5, GR7, GR9, GR12, GR23, Ni201, Ni400

Finish: Nature, Blasting, Peeled, Black, Polished





#### Hexgon Bar

Material: Titanium, Molybdenum, Nickel, Niobdeum, Tantalum, Zirconium, Wolfram

Grade: GR1, GR2, GR3, GR4, GR5, GR7, GR9, GR12, GR23, Ni201, Ni400

Size: S7mm-S30mm

Finish: Nature, Blasting, Peeled, Black, Polished



#### Square Bar

Material: Titanium, Molybdenum, Nickel, Niobdeum, Tantalum, Zirconium, Wolfram

Grade: GR1, GR2, GR3, GR4, GR5, GR7, GR9, GR12, GR23, Ni201, Ni400

Size: 6mm \* 6mm / 6.35mm\*6.35mm / 8mm \* 8mm / 10mm \* 10mm / 12mm\*12mm

Finish: Nature, Blasting, Peeled, Black, Polished

## **Contact Us**

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