

High Precision meets Reliability

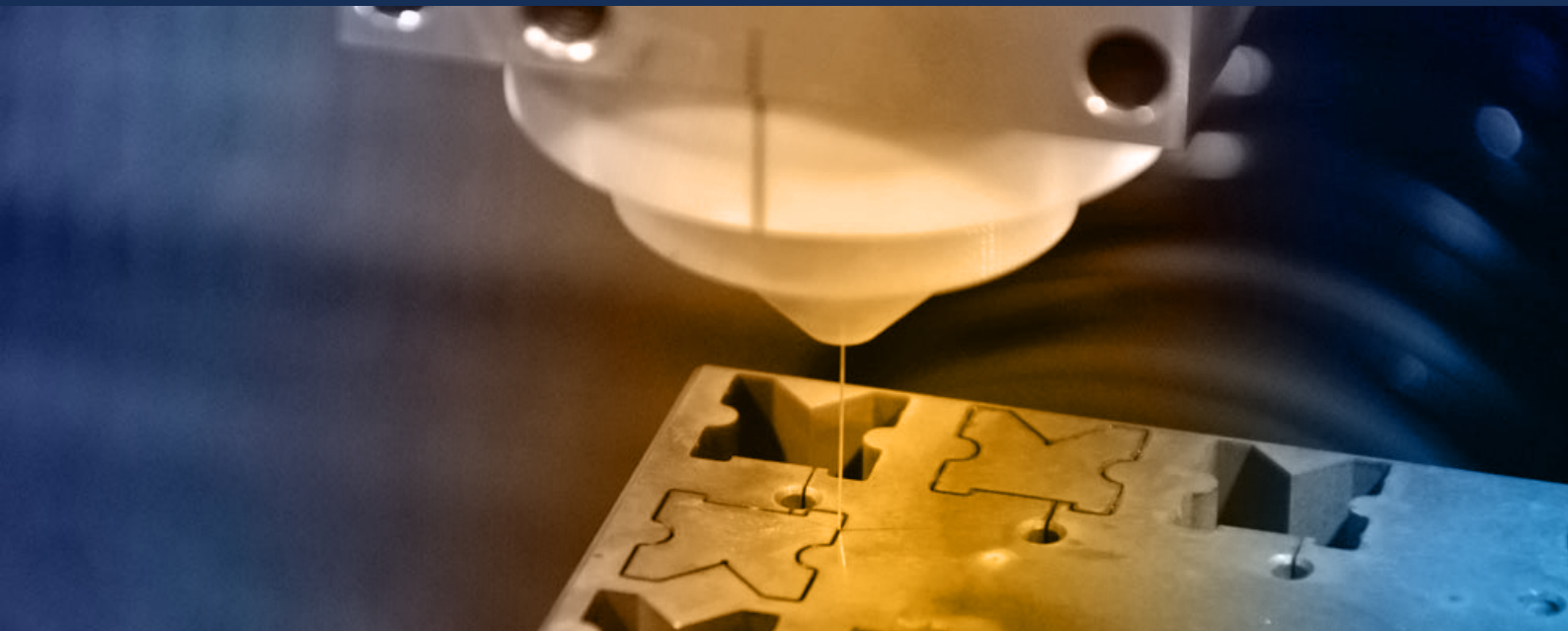




Nickunj EDM Wires & Consumables Private Limited

An ISO 9001 : 2015 Company, we now offer our in-house range of EDM Wires from our state-of-the-art facilities at Baddi, Himachal Pradesh and Umbergaon, Gujarat.

Equipped with the latest galvanizing, wire drawing, annealing, packaging & lab machinery, we produce the high-precision and reliable EDM wires for uninterrupted cutting conditions on every wire cut machine.



Consumables for EDM

Fluid & Rust Inhibitors



≡ DIE SINKING EDM FLUIDS

Formulated on 7 viscosity grades containing special additives to facilitate generation of the ionization channel. Compared to conventional dielectric fluids, this range of products offers the following benefits:

- Choice of the most suitable viscosity grade
- Very short distillation range
- Very high chemical physical stability
- Colorless
- Odorless
- Free from light aromatic hydrocarbons
- Lower electrode wear
- Improved surface finish
- Easy to filter
- Prevents hard to disperse foam

Product	Viscosity at 20°C	Flash Point (°C)	Distillation Range (°C)	Application
Nicut LL21	5.60	> 125	50	For high power rough grinding ra 4,0 + 9,0 µm



≡ MICRO - DRILLING EDM FLUID

WF Range- Totally hydrocarbon free specially developed for microdrilling with water.

