

## CONSUMABLES FOR GRINDING/POLISHING PROCESS

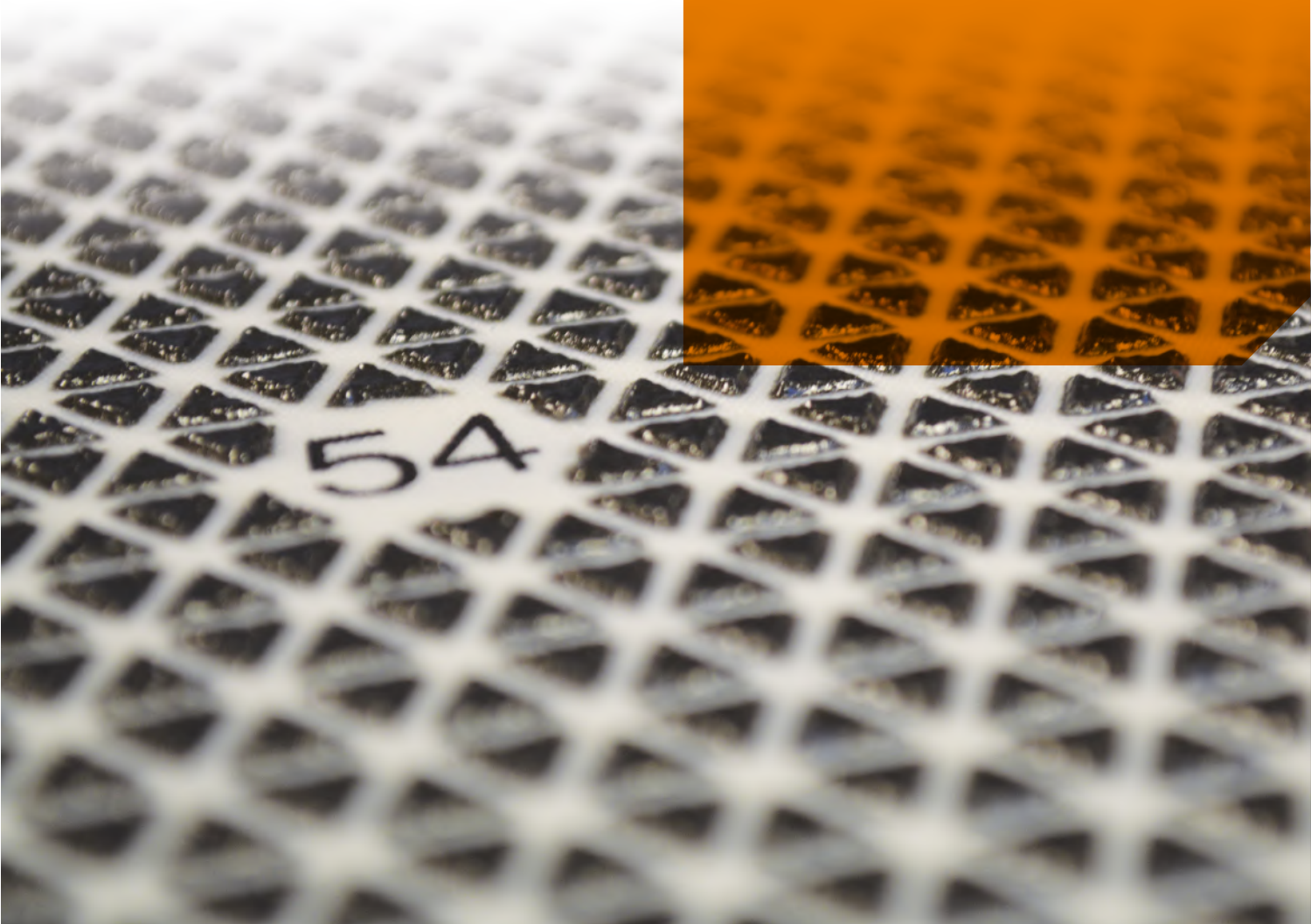
The final steps in metallographic sample preparation are grinding and polishing.

Grinding process is divided in two steps:

- planar grinding for removing surface irregularities
- fine grinding for obtaining a level surface.

Polishing process is necessary for fine grinding surface traces removal in preparation to microscope examination.

Good results depend on the right choice of consumables like abrasive papers, cloths, diamond and alumina suspensions which combined to the right machines parameters allow perfect sample preparation.



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## CONSUMABLES FOR GRINDING/POLISHING PROCESS

### SELECTION GUIDE

#### Grinding discs selection guide

Model	Description	Recommended use
Abrasive SIC-X	Water-resistant abrasive silicon carbide paper PSA	Soft non-metallic materials (soft rocks, polymers), metallic materials: non-ferrous metallic materials (aluminium, copper, nickel base, coatings), ferrous metallic materials (soft steel, low carbon, cast iron)
Abrasive SIC-Y	Water-resistant abrasive silicon carbide paper non PSA	Soft non-metallic materials (soft rocks, polymers), metallic materials: non-ferrous metallic materials (aluminium, copper, nickel base, coatings), ferrous metallic materials (soft steel, low carbon, cast iron)
Grinding-DX	Metallic or hard resin bonded diamond grinding discs for very hard non-metallic materials	Hard non-metallic materials (ceramics, glass, concrete)
Grinding-H2O	Soft resin bond diamond discs for hard metallic materials	Hard metallic materials (steels, refractory metals), used to reduce process time, for flat and fine grinding application and superior edge sharpness
Grinding-S	Grinding discs to be used with diamond suspensions Poly DS-01 and Mono DS-01	Hard and very hard materials (hardened steel), suitable for flat and fine grinding applications and pre-polishing

