

Molybdenum Bar for Wire Drawing

Application: Molybdenum bar is used as raw material for rolling, swaging, and drawing wire.

Features: High purity, excellent electrical & thermal conductivity, high yield of wire drawing.

Appearance: The straightened molybdenum rod is dark grey.

Grade and Application of Molybdenum Bar

Name	Grade	Dimension (mm)		Application
		Diameter	Length	
Pure molybdenum bar	MYT	Ø(15-26)	350-900	Used to produce molybdenum wire in electrical equipment, spraying molybdenum wire, molybdenum wire in conventional lighting, molybdenum strip, etc.
Lanthanum-doped Molybdenum bar	M*L	Ø(15-26)	350-900	Used to produce EDM cutting wire, wire for conventional lighting, heating, high temperature component, etc.
Yttrium-doped Molybdenum bar	M*Y	Ø(15-26)	350-900	Used to produce molybdenum strip.

Remarks: Symbol "*" means the doping content to rare earth elements. "W/D/Z/O" separately stand for "micro content doping/low content doping/middle content doping/high content doping."

Chemical Composition of Molybdenum Bar

Grade	MYT	M*L	M*Y	Analysis (equipment)	
Main content (wt%, ≥)	99.95	99.95	99.95		
Impurities (ppm, ≤)	Fe	50	60	60	ICP
	Ni	30	30	30	
	Cr	-	40	40	
	Al	20	20	20	
	Si	20	20	20	
	Cu	-	20	20	
	Ca	20	20	20	
	Mn	-	-	-	
	Mg	20	20	20	
	W	-	200	200	
	Pb	10	1	1	
	Bi	10	1	1	
	Sn	10	1	1	
	Cd	10	1	1	
	Sb	10	10	10	
	Ti	-	-	-	
	P	10	10	10	Colorimetry
C	50	40	40	C/S analyzer	
N	30	30	30	O/N analyzer	
O	30	-	-		
Doping content (ppm)	-	200-10000	200-10000	ICP	
Standard	GB/T3462 (Mo-1)	ZGCC's specification			

Remarks: The main content is calculated by deducting the impurities content (gas element is excepted).

Physical Property of Molybdenum Bar

Name	Grade	Density (g/cm ³)	Grain Size (pc/mm ²)	Curvature (≤, mm)	Taper (≤, mm)
Pure molybdenum bar	MYT	9.6-10	1200-3000	8	2.0
Lanthanum-doped Molybdenum bar	M*L	9.3-9.9	≤500		
Yttrium-doped Molybdenum bar	M*Y	9.3-9.9	-		

Customer can choose the physical properties and chemical composition according to the requirements and application. We can decide the details after discussion.

Packaging:

Molybdenum powders are packaged in iron drums or carton drums with vacuum sealed. Molybdenum bar is packaged in wooden cases or cartons, with plastic foam inside.

Instruction for Storage:

Molybdenum powders should be stored in a dry, ventilated, acid & alkali free environment to prevent them from moisture, oxidation and corrosion of active chemicals. The storage period should not exceed three months. They should be used in half a month after unpacking. Molybdenum bar should be stored as powders. However, the storage period should not exceed half a year. Molybdenum bar can be brittle. They should be handled carefully during unpacking and moving.

钼杆

Molybdenum Rod >>

>> 产品用途

Application

适用于各类触点、导杆、电极及加热炉元件。
Our high quality molybdenum rod is suitable for various type of contact, lead rod, electrode and heating components.



>> 常用规格

Common specification

牌号 Grade	规格 Size (mm)	偏差 Tolerance (mm)	表面状态 Surface condition		
			拉制态 Drawn	锻制态 Forged	抛光态 Polished
Mo1	1.0≤d≤3.5	±0.05	√	-	√
	4.0≤d≤15.0	±0.15	-	√	√

客户有特殊需求，可协商特供。
Customers' special requirements can be negotiated and customized.

Molybdenum Plate for Sheetng Rolling

Application: Molybdenum plate blank is used as raw material to produce molybdenum sheet by rolling.

Features: High purity, excellent electrical & thermal conductivity, good machining performance, and high yield of rolling.

Appearance: Grey color without any defects, such as cracks and broken edges



Molybdenum Plate Blank

Grade, Size and Application of Molybdenum Plate

Name	Grade	Size		Application
		Thickness (mm)	Unit Weight (Kg)	
Pure molybdenum plate	MBP	20-50	5-40	Used to produce molybdenum wafers, boats, targets, isolation screens for thermal radiation shield, and wrapping sheets.
Lanthanum-doped molybdenum plate	MHP	20-50	5-40	Used to produce molybdenum boats and isolation screens for thermal radiation shield.

Chemical Composition of Molybdenum Plate

Grade	MBP	MHP	Analysis (equipment)	
Main content (wt%, ≥)	99.95	99.95		
Impurities (ppm, ≤)	Fe	50	50	ICP
	Ni	30	30	
	Cr	30	30	
	Al	20	20	
	Si	20	20	
	Cu	20	20	
	Ca	20	20	
	Mn	-	-	
	Mg	20	20	
	W	200	200	
	Pb	1	1	
	Bi	1	1	
	Sn	1	1	
	Cd	1	1	
	Sb	10	10	
	Ti	-	-	
	P	10	10	
C	30	30	C/S analyzer	
N	30	30	O/N analyzer	
O	30	-		
Doping content (ppm)	-	200-10000	ICP	
Standard	GB/T3462	ZGCC's specification		
Remarks: The main content is calculated by deducting the impurities content (gas element is excepted).				

Physical Property of Molybdenum Plate

Name	Grade	Density (g/cm ³)	Grain Size ($\mu\text{c}/\text{mm}^2$)	Application
Pure molybdenum plate	MBP	9.7-10	1200-3000	The curvature should not exceed 8mm, the thickness and width tolerance of both ends should not exceed 2mm and 5mm, respectively.
Lanthanum-doped molybdenum plate	MHP	9.7-10	Actual value (normally 2000-6000)	

Customer can choose the physical properties and chemical composition according to the requirements and application. We can decide the details after discussion.

Packaging:

Molybdenum powders are packaged in iron drums or carton drums with vacuum sealed plastic bags. Molybdenum plates are packaged in wooden cases or cartons, with plastic foam.

Instruction for Storage:

Molybdenum powders should be stored in a dry, ventilated, acid & alkali free environment to prevent them from moisture, oxidation and corrosion of active chemicals. The storage period should not exceed three months. They should be used in half a month after unpacking. Molybdenum bar should be stored as powders. However, the storage period should not exceed half a year. Molybdenum plate can be brittle. They should be handled carefully during unpacking and moving.