

# Tungsten & Molybdenum products



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# 1. Brief Introduction

- As a high performance materials, **Pure Tungsten** has high melting temperature, high density, low vapor pressure, low thermal expansion combined with good thermal conductivity, sufficient electrical resistance, high modulus of elasticity. Tungsten sheets and disk are available with alkali washed or ground finish.
- **Molybdenum** sheet, wire, plate and other Mo products exhibit excellent thermal and electrical conductivity and low vapor pressure at elevated temperatures.

## 2. General Applications

- W & Mo wires
- Tungsten Heater
- Tungsten electrode
- Tungsten contact
- W/Mo Sheet/Plate/ Target
- W/Mo bar/rods
- W/Mo Boat/Crucible
- Others

# 3. Applications & pictures



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# W & Mo Wires

- **Tungsten Wire**

Applications for the production of coiled incandescent lamp filaments, cathode and support structures for power tubes, heating elements for high temperature furnaces and evaporation sources in metallizing processes.

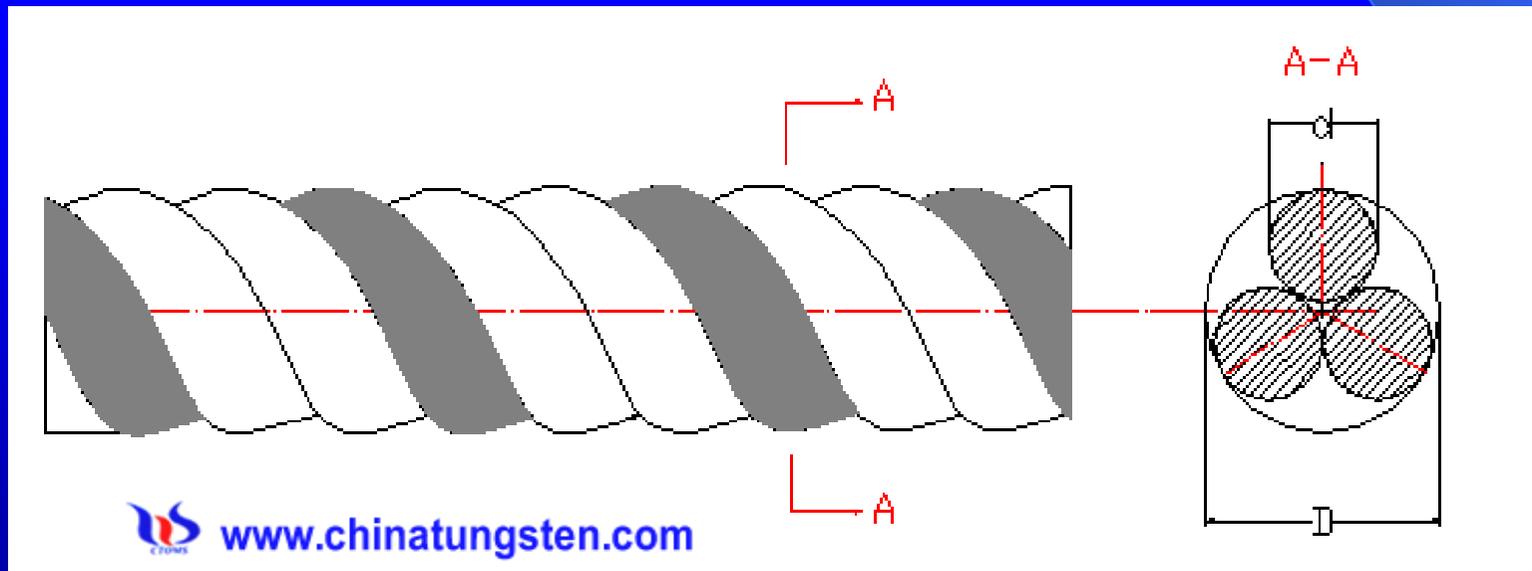


- **Molybdenum Wire**

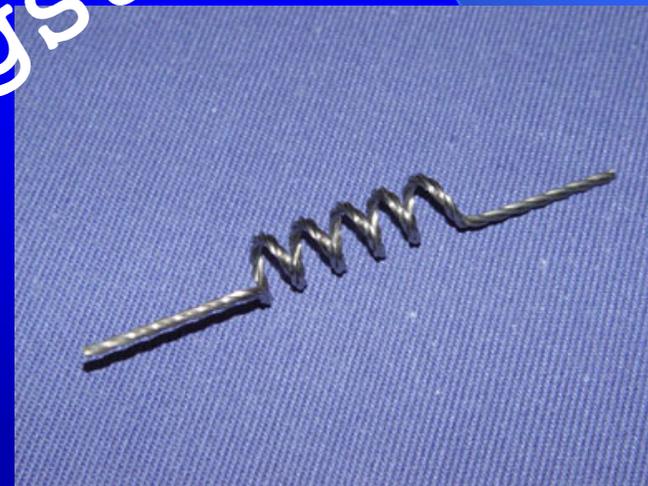
Principally used in the high-temperature field of molybdenum furnace and radio tube outlets

# Tungsten Heater

Tungsten heater made of tungsten wire, features high melting point and high corrosion resistance, mainly applied for vacuum metallizing, such as chrome scope, mirrors, plastics and heater elements for decoration articles.