- High chemical-physical stability
- High filterability
- Odorless
- High erosive performance
- Excellent anti-corrosion properties

Product	Colour	Applications
EDMfluid WF 100	Light blue	Bio-stable anticorrosion additives based
EDMfluid WF 200	Colourless	Polyglycol and highly efficient depressor based. Endorsed by SODICK



≡ RUST REMOVER K-200

Rust and sludge remover after Wire EDM (Wiping type)
Recommended by machinery manufacturers. Cleans sludge and rust. Rust removal from metal component and parts generated by Wire-EDM, ing and other.

- Wiping type
- Strong rust removing power
- No toxic gas
- Rust removal solution which no water-washing is necessary.
- Safety
- No stimulation

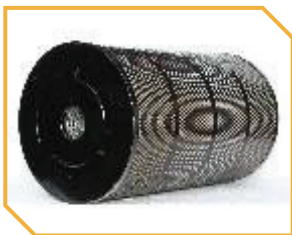
After application, simply wiping with a dry cloth leaves the machine shining.

Consumables for EDM

Filters



Item Code	Size (mm)	Suitable for MCH	Nipple Size	Nipple Position
H15190/16 MANN	D.145 x H375	Agie/Charmilles Robofil	32 mm	Centre Hole



Item Code	Size (mm)	Suitable for MCH	Nipple Size	Nipple Position
SW-20	D.300 x H500	Hitachi/Jomers	60 mm	Centre Hole



Item Code	Size (mm)	Suitable for MCH	Nipple Size	Nipple Position
SW-37	D.340 x H450	Sodick Old (Green) Electronica High-Tech	46 mm	Centre Hole



Item Code	Size (mm)	Suitable for MCH	Nipple Size	Nipple Position
SW-40	D.300 x H500	Chmer/Accutex/YCM Exitech/Hitachi	19 mm	Side Hole



Item Code	Size (mm)	Suitable for MCH	Nipple Size	Nipple Position
SW-42	D.340 x H300	Sodick/AQ AL Series	46 mm	Centre Hole



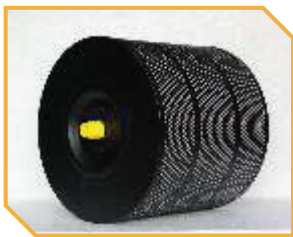
Item Code	Size (mm)	Suitable for MCH	Nipple Size	Nipple Position
SW-43	D.340 x H300	Makino/Mitsubishi Old	19 mm	Side Hole

Consumables for EDM

Filters



Item Code	Size (mm)	Suitable for MCH	Nipple Size	Nipple Position
Super 340FK	D.340 x H300	Mitsubishi/ Makino New	19 mm	Centre Nipple



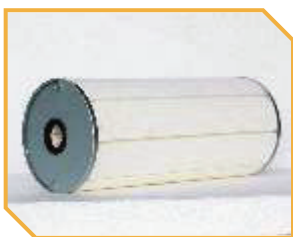
Item Code	Size (mm)	Suitable for MCH	Nipple Size	Nipple Position
Super 340FK-1	D.340 x H300	Fanuc	30 mm	Centre Nipple



Item Code	Size (mm)	Suitable for MCH	Nipple Size	Nipple Position
Super 340C/CS	D.340 x H450	Agie Charmilles 440/240/660	30 mm	Centre Hole



Item Code	Size (mm)	Suitable for MCH	Nipple Size	Nipple Position
H1030 Welo	D.150 x H350	Agie/ Charmilles/ Agietron/ Roboform/ Sparking Machine	32 mm	Centre Hole



Item Code	Size (mm)	Suitable for MCH	Nipple Size	Nipple Position
F15 (Oil Filter)	D.150 x H350	Agie/ Charmilles/ Agietron Roboform/ Sparking Machine	46 mm	Centre Hole

Consumables for EDM

Oshitari Filters



Top quality, High Filtration accuracy with assured performance.



