

CONSUMABLES

IMT SiC paper

Product code example: S31TO-22380-LN

Code	Size (outer diameter)	Grit (#)		Base Material
S31TO*1	200	80	500	LN
		120	600	
	223	220	800	
		320	1000	
	250	400		
	305	1200		DN
		1500		
		2000		

*1 S31TO is no adhesive type. • Sales unit: 50 sheets per pack

Waterproof Abrasive Paper

Product code example: S31SR-22380-LRTW

Code	Size (outer diameter)	Grit (#)		Base Material*1	Adhesive
S31SR	200	60	500	L (LCCD)	N (no adhesive)
		80	600		
	223	120	800	D (DCCD)	RTW (weak adhesive)
		220	1000		
	250	320	1200		
	305	400	1500		
			2000		
S31HM	200	300	3000	D (DCCD)	N (no adhesive)
	225	305			
	250		4000		

*1 Specify grits of 1000 or less with LCCD. For other grits, specify DCCD. • Sales unit: 50 sheets per pack

Lapping Film

Product code example: S33SR-2234000-75RT

Code	Size (outer diameter)	Grit (#)		Base Material Thickness (μm)	Adhesive	Indicated grit	
						μm	#
S32NM (Diamond)	200	400*1	2000	75	N (no adhesive)	40	9
		600	3000			30	5
S33SR (WA)	223	800*1	4000			20	3
		1000*1	6000			16	2
S34SR (GC)	250	1200*2	8000		RT (weak adhesive)	15	1
		1500*1	10000			12	0.5
			20000*2				0.2
	305						

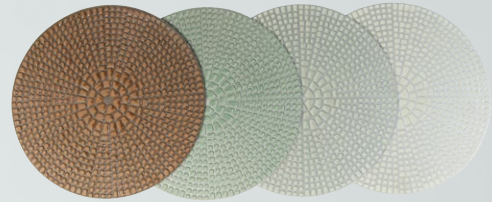
*1 Sold only as WA or GC films. *2 Sold only as Diamond films. • Contact us for purchasing quantities and prices. • WA and GC films are sold in 50-piece packages.

Cyhawk Diamond Polishing Pad

Attachable to magnetic discs, Cyhawk pads can be used just with water. Significant increases to work efficiency and flatness!
Using Cyhawk #1500 replaces “Diamond slurry + cloth” intermediate polishing.
Incredibly long service life (equivalent to 100 pieces of polishing paper)

Product code example: S30SR-200600

Code	Size	Grit
S30SR	ϕ 200mm ϕ 250mm ϕ 300mm	# 80
		# 220
		# 600
		# 1500
S90IM-0691	Dressing stone for Cyhawk	

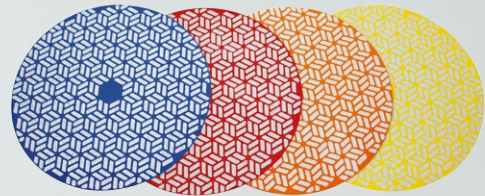


MURAKUMO Diamond Polishing Pad

Very long service life and stable grinding force

Product code example: S30RC-20080 = MURAKUMO ϕ 200mm #80

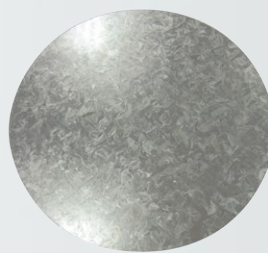
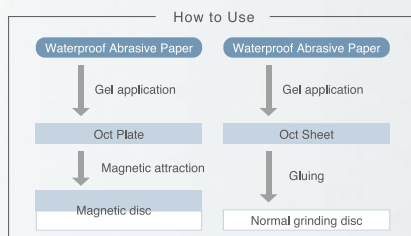
区分	サイズ	粒 度
S30RC	ϕ 200mm ϕ 250mm ϕ 300mm	# 80
		# 120
		# 220
		# 320
		# 500
		# 1200
S30RC-WA220G	Dressing stone for Murakumo	



Oct Plate & Oct Sheet Gel sheets for attaching SiC paper

Peel off the protective film and simply place Sic paper on the sheet to attach it firmly and prevent lateral deviation during polishing.