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Abrasive SIC-X					
Waterproof silicon carbide abrasive papers PSA (Pressure Sensitive Adhesive)					
Code	Diameter mm	Grit FEPA-P (ANSI/CAM)	Description	Q.ty/ pack	Weight kg
4200080	200	P80 (80)	Waterproof silicon carbide abrasive (PSA)	100	1,1
4200120	200	P120 (120)		100	1,1
4200180	200	P180 (180)		100	1,1
4200240	200	P240 (240)		100	1,1
4200320	200	P320 (280)		100	1,1
4200400	200	P400 (320)		100	1,1
4200600	200	P600 (380)		100	1,1
4200800	200	P800 (400)		100	1,1
4201000	200	P1000 (500)		100	1,1
4201200	200	P1200 (600)		100	1,1
4202400	200	P2400 (1000)		100	1,1
4204000	200	P4000 (1200)		100	1,1
4250080	250	P80 (80)		Waterproof silicon carbide abrasive paper (PSA)	100
4250120	250	P120 (120)	100		1,8
4250180	250	P180 (180)	100		1,8
4250240	250	P240 (240)	100		1,8
4250320	250	P320 (280)	100		1,8
4250400	250	P400 (320)	100		1,8
4250600	250	P600 (380)	100		1,8
4250800	250	P800 (400)	100		1,8
4251000	250	P1000 (500)	100		1,8
4251200	250	P1200 (600)	100		1,8
4252400	250	P2400 (1000)	100		1,8
4254000	250	P4000 (1200)	100		1,8
4300080	300	P80 (80)	Waterproof silicon carbide abrasive paper (PSA)		100
4300120	300	P120 (120)		100	2,7
4300180	300	P180 (180)		100	2,7
4300240	300	P240 (240)		100	2,7
4300320	300	P320 (280)		100	2,7
4300400	300	P400 (320)		100	2,7
4300600	300	P600 (380)		100	2,7
4300800	300	P800 (400)		100	2,7
4301000	300	P1000 (500)		100	2,7
4301200	300	P1200 (600)		100	2,7
4302400	300	P2400 (1000)		100	2,7
4304000	300	P4000 (1200)		100	2,7



## CONSUMABLES FOR GRINDING/POLISHING PROCESS

### Abrasive SIC-Y

#### Waterproof silicon carbide abrasive papers

Code	Diameter mm	Grit FEPA-P (ANSI/CAM)	Description	Q.ty/ pack	Weight kg
6200080	200	P80 (80)	Waterproof silicon carbide abrasive paper	100	1,2
6200120	200	P120 (120)		100	1,2
6200180	200	P180 (180)		100	1,2
6200240	200	P240 (240)		100	1,2
6200320	200	P320 (280)		100	1,2
6200400	200	P400 (320)		100	1,2
6200600	200	P600 (380)		100	1,2
6200800	200	P800 (400)		100	1,2
6201000	200	P1000 (500)		100	1,2
6201200	200	P1200 (600)		100	1,2
6202400	200	P2400 (1000)		100	1,2
6204000	200	P4000 (1200)		100	1,2
6250080	250	P80 (80)		Waterproof silicon carbide abrasive paper	100
6250120	250	P120 (120)	100		1,5
6250180	250	P180 (180)	100		1,5
6250240	250	P240 (240)	100		1,5
6250320	250	P320 (280)	100		1,5
6250400	250	P400 (320)	100		1,5
6250600	250	P600 (380)	100		1,5
6250800	250	P800 (400)	100		1,5
6251000	250	P1000 (500)	100		1,5
6251200	250	P1200 (600)	100		1,5
6252400	250	P2400 (1000)	100		1,5
6254000	250	P4000 (1200)	100		1,5
6300080	300	P80 (80)	Waterproof silicon carbide abrasive paper		100
6300120	300	P120 (120)		100	2
6300180	300	P180 (180)		100	2
6300240	300	P240 (240)		100	2
6300320	300	P320 (280)		100	2
6300400	300	P400 (320)		100	2
6300600	300	P600 (380)		100	2
6300800	300	P800 (400)		100	2
6301000	300	P1000 (500)		100	2
6301200	300	P1200 (600)		100	2
6302400	300	P2400 (1000)		100	2
6304000	300	P4000 (1200)		100	2

