



宝鸡元大金属有限公司

Bao Ji Yuan Da Metal Co.,Ltd

10F Ronking International Mansion, No.61 Gaoxin Avenue,

High-tech Development Zone, Baoji, Shaanxi, P.R. China

Tel: 0086-917 3315889 Fax: 0086-917 3313889

钽产品

TANTALUM PRODUCTS

TANTALUM

钽产品

Plate/Sheet/Foil

板、片、箔

◇ Products Properties 性能:

—高熔点—2996℃

High melting point—2996℃

—高密度—16.6 g/cm³

High-density —16.6 g/cm³

—具有良好的耐腐蚀性，150℃以下化学性能最稳定，
与盐酸，浓硝酸及王水无反应。

Excellent resistance to electrochemical corrosion, Chemical most stable below 150℃,
No reaction with HCl, HNO₃ and aqua regia.

—延展性强

High Ductility

—热膨胀系数低

Low coefficient of thermal expansion

—易于在室温加工

Easy be machined in the room temperature

—外观：银灰色，光亮表面

Appearance: Grayish silver, bright and smooth

◇ Chemical Composition 化学成分:

化学成分 Chemistry %

牌号 Grade	主成分 Chief component		杂质含量 不大于 Impurities max										
	Ta	Other	Fe	Si	Ni	W	Mo	Ti	Nb	O	C	H	N
Ta1	Remainder		0.004	0.003	0.002	0.004	0.004	0.002	0.03	0.015	0.004	0.001 5	0.002
Ta2.5W	Remainder	W2.0~3.5	0.01	0.005	0.005	—	0.02	0.003	0.05	0.015	0.01	0.002	0.01
Ta10W	Remainder	W9.5~11	0.01	0.005	0.005	—	0.02	0.003	0.05	0.015	0.01	0.002	0.01
TaNb3	Remainder	Nb1.5~3.5	0.03	0.03	0.005	0.04	0.03	0.005	—	0.03	0.02	0.005	0.025

注： Ta1=RO5200 Ta2.5W=RO5252 Ta10W=RO5255

✧ **Mechanical requirements 机械性能:**

牌号 Grade	退火态 Annealed		
	极限抗拉强度最小, 磅/英寸 2 (兆帕) Tensile strength min, psi (MPa)	屈服强度最小, 磅/英寸 2 (兆帕) (2%残余应变) Yield strength min, psi (MPa)(2%)	伸长率, 最小% (1 英寸标距) Elongation min, % (1 inch gage length)
Ta1(RO5200) 厚 Thickness<0.060"(1.524mm) 厚度 Thickness≥0.060"(1.524mm)	30000 (207)	20000 (138)	20
	25000 (172)	15000 (103)	30
Ta2.5W (RO5252) 厚度 Thickness<0.125" (3.175mm) 厚度 Thickness≥0.125" (3.175mm)	40000 (276)	30000 (207)	20
	40000 (276)	22000 (152)	25
Ta10W (RO5255)	70000 (482)	60000 (414)	15
	70000 (482)	55000 (379)	20

✧ **Specification 规格:**

厚度 Thickness (mm)	宽度 Width (mm)	长度 Length (mm)
0.03~0.09	100	—
>0.09-0.50	30~300	50~2000
>0.50-0.80	30~300	50~1000
>0.80-1.00	50~400	50~1000
>1.00-1.50	50~400	50~1000
>1.50-3.00	50~400	50~1000
>3.00-4.00	50~400	50~1000
>4.00-6.00	50~400	50~1000
>6.00	50~400	50~1000

注: 所有产品均可按照客户要求生产
Note: All the products can be supplied in according to customer's requirement.

◇ Tolerance 公差:

厚度 Thickness, inch (mm)	公差 Tolerance, +/-inch (mm)	
	宽度 Width < 6 inch (152.4mm)	宽度 Width < 6~24 inch (152.4~609.6mm)
0.0051~0.010(0.129~0.254)	0.0005 (0.0127)	
0.011~0.015 (0.279~0.381)	0.0007 (0.0178)	0.001(0.0254)
0.016~0.020 (0.406~0.508)	0.0008 (0.0203)	0.0015(0.0381)
0.021~0.030(0.533~0.762)	0.0015 (0.0381)	0.0025(0.0635)
0.031~0.060(0.787~1.524)	0.0025(0.0635)	0.0035(0.0889)
0.061~0.090(1.549~2.286)	0.004 (0.1016)	0.005(0.1270)
0.091~0.125(2.311~3.175)	0.006(0.1524)	0.007(0.1778)
0.126~0.187(3.200~4.750)	0.010(0.2540)	0.010(0.2540)

注：公差要求可根据用户需要调整
Note:Special demands on tolerance available.

