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Grinding & Polishing Application Guide 2024

Provide Professional Metallographic Equipment,
Consumables and Application Solutions

TROJAN (SUZHOU) MATERIAL TECHNOLOGY CO.,LTD
www.trojanworld.com

Grinding

The purpose of grinding is to remove the deep deformation layer on the surface of the sample to facilitate the subsequent polishing step. On the premise that the sample can be quickly ground and the cutting damage layer can be removed, the initial grinding particles should be as fine as possible. The abrasive paper in each step should be half the size of the abrasive paper in the previous step. Each grinding removes the original deformed layer and also introduces a new thinner deformed layer. So as the grade increases, the depth of damage will decrease and the rate of metal removal will decrease. For a given polishing particle size, the depth of damage will be greater in softer materials than in harder materials.



Grinding Equipment



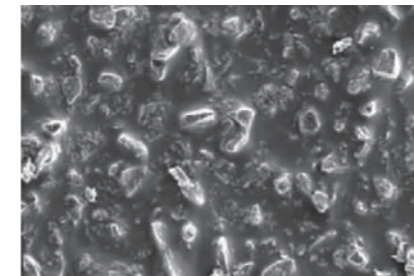
Alpha-108
Single Disk Grinder and Polisher



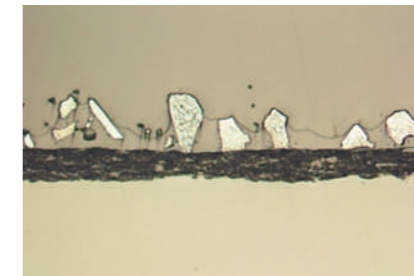
Alpha-208
Double Disks Grinder and Polisher

Abrasive Paper

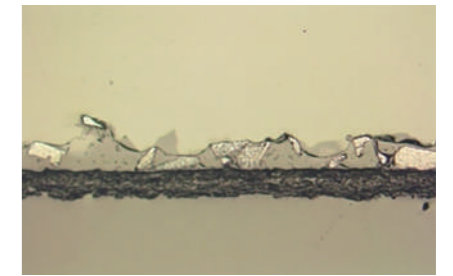
Metallographic special abrasive paper uses selected silicon carbide abrasive grains with uniform particle size and excellent grinding effect as the abrasive. Metallographic special water-resistant abrasive paper produced by electrostatic sand planting process has the characteristics of uniform abrasive grain distribution, sharp edge and durability. It allows for fast removal of samples and shallow deformation layers, which is particularly effective for highly hard or harder materials. All rough grinding and fine grinding processes can be assisted by water, which completely eliminates the disadvantages of dry grinding with ordinary metallographic abrasive paper, such as sample being ground and dusty. Because metallographic abrasive paper has many advantages, is also often used in mold processing (polishing) and other processes that require a high finish.



SiC particles on surface of abrasive paper SEM 50x



Before use 50X



After use 50X

Common Abrasive Grade Comparison Chart

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



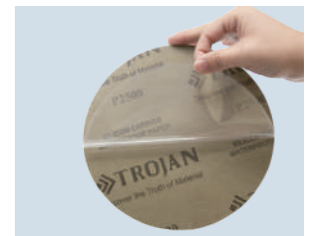
Silicon carbide metallographic abrasive paper (Plain back)



Silicon carbide metallographic abrasive paper (PSA)



Alumina metallographic abrasive paper (Plain back)



Alumina metallographic abrasive paper (PSA)

Grinding Disc



DiaNi Diamond Disc

The grinding disc has a nickel-plated bond base, which makes it extremely durable and allows for fast grinding speeds. It is suitable for materials with high hardness and brittleness. It has the same grinding force on hard and soft materials, ensuring the smoothness of the sample surface.



DiaRe Diamond Disc

Resin diamond grinding discs use resin as a binder. Its characteristic is that the grinding surface is smooth and there will be no local depressions similar to those caused by grinding of abrasive paper. Ensure the flatness of the sample surface and eliminate embossing defects between the resin and the sample.