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### Grinding DX

#### Diamond grinding discs

Code	Diameter mm	Grit size $\mu$	Description	Q.ty	Weight kg
1520250	200	250	Metallic bond diamond grinding disc	1	0,3
1520125	200	125		1	0,3
1520075	200	75		1	0,3
1520040	200	40		1	0,3
1520030	200	30	Hard resin bond diamond grinding disc	1	0,3
1520020	200	20	Metallic bond diamond grinding disc	1	0,3
1520010	200	10	Hard resin bond diamond grinding disc	1	0,3
1525250	250	250	Metallic bond diamond grinding disc	1	0,4
1525125	250	125		1	0,4
1525075	250	75		1	0,4
1525040	250	40		1	0,4
1525030	250	30	Hard resin bond diamond grinding disc	1	0,4
1525020	250	20	Metallic bond diamond grinding disc	1	0,4
1525010	250	10	Hard resin bond diamond grinding disc	1	0,4
1530250	300	250	Metallic bond diamond grinding disc	1	0,4
1530125	300	125		1	0,4
1530075	300	75		1	0,4
1530040	300	40		1	0,4
1530030	300	30	Hard resin bond diamond grinding disc	1	0,4
1530020	300	20	Metallic bond diamond grinding disc	1	0,4
1530010	300	10	Hard resin bond diamond grinding disc	1	0,4

On request, Grinding-DX are available with metallic back for magnetic applications

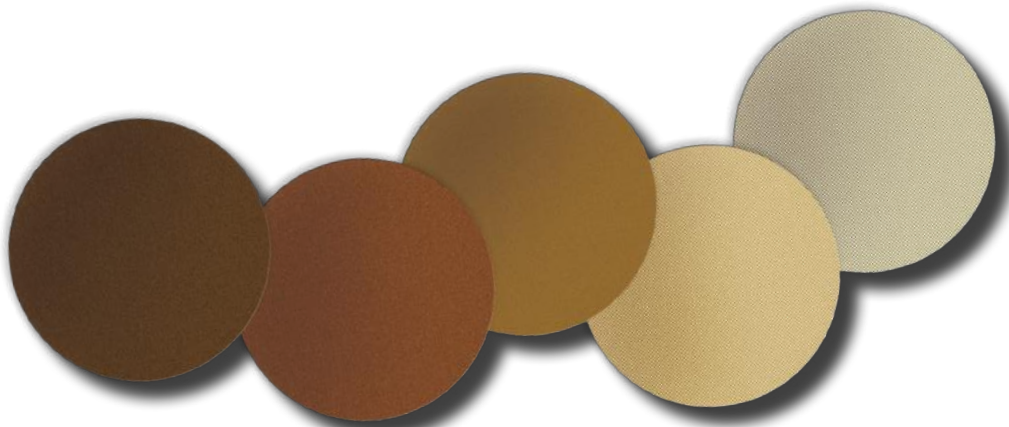
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### Grinding H2O

Diamond grinding discs water use

Code	Diameter mm	Grit size $\mu$	Description	Q.ty	Weight kg
2020125	200	125	Soft resin bond diamond grinding disc for hard and very hard materials with hardness >200HV	1	0,5
2020075	200	75		1	0,5
2020054	200	54		1	0,5
2020018	200	18		1	0,5
2025125	250	125	Soft resin bond diamond grinding disc for hard and very hard materials with hardness >200HV	1	0,5
2025075	250	75		1	0,5
2025054	250	54		1	0,5
2025018	250	18		1	0,5
2030125	300	125	Soft resin bond diamond grinding disc for hard and very hard materials with hardness >200HV	1	0,7
2030075	300	75		1	0,7
2030054	300	54		1	0,7
2030018	300	18		1	0,7

On request  $\varnothing$  350mm and  $\varnothing$  400mm available



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### Dressing stone for diamond grinding discs

Code	Model	Dimension mm	Abrasive	Usage	Q.ty	Weight kg
81GD000	Dressing stone-GD	50x60x100	Al <sub>2</sub> O <sub>3</sub>	Redressing diamond grinding discs models Grinding-DX and Grinding-H <sub>2</sub> O	1	0,3

### Magnetic discs for platen

Code	Model	Diameter mm	Usage	Q.ty	Weight kg
2300200	Magnetic-S	200	Stick on platen for metallic discs use	1	0,3
2300250		250		1	0,3
2300300		300		1	0,3

### Metallic discs for magnetic supports

Code	Model	Diameter mm	Usage	Q.ty	Weight kg
2400200	Metallic-D	200	Supports for adhesive pads for magnetic discs	1	0,3
2400250		250		1	0,4
2400300		300		1	0,5

### Grinding discs for diamond suspensions

Code	Model	Diameter mm	Suitable diamond suspension $\mu$	Description	Q.ty	Weight kg
1450200	Grinding-S	200	15, 9, 6	Grinding disc for hard steels and cast iron with hardness >130HV	1	0,2
1450250		250	15, 9, 6		1	0,3
1450300		300	15, 9, 6		1	0,3

### Zirconium oxide abrasive papers PSA

Code	Model	Diameter mm	Grit FEPA-P (ANSI/CAM)	Description	Q.ty/ pack	Weight kg
60ZO250	Abrasive-ZO	250	P80 (80)	Zirconium oxide abrasive paper adhesive, pressure sensitive, for material high removal rate	25	1,8
60ZO300		300	P80 (80)		25	2,3





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Lubricant water soluble			Lubricant-L
Code	Q.ty l	Description	Weight kg
2900100	1	Water soluble lubricant for lapping. Can be used with Grinding-H2O to increase grinding power. Can be mixed with alumina powder.	1,2
2900500	5		5,3
2901000	10		10,4















