



宝鸡难熔金属开发公司

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TITANIUM PRODUCTS

✧ Chemical Composition:

Grade	Chemical Composition (Mass Fraction)/% ,≤										Other Impurities		Ti
	N	C	H	Fe	O	Al	V	Pd	Mo	Ni	Each	Total	
Gr1	0.03	0.08	0.015	0.20	0.18	/	/	/	/	/	0.1	0.4	Balance
Gr2	0.03	0.08	0.015	0.30	0.25	/	/	/	/	/	0.1	0.4	Balance
Gr3	0.05	0.08	0.015	0.30	0.35	/	/	/	/	/	0.1	0.4	Balance
Gr4	0.05	0.08	0.015	0.50	0.40	/	/	/	/	/	0.1	0.4	Balance
Gr5	0.05	0.08	0.015	0.40	0.20	5.5~6.75	3.5~4.5	/	/	/	0.1	0.4	Balance
Gr7	0.03	0.08	0.015	0.30	0.25	/	/	0.12~0.25	/	/	0.1	0.4	Balance
Gr9	0.03	0.08	0.015	0.25	0.15	2.5~3.5	2.0~3.0	/	/	/	0.1	0.4	Balance
Gr12	0.03	0.08	0.015	0.30	0.25	/	/	/	0.2~0.4	0.6~0.9	0.1	0.4	Balance

Grade comparison table

ASTM	Gr1	Gr2	Gr3	Gr4	Gr5	Gr7	Gr9	Gr12
GB	TA1	TA2	TA3	TA4	TC4	TA9	TA18	TA10

✧ Products Properties:

- Low-density —4.5g/cm³
- High temperature resistance,Suitable for use in the temperature range -200-1000 °C.
- Excellent resistance to electrochemical corrosion,
suitable for a variety of depth separation and fine filter of acid
- High thermal conductivity, electrical conductivity
- Good strength, good toughness
- Suitable for high-pressure environment
- Welding available and simple machining

● TITANIUM PRODUCTS——Bar/Rod/Wire

✧ Specification:

Description	Diameter (mm)	Length (mm)
Wire	Φ 0.10~Φ 7.00	—
Rod	Φ 7.00~Φ 12.0	50~1500
Bar	Φ 12.0~Φ 20.0	50~1500
	Φ 20.0~Φ 30.0	50~1300
	Φ 30.0~Φ 60.0	50~1000
	Φ 60.0~Φ 70.0	50~800
	> Φ 70.0	50~600

Note:All the products can be supplied in according to customer's requirement.

✧ Tungsten bar(rod) Tolerance:

	Diameter (mm)	Tolerance	
		Hot rolling (mm)	Polishing (mm)
Wire	Φ 0.1~Φ 0.2	—	-0.025
	> Φ 0.2~Φ 0.5	—	-0.04
	> Φ 0.5~Φ 1.0	—	-0.06
	> Φ 1.0~Φ 2.0	—	-0.08
	> Φ 2.0~Φ 4.0	—	-0.10
	> Φ 4.0~Φ 7.0	—	-0.14
Rod	> Φ 7.0~Φ 15	±1.0	±0.3
Bar	> Φ 15~Φ 25	±1.5	±0.4
	> Φ 25~Φ 40	±2.0	±0.5
	> Φ 40~Φ 70	±2.5	±0.6
	> Φ 70	±2%	±1%

Note:Special demands on tolerance available.

● TITANIUM PRODUCTS——Plate/Sheet/Foil

✧ Specification:

Thickness (mm)	Width (mm)	Length (mm)
0.01-0.02	30~100	≥500
>0.03-0.09	50~300	≥500
>0.10-0.30	50~300	≥500
>0.40-0.90	50~500	≥1000
>1.00-2.00	50~500	≥2000
>2.00-4.00	400~1000	1000~3000
>4.00-6.00	400~2000	1000~4000
>6.00~8.00	400~2000	1000~4000
>8.00~20.0	400~3000	1000~4000
>20.0-60.0	400~3000	1000~4000

Note: 1. All the products can be supplied in according to customer's requirement.

2. Foil annealing (m) supply the minimum length for 300m.

✧ Tungsten bar(rod) Tolerance:

Foil Thickness Tolerance

Thickness(mm)	Thickness Tolerance(mm)	
	I	II
0.01-0.02	±0.002	±0.003
>0.03-0.05	±0.003	±0.005
>0.06-0.07	±0.005	±0.007
>0.08-0.09	±0.007	±0.010
>0.10-0.15	±0.010	±0.015
>0.15-0.20	±0.015	±0.020
>0.20-0.30	±0.020	±0.030
>0.40-0.50	±0.040	±0.050
>0.60-0.90	±0.050	±0.070
>1.00-1.50	±0.070	±0.090
>1.60-2.00	±0.100	±0.120

Note: Special demands on tolerance available.

Plate/Sheet Thickness Tolerance

Thickness (mm)	Width (mm)		
	400~1000	1000~2000	>2000
0.3-0.5	±0.05	—	—
>0.5-0.8	±0.07	—	—
>0.8-1.1	±0.09	—	—
>1.1-1.5	±0.11	—	—
>1.5-2.0	±0.15	—	—
>2.0-3.0	±0.18	—	—
>3.0-4.0	±0.22	—	—
>4.0-6.0	±0.35	±0.40	—
>6.0-8.0	±0.40	±0.60	±0.80
>8.0-10.0	±0.50	±0.60	±0.80
>10.0-15.0	±0.70	±0.80	±1.00
>15.0-20.0	±0.70	±0.90	±1.10
>20.0-30.0	±0.90	±1.00	±1.20
>30.0-40.0	±1.10	±1.20	±1.50
>40.0-50.0	±1.20	±1.50	±2.00
>50.0-60.0	±1.60	±2.00	±2.50

Note:Special demands on tolerance available.

Plate/Sheet Width&Length Tolerance

Thickness (mm)	Width (mm)	Width Tolerance(mm)	Length(mm)	Length Tolerance(mm)
0.3-4.0	400~1000	+10 0	1000~3000	+15 0
>4.0-20.0	400~3000	+15 0	1000~4000	+20 0
>20.0-60.0	400~3000	+20 0	1000~4000	+25 0

展示 Products show:

