



宝鸡难熔金属开发公司

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MOLYBDENUM PRODUCTS

✧ Chemical Composition:

| Brand | Mo | Impurities | Each Element Content | Adding elements |
|-------------------|--------|------------|----------------------|---|
| Mo1 | ≥99.95 | ≤0.05 | ≤0.01 | — |
| RMo1 | ≥99.94 | ≤0.06 | ≤0.02 | — |
| MoTi0.5Zr0.1(TZM) | ≥99.20 | ≤0.11 | ≤0.08 | Ti 0.40~0.55 Zr 0.06~0.12 C 0.01~0.04 |
| Mo3G | ≥99.33 | ≤0.07 | ≤0.01 | La 0.20~0.60 |

✧ Products Properties:

—High melting point—2610℃

—High-density —10.2 g/cm³

—Excellent resistance to electrochemical corrosion

—Good electrical conductivity

—High boiling Point—5560℃

—Uniform grain with densified microstructure

—Low coefficient of thermal expansion

✧ Specification:

| Description | Diameter (mm) | Length (mm) |
|-------------|------------------|-------------|
| Wire | Φ 0.020~Φ 3.200 | — |
| Rod | Φ 0.800~Φ 12.00 | 50~5000 |
| Bar | Φ 12.00~Φ 20.00 | 50~3000 |
| | Φ 20.00~Φ 30.00 | 50~3000 |
| | Φ 30.00~Φ 60.00 | 50~2000 |
| | Φ 60.00~Φ 70.00 | 50~2000 |
| | > Φ 70.00 | 50~1500 |
| Tube | Φ 30.00~Φ 500.00 | <1300 |

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

● MOLYBDENUM—Bar/Rod

✧ **Range of use:** Molybdenum bar is high quality raw

- Hook of the lamp
- Grid for the vacuum tube
- Heater for the high temperature furnace
- Making strip
- Heatproof parts
- Tools for electric vacuum instruments and other tools of the lamp
- Core of the lamp filament
- Leader, supporter of the lamp
- Electrode
- Heaters

✧ **Surface finish:**

- Black surface
- Polished surface
- Grinded surface

✧ **Tolerance:**

| Diameter (mm) | Tolerance (mm) | |
|---------------|----------------|-----------|
| | Black | Polishing |
| Φ0.4~Φ0.6 | ±0.1 | ±0.03 |
| >Φ0.6~Φ2.5 | ±0.15 | ±0.05 |
| >Φ2.5~Φ5.0 | ±0.2 | ±0.10 |
| >Φ5.0~Φ8.0 | ±0.40 | ±0.30 |
| >Φ8.0~Φ16 | ±0.60 | ±0.50 |
| >Φ16~Φ25 | ±0.8 | ±0.70 |
| >Φ25~Φ45 | ±1.5 | ±1.0 |
| >Φ45~Φ55 | ±2.0 | ±1.5 |
| >Φ55~Φ60 | ±2.0 | ±1.5 |
| >Φ60~Φ70 | ±2.0 | ±1.5 |
| >Φ70~Φ75 | ±2.0 | ±1.5 |
| >Φ75~Φ85 | ±3.0 | ±2.0 |
| >Φ85~Φ90 | ±2.0 | ±2.0 |
| >Φ90~Φ100 | ±2.0 | ±2.0 |
| >Φ100~Φ120 | ±4.0 | ±3.0 |

Note: Special demands on tolerance available.



● MOLYBDENUM — Wire

✦ Range of use:

| Description | Used | Show |
|-------------------------|--|---|
| Molybdenum wire | Grid for electron tube, hook and parts for the electric vacuum instruments, support and leader and grid for the high temperature material. |  |
| White Molybdenum wire | Core wire and lead wire and Molybdenum rod for the electric vacuum and lighting fields. |  |
| Molybdenum wire for EDM | Wire-electrode cutting |  |
| Spray Molybdenum wires | Surface spraying for wear and tear parts of truck, such as piston rings, gears and cylinders, etc. |  |

✧ **Tolerance:**

| Diameter (mm) | Mg/200mm wire (mg) | Mg/200mm wire Tolerance (%) | | Diameter Tolerance (%) | |
|-------------------------|-----------------------|--------------------------------|------|---------------------------|------|
| | | I | II | I | II |
| $0.02 \leq d \leq 0.03$ | 0.65~1.47 | ±2.5 | ±3.0 | — | — |
| $0.03 < d \leq 0.04$ | > 1.47~2.61 | ±2.0 | ±3.0 | | |
| $0.04 < d \leq 0.10$ | > 2.61~16.33 | ±1.5 | ±3.0 | | |
| $0.10 < d \leq 0.40$ | > 16.33~256.2 | ±1.5 | ±3.0 | | |
| $0.40 < d \leq 0.60$ | — | — | — | ±1.5 | ±2.5 |
| $0.60 < d \leq 2.5$ | | | | ±1.0 | ±2.0 |
| $2.5 < d \leq 3.2$ | | | | ±1.0 | ±1.5 |

Note: Special demands on tolerance available.

● MOLYBDENUM—Tube

✧ **Range of use:** Widely used in electro-vacuum industries

- Heating pipe
- High-temperature protection tube
- Large pipe used as circular target, molybdenum furnace
- Small molybdenum tubes can be used as equipment spare parts
- High temperature cooling tube

✧ **Production process :**

- Sintered molybdenum tubes: Production of large molybdenum tubes
- Welding molybdenum tubes: Vacuum soldering, production of dimensions are not strict requirements of equipment spare parts
- Drawing-Mo tube: Production of small molybdenum 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.

❖ Products show:

