



Consumables for grinding



Grinding

Mechanical grinding is a machining process using bonded abrasive grains to level and smooth the specimen surface. This process is divided into three categories in materialography as follows:



Typically, silicon carbide (SiC), aluminum dioxide (Al₂O₃), silicon dioxide (SiO₂), zirconium dioxide (ZrO₂), diamond or cubic boron nitride (CBN) are used as abrasives. Particular attention must be paid here to low-deformation material removal and at the same time to keeping the number of preparation steps as low as possible. A wide range of QPREP grinding media is available for this purpose.

Qprep Planar grinding stones

If highest stock removal with highest planarity in the shortest time is required, the use of a planar grinding stone in materialographic specimen preparation is essential. In combination with our powerful automatic Qgrid XL planar grinding machine or our grinding and polishing automat Qpol 300 BOT, even high sample throughputs can be efficiently planar ground.



PRODUCT ADVANTAGES

- | Short machining time
- | Excellent planarity for all materials
- | Optimized removal rates with Qgrid XL stock removal monitoring
- | Ideal preparatory work for polishing on our Qpol polishing machine series

RECOMMENDED APPLICATIONS

- | Primary material control with high sample throughput
- | Serial inspections

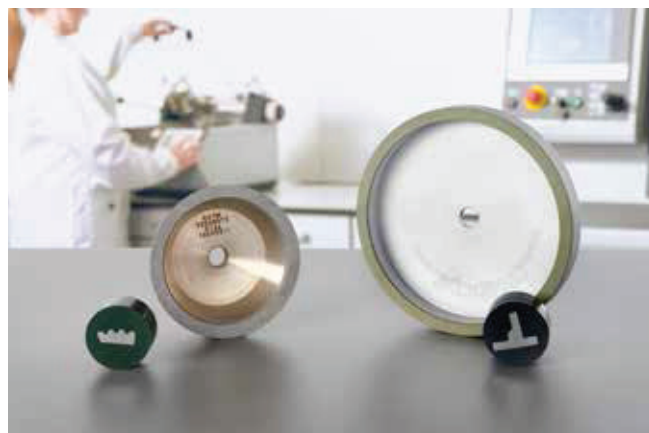
Item No.	Unit	Description
PLANAR GRINDING STONES FOR QGRIND XL		
Grain Size FEPA standard	Outer Ø	Inner Ø
Abor Size Ø		
White corundum grinding stone		
• for tool steel (hardened and not hardened), stainless steel, steel and cast iron		
95016741	1 Pc.	100 356 mm 126 mm 38 mm
NEW 95017565	1 Pc.	150 356 mm 126 mm 38 mm
SIC grinding stone		
• for sintered materials (low- and unalloyed), aluminum, chilled cast iron, copper		
NEW 95016746	1 Pc.	80 356 mm 126 mm 38 mm
95016747	1 Pc.	150 356 mm 126 mm 38 mm
Multi point dressing diamond for dressing face grinding stones		
95016897	1 Pc.	Multi point dressing diamond



Item No.	Unit	Description			
PLANAR GRINDING STONES FOR SAPHIR 375 AND QPOL 300 BOT					
		Grain Size FEPA standard	Outer Ø	Inner Ø	Arbor Size Ø
White corundum grinding stone <ul style="list-style-type: none">• for tool steel (hardened and not hardened), stainless steel, steel and cast iron• glued on metal carrier plate					
95000180	1 Pc.	100	350 mm	90 mm	40 mm
95000210	1 Pc.	150	350 mm	90 mm	40 mm
95002034	1 Pc.	180	350 mm	90 mm	40 mm
SIC grinding stone <ul style="list-style-type: none">• for sintered materials (low- and unalloyed), aluminum, chilled cast iron, copper• glued on metal carrier plate					
95002223	1 Pc.	80	350 mm	90 mm	40 mm
Inner diameter 120 mm on request					
Multi point dressing diamond for dressing face grinding stones					
92008759	1 Pc.	Multi point dressing diamond			

Qprep Diamond cup grinder

If a specimen with parallel faces is desired after precision cutting the use of a diamond cup wheel for further processing is recommended. Used in our precision cutting machines Qcut 150 M, Qcut 150 A and Qcut 200 A with vacuum specimen holder, the QPREP diamond cup grinder enable the user to achieve optimum planar parallelism with high surface quality and reproducibility.



