

Molybdenum Wire



READING REFERENCE

- Molybdenum wire for WEDM
- Molybdenum wire for lighting
- Molybdenum wire for electrical equipment
- Molybdenum wire for spraying
- Molybdenum rod



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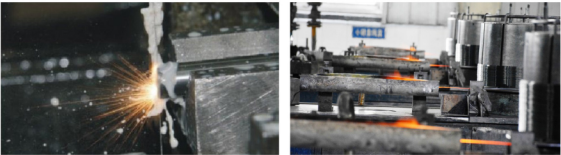
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Molybdenum wire for WEDM »



» Application

Our property improving molybdenum wire is mainly used as electrode wire for high-speed wire electrical discharging machining, suitable to machine conductive material such as the ferrous metal, the common machinable products, the magnetic material and non-ferrous metal.

» Chemical Composition

Code	Main content	Impurity (ppm, max. value)								
	Mo	W	Al	Ca	Mg	Fe	Ni	Si	C	N
MoLa	≥99.5%	200	20	20	10	50	20	20	40	30

» Specification and Technical Standards

Table 1 Specification and technical standards for black wire

Diameter (mm)	Tolerance	Tensile strength (N/mm ²)	Length per spool (m)
0.25	±2%	≥1800	≥800
0.20	±2%	≥1900	2000
0.18	±2%	≥2000	2400, 2000
0.16	±2%	≥2100	3000

Table 2 Specification and technical standards for cleaned wire

Diameter		Tolerance	Tensile strength (N/mm ²)
mm	inch		
0.305	0.012	±2%	≥1600
0.254	0.010	±2%	≥1700
0.203	0.008	±2%	≥1800
0.178	0.007	±2%	≥1900
0.152	0.006	±2%	≥2000

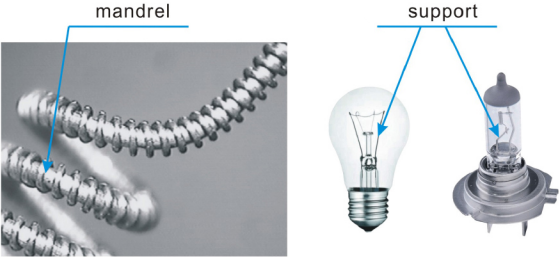
■ Customers' special requirements can be negotiated and customized.

Molybdenum wire for Lamps »



» Application

Our various property enhancement molybdenum wire is widely used for high temperature components of lamp, just like mandrel wire, molybdenum foil, support wire, lamp base, lead wire for electrodes and the others.



Code	Application
MoI	It is suitable for making mandrel wires for fluorescent lamps, support wires for incandescent lamps, etc.
MoLa (WL)	A certain content of lanthanum oxide is doped in, suitable for making mandrel wires and support wires in incandescent and halogen lamps.
MoLa (ZL)	The initial re-crystallization temperature of product is improved to above 1600° C due to a certain content of lanthanum oxide is doped in, which is suitable for making base wire and lead wire in halogen lamp, etc.
MoY	A certain content of yttrium oxide is added in, the re-crystallization temperature is improved to above 1500° C, which help the product to achieve good processing ductility, good adhesiveness to quartz, be suitable for making molybdenum foil.

» Chemical Composition

Code	Main content	Impurity (ppm, max. value)								
	Mo	W	Al	Ca	Mg	Fe	Ni	Si	C	N
MoI	≥99.95%	200	20	20	10	50	20	20	40	30
MoLa (WL)	≥99.90%	200	20	20	10	50	20	20	40	30
MoLa (ZL)	≥99.50%	200	20	20	10	50	20	20	40	30
MoY	≥99.30%	200	20	20	10	50	20	20	40	30

» Specification and tolerance

Size (mm)	Diameter tolerance		Weight in mass (kg/200mm)	Tolerance of weight in mass	
	Class I	Class II		Class 0	Class I
0.03<d≤0.10	— —	— —	1.47-16.33	±1.5%	±2.0%
0.10<d≤0.40	±0.5%	±0.75%	16.33-144.0	±1.0%	±1.5%
0.40<d≤0.70	±1.5%	±2.0%	— —	— —	— —
0.70<d≤5.00	±1.0%	±1.5%	— —	— —	— —

Two kinds of surface condition can be selected, black with graphite coat or cleaned white.
Our 0.9mm molybdenum wires are available to downstream manufacturers for redrawing.
Customers' special requirements can be negotiated and customized.