## CONSUMABLES FOR GRINDING/POLISHING PROCESS































### SELECTION GUIDE

#### Polishing cloths selection guide



<b>Woven cloths:</b>	<b>With laminated back to avoid abrasive penetration. Made of different fibres with hard surface polishing properties, assure flat pre-polishing without edge wear.</b>
<b>Non-woven cloths:</b>	<b>Made of plastic or latex impregnated fibres and sometimes chemical treated. Used for very hard materials (quartz, semi-conductor, glass) for high precision surface finishing.</b>
<b>Flocked cloths:</b>	<b>Classified according to flock length and density grade. Used for super-polished finishing. Flocked cloths must be used for the shortest time possible in order to avoid inclusions.</b>

Model	Type	Description	Main application	Recommended products	Suitable suspensions $\mu$	Adhesive	Metallic back-side
CER		Laminated, long durability	High and plan stock removal, excellent flatness	Diamond products	45, 30, 15, 9, 6	CER-X	CER-Z
ALL		Non-woven with internal film barrier	Plan polishing for medium, hard and very hard materials	Diamond products	15, 9, 6, 3	ALL-X	ALL-Z
PEC		Woven satin with internal barrier film	Higher material removal for all materials	Diamond products	15, 9, 6, 3	PEC-X	PEC-Z
MPE		Woven silk with thin adhesive film and PVC foil and internal barrier	Excellent flatness for all materials	Diamond products	9, 6, 3, 1	MPE-X	MPE-Z
BAG		Woven silk with internal barrier and thin adhesive film	Excellent flatness and semi-finishing for all materials	Diamond products	9, 6, 3, 1	BAG-X	BAG-Z
MAZ		Pure woven wool	Semi-finishing or finishing for medium and soft materials	Diamond products	6, 3	MAZ-X	MAZ-Z
LEA		Soft flocked with internal barrier film	Flatness, semi-finishing and finishing for all materials	Diamond products	9, 6, 3, 1	LEA-X	LEA-Z
ROS		Soft flocked	Flatness, semi-finishing and finishing for all materials	Diamond products	6, 3, 1	ROS-X	ROS-Z
RIZ		Extra-soft flocked	Semi-finishing and finishing for all materials	Diamond products, fine alumina	3, 1, 0,25	RIZ-X	RIZ-Z
CAB		Buffed polyurethane	Super-finishing for all materials	Colloidal silica, extra fine alumina	1 to 0,04	CAB-X	CAB-Z

## CONSUMABLES FOR GRINDING/POLISHING PROCESS

Polishing cloth, pressure sensitive adhesive						
Code	Model	Diameter mm	Colour	Description	Q.ty/ pack	Weight kg
4620020	CER-X	200		Laminated polishing cloth pressure sensitive adhesive	10	0,3
4620001	ALL-X	200		Non-woven polishing cloth pressure sensitive adhesive	5	0,3
4620002	PEC-X	200		Woven satin polishing cloth pressure sensitive adhesive	5	0,3
4620003	MPE-X	200		Woven silk polishing cloth with PVC intermediate layer pressure sensitive adhesive	5	0,3
4620004	BAG-X	200		Woven silk polishing cloth pressure sensitive adhesive	5	0,3
4620005	MAZ-X	200		100% pure woven wool polishing cloth pressure sensitive adhesive	5	0,3
4620006	LEA-X	200		Soft flocked polishing cloth pressure sensitive adhesive	5	0,3
4620007	ROS-X	200		Soft flocked polishing cloth pressure sensitive adhesive	5	0,3
4620008	RIZ-X	200		Extra-soft polishing cloth pressure sensitive adhesive	5	0,3
4620009	CAB-X	200		Buffed polyurethane polishing cloth pressure sensitive adhesive	5	0,3
4625020	CER-X	250		Laminated polishing cloth pressure sensitive adhesive	10	0,3
4625001	ALL-X	250		Non-woven polishing cloth pressure sensitive adhesive	5	0,3
4625002	PEC-X	250		Woven satin polishing cloth pressure sensitive adhesive	5	0,3
4625003	MPE-X	250		Woven silk polishing cloth with PVC intermediate layer pressure sensitive adhesive	5	0,3
4625004	BAG-X	250		Woven silk polishing cloth pressure sensitive adhesive	5	0,3
4625005	MAZ-X	250		100% pure woven wool polishing cloth pressure sensitive adhesive	5	0,3
4625006	LEA-X	250		Soft flocked polishing cloth pressure sensitive adhesive	5	0,3
4625007	ROS-X	250		Soft flocked polishing cloth pressure sensitive adhesive	5	0,3
4625008	RIZ-X	250		Extra-soft polishing cloth pressure sensitive adhesive	5	0,3
4625009	CAB-X	250		Buffed polyurethane polishing cloth pressure sensitive adhesive	5	0,3
4630020	CER-X	300		Laminated polishing cloth pressure sensitive adhesive	10	0,4
4630001	ALL-X	300		Non-woven polishing cloth pressure sensitive adhesive	5	0,4
4630002	PEC-X	300		Woven satin polishing cloth pressure sensitive adhesive	5	0,4
4630003	MPE-X	300		Woven silk polishing cloth with PVC intermediate layer pressure sensitive adhesive	5	0,4
4630004	BAG-X	300		Woven silk polishing cloth pressure sensitive adhesive	5	0,4
4630005	MAZ-X	300		100% pure woven wool polishing cloth pressure sensitive adhesive	5	0,4
4630006	LEA-X	300		Soft flocked polishing cloth pressure sensitive adhesive	5	0,4
4630007	ROS-X	300		Soft flocked polishing cloth pressure sensitive adhesive	5	0,4
4630008	RIZ-X	300		Extra-soft polishing cloth pressure sensitive adhesive	5	0,4
4630009	CAB-X	300		Buffed polyurethane polishing cloth pressure sensitive adhesive	5	0,4