- #1** High accuracy and long-lived filtration with our technique developed through 40 years-experience in the air filter products.
- #2** Manufactured with corrosion-resistance materials. OMF Operates with minimal elution into deionized water.
- #3** OMF minimizes turbidity at the beginning of filtration and keeps water clear in the clear tank. It can improve the surface roughness of the fabricating materials, decrease the secondary discharge, and extend the flife duration of ion-exchange resin.
- #4** By on-off control, chips on the filter surface will drop easily. This contributes to easier recovery of filtration pressure.



Consumables for EDM Machine Filters

Filter for Wire EDM OMF Super Filter Series

FEATURES

- The new model has a screw-type coupler and 2 kinds of coupler are included with this new model. So, it can be used for various models of Wire EDM.
- The filter shows the same filtration performance as OMF-340FK-125.
- Longer life of the filter can be expected by the elimination of the metal chip from the filter surface with on/off of the pump.
- Good filtration performance eg: Surface roughness, prevention of secondary discharge, the life of ion exchange resin, transparency in the clean tank)



REMARKS

- Processing nonferrous metal material (e.g. Aluminium) may cause shorter life of the filter because its sticky metal chip covers the surface of the filter paper.
- The accompanied packing is disposable and cannot be reused.

SPECIFICATIONS

Model No.	OMF - 340FK - S
Size (mm)	φ 340×300H
Packing	2 pieces in a carton box
Connection System	Coupler Type

APPLICABLE WIRE EDM MANUFACTURERS

- Mitsubishi Electric Corporation
- Makino Milling Machine Co., Ltd.
- Seibu Electric & Machinery Co., Ltd.
- Fanuc Corporation