PRODUCT ADVANTAGES

- Planar parallel sample preparation
- Stock removal with high accuracy
- Very high repeat accuracy

RECOMMENDED APPLICATIONS

- Target preparation
- Defect analysis
- Thin section technology
- Petrographic examinations

Item No.	Unit	Description				
DIAMOND CUP GRINDER						
		Ø	Thickness	Height	Arbor Size	Grain Size
• for glass fiber reinforced plastics and printed circuit boards • with galvanic bond						
92006607	1 Pc.	150 mm	8 mm	35 mm	12.7 mm	D126
• for glass, ceramics, rocks, hard metal • with resin bond						
95017564	1 Pc.	150 mm	8 mm	21.5 mm	12.7 mm	D252
95015123	1 Pc.	150 mm	8 mm	21.5 mm	12.7 mm	D151
95017562	1 Pc.	150 mm	8 mm	21.5 mm	12.7 mm	D126
95015122	1 Pc.	150 mm	8 mm	21.5 mm	12.7 mm	D64
95017563	1 Pc.	150 mm	8 mm	21.5 mm	12.7 mm	D12

Grinding Discs

QPREP provides a comprehensive portfolio of grinding discs with different bond systems, grain types and gain sizes. This way always allows to find the best solutions for individual requirements. All abrasive elements are on a metal carrier. So they can be directly applied on the QPREP magnetic foil without further tools. The grinding elements have just minimal resilience and ensure a planar surface with high edge retention. By this, it will gain stock removal free of smearing and chipping. QPREP grinding discs realize short preparation times and have in parallel long life times. Thus, will importantly contributes to a sustainable and resource-saving process in materialography.

PRODUCT ADVANTAGES

- High lifetime
- High planarity
- Sample preparation with high edge retention
- Sustainable and eco-friendly

Range of grinding and polishing systems

FEPA	P60	P80-100	P100-120	P180-320	P400-600	P800-1000	P5000	material hardness
GALAXY		GREY	RED	GREEN	BLUE	YELLOW		> 350 HV
Grain size (µm)	250		125	60	30	15	6	3 material hardness
POLARIS M				60	30	15	6	3 250 – 600 HV
POLARIS H			125	60	30	15	6	3 > 500 HV
QUASAR	250		125	91 46				> 500 HV
VEGA			125	75 54	25		10	universal

Removal rate*

GALAXY	<div></div>
POLARIS M	<div></div>
POLARIS H	<div></div>
QUASAR	<div></div>
VEGA	<div></div>

Surface quality*

GALAXY	<div></div>
POLARIS M	<div></div>
POLARIS H	<div></div>
QUASAR	<div></div>
VEGA	<div></div>

*with newly dressed / cleaned disc and same grit sizes



Qprep Magnetic foil

For low resilience during grinding (or polishing) as well as best adhesion and easy handling of the QPREP GALAXY grinding discs (or polishing cloths), the QPREP magnetic foil is perfectly suited.



PRODUCT ADVANTAGES

- Low resilience
- One time application on the working disc of the machine
- Long service life
- Different magnet. field strengths

RECOMMENDED APPLICATIONS

- For the use of all GALAXY grinding discs and polishing cloths
- Frequent change of grinding discs and polishing cloths

Item No.	Unit	Description	
MAGNETIC FOIL, SELF-ADHESIVE			
		Ø	thickness
Magnetic foil, strong adhesion			
• to apply on working wheel			
95016345	1 Pc.	200 mm	1 mm
95016346	1 Pc.	250 mm	1 mm
95012161	1 Pc.	300 mm	1 mm
95014137	1 Pc.	350 mm	1 mm
Magnetic foil, strongest adhesion			
• to apply on working wheel			
• Increased magnetic adhesion by higher material thickness			
95016300	1 Pc.	250 mm	2 mm
95016301	1 Pc.	300 mm	2 mm



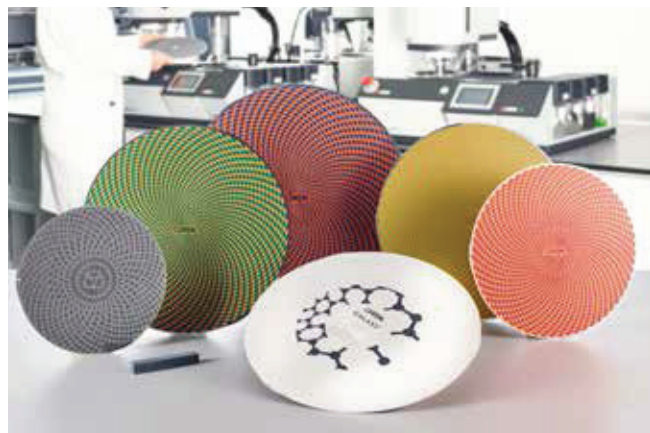
Applying the magnetic foil



Placing e.g. a diamond grinding disc on the magnetic foil

Qprep GALAXY diamond grinding disc

QPREP GALAXY diamond grinding discs are equipped with specially arranged elements, which contains resin-bonded diamond grains, on a stainless-steel metal carrier. They are used for planar and fine grinding of medium-hard and hard materials. The color-coded grinding discs cover the FEPA grain sizes P80 to P1000. The color coding for the individual grain size ranges can be found in the application table.



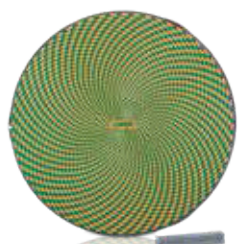
PRODUCT ADVANTAGES

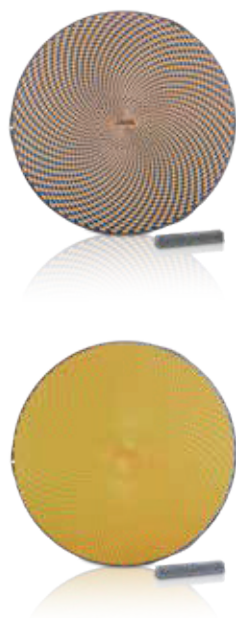
- | High stock removal
- | Short processing times
- | High planarity

RECOMMENDED APPLICATIONS

- | Steel with medium and high hardness
- | Cast iron (CJS / CJL)
- | Composites
- | Hard metal
- | Glass

Item No.	Unit	Description	
GALAXY DIAMOND GRINDING DISCS			
BOND: RESIN			
Description			Ø
for medium to hard materials			
• planar grinding: grey			
(P80 – P100)			
• Fixation system: Magnetic foil			
95005505	1 Pc.	GALAXY diamond grinding disc grey	200 mm
95004279	1 Pc.	GALAXY diamond grinding disc grey	250 mm
95004280	1 Pc.	GALAXY diamond grinding disc grey	300 mm
95013917	1 Pc.	GALAXY diamond grinding disc grey	350 mm
incl. dressing stone No. 95006603			
for medium to hard materials			
• planar grinding: red			
(P100 – P120)			
• Fixation system: Magnetic foil			
95005521	1 Pc.	GALAXY diamond grinding disc red	200 mm
95004310	1 Pc.	GALAXY diamond grinding disc red	250 mm
95004314	1 Pc.	GALAXY diamond grinding disc red	300 mm
95013918	1 Pc.	GALAXY diamond grinding disc red	350 mm
incl. dressing stone No. 95006603			
for medium to hard materials			
• fine grinding: green			
(P180 – P320)			
• Fixation system: Magnetic foil			
95005522	1 Pc.	GALAXY diamond grinding disc green	200 mm
95004311	1 Pc.	GALAXY diamond grinding disc green	250 mm
95004315	1 Pc.	GALAXY diamond grinding disc green	300 mm
95013919	1 Pc.	GALAXY diamond grinding disc green	350 mm
incl. dressing stone No. 95006603			





Item No.	Unit	Description	
GALAXY DIAMOND GRINDING DISCS BOND: RESIN			
		Description	Ø
for medium to hard materials			
• fine grinding: blue (P400 – P600)			
• Fixation system: Magnetic foil			
95005523	1 Pc.	GALAXY diamond grinding disc blue	200 mm
95004312	1 Pc.	GALAXY diamond grinding disc blue	250 mm
95004316	1 Pc.	GALAXY diamond grinding disc blue	300 mm
95013920	1 Pc.	GALAXY diamond grinding disc blue	350 mm
incl. dressing stone No. 95006603			
for medium to hard materials			
• fine grinding: yellow (P800 – P1000)			
• Fixation system: Magnetic foil			
95005524	1 Pc.	GALAXY diamond grinding disc yellow	200 mm
95004313	1 Pc.	GALAXY diamond grinding disc yellow	250 mm
95004317	1 Pc.	GALAXY diamond grinding disc yellow	300 mm
95013921	1 Pc.	GALAXY diamond grinding disc yellow	350 mm
incl. dressing stone No. 95006603			

Grid to grain size conversion chart

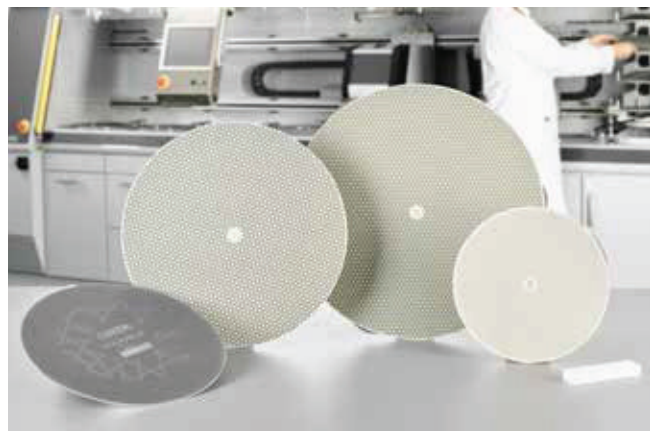
The values provided are only intended as guidelines. Grit sizes are considered as a range, rather than a specific value.

The Federation of European Producers of Abrasives, known as FEPA, and the American National Standards Institute, known as ANSI, as well as the Japanese Industrial Standards Committee (JISC) are the respective organizations that define these standards and are the basis for the conversion. QPREP abrasive paper conforms to the European FEPA P standard.

Grain size [µm]	201	125	82	60	46	30	22	15	8	5
FEPA P (Europe)	P80	P120	P180	P240	P320	P500	P800	P1.200	P2.500	P4.000
ANSI/CAMI (USA)	#80	#100	#150	#220	#280	#360	#400	#600	#1.000	#1.200
JIS (Japan)	~J60	J100	J150	J320	J360	J600	J700	J1.000	J2.000	J3.000

Qprep POLARIS M diamond grinding disc

QPREP Polaris M is a grinding disc on a zinc-plated metal carrier for pre- and fine grinding of medium-hard materials. The back of the product is coated with a high-quality non-slip print. The grinding disc is equipped with diamonds bonded in medium-hard synthetic resin. The functional back print provides secure adhesion to the magnetic foil.

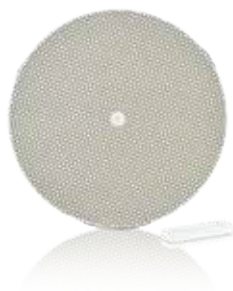


PRODUCT ADVANTAGES

- | High stock removal
- | Particularly high planarity with high surface quality
- | Long lifetime

RECOMMENDED APPLICATIONS

- | Metal materials of medium hardness < 500 HV
- | Polymer materials
- | Composites
- | Ceramics

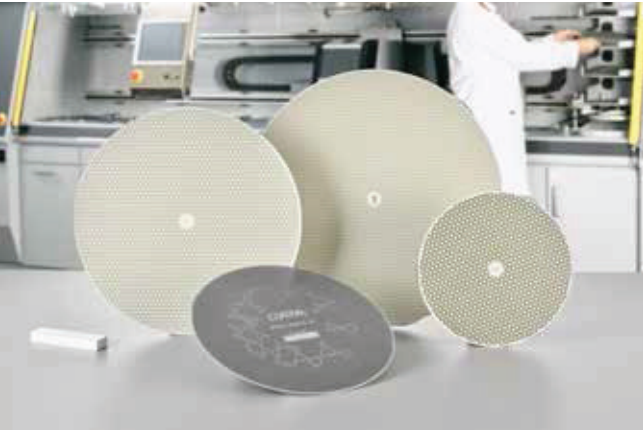


Item No.	Unit	Description
POLARIS M DIAMOND GRINDING DISCS		
Description		Grain Size
for medium-hard materials		
• incl. cleaning stone No. (95015077)		
• Fixation system: Magnetic foil		
250 mm Ø		
95015016	1 Pc.	POLARIS M diamond grinding disc 60 µm
95015017	1 Pc.	POLARIS M diamond grinding disc 30 µm
95015018	1 Pc.	POLARIS M diamond grinding disc 15 µm
95015019	1 Pc.	POLARIS M diamond grinding disc 6 µm
95015020	1 Pc.	POLARIS M diamond grinding disc 3 µm
300 mm Ø		
95015041	1 Pc.	POLARIS M diamond grinding disc 60 µm
95015042	1 Pc.	POLARIS M diamond grinding disc 30 µm
95015043	1 Pc.	POLARIS M diamond grinding disc 15 µm
95015044	1 Pc.	POLARIS M diamond grinding disc 6 µm
95015045	1 Pc.	POLARIS M diamond grinding disc 3 µm

