



ZGCC



官方微信公众号

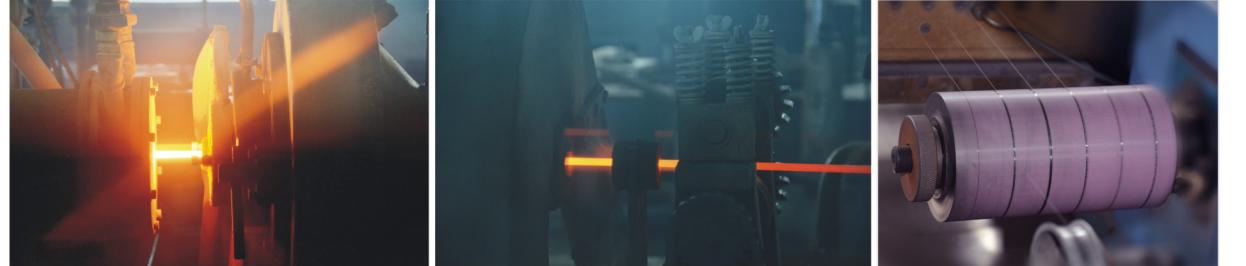
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自贡硬质合金有限责任公司成都分公司
Zigong cemented carbide corp. Ltd Chengdu branch



导读

READING REFERENCE

自贡硬质合金有限责任公司是世界级大型硬质合金产品、硬面材料和钨钼制品生产企业。“长城牌”钼丝制品采用先进的加工设备及生产工艺，主要产品包括：

Zigong Cemented Carbide Cor., Ltd. is a world-class manufacturer of cemented carbide products, hard facing materials and tungsten & molybdenum products. Our molybdenum wire, whose brand is "Great Wall", is produced by advanced equipment and technology. Our main products:

- 线切割钼丝 Molybdenum wire for WEDM
- 灯用钼丝 Molybdenum wire for lighting
- 电器钼丝 Molybdenum wire for electrical equipment
- 喷涂钼丝 Molybdenum wire for spraying
- 钨 杆 Molybdenum rod

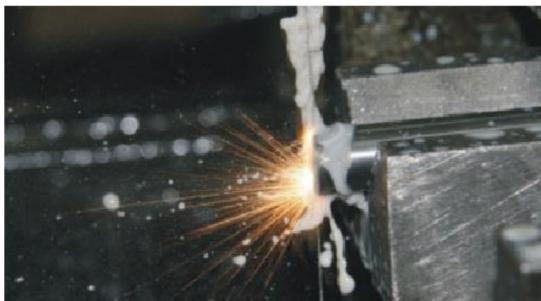
认证体系

MANAGEMENT SYSTEM



线切割钼丝

Molybdenum wire for WEDM »



» 产品用途

Application

主要用于高速走丝电火花线切割的电极丝，适合加工硬质合金、磁性材料、黑色金属和有色金属等具有导电性能的材料。

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 cemented carbide product, the magnetic material and non-ferrous metal.

» 化学成分

Chemical Composition

牌号 Code	主要成分 Main content	杂质元素 Impurity (ppm, max. value)								
		Mo	W	Al	Ca	Mg	Fe	Ni	Si	C
MoLa	≥99.5%	200	20	20	10	50	20	20	40	30

» 规格及技术标准

Specification and Technical Standards

表1 黑线切割钼丝规格及技术标准
Table 1 Specification and technical standards for black wire

规格 Diameter (mm)	公差 Tolerance	抗拉强度 Tensile strength (N/mm ²)	单盘长度 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

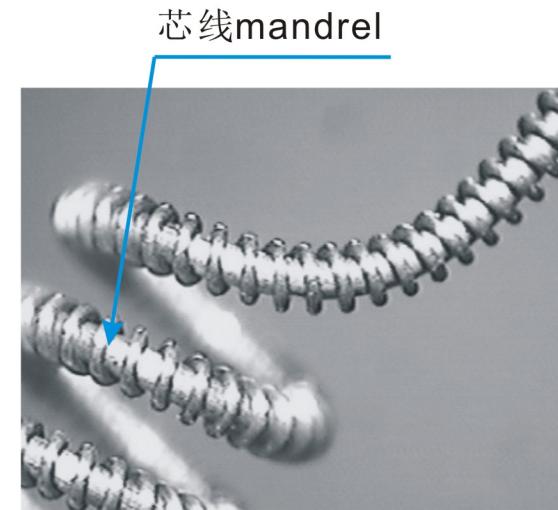
表2 常用白线切割钼丝规格及技术标准
Table 2 Specification and technical standards for cleaned wire

规格 Diameter mm	公差 Tolerance		抗拉强度 Tensile strength (N/mm ²)
	inch	mm	
0.305	0.012	0.305	≥1600
0.254	0.010	0.254	≥1700
0.203	0.008	0.203	≥1800
0.178	0.007	0.178	≥1900
0.152	0.006	0.152	≥2000

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

灯用钼丝

Molybdenum wire for Lamps »



牌号 Code	用途 Application
Mo1	适用于荧光灯芯线，白炽灯支架等。 It is suitable for making mandrel wires for fluorescent lamps, support wires for incandescent lamps, etc.
MoLa (WL)	适用于卤素灯芯线和白炽灯支架。 A certain content of lanthanum oxide is doped in, suitable for making mandrel wires and support wires in incandescent and halogen lamps.
MoLa (ZL)	再结晶温度1600°C以上，适用于卤素灯灯脚、支架、引出线等。 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, support wire and lead wire in halogen lamp, etc.
MoY	再结晶温度1500°C以上，延展性好，与石英玻璃粘附性好，适用于钼箔带。 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 foils.