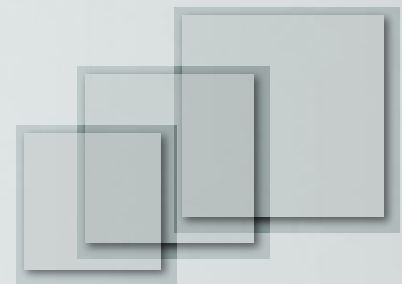
Oct sheets provide improved grinding and polishing workability.



Oct Plate

Product code	Size
S53IM-200P	ϕ 200mm
S53IM-250P	ϕ 250mm
S53IM-300P	ϕ 300mm

*Steel plate backing



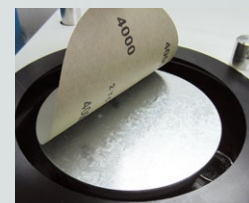
Oct Sheet

Product code	Size
S53HT-210210	210mm×210mm
S53HT-260260	260mm×260mm
S53HT-310310	310mm×310mm

*Adhesive backing

Put Oct plate on magnetic disc

1. Oct plate that steel plate is applied on the back can be used instantly.
2. Stick an oct sheet to the disc, and cut off the excess portion.



Diamond Slurry

Thanks to an advanced classification system, this suspension offers uniform particle distribution. The liquid is kept in a colloidal state with stable abrasive grains with no precipitation. The lineup includes a lubricant-free, all-in-one-type at an affordable price. Use the spray bottle for waste-free spraying.



Product code example: S10SG-P05-025S

Code	Crystal	Capacity	Grit (μm)	Lubricant
S10SG	P (Polycrystal)	05 (500ml)	025 *3	S (contains no lubricants)
	M (Monocrystal)	1G (1 gallon)	1	AS (contains lubricants)
	OP *2 (Oil-based polycrystal)		2	
			3	
			6	
			9	BS (Oil-based)
			15	

*1 Specify AS for lubricant compound types.

*2 Oil-based polycrystal standards are only available with particle sizes of 025 and 1, 2, and 3μm.

*3 A particle size of 025 refers to 0.25μm.

Spray Bottle

Product code	Capacity
S90GA-0916	100cc
S90KS-0337	500cc

Diamond Paste

Choose from oil-based or water-based diamond paste.



Product code example: S12SG-P18-025

Code	Type	Capacity (g)	Grit (μm)
S12SG	P (water-based)	18	025 *1
	OP (oil-based)		1
			2
			3
			6
			9
			15

*1 A particle size of 025 refers to 0.25μm.

Diamond Spray KAGAYAKI

Waterless diamond spray.
Diamond of uniform particle distribution is contained in it.



Product code example: S15IM-P015-3-3

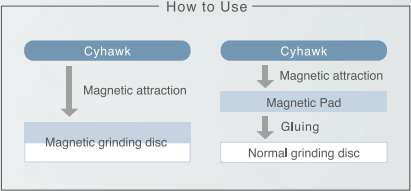
Code	Crystal	Capacity	Type	Grit (μm)
S15 IM	P (Polycrystal)	015 (150ml)	3 (Standard) 1 (Save)*1	1 2*2 3

*1 Quantity of diamond grain of save type is less than standard type.
*2 2μm is only standard type available.

Magnetic Pad

Magnetic pads are recommended for customers looking to use Cyhawk or Murakumo with existing grinding discs. Magnetic grinding discs are also available.

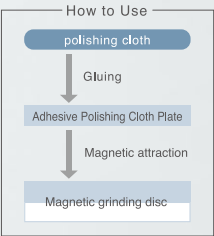
Product code
S53KJ-200 (or250, 300)



Polishing Cloth Plate

These plates are for apply polishing cloth or Oct sheets.

Product code
S53SR-200 (or250, 300)



Polishing Cloth

All cloths are made with Japanese materials and offer the highest level of reproducibility. Use the easy-peel adhesive on the disc.

Plate Cloth

Polishing cloth with metal plate in the back can be adsorbed onto magnetic disc.



