



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

TUNGSTEN PRODUCTS

◇ Chemical Composition(成分):

钨含量 Tungsten content	其他杂质含量总和 The sum of other elements	各元素含量 Content of each element
≥99.95%	≤0.05%	≤0.01%

◇ Products properties (性能):

- 高熔点—3410℃
High melting point—3410℃
- 高沸点—5927℃
High boiling Point—5927℃
- 高密度—19.3 g/cm³
High-density —19.3 g/cm³
- 内部结构稳定
Internal stable structure
- 优异的导热性
Outstanding thermal conductivity
- 具有耐腐蚀性
Excellent resistance to electrochemical corrosion
- 具有高温氧化性能
Excellent resistance to oxidation at high temperatures



◇ Specification (规格):

Description 产品名称	Diameter 直径 (mm)	Length 长度(mm)
Wire 丝	Φ 0.015~Φ 3.200	—
Rod 杆	Φ 0.800~Φ 12.00	50~2000
Bar 棒	Φ 12.00~Φ 20.00	50~2000
	Φ 20.00~Φ 30.00	50~1200
	Φ 30.00~Φ 60.00	50~1000
	Φ 60.00~Φ 70.00	50~800
	> Φ 70.00	50~600
Tube 管	Φ 30.00~Φ 500.00	<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.

● PURE TUNGSTEN——Bar/Rod

纯钨产品——棒、杆

◇ Range of use (用途):

- For producing tungsten wires,tungsten heater, twisted tungsten wire,negative electrodes,grids, lead side rods wires,supports,and electrodes etc.
- 用于制造钨丝、钨绞丝、阴极、栅极边杆、引出线、支架及电极等。

◇ Surface finish(表面):

- Black surface (黑棒 (杆))
- Alkali cleaning surface (碱洗表面)
- Grinded surface (磨光面)



◇ Tungsten bar(rod) Tolerance (公差):


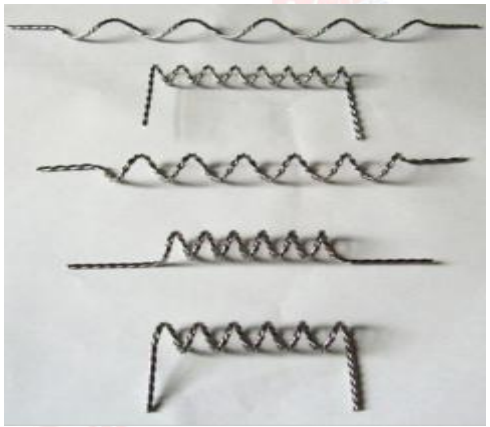
直径 Diameter (mm)	公差 Tolerance	
	锻造黑表面 Black	磨光 Polishing (mm)
Φ0.800~Φ3.000	±2%	±0.03
> Φ3.000~Φ6.500	±2%	±0.05
> Φ6.500~Φ11.00	±2%	±0.10
> Φ11.00~Φ20.00	±2%	±0.30
> Φ20.00~Φ30.00	±2%	±0.50
> Φ30.00~Φ60.00	±2%	±0.70
> Φ60.00~Φ70.00	±2%	±1.0
> Φ70.00	±2%	±1.5

注：公差要求可根据用户需要调整

Note:Special demands on tolerance available.

● PURE TUNGSTEN — Wire
纯钨产品—— 丝

◇ **Range of use (用途) :**

Description	Used	Show
<p>Tungsten wire 钨丝</p>	<p>For producing filaments, heat wires, grids, springs and aluminizing heat coil and etc. Within electric light source parts and electronic appliance components etc. 用于电光源及电子器件中的灯丝、热丝、栅极、弹簧、支架及蒸铝加热线圈等。</p>	
<p>White tungsten wire 白钨丝</p>	<p>Used in electric vacuum vocation, electron tube of electric lamp-house vocation, car lamp series. halogen lamp, special lamp 用于电真空行业、电光源行业生产的电子管、系列汽车灯、卤灯、特殊类灯泡用的灯丝。</p>	
<p>Tungsten heater 钨加热子</p>	<p>Used for electric vacuum part, colorful or black and white kinescope, Aluminum spraying, plastic spraying. 用于电真空器件，彩色、黑白显像管蒸铝以及制镜蒸铝，塑料涂镀等。</p>	

◇ Tungsten wire Tolerance (公差):

直径 (mm) Diameter	200mm 丝段质量 (mg) Mg/200mm wire	200mm 丝段质量偏差 (%) Mg/200mm wire Tolerance			直径偏差 (%) Diameter Tolerance	
		0 级	I 级	II 级	I 级	II 级
$0.015 \leq d \leq 0.018$	0.44~0.98	—	±3.0	±4.0		
$0.018 < d \leq 0.040$	>0.98~4.85	±2.0	±2.5	±3.0		
$0.040 < d \leq 0.080$	>4.85~19.39	±1.5	±2.0	±2.5	—	—
$0.080 < d \leq 0.300$	>19.39~272.71	±1.0	±1.5	±2.0		
$0.300 < d \leq 0.350$	>272.71~371.19		±1.0	±1.5		
$0.350 < d \leq 0.500$	—	—	—	—	±1.5	±2.0
$0.500 < d \leq 1.800$					±1.0	±1.5

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

● TUNGSTEN PARTS——Tube
钨加工件——管

◇ **Range of use (用途) :**

- Used for light, electric device, glass fiber kiln and the heating elements of high temperature furnace components/crucible, etc
- 用于光、电设备，玻璃纤维窑炉、高温炉零件及坩埚加热元件等



◇ **Production process of tungsten tube:**

- Isostatic pressing machine —IF induction sintering —mechanical processing —tungsten tubes
- 等静压成型机—中频感应烧结—机械加工—钨管

◇ **Specification(规格):**

直径 Diameter(mm)	壁厚 Wall Thickness(mm)	长度 Length(mm)
30~50	2~10	<1300
50~100	3~15	
100~150	3~15	
150~200	5~20	
200~300	8~20	
300~400	8~30	
400~450	8~30	
450~500	8~30	

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