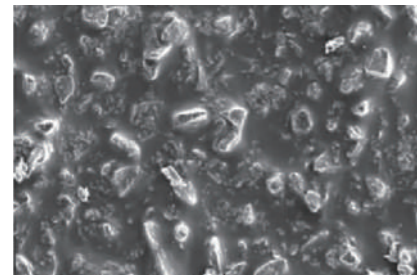


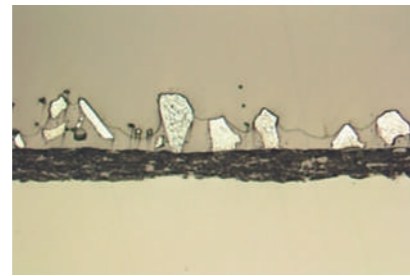


## Abrasive Paper

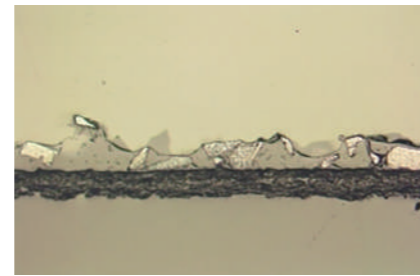
There are silicon carbide and alumina for choice, which has good waterproof, durable long lasting life with uniform cutting characteristics that minimizes sample distortion and deformation.



SEM 50X



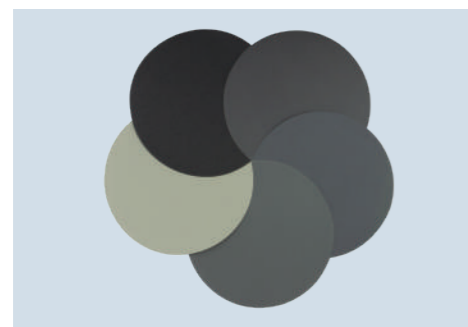
Before use 50X



After use 50X

### Commonly Abrasive Grade Comparison Chart

Particle Size(um)	260	200	125	80	68	52	40	35	26	22	15	10	5
USA Grit	#60	#80	#120	#180	#220	#240	#280	#320	#360	#400	#600	#800	#1200
FEPA	P60	P80	P120	P180	P240	P280	P360	P400	P600	P800	P1200	P2400	P4000



Plain Back



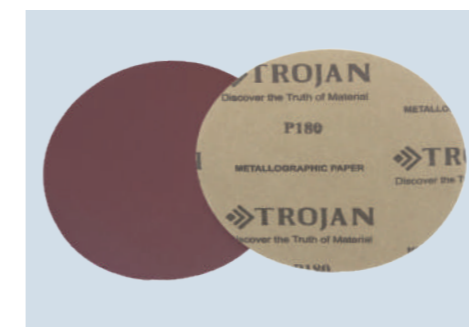
PSA

### Silicon Carbide Disc ( Plain Back )

FEPA(Grit)	8 inch(200mm)	10 inch(250mm)	12 inch(300mm)	Package
120	03.03.103	03.03.403	03.03.703	50pcs
180	03.03.104	03.03.404	03.03.704	100pcs
400	03.03.107	03.03.407	03.03.707	100pcs
800	03.03.109	03.03.409	03.03.709	100pcs
1200	03.03.111	03.03.411	03.03.711	100pcs
2000	03.03.113	03.03.413	03.03.713	100pcs
2500	03.03.114	03.03.414	03.03.714	100pcs
2400	03.03.115	03.03.415	03.03.715	100pcs
4000	03.03.116	03.03.416	03.03.716	100pcs

### Silicon Carbide Disc ( PSA )

FEPA(Grit)	8 inch(200mm)	10 inch(250mm)	12 inch(300mm)	Package
120	03.04.203	03.04.503	03.04.803	50pcs
180	03.04.204	03.04.504	03.04.804	100pcs
400	03.04.207	03.04.507	03.04.807	100pcs
800	03.04.209	03.04.509	03.04.809	100pcs
1200	03.04.211	03.04.511	03.04.811	100pcs
2000	03.04.213	03.04.513	03.04.813	100pcs
2500	03.04.214	03.04.514	03.04.814	100pcs
2400	03.04.215	03.04.515	03.04.815	100pcs
4000	03.04.216	03.04.516	03.04.816	100pcs