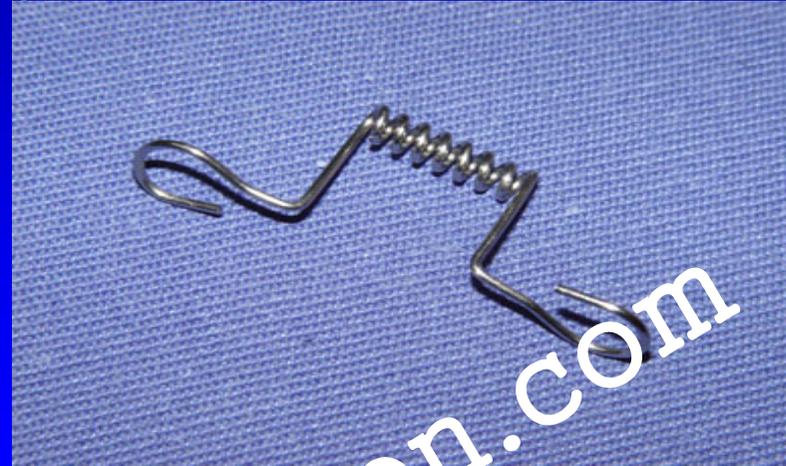
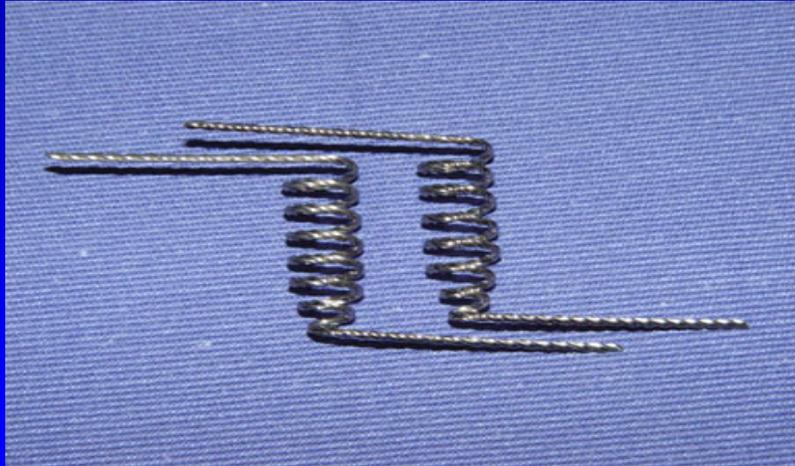


# Tungsten Heater



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# Tungsten Heater



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# Tungsten Electrode

- All kinds of Tungsten electrodes for TIG welding



**(Pure Tungsten Electrode)**



**(Cerium-tungsten Electrode)**



(Thoriated Tungsten Electrode)



(Zirconiated Tungsten Electrode)



(2.0%Lanthanated Tungsten Electrode)



(1.5%Lanthanated Tungsten Electrode)

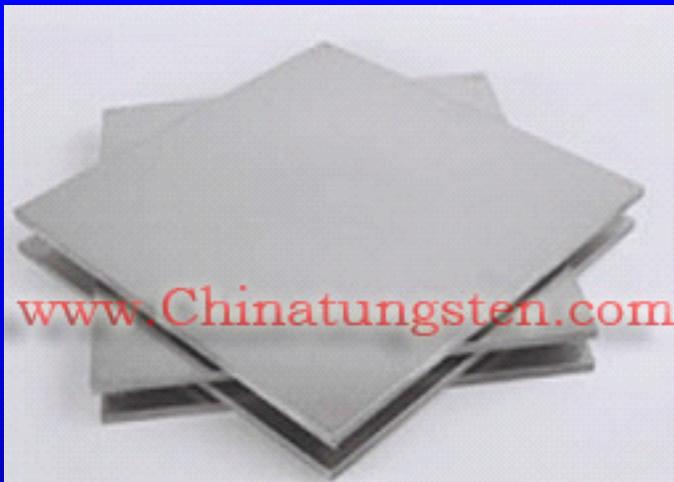
# Tungsten Contact

- Tungsten contacts are principally used in automobile platinum, auto horn, and electric appliance.



# W/Mo Sheet/Plate/ Target

- It is widely used in the construction of furnace tooling and parts and as a feed stock for the fabrication of parts for the electronics and semiconductor industries



(Tungsten Plates)



(Molybdenum Sheet)

# The target plate

The target plate is a flat rectangle of known color and brightness, fixed to the spacecraft so the instruments on the movable scan platform (cameras, infrared instrument, etc.) can point to a predictable target for calibration purposes.



# W/Mo bar/rods

The tungsten rod can be used in making the electricity photo source, the automobile and the tractor light bulb, make lattice side rod, framework, leading wire, electrode, heater and contact materials, etc.



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# W&Mo Needles



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(Molybdenum Pins)

(Tungsten Needles)

# W/Mo Boat/Crucible

- **W/Mo Crucible** are used in growing sapphire, crystal and rare earths industry.
- **W/Mo Boat** are mainly used for sintering and annealing of both Metal and Nonmetal Materials in Reduction Atmosphere, and also as Sintering Boat for powder products, such as sintering precision ceramics.



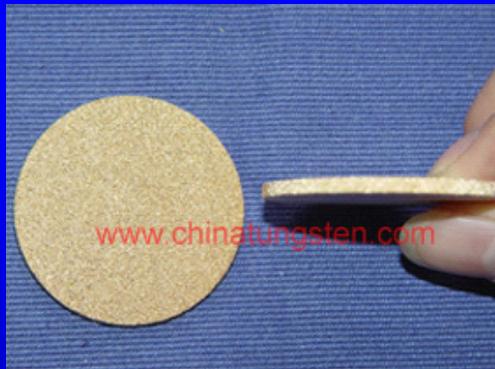
(Tungsten Crucible)



(Molybdenum Boat)

# Sinter Bronze Filter

- It is produce from spherical Bronze Metal Powders of closely controlled particle size to give a rigid porous bronze structure of uniform pore.
- For the Filtration purpose of Liquids & Gases.



# Production Process of Tungsten Heater