## CONSUMABLES FOR GRINDING/POLISHING PROCESS

Polishing cloth, magnetic base						
Code	Model	Diameter mm	Colour	Description	Q.ty/ pack	Weight kg
4620019	CER-Z	200		Laminated polishing cloth magnetic back-side	10	0,3
4620010	ALL-Z	200		Non-woven polishing cloth magnetic back-side	5	0,3
4620011	PEC-Z	200		Woven satin polishing cloth magnetic back-side	5	0,3
4620012	MPE-Z	200		Woven silk polishing cloth with PVC intermediate layer magnetic back-side	5	0,3
4620013	BAG-Z	200		Woven silk polishing cloth magnetic back-side	5	0,3
4620014	MAZ-Z	200		100% pure woven wool polishing cloth magnetic back-side	5	0,3
4620015	LEA-Z	200		Soft flocked polishing cloth magnetic back-side	5	0,3
4620016	ROS-Z	200		Soft flocked polishing cloth magnetic back-side	5	0,3
4620017	RIZ-Z	200		Extra-soft polishing cloth magnetic back-side	5	0,3
4620018	CAB-Z	200		Buffed polyurethane polishing cloth magnetic back-side	5	0,3
4625019	CER-Z	250		Laminated polishing cloth magnetic back-side	10	0,3
4625010	ALL-Z	250		Non-woven polishing cloth magnetic back-side	5	0,3
4625011	PEC-Z	250		Woven satin polishing cloth magnetic back-side	5	0,3
4625012	MPE-Z	250		Woven silk polishing cloth with PVC intermediate layer magnetic back-side	5	0,3
4625013	BAG-Z	250		Woven silk polishing cloth magnetic back-side	5	0,3
4625014	MAZ-Z	250		100% pure woven wool polishing cloth magnetic back-side	5	0,3
4625015	LEA-Z	250		Soft flocked polishing cloth magnetic back-side	5	0,3
4625016	ROS-Z	250		Soft flocked polishing cloth magnetic back-side	5	0,3
4625017	RIZ-Z	250		Extra-soft polishing cloth magnetic back-side	5	0,3
4625018	CAB-Z	250		Buffed polyurethane polishing cloth magnetic back-side	5	0,3
4630019	CER-Z	300		Laminated polishing cloth magnetic back-side	10	0,4
4630010	ALL-Z	300		Non-woven polishing cloth magnetic back-side	5	0,4
4630011	PEC-Z	300		Woven satin polishing cloth magnetic back-side	5	0,4
4630012	MPE-Z	300		Woven silk polishing cloth with PVC intermediate layer magnetic back-side	5	0,4
4630013	BAG-Z	300		Woven silk polishing cloth magnetic back-side	5	0,4
4630014	MAZ-Z	300		100% pure woven wool polishing cloth magnetic back-side	5	0,4
4630015	LEA-Z	300		Soft flocked polishing cloth magnetic back-side	5	0,4
4630016	ROS-Z	300		Soft flocked polishing cloth magnetic back-side	5	0,4
4630017	RIZ-Z	300		Extra-soft polishing cloth magnetic back-side	5	0,4
4630018	CAB-Z	300		Buffed polyurethane polishing cloth magnetic back-side	5	0,4