Plain Back



PSA

### Alumina Disc ( Plain Back )

FEPA(Grit)	8 inch(200mm)	10 inch(250mm)	12 inch(300mm)	Package
60	03.01.101	03.01.401	03.01.701	50pcs
120	03.01.103	03.01.403	03.01.703	100pcs
180	03.01.104	03.01.404	03.01.704	100pcs
240	03.01.104-1	03.01.404-1	03.01.704-1	100pcs
320	03.01.105	03.01.405	03.01.705	100pcs
400	03.01.106	03.01.406	03.01.706	100pcs
800	03.01.108	03.01.408	03.01.708	100pcs
1200	03.01.110	03.01.410	03.01.710	100pcs

### Alumina Disc (PSA)

FEPA(Grit)	8 inch(200mm)	10 inch(250mm)	12 inch(300mm)	Package
60	03.02.401	03.02.500	03.02.801	50pcs
120	03.02.403	03.02.503	03.02.803	100pcs
180	03.02.404	03.02.504	03.02.804	100pcs
240	03.02.404-1	03.02.504-1	03.02.804-1	100pcs
320	03.02.405	03.02.505	03.02.805	100pcs
400	03.02.406	03.02.506	03.02.806	100pcs
800	03.02.408	03.02.508	03.02.808	100pcs
1200	03.02.410	03.02.510	03.02.810	100pcs



## Diamond Grinding Disc

### DiaNi Diamond Disc

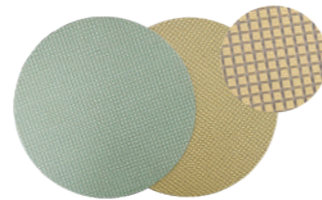
Diamond discs are nickel plated bond, extremely durable and very fast grinding speed. Recommended for steel, hard metals, glass and minerals.



FEPA(Grit)	8 inch(200mm)	10 inch(250mm)	12 inch(300mm)	Package
80	04.21.110S	04.21.210S	04.21.310S	1pc
120	04.21.120S	04.21.220S	04.21.320S	1pc
200	04.21.125S	04.21.225S	04.21.325S	1pc
400	04.21.130S	04.21.230S	04.21.330S	1pc
800	04.21.140S	04.21.240S	04.21.340S	1pc
1200	04.21.150S	04.21.250S	04.21.350S	1pc

### DiaRe Diamond Disc

Diamond discs are resin bond, recommended for most of the materials. Very long service life.



FEPA(Grit)	Color	8 inch(200mm)	10 inch(250mm)	12 inch(300mm)	Package
120	●	04.22.120S	04.22.220S	04.22.320S	1pc
200	●	04.22.125S	04.22.225S	04.22.325S	1pc
400	●	04.22.130S	04.22.230S	04.22.330S	1pc
800	●	04.22.140S	04.22.240S	04.22.340S	1pc
1500	●	04.22.150S	04.22.250S	04.22.350S	1pc
3000	●	04.22.160S	04.22.260S	04.22.360S	1pc
5000	●	04.22.170S	04.22.270S	04.22.370S	1pc

### PF Diamond Polishing Film

Trojan PF precision diamond polishing film series are mainly used for polishing optical fiber inserts, chips and other materials and metallographic samples. Among them, 0-30 microns are suitable for rough grinding, 3 microns and 1 micron are suitable for obtaining fine surfaces.