Diamond Polishing Film

TROJAN PF precision diamond polishing film series is mainly used for polishing fiber optic cores, chips, other materials and metallographic samples. Among them, 30-6 micron is suitable for rough grinding, 3 micron and 1 micron are suitable for fine grinding.

Application Of Polishing Cloth


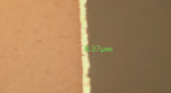



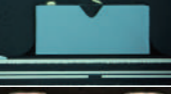




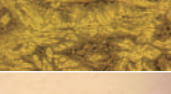

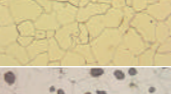
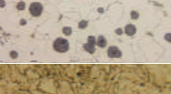
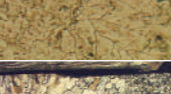
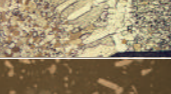
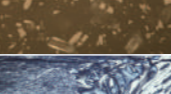

Model	Rough Polishing		Fine Polishing				Final Polishing			
	NL-CP	GF-JP	SC-JP	YS-JP	CS-JP	SR-JP	ET-JP	YR-JP	Final-Red	ZN-JP
Recommended Granularity	6~15μm	3~9μm	1~6μm	1~6μm	1~6μm	0.3~3μm	0.05~1μm	0.05~1μm	0.05~1μm	0.05~0.3μm
Alumina Polishing Suspension	-	-	-	★	★	★★	★★	★★	★★	★★
Silica Polishing Suspension	-	-	-	-	-	-	★	★	★★	★★
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

Suggested method

The following table shows the polishing methods recommended by TROJAN based on years of experience. Good polishing effects can be obtained according to the polishing methods shown. For detailed information and grinding and polishing skills, please call the company or send an email to sales@trojanchina.com and log in to the company website www.trojanchina.com.

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	
			Abrasive / cooling	Polycrystalline diamond suspension	Polycrystalline diamond suspension	
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	
			Abrasive / cooling	Polycrystalline diamond suspension	Silica polishing suspension	
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	
			Abrasive / cooling	Polycrystalline diamond suspension	Silica polishing suspension	
Cemented carbide		DiaRe Diamond Disc P400/P800/P1500	Polishing cloth	CS-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3μm PD-WT	AO-439	
			Abrasive / cooling	Polycrystalline diamond suspension	Silica polishing suspension	
Printed circuit board		SiC abrasive P400/P1200/P2500	Polishing cloth	SC-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	3μm PD-WT	AO-W	
			Abrasive / cooling	Polycrystalline diamond suspension	Aluminium oxide	
Silicon in Microelectronics		SiC abrasive P400/P1200/P2500	Polishing cloth	SC-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	3μm PD-WT	AO-W	
			Abrasive / cooling	Polycrystalline diamond suspension	Aluminium oxide	
Microelectronic Materials		SiC abrasive P400/P1200/P2500	Polishing cloth	SC-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3μm PD-WT	AO-W	
			Abrasive / cooling	Polycrystalline diamond suspension	Aluminium oxide	
Aluminium Alloy		SiC abrasive P400/P1200/P2500	Polishing cloth	YS-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3μm PD-WT	AO-439	
			Abrasive / cooling	Polycrystalline diamond suspension	Silica polishing suspension	
Nickel-based Superalloy		SiC abrasive P400/P1200	Polishing cloth	YS-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3μm PD-WT	AO-439	
			Abrasive / cooling	Polycrystalline diamond suspension	Silica polishing suspension	
Titanium Alloy		SiC abrasive P400/P1200	Polishing cloth	YS-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3μm PD-WT	AO-439	
			Abrasive / cooling	Polycrystalline diamond suspension	Silica polishing suspension	
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
			Abrasive / cooling	Polycrystalline diamond suspension	Alumina Suspension	Silica polishing suspension
Hard Steel		DiaRe Diamond Disc P400/P800/P1500	Polishing cloth	YS-JP Polishing Cloth	ZN-JP Polishing Cloth	
			Granularity	3μm PD-WT	AO-439	
			Abrasive / cooling	Polycrystalline diamond suspension	Silica polishing suspension	
Mild Steel		SiC abrasive P400/P1200/P2000	Polishing cloth	YS-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	3μm PD-WT	AO-439	
			Abrasive / cooling	Polycrystalline diamond suspension	Silica polishing suspension	
Cast Iron		SiC abrasive P400/P1200/P2000	Polishing cloth	SC-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	3μm PD-WT	AO-439	
			Abrasive / cooling	Polycrystalline diamond suspension	Silica polishing suspension	
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	
			Abrasive / cooling	Polycrystalline diamond suspension	Polycrystalline diamond suspension	
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	
			Abrasive / cooling	Polycrystalline diamond suspension	Silica polishing suspension	
Polymer Composites		SiC abrasive P400/P1200	Polishing cloth	SC-JP Polishing Cloth	ET-JP Polishing Cloth	
			Granularity	3μm PD-WT	0.05μm AO-W	
			Abrasive / cooling	Polycrystalline diamond suspension	Alumina Suspension	
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