» 化学成分

Chemical Composition

牌号 Code	主要成分 Main content	杂质元素 Impurity (ppm, max. value)								
		Mo	W	Al	Ca	Mg	Fe	Ni	Si	C
Mo1	≥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

» 产品用途

Application

主要应用于芯线、钼箔带、支架、灯脚、电极引出线等灯用高温元器件。
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.

» 规格及公差

Specification and tolerance

规格 Sizes (mm)	直径偏差 Diameter tolerance		200mm丝段重量 Weight in mass (mg/200mm)	200mm丝段重量偏差 Tolerance of weight in mass	
	I级 Class I	II级 Class II		0级 Class 0	I级 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%	— —	— —	— —

产品有涂石墨乳黑丝和电解清洗白丝两种表面状态可供选择。
Two kinds of surface condition can be selected, black with graphite coat or cleaned white.

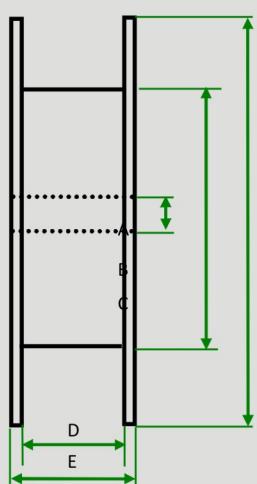
另可提供0.4mm适用于改拉各类照明芯线及支架等用途的钼丝。
Our 0.4mm molybdenum wires are available to downstream manufacturers for redrawing.

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

» 常用绕线盘型号

Wire spool typece

型号 Type	材料 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



» 产品用途

Application

电器钼丝主要应用于磁控管阴极支架组件、冷阴极荧光灯管电极组件的制作。
Mainly used as support assembly for magnetron cathode, electrode assembly for cold cathode fluorescent lamp.



» 化学成分

Chemical Composition

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

» 产品特点

Advantage

精选高纯钼原料，经特有工艺加工而成。

The molybdenum wire is produced with high purity raw material and through unique processing procedure.

涡流探伤检测筛选，保证表面无毛刺、裂纹等缺陷。

The molybdenum wire is detected by eddy current during process which guarantees there are no burrs, cracks and other defects on the surface.

尺寸精度达“零级”公差标准。

Dimensional tolerance accuracy reaches zero-level.

» 产品规格及要求

Product specification and technical requirement

规格 Sizes (mm)	偏差 Tolerance (mm)	抗拉强度 Tensile strength (N/mm²)	卷径 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

客户有特殊需求，可协商特供。

Customers' special requirements can be negotiated and customized.

喷涂钼丝

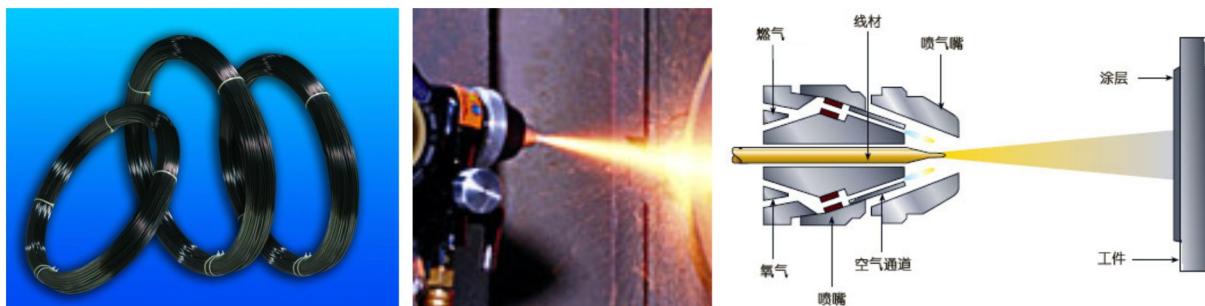
Molybdenum Wire For Spraying ➤

» 产品用途

Application

产品主要应用在汽车及轮船等易磨损部件表面火焰线材喷涂，如同步环、换挡拨叉、涡轮、活塞环、齿轮、轴、缸体、冶金炉风口、铸模及其他机械磨损面的喷钼处理，通过喷钼处理可大幅提高材料的耐磨性和使用寿命。

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.



» 化学成分

Chemical Composition

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

» 产品规格及技术要求

Specification and technical requirement

规格 Sizes (mm)	偏差 Tolerance (mm)	抗拉强度 Tensile strength (N/mm ²)	延伸率 Elongation (%)	卷径 Roll diameter (mm)	单卷重量 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	