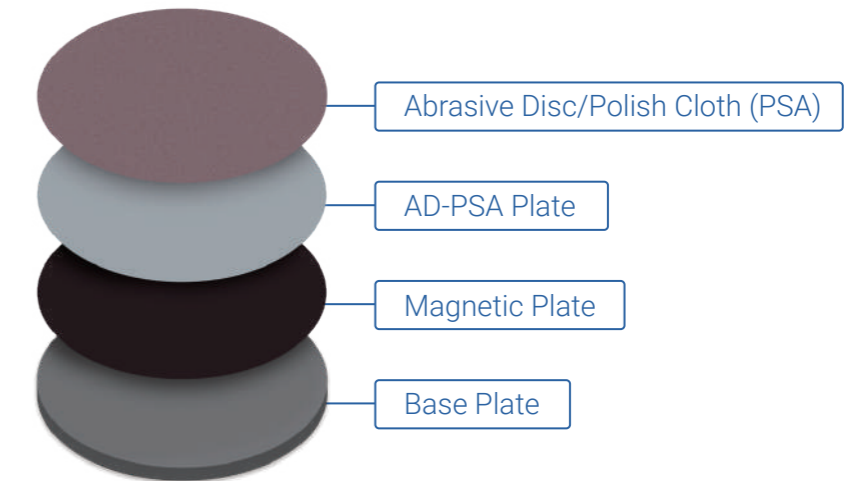


Micron	8 inch(200mm)	10 inch(250mm)	12 inch(300mm)	Package
1um	14.01.461-3	14.01.475-1	14.01.484-1	5pc
3um	14.01.462-1	14.01.476-1	14.01.485-1	5pc
6um	14.01.463-1	14.01.478-1	14.01.486-1	5pc
9um	14.01.464-1	14.01.477-1	14.01.483-1	5pc
15um	14.01.465-1	14.01.479-1	14.01.487-1	5pc
30um	14.01.466-1	14.01.481-1	14.01.488-1	5pc



## Adapter Plate System

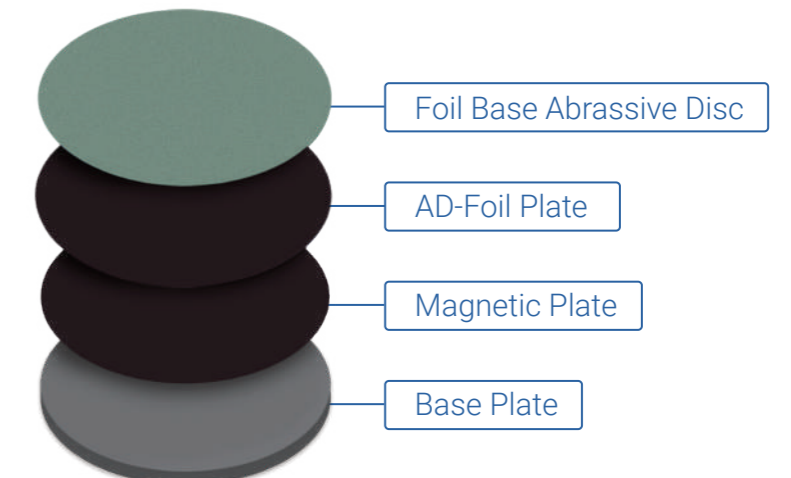
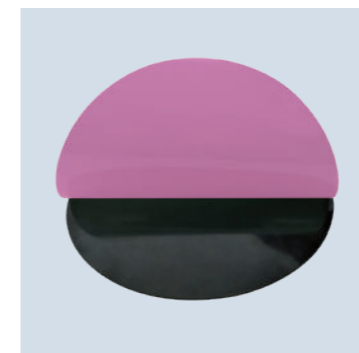
### AD-PSA Plate



The **AD-PSA** system allows adhesive backed abrasive discs/polishing cloths to be easily removed and no residual left.