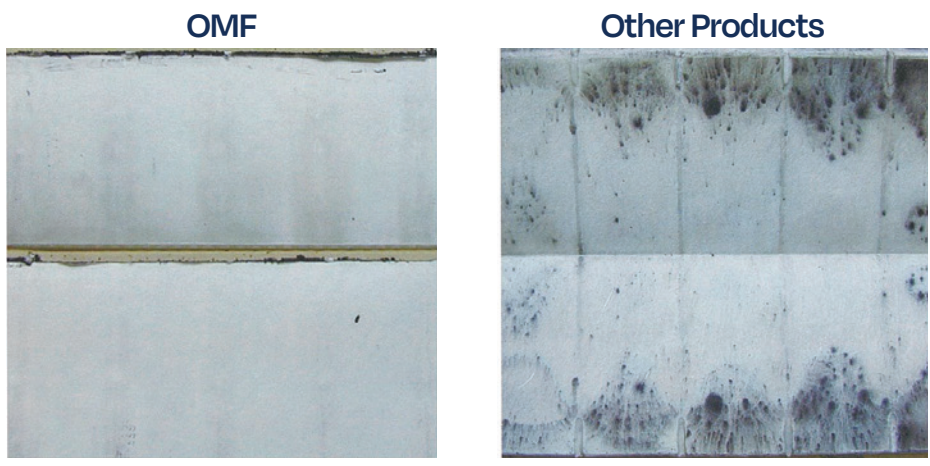
Consumables for EDM Machine Filters

Maker	Applications MA	Model No	
Mitsubishi	DWC - (90, 90S, 90P, 110, 110P) A + B + S + Z + ZP	OMF-250AK, OMF-300AK, OMF-500AK	
	DWC - (70, 90, 90P, 110, 200) F+G+H+HA+U DWC - (90, 200) C1 + C3	OMF -250A, OMF-300AK	
	SX - (10, 20) P	OMF-250A-4-2.6	
	FX - (10, 20) K, CX (2,20), DWC - 532, BA-8	OMF-340FK, OMF-340FK-C	
	FA-(10, 20, 30) S+V+VS MV-(1200, 2400)R, MV-(1200, 2400) NA-(1200, 2400)	OMF-340FK-125 OMF-340FK-125C OMF-340FK-VL	
	FA-(10, 20) P + PS, QA-(10, 20), PA-(10, 05S, 20) NA-(1200, 2400) P, MP-(1200, 2400)	OMF-340FK-7-125 OMF-340FK-VL	
	Fanuc	W(1, 2, 3, 4)	OMF-340F, OMF-340F-C
a-(0B, 1B, 0C, 1C, 0iA, 1iA), AD-(0, 1) a-(0iB, 1iB, 0iC, 1iC, 0iCp, 0iD, 1iD, 0iE, 1iE)		OMF-340F-125 OMF-340F-125C	
a-C (400iA, 600iA, 400iB, 600iB, 800iB) A(300, 300W, 320, 320D, 325, 350, 350W, 500, 500W, 500Q, 500P, 500WP, 530D, 600, 600W, 600P, 600WP, 750, 750W, 1000W)		OMF-340FK-125 Fanuc Coupler OMF-340FK-125C Fanuc Coupler OMF-340FK-X OMF-450FA	
Sodick		BF (250, 275, 280, 280L, 320L), AG (360, 400, 600) L AQ (325, 535, 550, 400, 600, 750, 900, 327, 537) L SL (400, 600) G+P+Q+AL (400, 600) G+P, A[450L (for water)	OMF-340F OMF-340F-125 OMF-340F-125c
	Makino	EE - (3, 6, 6l, 8), EQ-5, EH(3, 6), EQH-5, EQF-5 MU-43, MUQ-32	OMF-250AK, OMF-500AK
		EC- (32, 64), ECQ-53, PF-32	OMF-250AK
U-(32,64), i+j+k, UP-(32, 53) i+j W (32, 53) FB, SP - (43, 64), EU-64, UH-2, U-86 DUO (43, 64), UPJ-2, U-(3, 6), U- (3, 6) H.E.A.T		OMF-340FK OMF-340FK-C	
Seibu	EW- (A5, A5S, A7S, C3, 300K2, 450K2, 600K2, 700K2, 1000K2), EWPB3S	OMF-500AK	
	EW- (A5S2, C5S, C5S2, M500S), M(350, 500, 750)S M(35, 50, 75) A+B, MM(35, 50, 75) A+B	OMF-340FK OMF-340FK-C	
Brother	HS- (300, 350, 3100, 50A, 70A)	OMF-250A, OMF-500A	
Hitachi	H-CUT (3, 4, 5, 6, 8)-Q CUT- (254RS, 355RS, 203M20, 203Q20, 203F2, 203R, 254R, 254RH, 355R, 355RH, 580Q, 610Q, 810Q	OMF-340FK Hitachi Center Coupler OMF-340FK Hitachi Side Coupler	

Consumables for EDM

Filter Performance

Comparison between OMF & other products



OMF SUPER FILTER offers a high filtration performance so that the chips hardly pass through to the downstream of filter.

Other products let numerous chips pass through to the downstream.

PERFORMANCE OF OMF SUPER FILTER AT DIFFERENT FABRICATING MATERIALS

Ferrous Metal

OMF has the best performance when the fabricating materials are steels (SK, S50, S55C, SKD) or stainless.

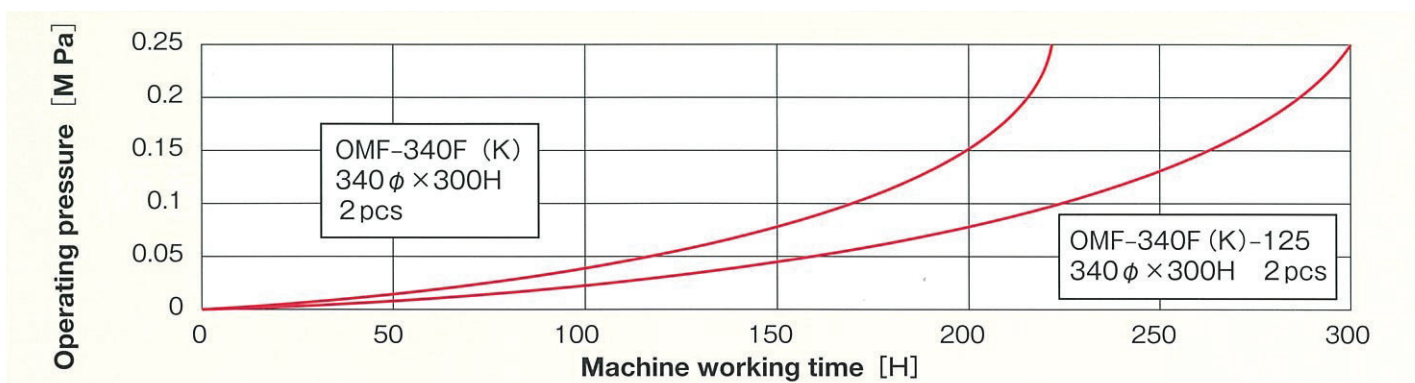
Aluminum

When the fabricating material is aluminum, viscous hydroxide is generated and it causes clogging in the filter and decreases its life duration.

