

### Moly (Alloy) products



Appearance: Silver grey with metal luster

Applications: Widely use as lamp wire, spray wire, moly cutting wire and high temperature structure parts and other special electrode material.

#### Pure Moly Round Rod

Code	Density (g/cm <sup>3</sup> )	Size of blanks (mm)	Applications
MYT-2	≥9.5	Ø17 × 380	Apply for lamp wire, moly rolling strip, spray moly wire, moly cutting wire etc.
MYT-3		Ø20 × 380 Ø20 × 400	
			Apply for processing moly pole

#### Pure Moly Square Bar

Code	Density (g/cm <sup>3</sup> )	Grain quantity (↑/mm <sup>2</sup> )	Size of blanks (mm)	Applications
MFT-1	≥9.3	/	17 × 17 × 450	Apply for processing moly electrode bar.
MFT-2		≥1800	20 × 20 × 510	Apply for processing drawing wire, rolling block and rolling strip materials.

#### High Temperature Moly Bar (rod)

Code	Density (g/cm <sup>3</sup> )	Size of blanks (mm)	Applications
MH1 MH1A MH2 MH3	≥9.2	Ø17 × 380 Ø20 × 380 Ø20 × 400	Apply for Moly bar customer specified with different content of lanthanum doping, yttrium doping and silicon/aluminum/potassium doping. Also apply for lamp wire, rolling strip moly wire, moly pole and moly cutting wire.

#### Moly Additive For Steelmaking

Description	Code	Size of blanks (mm)	Applications
moly square bar	MFT-4	17 × 17 × L 20 × 20 × L	Apply for moly additive for steelmaking.
moly plate	MBP-4	12 × 58 × 144 13 × 60 × 152	
moly cutting head	MQT	/	

#### Moly Rod

Code	Density (g/cm <sup>3</sup> )	Mo (%)	Size of blanks (mm)	Applications
MYB-2	≥9.2	≥99.9	Ø75 × 150 Ø80 × L Ø145 × L	Apply for processing big moly electrode rod.

**Moly Plate Blank**

Code	Density (g/cm <sup>3</sup> )	Mo (%)	Size of blanks (mm)	Applications
MBP-2 MBP-3	≥9.50	≥99.95	12×58×144	Apply for rolling processing thyristor by round/thin moly plate and electrode plate.

**Moly Alloy Penetrator (MDT)、TZM Moly Alloy**

Code	Density (g/cm <sup>3</sup> )	Size of blanks (mm)	Applications
MDT	≥9.3	Ø166×340 Ø115×225	Apply for penetrating seamless steel pipe made of stainless steel, high temperature alloy steel material
TZM		Ø17×380 Ø20×(380-400)	Apply high temperature structural part and special electrode material.

**Moly Disc ( MYP2 ) 、 Moly Electrode ( MDJ ) 、 Moly Pipe ( MTG )**

Code	Density (g/cm <sup>3</sup> )	Size of blanks (mm)	Applications
MYP-2	≥9.8	Ø(50-90)×9	Apply for X-ray target material.
MDJ	≥9.7	/	Apply for electric element, high temperature structure part, glass melted electrode.
MTG	≥9.3	Ø(25-300)×L	Apply for electric element and high temperature structure parts.

Note: Above specification (model) and performance can be customer specified.

**Molybdenum pole**

Application: Suitable for all kinds of electrode and heating element

Grade	Material	Grade	Size (mm)	(mm) Diameter Tolerance	Characters
Forged Mo pole	Pure	DMGC	Ø15~5.0	± 0.15	Uniform and good surface
	Doped With La	DMGL			
Straight calibration Mo pole	pure	JMSC	Ø3.0~0.8	± 0.02	Good linear and precise dimension.
	Doped With La	JMSL			
Ground Mo pole	Pure	MMGC	Ø15~5.0	± 0.1	Uniform, good surface and precise dimensions.
	Doped With La	MMGL			

**Spray Moly Wire**

Application: Suitable for the spraying of the surface of wear parts

Material	Grade	Size (mm)	Diameter Tolerance	Characters
pure	PMSC	Ø 3.2~1.45	± 0.02	Good wear resistance and corrosion resistance. Good adhesion with steel material. It's a widely used spray material.

**Moly Wire for Rolling Strip**

Application: Suitable for the rolling of Moly foil strip.

Material	Grade	Size (mm)	Diameter Tolerance	Characters
pure	ZMSC	Ø 4.4~0.3	± 1.5%	Good extension performance, uniform dimension and high rolling productivity.
Doped With La	ZMSL	Ø 4.4~0.3	± 1.5%	

**Moly Wire For Heating**

Application: Suitable for making heating element for electrical oven and magnetron.

Material	Grade	Size (mm)	Diameter Tolerance	Characters
pure	ZMSC	Ø 3.0~1.0	± 0.02	Uniform material, high precise dimension. Low eddy-current test defects.
Doped With La	ZMSL			

**Moly Wire For Cutting**

Application: Suitable for electro-discharges machining.

Material	Grade	Size (mm)	Diameter Tolerance	Characters
Doped With La	QMSL	Ø 0.24~0.20	± 0.004	Doped with rare earth element. High strength, good electric etching. High efficiency and long use life. Special for 2.5A~3A processing current.
		Ø 0.20~0.15	± 0.003	
		Ø 0.15~0.10	± 0.002	

**Moly Wire For Redrawing**

Application : Suitable for redrawing slimmer wire

Material	Grade	Size (mm)	Diameter Tolerance	Characters
pure	LMSC	Ø 0.24~0.3	± 0.02	Big coil (30kg). Good processing performance and stability.
Doped With La	LMSL	Ø 0.20~0.3	± 0.02	

**Moly Wire For Lamp**

Application: Suitable for making filament, supporting wire and lead-out, Widely used in electronic and electronic and electro-lighting industry

Black Moly Wire	Material	Grade	Size (mm)	Diameter Tolerance	Characters
	pure	DMSC	Ø 1.0~0.025	Supporting wire ± 1.5% Filament ± 1.0%	Good extensibility and uniformity. High precise dimension, good for filament.
	Doped with La Dope with Si/Al/K Doped with Yttrium	DMSL DMSK DMSY	Ø 1.0~0.1	Supporting wire ± 1.5% Filament ± 1.0%	Good high temperature performance (over 1500°C recrystallization temperature). Good anti-oxidation, good weldability and high mechanical strength for support material.

White Moly Wire	surface status	Material	Grade	Size (mm)	Diameter Tolerance	Characters
	Common	pure	BMSC	Ø 1.0~0.025	Supporting wire ± 1.5% Filament ± 1.0%	Good extensibility and uniformity. High precise dimension. Mainly used as filament.
	Common Mirror	Doped with La Dope with Si/Al/K Doped with Yttrium	BMSL BMSK BMSY	Ø 1.0~0.1	Supporting wire ± 1.5% Filament ± 1.0%	Good high temperature performance (over 1500°C recrystallization temperature). Good antioxidation, good weldability and high mechanical strength for support material.  Good mirror character white moly wire as a seal joint material with special light source.