## CONSUMABLES FOR GRINDING/POLISHING PROCESS

### SELECTION GUIDE

#### Diamond polishing products selection guide

Model	Type	Description	Recommended lubricant
Mono DS-01	Suspension	Water base coloured monocrystalline permanent diamond suspension, high concentration for polishing. Recommended for all materials. To be used with or without lubricant.	Lubricant-WB
Poly DS-01	Suspension	Water base polycrystalline permanent diamond suspension, high concentration for polishing. Recommended for hard materials. To be used with or without lubricant.	Lubricant-WB
Mono DS-21	Suspension	2in1 Water base coloured monocrystalline permanent diamond suspension, special formula with more lubricant, more smooth and high concentration for more time grip on cloths. Recommended for all materials. To be used without lubricant.	/
Poly DS-21	Suspension	2in1 Water base polycrystalline permanent diamond suspension, special formula with more lubricant, more smooth and high concentration for more time grip on cloths. Recommended for all materials. To be used without lubricant.	/
Mono DS-HC	Suspension	Coloured monocrystalline permanent diamond suspension, creamy formulation, without water, alcohol and oil, very high concentration. Recommended for all materials.	Lubricant-AB/Lubricant-WB/ Lubricant-WAB
Poly DS-HC	Suspension	Polycrystalline permanent diamond suspension, creamy formulation, without water, alcohol and oil, very high concentration. Recommended for all materials.	Lubricant-AB/Lubricant-WB/ Lubricant-WAB
Mono DS-AB	Suspension	Alcohol base coloured monocrystalline diamond suspension, with high concentration and very high polishing power. Recommended for all materials.	Lubricant-AB
Poly DS-AB	Suspension	Alcohol base polycrystalline diamond suspension, with high concentration and very high polishing power. Recommended for all hard materials.	Lubricant-AB
Mono DP	Paste	Water base monocrystalline diamond paste. Recommended for polishing soft materials.	Lubricant-WB
Poly DP	Paste	Water base polycrystalline diamond paste. Recommended for polishing hard materials.	Lubricant-WB
Mono SD	Spray	Water base monocrystalline diamond spray. Recommended for polishing all materials.	Lubricant-WB
Poly SD	Spray	Water base polycrystalline diamond spray. Recommended for polishing hard materials.	Lubricant-WB
Alcohol base		Alcohol base products are suitable for polishing materials very sensitive to corrosion. Observation of inclusions.	
Water base		Water base products are suitable for other application, monocrystalline and polycrystalline types are used as follow: - Monocrystalline products are used for normal polishing operations and are suitable for all types of materials. - Polycrystalline products are used for quick and high quality polishing of materials like ceramics, cast iron, carbides, treated steels. These products minimize deep scratches while keeps high removal materials rate.	

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## DIAMOND SUSPENSIONS

Mono DS-01					
Water base monocrystalline diamond suspensions					
Code	Grit size $\mu$	Colour	Description	Q.ty l	Weight kg
8002505	0,25	Grey	Suitable for all materials, easy to clean and biodegradable	0,5	0,8
8010005	1	Blue		0,5	0,8
8030005	3	Green		0,5	0,8
8060005	6	Yellow		0,5	0,8
8090005	9	Orange		0,5	0,8
8150005	15	Red		0,5	0,8
8002510	0,25	Grey	Suitable for all materials, easy to clean and biodegradable	1	1,3
8010010	1	Blue		1	1,3
8030010	3	Green		1	1,3
8060010	6	Yellow		1	1,3
8090010	9	Orange		1	1,3
8150010	15	Red		1	1,3
8002525	0,25	Grey	Suitable for all materials, easy to clean and biodegradable	2,5	2,6
8010025	1	Blue		2,5	2,6
8030025	3	Green		2,5	2,6
8060025	6	Yellow		2,5	2,6
8090025	9	Orange		2,5	2,6
8150025	15	Red		2,5	2,6
8002550	0,25	Grey	Suitable for all materials, easy to clean and biodegradable	5	5,4
8010050	1	Blue		5	5,4
8030050	3	Green		5	5,4
8060050	6	Yellow		5	5,4
8090050	9	Orange		5	5,4
8150050	15	Red		5	5,4









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Poly DS-01					
Water base polycrystalline diamond suspensions					
Code	Grit size $\mu$	Colour	Description	Q.ty l	Weight kg
9002505	0,25	●	Suitable for hard materials, easy to clean and biodegradable	0,5	0,8
9010005	1	●		0,5	0,8
9030005	3	●		0,5	0,8
9060005	6	●		0,5	0,8
9090005	9	●		0,5	0,8
9150005	15	●		0,5	0,8
9002510	0,25	●	Suitable for hard materials, easy to clean and biodegradable	1	1,3
9010010	1	●		1	1,3
9030010	3	●		1	1,3
9060010	6	●		1	1,3
9090010	9	●		1	1,3
9150010	15	●		1	1,3
9002525	0,25	●	Suitable for hard materials, easy to clean and biodegradable	2,5	2,6
9010025	1	●		2,5	2,6
9030025	3	●		2,5	2,6
9060025	6	●		2,5	2,6
9090025	9	●		2,5	2,6
9150025	15	●		2,5	2,6
9002550	0,25	●	Suitable for hard materials, easy to clean and biodegradable	5	5,4
9010050	1	●		5	5,4
9030050	3	●		5	5,4
9060050	6	●		5	5,4
9090050	9	●		5	5,4
9150050	15	●		5	5,4







## CONSUMABLES FOR GRINDING/POLISHING PROCESS







### Mono DS-21

2in1 monocrystalline diamond suspensions

Code	Grit size $\mu$	Colour	Description	Q.ty l	Weight kg
6002505	0,25		Suitable for all materials, easy to clean and biodegradable more lubricant and more smooth	0,5	0,8
6010005	1			0,5	0,8
6030005	3			0,5	0,8
6060005	6			0,5	0,8
6090005	9			0,5	0,8
6150005	15			0,5	0,8

6002510	0,25		Suitable for all materials, easy to clean and biodegradable more lubricant and more smooth	1	1,3
6010010	1			1	1,3
6030010	3			1	1,3
6060010	6			1	1,3
6090010	9			1	1,3
6150010	15			1	1,3

6002525	0,25		Suitable for all materials, easy to clean and biodegradable more lubricant and more smooth	2,5	2,6
6010025	1			2,5	2,6
6030025	3			2,5	2,6
6060025	6			2,5	2,6
6090025	9			2,5	2,6
6150025	15			2,5	2,6