Order No:	Description	Package
04.08.410	200mm	1pc
04.08.413	250mm	1pc
04.08.420	300mm	1pc

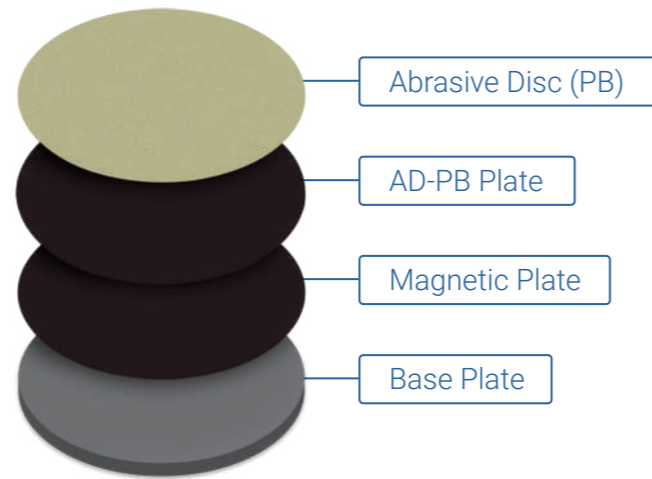
### AD-Foil Plate



The **AD-Foil** system is for Foil base abrasive SIC disc or diamond disc. If the AD-Foil transfer plate is dirty, just washing with water.

Order No:	Description	Package
04.08.422	200mm	1pc
04.08.430	250mm	1pc
04.08.432	300mm	1pc

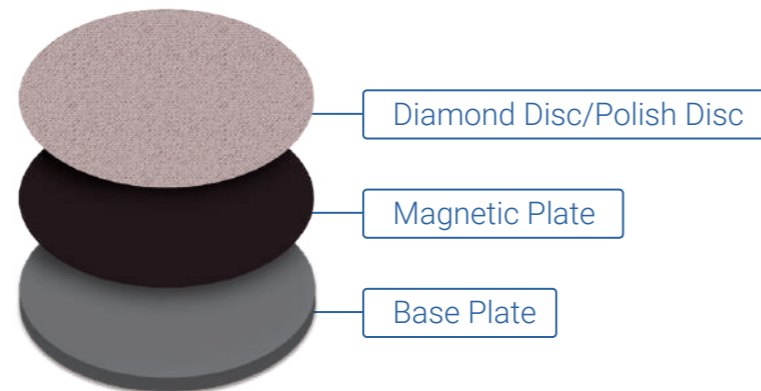
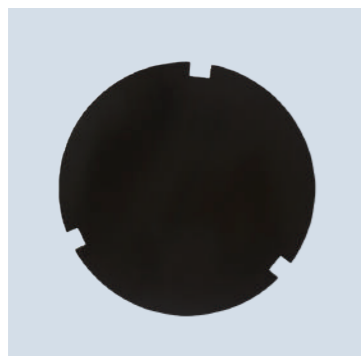
## AD-PB Plate



The **AD-PB** system is for Plainback abrasive SiC disc or diamond disc. If the AD-PB transfer plate is dirty, just washing with water.

Order No:	Description	Package
04.08.310	200mm	1pc
04.08.320	250mm	1pc
04.08.330	300mm	1pc

## Magnetic Plate



The **Magnetic** floppy plate is attached to the chassis of the grinder and can firmly adsorb various conversion plates (AD-PSA, AD-PB, AD-Foil Plate).

Order No:	Description	Package
04.08.010	200mm	1pc
04.08.020	250mm	1pc
04.08.030	300mm	1pc

## Polishing Cloth

### ZN-ZP Black Polyurethane Polishing Cloth(PSA)

It is low-napped, used for chemical/mechanical polishing. Recommend to use with Trojan 0.02-1um silica or alumina polishing suspension.



Order No:	Description	Package
05.01.110	8 inch, Black, Polyurethane	10pcs
05.01.120	10inch, Black, Polyurethane	10pcs
05.01.130	12inch, Black, Polyurethane	10pcs

### SR-ZP Red Synthetic Fabric Polishing Cloth(PSA)

Used for most materials fine or final polishing. Recommend to use with Trojan 0.3 - 3.0 um alumina or diamond suspension.