Hard Steel etc

Hard steel alloy, titanium alloy, refractory alloy will generate micro particles during the machining and cause clogging in the filter, decrease filter duration.

COMPERATIVE CHART OF LIFE DURATION



Consumables for EDM

Spare Parts



Agie Guide



Charmilles Guide



Chmer Guide



Mitsubishi/ Electronica



Agie Powerfeed



Agie Powerfeed



Charmilles Powerfeed



Transportation Belt



Driving Belt



Clamp Wheel



Wire Pickup Pulley



Grounding Cable



Wire Cutting Knife



Standard Water Nozzle



Lower Nozzle



Ceramic Plate



Ruby Drill Guide



Ceramic Drill Guide



TS Collet



Rubber Seal



Tungsten, Tungsten Copper, Beryllium Copper Electrodes

For EDM Applications imported make Tungsten Copper, Pure Tungsten, Beryllium Copper, Chromium Copper, Silver Tungsten & Molybdenum alloys of various composition, shapes & sizes are available.



TYPICAL PHYSICAL AND MECHANICAL PROPERTIES

Alloy	Form	Principle Element	RWMA	Hardness Rockwell	Electrical Conductivity % I.A.C.S	Ultimate Strength PSI	Elongation % Temp C	Annealing Temp C	Density Gms/CC
Chromium Copper	Cast Wrought	Chromium Copper	Group A Class 2	70B 83B	85-85	50,000 75,000	20-15	500-500	8.96
Beryllium Copper	Cast Wrought	0.55% Beryllium Copper	Group A Class 3	95B 100B	48-48	95,000 1,10,000	6-10	550-550	8.96
2% Beryllium Copper	Cast Wrought	2% Beryllium Copper	Group A Class 4 (17200)	35C 40C	20-23	1,10,000 1,70,000	2-4	375-375	8.30
N56WC Tungsten Copper	Sintered	56-44Cu	Group B Class10	72-82B	55-60%				12.6
N68WC Tungsten Copper	Sintered	86W:32Cu	Group B Class10	85-92B	48-53%				13.93
N70WC Tungsten Copper	Sintered	70W:30Cu	Group B Class10	85-92B	47-52%				14.18
N75WC Tungsten Copper	Sintered	75W:25Cu	Group B Class11	88-95B	42-50%				14.80
N80WC Tungsten Copper	Sintered	80W:20Cu	Group B Class12	96-99B	41-49%				15.60
N50WA Tungsten Copper	Sintered	50W 50Ag	---	50-60B	62-70%				13.48
N65WA Tungsten Copper	Sintered	65W 35Ag	---	80-87B	50-56%				14.77
N78WA	Sintered	78W 22Ag	---	90-100B	48-53%				16.00
N100W Tungsten	Sintered	100%W	Group B Class13	69A	31%				19.28
N100M Molybdenum	Sintered	100%Mo	Group B Class14	89B	30%				10.2

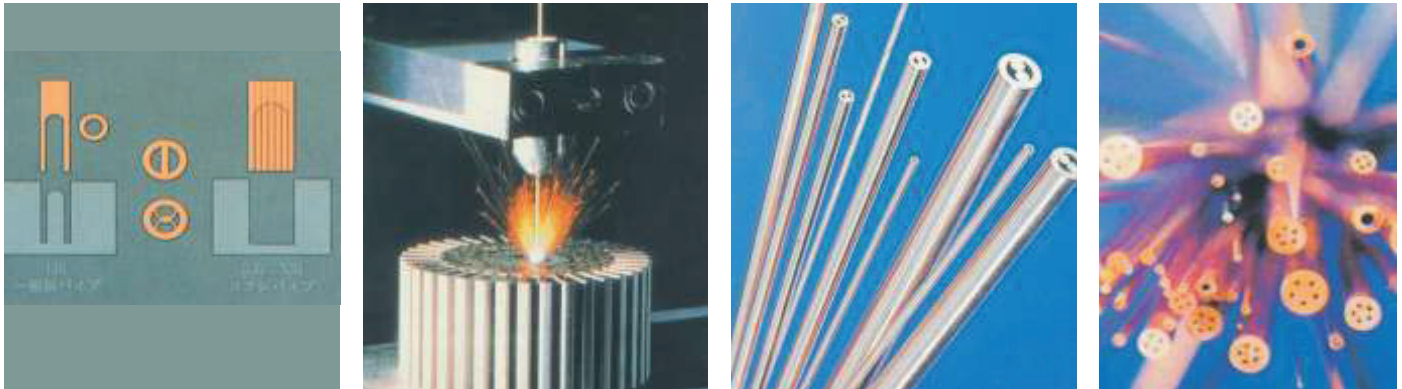
IACS: International Annealed Copper standard