Polishing is usually performed by placing the sample on a rotating polishing cloth with a uniform distribution of polishing media. The purpose is to remove the grinding scratches and deformation layer on the sample surface to obtain a scratch-free mirror surface, which facilitates microstructure analysis under a metallographic microscope.



Equipment For Polishing



SemiPOL
Precision Grinder and Polisher



VP-430
Vibratory Polisher



Alpha-610
Automatic Grinder and Polisher

Polishing Cloth

Rough Polishing



NL-CP White Chemical Fiber Polishing Cloth (PSA)
White chemical fiber for rough polishing of ferrous metals, recommended for use with 6-15µm diamond polishing fluids or sprays.



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.

Fine Polishing



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.



SC-JP White Natural Silk Polishing Cloth(PSA)
Suitable for ferrous metals intermediate or fine polishing. Recommend to use with Trojan 0.5-6.0um diamond suspension.



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 0.5-6um diamond suspension or spray.



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.

Final Polishing



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.



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.



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.



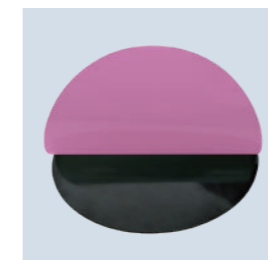
Final Red Final precision polishing cloth(Adhesive Back)
It is widely used in precision polishing of electronic components, especially for SEM or TEM evaluation materials. It is recommended to use it with Trojan diamond polishing suspension (less than 3um) and colloidal suspensions or alumina suspension.

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.



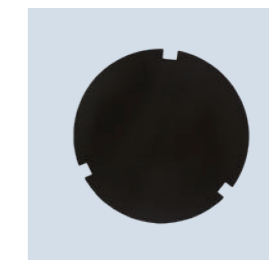
AD-Foil Plate

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.



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.



Magnetic Plate

The Magnetic floppy plate is attached to the chassis of the grinder and can firmly adsorb various conversion plates.

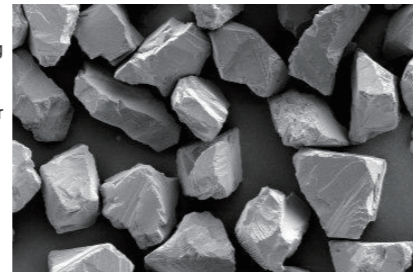
Polishing Suspension

Diamond Suspensions

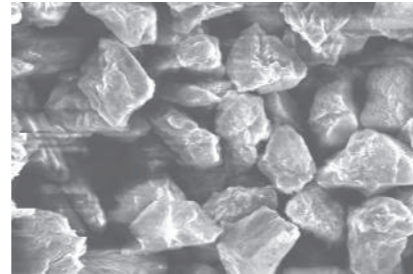
Diamond has high hardness and high polishing speed, can be used for polishing preparation of most materials. The particle size range of diamond polishing fluid commonly used for metallographic polishing is 0.25µm~15µm. Depending on the sample material, water-based, oil-based and ethanol-based are available.