Order No:	Description	Package
05.02.150	8 inch, Red, Synthetic Fabric	10pcs
05.02.160	10 inch, Red, Synthetic Fabric	10pcs
05.02.170	12 inch, Red, Synthetic Fabric	10pcs

### ET-JP White Synthetic Velvet Polishing Cloth(PSA)

Used for soft materials such as copper, tin, resin, PCB, SMT, semiconductor final polishing. Recommend to use with Trojan 0.05-3.0um, alumina suspension or alumina powder.



Order No:	Description	Package
05.03.210	8 inch, White, Synthetic Velvet	10pcs
05.03.220	10 inch, White, Synthetic Velvet	10pcs
05.03.230	12 inch, White, Synthetic Velvet	10pcs

### YR-JP Brown Synthetic Rayon Polishing Cloth(PSA)

Used for ferrous and non-ferrous metals such as composites, polymers, cast irons, ceramics, carbides and PCB intermediate or fine polishing. Recommend to use with Trojan 0.05-3.0 um diamond suspension, alumina suspension or alumina powder.



Order No:	Description	Package
05.04.310	8 inch, Grey, Synthetic Rayon Fibers	10pcs
05.04.320	10 inch, Grey, Synthetic Rayon Fibers	10pcs
05.04.330	12 inch, Grey, Synthetic Rayon Fibers	10pcs



**YS-JP White Fiber Polishing Cloth(PSA)**

Used for copper,aluminum,tin and softer ferrous metals fine polishing.  
Recommend to use with TROJAN 1-6um diamond suspension or spray.



Order No:	Description	Package
05.07.710	8 inch, White	10pcs
05.07.720	10 inch, White	10pcs
05.07.730	12 inch, White	10pcs

**GF-JP White Synthetin Silk Polishing Cloth(PSA)**

Suitable for ferrous metals intermediate polishing.Recommend to use with TROJAN 3-9 um diamond suspension or spray.



Order No:	Description	Package
05.10.010	8 inch, White	10pcs
05.10.020	10 inch, White	10pcs
05.10.030	12 inch, White	10pcs

**SC-JP White Natural Silk Polishing Cloth(PSA)**

Suitable for ferrous metals intermediate or fine polishing. Recommend to use with Trojan 0.5-6.0 um diamond suspension.



Order No:	Description	Package
05.05.510	8 inch, White	10pcs
05.05.520	10 inch, White	10pcs
05.05.530	12 inch, White	10pcs

**CS-JP Blue Synthetin Silk Polishing Cloth(PSA)**

Suitable for ferrous and non-ferrous metal,plating and plastic,fine polishing.Recommend to use with TROJAN 0.5-6 um diamond suspension or spray.



Order No:	Description	Package
05.12.110	8 inch, Blue	10pcs
05.12.120	10 inch, Blue	10pcs
05.12.130	12 inch, Blue	10pcs

**Final Red Final precision polishing cloth (Adhesive Back)**

It is widely used in precision polishing of electronic components, especially for SEM or TEM evaluation materials. It is recommended to use it with Trojan diamond polishing suspension (less than 3um) and colloidal suspensions or alumina suspension.



Order No:	Description	Package
05.13.110	8 inch,Red	10pcs
05.13.120	10 inch,Red	10pcs
05.13.130	12 inch,Red	10pcs