6002550	0,25		Suitable for all materials, easy to clean and biodegradable more lubricant and more smooth	5	5,4
6010050	1			5	5,4
6030050	3			5	5,4
6060050	6			5	5,4
6090050	9			5	5,4
6150050	15			5	5,4



















## CONSUMABLES FOR GRINDING/POLISHING PROCESS

Poly DS-21 2in1 polycrystalline diamond suspensions					
Code	Grit size $\mu$	Colour	Description	Q.ty l	Weight kg
7002505	0,25	●	Suitable for hard materials, easy to clean and biodegradable more lubricant and more smooth	0,5	0,8
7010005	1	●		0,5	0,8
7030005	3	●		0,5	0,8
7060005	6	●		0,5	0,8
7090005	9	●		0,5	0,8
7150005	15	●		0,5	0,8
7002510	0,25	●	Suitable for hard materials, easy to clean and biodegradable more lubricant and more smooth	1	1,3
7010010	1	●		1	1,3
7030010	3	●		1	1,3
7060010	6	●		1	1,3
7090010	9	●		1	1,3
7150010	15	●		1	1,3
7002525	0,25	●	Suitable for hard materials, easy to clean and biodegradable more lubricant and more smooth	2,5	2,6
7010025	1	●		2,5	2,6
7030025	3	●		2,5	2,6
7060025	6	●		2,5	2,6
7090025	9	●		2,5	2,6
7150025	15	●		2,5	2,6
7002550	0,25	●	Suitable for hard materials, easy to clean and biodegradable more lubricant and more smooth	5	5,4
7010050	1	●		5	5,4
7030050	3	●		5	5,4
7060050	6	●		5	5,4
7090050	9	●		5	5,4
7150050	15	●		5	5,4

## CONSUMABLES FOR GRINDING/POLISHING PROCESS

Mono DS-HC					
Monocrystalline diamond suspensions very high concentration, water, oil and alcohol free					
Code	Grit size $\mu$	Colour	Description	Q.ty l	Weight kg
9100105	1		Suitable for all materials, easy to clean, biodegradable and not hazardous	0,5	0,8
9100305	3			0,5	0,8
9100605	6			0,5	0,8
9100905	9			0,5	0,8

Poly DS-HC					
Polycrystalline diamond suspensions very high concentration, water, oil and alcohol free					
Code	Grit size $\mu$	Colour	Description	Q.ty l	Weight kg
9200105	1		Suitable for hard materials, easy to clean, biodegradable and not hazardous	0,5	0,8
9200305	3			0,5	0,8
9200605	6			0,5	0,8
9200905	9			0,5	0,8

Mono DS-AB					
Alcohol base monocrystalline diamond suspensions					
Code	Grit size $\mu$	Colour	Description	Q.ty l	Weight kg
4002505	0,25		Suitable for all materials and water sensitive materials, very high polishing power, easy to clean and biodegradable	0,5	0,8
4010005	1			0,5	0,8
4030005	3			0,5	0,8
4060005	6			0,5	0,8
4090005	9			0,5	0,8
4150005	15			0,5	0,8
4002510	0,25		Suitable for all materials and water sensitive materials, very high polishing power, easy to clean and biodegradable	1	1,3
4010010	1			1	1,3
4030010	3			1	1,3
4060010	6			1	1,3
4090010	9			1	1,3
4150010	15			1	1,3

## CONSUMABLES FOR GRINDING/POLISHING PROCESS

Poly DS-AB					
Alcohol base polycrystalline diamond suspensions					
Code	Grit size $\mu$	Colour	Description	Q.ty l	Weight kg
5002505	0,25	●	Suitable for all hard materials and water sensitive materials, very high polishing power, easy to clean and biodegradable	0,5	0,8
5010005	1	●		0,5	0,8
5030005	3	●		0,5	0,8
5060005	6	●		0,5	0,8
5090005	9	●		0,5	0,8
5150005	15	●		0,5	0,8

5002510	0,25	●	Suitable for all hard materials and water sensitive materials, very high polishing power, easy to clean and biodegradable	1	1,3
5010010	1	●		1	1,3
5030010	3	●		1	1,3
5060010	6	●		1	1,3
5090010	9	●		1	1,3
5150010	15	●		1	1,3

### DIAMOND PASTES

Mono DP					
Monocrystalline diamond pastes					
Code	Grit size $\mu$	Colour	Description	Q.ty g	Weight kg
Mono DP-0.5	0,5	●	Suitable for soft materials	5	0,2
Mono DP-1	1	●		5	0,2
Mono DP-1.5	1,5	●		5	0,2
Mono DP-2	2	●		5	0,2
Mono DP-2.5	2,5	●		5	0,2
Mono DP-3	3	●		5	0,2
Mono DP-3.5	3,5	●		5	0,2
Mono DP-5	5	●		5	0,2
Mono DP-6	6	●		5	0,2
Mono DP-7	7	●		5	0,2
Mono DP-9	9	●		5	0,2
Mono DP-10	10	●		5	0,2



