



宝鸡元大金属有限公司

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钽产品

TANTALUM PRODUCTS

◇ Products Properties 性能:

—高熔点—2996℃

High melting point—2996℃

—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

—易于在室温加工

Easy be machined in the room temperature

—高密度—16.6 g/cm³

High-density —16.6 g/cm³

—热膨胀系数低

Low coefficient of thermal expansion

—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	0.0015	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

◇ Specification 规格:

Description 产品名称	Diameter 直径 (mm)	Length 长度(mm)
Wire 丝	Φ0.25~Φ3.200	—
Rod 杆	Φ1.00~Φ12.00	50~2000
Bar 棒	Φ12.00~Φ20.00	50~2000
	Φ20.00~Φ30.00	50~1200
	Φ30.00~Φ60.00	50~1000
	> Φ60.00	50~600
Tube 管	Φ10.00~Φ100.00	<1300

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.

● TANTALUM——Bar/Rod

钽产品——棒、杆

◇ 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 psi (MPa) ≥	屈服强度最小, 磅/英寸 2 (兆帕) Yield strength psi (MPa) ≥	伸长率, 最小% (1 英寸标距) Elongation min, % (1 inch gage length) ≥
Ta1 (RO5200)	25000 (172)	15000 (103)	25
Ta2.5W (RO5252)	40000 (276)	28000 (193)	20
Ta10W (RO5255)	70000 (482)	55000 (379)	20

◇ Tantalum bar(rod) Tolerance 公差:

直径 Diameter (mm)	直径允许公差 Diameter Tolerance	长度 Length	长度允许公差 Length Tolerance
3.0~4.5	±0.05	200~1500	+5
>4.5~6.5	±0.10	200~1500	
>6.5~10.0	±0.15	200~1500	
>10.0~16.0	±0.20	200~1200	+20
>16.0~18.0	±1.00	200~2000	
>18.0~25.0	±1.50	200~2000	
>25.0~40.0	±2.00	200~4000	+20
>40.0~50.0	±2.50	200~3000	
>50.0~65.0	±3.00	200~1500	
>65.0~95.0	±4.00	200~1000	

注: 公差要求可根据用户需要调整

Note: Special demands on tolerance available.

● TANTALUM — Wire
钽产品——丝

◇ Mechanical requirements 机械性能:

牌号 Grade	退火态 Annealed		
	直径, 英寸 (毫米) Diameter, inch (mm)	极限抗拉强度最小, 磅/英寸 ² (兆帕) Tensile strength psi (MPa) ≥	伸长率, 最小% Elongation min, % ≥
Ta1 (RO5200)	0.010(0.254)~0.0149(0.379)	35000 (241)	10
	0.010(0.254)~0.0149(0.379)	35000 (241)	15
	0.025(0.635)~0.124(3.14)	30000 (207)	20
Ta2.5W (RO5252)	0.010(0.254)~0.0149(0.379)	40000 (276)	5
	0.015(0.381)~0.0249(0.633)	40000 (276)	10
	0.025(0.635)~0.124(3.14)	40000 (276)	15
Ta10W (RO5255)	0.010(0.254)~0.0149(0.379)	70000 (482)	5
	0.015(0.381)~0.0249(0.633)	70000 (482)	10
	0.025(0.635)~0.124(3.14)	70000 (482)	15

◇ Tantalum wire Tolerance 公差:

直径 Diameter, inch (mm)	公差 Tolerance, +/-inch (mm)
0.010~0.020 (0.254~0.508)	0.0005 (0.013)
0.020~0.030 (0.508~0.762)	0.00075 (0.019)
0.030~0.060 (0.762~1.524)	0.001 (0.025)
0.060~0.090 (1.524~2.286)	0.0015 (0.038)
0.090~0.125 (2.286~3.175)	0.002 (0.051)
0.125~0.187 (3.175~4.750)	0.003 (0.076)
0.187~0.375 (4.750~9.525)	0.004 (0.102)
0.375~0.500 (9.525~12.70)	0.005 (0.127)
0.500~0.625 (12.70~15.88)	0.007 (0.178)
0.625~0.750 (15.88~19.05)	0.008 (0.203)
0.750~1.000 (19.05~25.40)	0.010(0.254)
1.000~1.500 (25.40~38.10)	0.015 (0.381)
1.500~2.000 (38.10~50.80)	0.020 (0.508)
2.000~2.500 (50.80~63.50)	0.030 (0.762)

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

● TANTALUM——Tube
钽产品——管

◇ 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 δbpsi (MPa) ≥	屈服强度最小, 磅/英寸 2 (兆帕) Yield strength δ0.2, psi (MPa) ≥	伸长率, 最小, % 1 英寸(25.4 毫米)标距 Elongation min, % (1"/2" inch gage length) ≥
Ta1 (RO5200)	30000 (207)	20000 (138)	25
Ta2.5W (RO5252)	40000 (276)	28000 (193)	20
Ta10W (RO5255)	70000 (482)	60000 (414)	15

◇ Tantalum tube Tolerance 公差:

外径 Out Diameter	直径允许偏差 Tolerance	长度 Length	长度允许偏差 Length Tolerance
>1-3	±0.04	≥200~1000	+3 0
>3-5	±0.06	≥200~1000	
>5-15	±0.08	≥200~1000	
>15-25	±0.10	≥200~1000	+6 0
>25-35	±0.12	≥1000~3000	
>35-50	±0.15	≥1000~3000	
>50-65	±0.17	≥1000~3000	

注: 1.管材壁厚允许偏差应不超过其名义壁厚的±10%

The tube wall thickness deviation should be allowed to do not exceed the nominal wall thickness of ±10%

2.所有产品均可按照客户要求生产。

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

● TANTALUM PRODUCTS SHOW
钽产品展示