» Wire spool typece

Type	material	A	B	C	D	E
60#	ABS	10	40	60	20	28
108#	ABS	14	74	108	27	35
119#	ABS	10.2	104	119	14.9	20
120#	ABS	10	90	120	25	35
121#	ABS	98.6	104.5	120.5	27	30.7
125#	ABS	96	104	125	20	28
136#	ABS	16	101	136	76	101
137#	ABS	63	101	137	70	94
266#	ABS	216	226	266	31	41
280#	ABS	215	226	280	43	57
301#	ABS	51.5	212	300	91	103
310#	ABS	215	226	310	46	60

Molybdenum wire for Electrical Equipment »

» Application

Mainly used as support assembly for magnetron cathode , electrode assembly for cold cathode fluorescent lamp.



» Chemical Composition

Code	Main content	Impurity (ppm, max. value)									
	Mo	W	Al	Ca	Mg	Fe	Ni	Si	C	N	N
Mo1	≥99.95%	200	20	20	10	50	20	20	40	30	30

» Advantage

The molybdenum wire is produced with high purity raw material and through unique processing procedure.
The molybdenum wire is detected by eddy current during process which guarantees there are no burrs, cracks and other defects on the surface.
Dimensional tolerance accuracy reaches zero-level.

» Product specification and technical requirement

Size (mm)	Tolerance (mm)	Tensile strength (N/mm²)	Roll diameter (mm)
1.6<d≤2.4	±0.01	≥850	450/750
1.2<d≤1.6	±0.01	≥900	450/750
0.9<d≤1.2	±0.01	≥950	450

Customers' special requirements can be negotiated and customized.

Molybdenum wire for Spraying »

» Application

Our high purity molybdenum wire are excellent for flame spraying of wearing parts in automobiles and ships, such as the synchronizer rings, shift forks, turbines, piston rings and others. Molybdenum spraying treatment can greatly improve the material's wear resistance and service life.



» Chemical Composition

Code	Main content	Impurity (ppm, max. value)									
	Mo	W	Al	Ca	Mg	Fe	Ni	Si	C	N	N
Mo1	≥99.95%	200	20	20	10	50	20	20	40	30	30

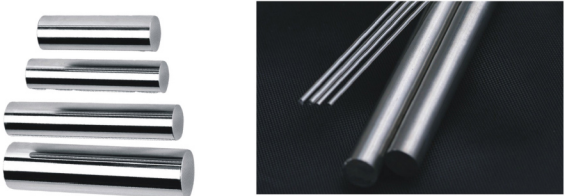
» Specification and technical requirement

Size (mm)	Tolerance (mm)	Tensile strength (N/mm ²)	Elongation (%)	Ball diameter (mm)	Weight per roll (mm)
3.175	+0/-0.05	700-950	≥5	600-700	10-25
3.125	±0.02	700-950	≥5	600-700	
2.300	±0.02	800-1000	≥5	600-700	
1.600	±0.02	900-1100	≥5	450	

Molybdenum Rod »

» Application

Our high quality molybdenum rod is suitable for various type of contact, lead rod, electrode and heating components.



» Common specification

Grade	Size (mm)	Tolerance (mm)	surface condition		
			Drawn	Forged	Polished
Mo1	1.0≤d≤3.5	±0.05	√	-	√
	4.0≤d≤15.0	±0.15	-	√	√

Customers' special requirements can be negotiated and customized.