## CONSUMABLES FOR GRINDING/POLISHING PROCESS

Poly DP Polycrystalline diamond pastes					
Code	Grit size $\mu$	Colour	Description	Q.ty g	Weight kg
Poly DP-0.5	0,5	●	Suitable for hard materials	5	0,2
Poly DP-1	1	●		5	0,2
Poly DP-1.5	1,5	●		5	0,2
Poly DP-2	2	●		5	0,2
Poly DP-2.5	2,5	●		5	0,2
Poly DP-3	3	●		5	0,2
Poly DP-3.5	3,5	●		5	0,2
Poly DP-5	5	●		5	0,2
Poly DP-6	6	●		5	0,2
Poly DP-7	7	●		5	0,2
Poly DP-9	9	●		5	0,2
Poly DP-10	10	●		5	0,2

### DIAMOND SPRAYS

Mono SD Monocrystalline diamond sprays					
Code	Grit size $\mu$	Colour	Description	Q.ty ml	Weight kg
Mono SD-0.5	0,5	●	Suitable for all materials	350	0,4
Mono SD-1	1	●		350	0,4
Mono SD-1.5	1,5	●		350	0,4
Mono SD-2.5	2,5	●		350	0,4
Mono SD-3.5	3,5	●		350	0,4
Mono SD-5	5	●		350	0,4
Mono SD-6	6	●		350	0,4
Mono SD-7	7	●		350	0,4
Mono SD-9	9	●		350	0,4
Mono SD-10	10	●		350	0,4

Poly SD Polycrystalline diamond sprays					
Code	Grit size $\mu$	Colour	Description	Q.ty ml	Weight kg
Poly SD-0.25	0,5	●	Suitable for hard materials	200	0,3
Poly SD-0.5	0,5	●		200	0,3
Poly SD-1	1	●		200	0,3
Poly SD-3	3	●		200	0,3
Poly SD-6	6	●		200	0,3
Poly SD-9	9	●		200	0,3
Poly SD-15	15	●		200	0,3



## CONSUMABLES FOR GRINDING/POLISHING PROCESS

### LUBRICANTS

Lubricant-WB Water base lubricants				
Code	Colour	Application	Q.ty l	Weight kg
7150010	●	Water base lubricant	1	1,2
7150025	●		2,5	2,8
7150050	●		5	5,3
7150100	●		10	10,4

Lubricant-WAB Water and alcohol base lubricants				
Code	Colour	Application	Q.ty l	Weight kg
72500101	●	Water and alcohol base lubricant	1	1,2
72500251	●		2,5	2,8
72500501	●		5	5,3
72501001	●		10	10,4

Lubricant-AB Alcohol base lubricants				
Code	Colour	Application	Q.ty l	Weight kg
7350010	●	Alcohol base lubricant	1	1,2
7350025	●		2,5	2,8
7350050	●		5	5,3
7350100	●		10	10,4



## CONSUMABLES FOR GRINDING/POLISHING PROCESS

### COLLOIDAL SILICA & ALUMINA PRODUCTS

For final high quality mirror sample surfaces.

#### CS-SW

Colloidal silica suspensions white

Code	Colour	Description	Q.ty l	Weight kg
3300100	○	Super-finishing with anticrystallization agent	1	1,3
3300250	○		2,5	3,3
3300500	○		5	6,5

#### CS-SP

Colloidal silica suspensions pink

Code	Colour	Description	Q.ty l	Weight kg
3400100	●	Super-finishing with anticrystallization agent and more aggressive	1	1,3
3400250	●		2,5	3,3
3400500	●		5	6,5

#### CS-SB




Colloidal silica suspensions blue

Code	Colour	Description	Q.ty l	Weight kg
3500100	●	Super-finishing for ferrous materials with anticrystallization agent and Al <sub>2</sub> O <sub>3</sub>	1	1,3
3500250	●		5	6,5






## CONSUMABLES FOR GRINDING/POLISHING PROCESS

### Alumina-C Alumina creams

Code	Grit size $\mu$	Quality	Colour	Description	Q.ty l	Weight kg
3600410	0,04	Gamma		Super-finishing neutral pH	1	1,3
3603010	0,3	Alpha			1	1,3
3610010	1	Alpha			1	1,3

### Alumina-SS Alumina smooth suspensions

Code	Grit size $\mu$	Quality	Colour	Description	Q.ty l	Weight kg
3700410	0,04	Gamma		Super-finishing, slower dry and high concentration, with lubricant	1	1,3
3703010	0,3	Alpha			1	1,3
3710010	1	Alpha			1	1,3

### Alumina-WB Alumina suspensions

Code	Grit size $\mu$	Quality	Description	Q.ty l	Weight kg
3800410	0,04	Gamma	Super-finishing, water base suspension	1	1,1
3803010	0,3	Alpha	Super-finishing, water base suspension	1	1,1
3810010	1	Alpha	Finishing, water base suspension	1	1,1

### Alumina-P Alumina powders

Code	Grit size $\mu$	Quality	Description	Q.ty kg	Weight kg
3900410	0,04	Gamma	Super-finishing	1	1,2
3903010	0,3	Alpha		1	1,2
3910010	1	Alpha	High-finishing	1	1,2
4010010	1	Standard	Finishing	1	1,2
4030010	3	Standard	Semi-finishing	1	1,2
4050010	5	Standard		1	1,2
4090010	9	Standard		1	1,2
4150010	15	Standard	Lapping	1	1,2
4300010	30	Standard		1	1,2