**Application of polishing cloth**

Model	Rough Polishing		Fine Polishing				Final Polishing			
	NL-CP	GF-JP	SC-JP	YS-JP	CS-JP	SR-JP	ET-JP	YR-JP	Final-Red	ZN-JP
Recommended Granularity	6~15µm	3~9µm	1~6µm	1~6µm	1~6µm	0.3~3µm	0.05~1µm	0.05~1µm	0.05~1µm	0.05~0.3µm
Alumina Polishing Suspension	-	-	-	★	★	★★	★★	★★	★★	★★
Silica Polishing Suspension	-	-	-	-	-	-	★	★	★★	★★
Diamond Polishing Suspension	★★	★★	★★	★★	★★	★★	★	★	-	-
Ceramics	★★	★	★★	-	★	★	★	★	-	★★
Hard Metal	★★	★★	★★	★	★★	★★	★	-	-	★★
Steel	★★	★★	★★	★★	★★	★★	★	★	★	★★
Compound Material	-	★	★★	★	★	★	★★	★★	★★	★★
Mineral	★★	★	★	★	★★	★	★	★	-	★
Spray Coating	-	★★	★	★	★★	★★	★★	★★	-	★★
Grey Cast iron	★★	★★	★★	★★	★★	★★	★	★	-	★★
Copper Alloy	-	★	★	★★	★★	★★	★★	★★	★★	★★
Aluminium Alloy	-	★	★	★★	★★	★★	★★	★★	★★	★★
Soft Metal	-	★	★	★★	★★	★★	★★	★★	★★	★★
Non iron Based Materials	-	★	★★	★★	★	★	★	★	-	★★
Electronic Materials	-	★★	★	-	★	★★	★★	★★	★★	★★
Plastic	-	-	★	-	★	★★	★★	★★	★	★★

★★ Excellent ★ Good

## Material application

Material	Picture	Grinding steps	Polishing material	Polishing material 1	Polishing material 2	Polishing material 3
Ceramic		DiaRe Diamond Disc P400/P800	Polishing cloth	GF Polishing Cloth	SC-JP Polishing Cloth	
			Granularity	9µm PD-WT	1µm PD-WT	
Metal thermal spray		DiaRe Diamond Disc P400/P800/P1500	Polishing cloth	SC-JP Polishing Cloth	ZN-ZP Polishing Cloth	
			Granularity	3µm PD-WT	AO-439	
Ceramic thermal spray		DiaRe Diamond Disc P400/P800/P1500	Polishing cloth	SC-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-439	
Cemented carbide		DiaRe Diamond Disc P400/P800/P1500	Polishing cloth	CS-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-439	
Printed circuit board		SiC abrasive P400/P1200/P2500	Polishing cloth	SC-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-W	
Silicon in Microelectronics		SiC abrasive P400/P1200/P2500	Polishing cloth	SC-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-W	
Microelectronic Materials		SiC abrasive P400/P1200/P2500	Polishing cloth	SC-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-W	
Aluminium Alloy		SiC abrasive P400/P1200/P2500	Polishing cloth	YS-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-439	
Nickel-based Superalloy		SiC abrasive P400/P1200	Polishing cloth	YS-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-439	
Titanium Alloy		SiC abrasive P400/P1200	Polishing cloth	YS-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-439	
Copper and Copper Alloy		SiC abrasive P400/P1200	Polishing cloth	YS-JP Polishing Cloth	ET-JP Polishing Cloth	ZN-JP Polishing Cloth
			Granularity	3µm PD-WT	0.05µm AO-W	AO-439
Hard Steel		DiaRe Diamond Disc P400/P800/P1500	Polishing cloth	YS-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-439	
Mild Steel		SiC abrasive P400/P1200/P2000	Polishing cloth	YS-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-439	
Cast Iron		SiC abrasive P400/P1200/P2000	Polishing cloth	SC-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-439	
Heat treated steel		SiC abrasive P400/P1200/P2000	Polishing cloth	YS-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	9µm PD-WT	1µm PD-WT	
Stainless Steel and Maraging steel		SiC abrasive P400/P1200	Polishing cloth	SC-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	3µm PD-WT	AO-439	
Polymer Composites		SiC abrasive P400/P1200	Polishing cloth	SC-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	3µm PD-WT	0.05µm AO-W	
Preparation for Universal Bulk Loading		DiaRe Diamond Disc P400/P800	Polishing cloth	GF Polishing Cloth	YS-JP Polishing Cloth	ET-JP Polishing Cloth
			Granularity	9µm PD-WT	3µm PD-WT	0.05µm AO-W
			Abrasive / cooling	Polycrystalline diamond suspension	Polycrystalline diamond suspension	Alumina Suspension



# Polishing Consumables

The diamond suspensions contain heavy concentration of monocrystalline or polycrystalline diamond. The suspension is stable which is excellent for distributing diamond easily and uniformly over the cloth or platen surface.