MD-W Monocrystalline Diamond Suspension and PD-W Polycrystalline Diamond Suspension

- Contains diamond powder and polishing additives.
- Diamond micropowder can be suspended evenly and will not settle when left for a long time. It is easy to use and has stable performance.
- MD-W is a monocrystalline diamond suspension with high polishing speed, moderate price and wide application.
- PD-WT is polycrystalline diamond suspension with good surface finish and low dosage.
- Water-based, suitable for polishing most materials.
- Suitable for manual addition or automatic dripping system.
- Can be used with polishing lubricant to achieve better polishing results.
- Non-toxic, environmentally friendly formula.



Monocrystalline diamond micropowder has the characteristics of uniform particle size and fast polishing speed.



There are multiple edges and corners on the surface of polycrystalline diamond particles, and the edges are easy to break and form new edges and corners. Therefore, it has a faster polishing rate and smaller scratches, reducing the deformation of polishing.



Monocrystalline Diamond Suspension



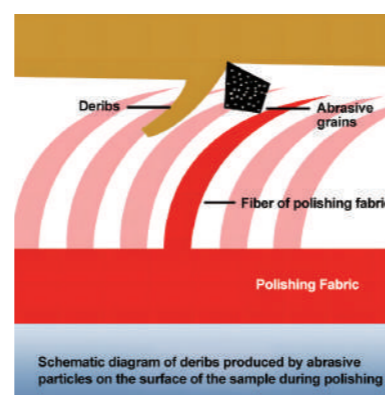
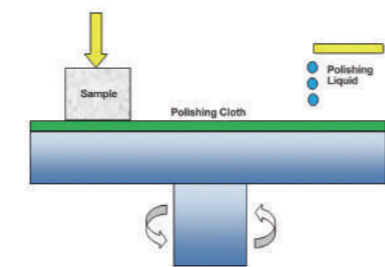
Polycrystalline Diamond Suspension

Monocrystalline/Polycrystalline Diamond Paste

- Diamond polishing paste is simple to use and easy to store.
- Diamond polishing paste is suitable for softer materials, reducing the chance of diamond embedding into the material.
- Apply the paste to the polishing cloth and draw a "cross" in the center of the cloth.
- Due to the high concentration and viscosity of the polishing paste, it needs to be used in conjunction with a lubricant.
- Our diamond polishing paste is non-toxic and environmentally friendly.



For particularly soft metals such as tin, lead, aluminum, indium, etc., diamond particles are easily embedded in the metal regardless of whether diamond polishing paste or polish is used. Therefore, diamond abrasives cannot be used for these materials, and it is recommended to use alumina polishing fluid. Polishing is the process of removing fine abrasions from the surface of a finely ground sample to obtain a bright, unmarked mirror finish. Polishing is basically the same mechanism as lapping. Commonly used polishing methods include mechanical polishing, electrolytic polishing, and chemical polishing. The most common polishing method is mechanical polishing. The abrasive particles are adsorbed on the fibers of the polishing fabric to form countless sharp planers, which remove the deformed layer of the metal surface according to their direction.