Product code example: S51IM-SN200 or S51IM-SN200T

Code	Material			Size (φ)	
S51IM *1	KG (Kaga)	RP (Rapt)	TS (Tosa)	Polishing Cloth	Plate Cloth
	SN (Senba)	SF (Silica Final)	SA (Sail Cloth)	200	200T
	AZ (Azai)	RS (Red Sun) *3	FE (Felt Cloth)	250	250T
				300	300T
S51YF *2	IM (Felt Cloth)			250	-

*1 All with adhesive backing (RS: Pack of 10; Others: Pack of 5)

*2 S51YF-IM250 is the product code specifically for felt cloth (non-adhesive). (φ250mm, pack of 5 non-adhesive pieces)

*3 RS is the sale of polishing cloth only



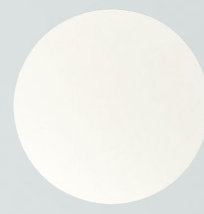
Item	Kaga
Material	Natural silk
Polishing Liquid	DIA 3 to 1μm
Polishing Specimens	Steel, ceramic, carbides, Electronics materials

*100% natural silk. The minute polishing marks are favored over products from other manufacturers.



Item	Senba
Material	Wool
Polishing Liquid	DIA/Alumina, 3 to 1μm
Polishing Specimens	Non-ferrous metals, minerals

*100% wool.



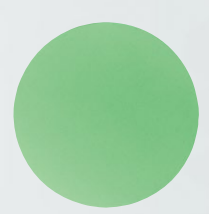
Item	Tosa
Material	Non-woven fabric
Polishing Liquid	DIA, 15 to 6μm
Polishing Specimens	Electronic materials, SUS, composite materials

*For medium polishing. Ideal for applications where flatness is required, such as with material for electronics and composite materials.



Item	Azai
Material	Non-woven fabric, suede
Polishing Liquid	DIA, 2 to 0.25μm
Polishing Specimens	Nearly anything

*Thin final cloth that can reduce undercutting during polishing.



Item	Rapt
Material	Acetato
Polishing Liquid	DIA 3 or 2μm
Polishing Specimens	Heat-treated steel, ceramic, carbides

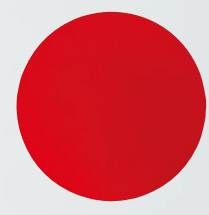


Item	Silica Final
Material	Non-woven fabric
Polishing Liquid	Colloidal silica
Polishing Specimens	Metals, ceramics, electronic materials

*The world's best-in-class cloth for Colloidal silica.



Item	Felt Cloth
Material	Felt
Polishing Liquid	Alumina (1μm or more)
Polishing Specimens	For medium polishing using alumina



Item	Red Sun
Material	Non-woven fabric, suede
Polishing Liquid	Alumina (1μm or less)
Polishing Specimens	For fine polishing using alumina



Item	Sail Cloth
Material	Synthetic fiber
Polishing Liquid	DIA, 15 to 9μm
Polishing Specimens	Medium polishing of specimens harder than iron

Lubricant

Lubricant AO (Alcohol-based)

Use with diamond slurry or diamond paste.
This is an alcohol-based lubricant.

Product code	Capacity
S20KK-D1	1L
S20KK-D5	5L



Lubricant W (water-soluble)

Use with diamond slurry or diamond paste.
This is a water-soluble lubricant.

Product code	Capacity
S20KK-C1	1L
S20KK-C5	5L



Light Lubricant

Waterless lubricant
Use for water sensitive materials or soft metals.

Product code	Capacity
S20KK-L1	1L
S20KK-L5	5L



Final Polishing Liquid

IMT Colloidal Silica

Final polishing liquid for specimen polishing.

Combine with “Silica Final” polishing cloth for the highest level of polished surface quality.

●PH9～10

Product code	Capacity	Grit
S14FJ-180N	1L	0.08μm
S14FJ-580N	5L	0.08μm



Alumina Suspension

Alumina Slurry

Alumina slurries can be applied directly to the cloth surface or diluted in water.

Product code	Capacity	Grit
S13SG-A1-005	1L	0.05μm
S13SG-A1-03		0.3μm
S13SG-A1-1		1μm
S13SG-A1-3		3μm



Alumina Polishing Material

IMT Aluminum Powder

This alumina polishing material is used for polishing specimens.