## MD-WT Monocrystalline Diamond Suspension

Water-based diamond suspension, used for polishing most materials.

Order No:	Description	Package
06.01.110-1	Monocrystalline, 0.25µm	500ml
06.01.120-1	Monocrystalline, 0.5µm	500ml
06.01.130-1	Monocrystalline, 1µm	500ml
06.01.140-1	Monocrystalline, 3µm	500ml
06.01.150-1	Monocrystalline, 6µm	500ml
06.01.160-1	Monocrystalline, 9µm	500ml

## PD-WT Polycrystalline Diamond Suspension

Water-base diamond suspension, offering better polishing surface and faster polishing rate when using the same grit.



Order No:	Description	Package
06.02.210	Polycrystalline, 0.25µm	500ml
06.02.220	Polycrystalline, 0.5µm	500ml
06.02.230	Polycrystalline, 1µm	500ml
06.02.240	Polycrystalline, 3µm	500ml
06.02.250	Polycrystalline, 6µm	500ml
06.02.260	Polycrystalline, 9µm	500ml

## Polishing Lubricants

Lubricant is used to enhance polishing performance of diamond suspensions, compounds, sprays and films. It reduces friction and increase the life of polishing clothes. It can be applied manually or used with automatic dispenser.



PL-W	PLW-B	Description	Package
-	06.09.630	Liquid	5000ml
06.09.510	06.09.640	Liquid	500ml
06.09.520	06.09.650	Liquid	1000ml

## AO-W Alumina Suspension

It is a water based stable suspension. Used for copper, tin and other soft metal or plastic material, such as PCB, SMT, semiconductor.



Order No:	Description	Package
06.04.210	0.05μm	500ml
06.04.220	0.3μm	500ml
06.04.230	1μm	500ml

## AO-P De-agglomerated Alumina Polishing Powder

The alumina polishing powder is de-agglomerated, strict particle size distribution. Mix the powder with DI water before use.



Order No:	Description	Package
06.13.011	0.05μm	500g
06.13.021	0.3μm	500g
06.13.031	1μm	500g

## Diamond Paste

Water based diamond paste, high polish speed, good polish surface.



Monocrystalline (5g)		Polycrystalline (10g)	
06.10.030	1um/Blue	06.10.110	1um/Black
06.10.040	3um/Green	06.10.130	3um/Black
06.10.050	6um/Yellow	06.10.160	6um/Black
06.10.060	9um/Red	06.10.190	9um/Black

## SP-D Monocrystalline Diamond Spray

Simple to use, convenient, with polishing efficiency.



Order No:	Description	Package
06.03.115	0.5μm	350ml
06.03.320	1μm	350ml
06.03.325	2.5μm	350ml
06.03.330	3.5μm	350ml
06.03.335	5μm	350ml
06.03.340	10μm	350ml

## SO-T401 Non-Crystallizing Silica

Use for the final polishing.

Non-crystallizing silica suspension with 10.5 PH, provides a chemical-mechanical polishing action for Titanium, Stainless Steel etc.



Order No:	Description	Package
06.05.310	50nm	500ml
06.05.320	50nm	1000ml
06.05.330	50nm	5000ml

## SO-A439 Crystallizing Silica

Polishing fluid Used for final polishing of tin.

10.2 PH Non-crystallizing silica suspension, can be used for chemical mechanical polishing of special alloy materials (such as non-ferrous metals, aluminum, aluminum-magnesium alloys, PCB and IC, etc.).



Order No:	Description	Package
06.07.310	50nm	500ml
06.07.320	50nm	1000ml
06.07.330	50nm	5000ml

## SO-A539 Crystallizing Silica

Polishing fluid Used for final polishing of tin, aluminum and other materials.

10.2 PH silica suspension, can be used for chemical mechanical polishing of special alloy materials (such as non-ferrous metals, aluminum, aluminum-magnesium alloys, PCB and IC, etc.)



Order No:	Description	Package
06.07.520	50nm	500ml
06.07.523	50nm	1000ml