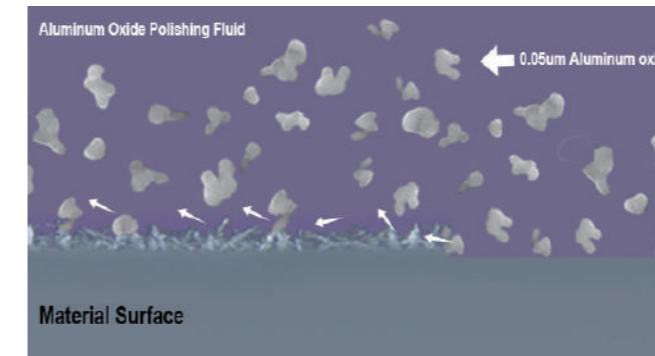


Precision Polishing Liquid

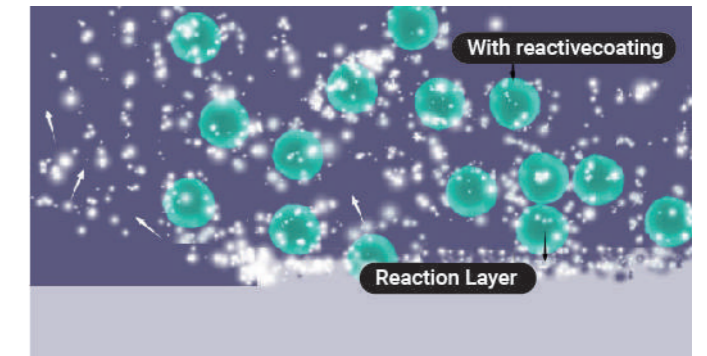
For general daily metallographic analysis, polishing with 1µm diamond polishing fluid can basically meet the requirements. However, when using high magnification, polarized light, differential interferometry, or performing EBSD analysis, there is often also a very thin surface deformation layer on the sample surface. These inspections are therefore impossible, so polishing must continue, using precision polishing fluids to remove this deformed layer.

When performing precision polishing, the polishing cloth should be completely soaked with pure water before adding polishing fluid to ensure that a sufficient amount of polishing fluid is added during the polishing process. When polishing, the rotation speed of the polishing disc should not be too fast and the polishing intensity should not be too strong. After the polishing step is completed, rinse the polishing cloth with clean water and polish intermittently for 30-60 seconds.

For EBSD analysis, a vibratory polisher is recommended for polishing.



Aluminum oxide is removed from the surface of the material by purely physical polishing.



SiO₂ particles react chemically with the reaction layer on the surface of the sample, and surface is polished by corrosion.

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.



SO-T401 Non-Crystallizing Silica

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



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.



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.)



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.



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.)



Monocrystalline Diamond Spray

- Simple to use, convenient, with polishing efficiency.



Product Information

Abrasive Paper

Silicon Carbide Disc

FEPA (Grit)	8in Plain Back [200mm]	10in Plain Back [250mm]	12in Plain Back [300mm]	Package	FEPA (Grit)	8in PSA [200mm]	10in PSA [250mm]	12in PSA [300mm]	Package
120	03.03.103	03.03.403	03.03.703	50pcs	120	03.04.203	03.04.503	03.04.803	50pcs
180	03.03.104	03.03.404	03.03.704	100pcs	180	03.04.204	03.04.504	03.04.804	100pcs
400	03.03.107	03.03.407	03.03.707	100pcs	400	03.04.207	03.04.507	03.04.807	100pcs
800	03.03.109	03.03.409	03.03.709	100pcs	800	03.04.209	03.04.509	03.04.809	100pcs
1200	03.03.111	03.03.411	03.03.711	100pcs	1200	03.04.211	03.04.511	03.04.811	100pcs
2000	03.03.113	03.03.413	03.03.713	100pcs	2000	03.04.213	03.04.513	03.04.813	100pcs
2500	03.03.114	03.03.414	03.03.714	100pcs	2500	03.04.214	03.04.514	03.04.814	100pcs
2400	03.03.115	03.03.415	03.03.715	100pcs	2400	03.04.215	03.04.515	03.04.815	100pcs
4000	03.03.116	03.03.416	03.03.716	100pcs	4000	03.04.216	03.04.516	03.04.816	100pcs

Alumina Disc

FEPA (Grit)	8in Plain Back [200mm]	10in Plain Back [250mm]	12in Plain Back [300mm]	Package	FEPA (Grit)	8in PSA [200mm]	10in PSA [250mm]	12in PSA [300mm]	Package
60	03.01.101	03.01.401	03.01.701	50pcs	60	03.02.401	03.02.501	03.02.801	50pcs
120	03.01.103	03.01.403	03.01.703	100pcs	120	03.02.403	03.02.503	03.02.803	100pcs
180	03.01.104	03.01.404	03.01.704	100pcs	180	03.02.404	03.02.504	03.02.804	100pcs
240	03.01.104-1	03.01.404-1	03.01.704-1	100pcs	240	03.02.404-1	03.02.504-1	03.02.804-1	100pcs
320	03.01.105	03.01.405	03.01.705	100pcs	320	03.02.405	03.02.505	03.02.805	100pcs
400	03.01.106	03.01.406	03.01.706	100pcs	400	03.02.406	03.02.506	03.02.806	100pcs
800	03.01.108	03.01.408	03.01.708	100pcs	800	03.02.408	03.02.508	03.02.808	100pcs
1200	03.01.110	03.01.410	03.01.710	100pcs	1200	03.02.410	03.02.510	03.02.810	100pcs