RWMA: Resistance welder Manufacturer's Association

Metallic Electrodes

Range of Metallic tubular electrodes:

For Micro EDM drilling & start hole applications available USA make Copper, Brass, Copper Multi-hole, Brass Multi-hole & Tungsten Copper Tubes of various diameters and lengths.



Precision Copper & Brass Single Hole Tubular Electrodes

99.9% pure electrolytic copper tubes of diameter ranging from 0.20mm to 6mm in steps of 0.10mm & length 400mm, Tolerance O.D; $\pm 0.005\text{mm}$ to 0.03mm

Copper & Brass Multi-hole (KOR-LESS) Tubular Electrodes

Copper & Brass multi-hole (Kor-Less) Electrodes have a unique design which eliminates the standing spike, normally experienced with tubing type electrodes. Copper & Brass Multi-Hole (Kor-less) electrodes are especially useful in "blind" bottom type applications or "through hole" applications. 99.9% Pure electrolytic copper & brass multi-hole tubes of diameter ranging of 0.50mm to 6mm in steps of 0.10mm & length 400mm. Tolerance O.D; 0.015mm

Solid Copper Electrodes - From 0.20mm to 6mm in step of 0.10mm length max 400mm

Tungsten Copper Tubular Electrodes

For EDM drilling of hard metals like carbides or heat treated metals. Diameters available 0.50mm to 6mm in steps of 0.10mm length max 400mm. Tolerance O.D; 0.015mm

Solid Tungsten Copper Tubular Electrodes

For EDM drilling of hard metals like carbides or heat treated metals. Diameters available 0.50mm to 6mm, in steps of 0.10mm and length 177.8mm. Tolerance O.D; 0.015mm

Single Hole			
OUTER DIAMETER		INNER DIAMETER	
Size	Tolerance	Size	Tolerance
0.10	-0.005	0.03	+/- 0.005
0.13		0.04	+/- 0.005
0.15		0.06	+/- 0.006
0.20		0.1	+/- 0.01
0.25		0.12	
0.30		0.12	
0.40	-0.01	0.15	
0.50		0.18	
0.60		0.20	
0.70		0.20	
0.80		0.30	
0.90		0.30	
1.00		0.30	
1.10		0.30	+/- 0.02
1.20		0.40	
1.30		0.40	
1.40	0.40		
1.50	-0.02	0.50	
1.60		0.50	
1.70		0.50	
1.80		0.60	
1.90		0.60	
2.00		0.60	
2.10		0.70	
2.20		0.70	
2.30		0.80	
2.40		0.80	
2.50	-0.03	0.80	+/- 0.03
2.60		0.90	
2.70		0.90	
2.80		0.90	
2.90		1.00	
3.00		1.00	

Multi-Hole (Coreless)			
OUTER DIAMETER		CHANNELS	
Size	Tolerance	2 Channels	3 Channels
0.50	-0.01	2 Wires Inserted or (1 Plat bar inserted)	
0.60			
0.70			
0.80			
0.90			
1.00			
1.10			
1.20			
1.30			
1.40			
1.50	-0.02	2 Tubes Inserted or (1 Plat bar inserted)	3 Tubes Inserted
1.60			
1.70			
1.80			
1.90			
2.00			
2.10			
2.20			
2.30			
2.40			
2.50	-0.03	2 Tubes Inserted or (1 Plat bar inserted)	
2.60			
2.70			
2.80			
2.90			
3.00			



Polishing Stones



EDM POLISHING STONES

- AM - 8 Excellent ultrasonic stone, strong, holds shape
- AS - 9 Great with profiler and hand stoning
- Orange EDM Fast cutting action with consistent breakdown
- GOLD Perfect allround aluminium oxide stone