Product code	Capacity	Grit
S17IM-0503	500g	0.3μm
S17IM-051		1μm
S17IM-053		3μm



Room Temperature Curing Resin



Cold Epoxy Resin

Item	Product code	Capacity	Characteristics	
Zeromer K ⁺	S60SY-KJ1	Resin: 1kg	Ultra-low-viscosity, 15-hour hardening type with excellent permeability Minimal shrinkage rate type *Use heat for shorter hardening times.	
	S60SY-KK025	Hardener: 250g		
Item	Product code	Sales Unit	Characteristics	
Zeromer Q	S60SR-JKQ4	Resin(1kg) + hardener set (130g)	Low-viscosity, 8-hour hardening type	
Item	Product code	Sales Unit	Characteristics	
Zeromer 4H	S60SR-JKQ3	Resin(1kg) + hardener set (230g)	4-hour hardening quick-dry type	

*Contact us for general purpose applications and other applications such as with material for electronics.

Quick-Drying Acrylic Resin

Item	Product code	Sales Unit	Characteristics	
Falcon F1	S60NK-FF	Resin (800g) + hardener (400g)	Quick-hardening type (15 to 20 minutes)	
	S60NK-FF1	Resin (800g) only		
	S60NK-FF2	Hardener (400g) only		

Item	Product code	Sales Unit	
Wooden Stirring Stick	S61IM-STICK	100pcs. per bag	
Disposable Cup	S61IM-CUP	20pcs. per bag	

Hot Mounting Resin



Hot Resin

Item	Product code	Capacity	Type	Characteristics	
Bakelite Resin	S60SB-J10	1kg	Powder	Black type. Available as powder or granule.	
	S60SB-J50	5kg			
	S60PA-J10	1kg	Granule		
	S60PA-J50	5kg			

Item	Product code	Capacity	Characteristics	
Acrylic Powder	S60AC-AJ10	1kg	Transparent type	
	S60AC-AJ50	5kg		

Item	Product code	Capacity	Characteristics	
Epoxy	S60EP-J10	1kg	Epoxy resin + glass fiber Black, granular type. Excellent edge retention and good adhesion between specimen and resin	
	S60EP-J50	5kg		

Item	Product code	Capacity	Characteristics	
Diallyl	S60JA-J10	1kg	Diallyl resin + glass fiber Low-shrinking green, granular type Ideal for high-concentration specimen polishing	
	S60JA-J50	5kg		

Item	Product code	Capacity	Characteristics	
Bakelite Resin with Carbon Filler	S60PA-K05	500g	Bakelite resin combined with carbon filler. Black, granular type. Conductive resin suitable for SEM observation	
	S60PA-K10	1kg		
	S60PA-K50	5kg		

Clips

Clips are used to hold thin workpieces that do not stand up well on their own when mounting resin in a mold cup.

Please use these clips in combination with mold cups.

Product code	Material	Sales Unit
S90IM-0513	Plastic	50 per box
S90IM-0514	Stainless steel	50 per box
S90IM-0682	Plastic (Black)	100 per box



Plastic Mold Cup

Plastic mold cups for cold resin with removable caps and rings.

Product code	Material	Size	Sales Unit
S61IM-POM25	Resin	φ 25mm	5 per package
S61IM-POM30		φ 30mm	
S61IM-POM40		φ 40mm	



IMT Mold Cup

Reusable mold cups for cold resin

The silicon rubber construction facilitates resin removal.

Product code	Material	Size	Sales Unit
S61IM-25	Silicon rubber	φ 25mm	5 per package
S61IM-30		φ 30mm	
S61IM-40		φ 40mm	
S61IM-4070		40×70mm	



Arco Wax

Softening at 53°C,

this wax can be used to attach the specimen to the jig.

Product code	Sales Unit
S61NS-W	20g × 2-piece set



Back Grind Tape

This tape protects important specimen surfaces and can be easily peeled off.

When polishing both sides of a specimen,

apply this tape to one side after polishing to protect it while polishing the opposite side.

Product code	Sales Unit
S90IM-0686	W180mm × 50m 1 roll
S90IM-0686-25	W180mm × 25cm Pack of 5