Diamond Grinding Disc

DiaNi Diamond Disc

FEPA (Grit)	8in DiaNi [200mm]	10in DiaNi [250mm]	12in DiaNi [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

FEPA (Grit)	8in DiaRe [200mm]	10in DiaRe [250mm]	12in DiaRe [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	●

Adapter Plate System

AD-PSA Plate

04.08.410	200mm	1pc
04.08.413	250mm	1pc
04.08.420	300mm	1pc

AD-Foil Plate

04.08.422	200mm	1pc
04.08.430	250mm	1pc
04.08.432	300mm	1pc

AD-PB Plate

04.08.310	200mm	1pc
04.08.320	250mm	1pc
04.08.330	300mm	1pc

Magnetic Plate

04.08.010	200mm	1pc
04.08.020	250mm	1pc
04.08.030	300mm	1pc

PF Diamond Polishing Film

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

Product Information

Polishing Cloth

Model	Rough Polishing		Fine Polishing				Final Polishing			
	NL-CP	GF-JP	SR-ZP	SC-JP	CS-JP	YS-JP	ZN-ZP	ET-JP	YR-JP	Final Red
Back	PSA	PSA	PSA	PSA	PSA	PSA	PSA	PSA	PSA	PSA
Package	10pcs	10pcs	10pcs	10pcs	10pcs	10pcs	10pcs	10pcs	10pcs	10pcs
8in [200mm]	05.06.610	05.10.010	05.02.150	05.05.510	05.12.110	05.07.710	05.01.110	05.03.210	05.04.310	05.13.110
10in [250mm]	05.06.620	05.10.020	05.02.160	05.05.520	05.12.120	05.07.720	05.01.120	05.03.220	05.04.320	05.13.120
12in [300mm]	05.06.630	05.10.030	05.02.170	05.05.530	05.12.130	05.07.730	05.01.130	05.03.230	05.04.330	05.13.130

Monocrystalline Diamond Suspension/Diamond Paste

Monocrystalline Diamond Suspension

Description	MD-WT (500ml)	PD-WT (500ml)
0.25um	06.01.110-1	06.02.210
0.5um	06.01.120-1	06.02.220
1um	06.01.130-1	06.02.230
3um	06.01.140-1	06.02.240
6um	06.01.150-1	06.02.250
9um	06.01.160-1	06.02.260

Diamond Paste

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

Precision Polishing Suspension

PL-W Polishing Lubricants

06.09.510	Liquid	500ml
06.09.520	Liquid	1000ml

PLW-B Polishing Lubricants

06.09.630	Liquid	5000ml
06.09.640	Liquid	500ml
06.09.650	Liquid	1000ml

SO-T401 Non-Crystallizing Silica

06.05.310	50nm	500ml
06.05.320	50nm	1000ml
06.05.330	50nm	5000ml

AO-W Alumina Suspension

06.04.210	0.05µm	500ml
06.04.220	0.3µm	500ml
06.04.230	1µm	500ml

Diamond Spray

	SP-DM	SP-DP	
06.03.310	0.25um	-	350ml
06.03.115	0.5um	06.03.510	350ml
06.03.320	1um	06.03.520	350ml
06.03.325	2.5um	06.03.530	350ml
06.03.335	5um	06.03.550	350ml
06.03.340	10um	06.03.560	350ml

SO-A439 Crystallizing Silica

06.07.310	50nm	500ml
06.07.320	50nm	1000ml
06.07.330	50nm	1000ml

AO-P De-agglomerated Alumina Polishing Powder

06.13.011	0.05µm	1LB
06.13.021	0.3µm	1LB
06.13.031	1µm	1LB

SO-A539 Crystallizing Silica

06.07.520	50nm	500ml
06.07.523	50nm	1000ml

For a complete list of consumables, please visit our website at www.trojanworld.com or refer to our product catalog. TROJAN continuously improves its products; therefore, technical specifications are subject to change without notice.

Thank you for your understanding.