GENERAL PURPOSE STONE (ALUMINIUM OXIDE)

- AM - 2 General purpose stone, soft, fast breakdown
- Die Stone Slightly harder than AM-2
- AM - K White Aluminium Oxide stone good for machined surfaces
- AS - H White aluminium oxide stone softer than AM-K

GENERAL PURPOSE STONE (SILICON CARBIDE)

- CS Fast cutting black silicon carbide
- CS-M Premium green silicon carbide, fast cutting, medium hardness
- CS-HD Harder stone than CS-M, excellent for hardened steel, 47-63Rc

SPECIALTY STONES

- T2 Excellent stone for stainless steel
- T4 Engineered for finishing aluminium and soft metals
- A0 Aggressive stone for general mill removal and EDM
- TH Performs well on all types of tool steels
- 900-F Very soft stone for super-fine finishing

ROUGHING STONES

- Roughout Softer stone, aggressive cutting, 80-220 grits
- Ruby Extremely fast cutting stone

DETAIL STONES

- Ceramic Stones Very strong, used for EDM removal in ribs and slots
- RIBSTONE® High-tech diamond abrasive polishing tool
- CNB-80 & 120 Extremely aggressive advanced composite fiber
- Diamond Files Precisely manufactured from the highest quality diamond

INDUSTRIAL ABRASIVES

- Mounted Points Designed specially for mould and die work
- Boron Dressing Stick B4C dressing sticks are extremely wear-resistant
- Dressing Sticks Aluminium oxide sticks used to lean and dress wheels
- Sharpening Stones Used for deburring, sharpening and honing.

ACCESSORIES

- Stone Holders Specially designed for hand use and profilers
- BORI-LUBE 10 To clean, lubricate and prevent stone loading. Safely removes haze, plate out rust oxidation and stains.
- Mold Polish Safely removes haze, plate-out, rust oxidations and stains
- Miniature Brushes Mandrel-mounted wore and hair brushes
- White Felt Bobs Produces a high surface finish on all dies and molds
- Wood Sticks For lapping and finishing by hand



POLISHING ACCESSORIES

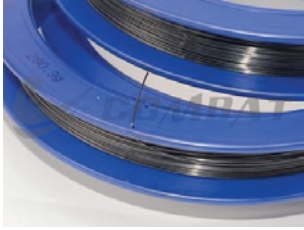
Stone Holders : Specially designed holders for hand use and profilers. Conventional and detail polishing holder designs are available. All holders are made of materials that will not damage mold and die surfaces



BORI-LUBE 10 - POLISHING LUBRICANT

BORI LUBE 10 is formulated for mould polishing to clean, lubricate and prevent stone loading. Environmentally friendly and non-hazardous.

Molybdenum Wire



INFORMATION

Certificate: ISO9002

Product Feature: High melting point, High-density, high temperature oxidation resistance, long service life, resistance to corrosion..

Dimensions and tolerance: Grade Mo-1 Grade Mo-1

Molybdenum wire is widely used in lighting (such as used as mandrel, support wire, lead-in wire, etc.), heating components, heating material in furnace, wire-cutting, spraying wire, glass to metal seals, printer pins, coil-mandrels, hooks for ordinary lights, grids for electronic tubes and heaters for hi-temperature furnaces; also hi-temperature structural for halogen lamps, heaters for hi-temperature furnace, rotation axis for X-ray and other fields and so on.

Molybdenum ability to resist high temperatures without expanding or softening makes it useful in high pressure and high temperature applications.

PRODUCT DETAILS

Material	Molybdenum
Length	2000 meters
Application	EDM Cutting
Diameter	0.18mm
Color	Golden
Thickness	0.18
Boiling Point	5560° Celsius
Density	10.2g/cm ³
USPs	High quality, workability

APPLICATIONS

- For wire cutting machine
- For producing electric light source parts and electric vacuum components
- For producing heating elements and refractory parts in high temperature furnaces
- For spraying wear and tear parts of automobile and other machine to enhance their wearability

Jelly JR-3A

Packaging Size	2 KG
Grade	Cutting Gel
Packaging Type	Bucket, Box
Packaging	2 Kilogram
Application	EDM Wire Cut Machine Cutting Gel
Minimum Order Quantity	9 Piece

