



宝鸡难熔金属开发公司

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TUNGSTEN PRODUCTS

❖ Chemical Composition:

Tungsten content	The sum of other elements	Content of each element
≥99.95%	≤0.05%	≤0.01%

❖ Products properties:

—High melting point—3410℃

—High-density —19.3 g/cm³

—Outstanding thermal conductivity

—Excellent resistance to oxidation at high temperatures

—High boiling Point—5927℃

—Internal stable structure

—Excellent resistance to electrochemical corrosion

❖ Specification:

Description	Diameter (mm)	Length (mm)
Wire	Φ 0.015~Φ 3.200	—
Rod	Φ 0.800~Φ 12.00	50~2000
Bar	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	Φ 30.00~Φ 500.00	<1300

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

● PURE TUNGSTEN——Bar/Rod

✧ Range of use:

—For producing tungsten wires,tungsten heater,
twisted tungsten wire,negative electrodes,grids,
lead side rods wires,supports,and electrodes etc.

✧ Surface finish:

—Black surface
—Alkali cleaning surface
—Polished surface



✧ Tolerance:

Diameter (mm)	Tolerance	
	Black	Polishing (mm)
Φ 0.800~Φ 3.000	±2%	±0.03
> Φ 3.000~Φ 6.500	±2%	±0.05
> Φ 6.500~Φ 11.00	±2%	±0.10
> Φ 11.00~Φ 20.00	±2%	±0.30
> Φ 20.00~Φ 30.00	±2%	±0.50
> Φ 30.00~Φ 60.00	±2%	±0.70
> Φ 60.00~Φ 70.00	±2%	±1.0
> Φ 70.00	±2%	±1.5

Note:Special demands on tolerance available.

● PURE TUNGSTEN——Wire

✧ Range of use:

Description	Used	Show
Tungsten wire	Used for electric light and electronic devices in the filament, hot wire, gate, spring, aluminum and steam heating coils.	
White tungsten wire	Used for electric vacuum industry, light industry production of tubes, series of car lights, halogen lights, special type bulb filament.	
Tungsten heater	Used for Vacuum devices, color, black and white picture tube and aluminum mirror steamed steamed aluminum, plastic coating and so on.	

✧ **Tolerance:**

Diameter (mm)	Mg/200mm wire (mg)	Mg/200mm wire Tolerance (%)			Diameter Tolerance (%)	
		0	I	II	I	II
$0.015 \leq d \leq 0.018$	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
$0.500 < d \leq 1.800$		—	—	—	±1.0	±1.5

Note: Special demands on tolerance available.

● TUNGSTEN PARTS——Tube

✧ Range of use:

—Used for light, electric device,
glass fiber kiln and the heating
elements of high temperature
furnace components/crucible,etc



✧ Production process :

—Isostatic pressing machine —IF induction sintering —mechanical processing —tungsten tubes

✧ Specification:

Diameter(mm)	Wall Thickness(mm)	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	

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