Notes

Qprep POLARIS H diamond grinding disc

QPREP Polaris H is a grinding disc on a zinc-plated metal carrier for pre- and fine grinding of hard materials. The back of the product is coated with a high-quality non-slip print. The grinding disc is equipped with diamonds bonded in hard synthetic resin. The functional back print provides secure adhesion to the magnetic foil.

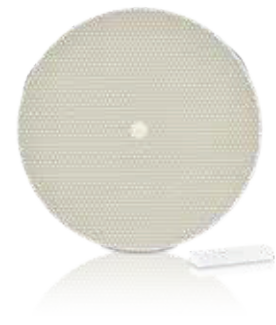


PRODUCT ADVANTAGES

- High stock removal
- Particularly high planarity with high surface quality
- Long lifetime

RECOMMENDED APPLICATIONS

- Metal materials of higher hardness > 500HV
- Fiber reinforced plastics
- Composites
- Ceramics
- Rocks

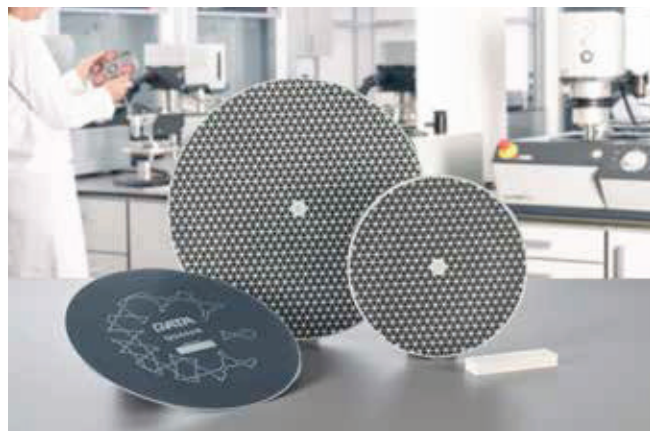


Item No.	Unit	Description
POLARIS H DIAMOND GRINDING DISCS		
		Description
		Grain Size
for hard materials		
• incl. cleaning stone No. (95015077)		
• Fixation system: Magnetic foil		
250 mm Ø		
95015010	1 Pc.	POLARIS H diamond grinding disc 125 µm
95015011	1 Pc.	POLARIS H diamond grinding disc 60 µm
95015012	1 Pc.	POLARIS H diamond grinding disc 30 µm
95015013	1 Pc.	POLARIS H diamond grinding disc 15 µm
95015014	1 Pc.	POLARIS H diamond grinding disc 6 µm
95015015	1 Pc.	POLARIS H diamond grinding disc 3 µm
300 mm Ø		
95015035	1 Pc.	POLARIS H diamond grinding disc 125 µm
95015036	1 Pc.	POLARIS H diamond grinding disc 60 µm
95015037	1 Pc.	POLARIS H diamond grinding disc 30 µm
95015038	1 Pc.	POLARIS H diamond grinding disc 15 µm
95015039	1 Pc.	POLARIS H diamond grinding disc 6 µm
95015040	1 Pc.	POLARIS H diamond grinding disc 3 µm

Notes

Qprep QUASAR diamond grinding disc

QPREP Quasar is a grinding disc on a zinc-plated metal carrier for planar- and pre grinding of hard materials. The back of the product is coated with a high-quality non-slip print. The grinding disc is equipped with diamonds bonded in hard epoxy resin. The functional back print provides secure adhesion to the magnetic foil.



PRODUCT ADVANTAGES

- | High stock removal
- | Particularly high planarity with high surface quality
- | Very long lifetime

RECOMMENDED APPLICATIONS

- | Hard ferrous materials
- | Nickel base-super alloys
- | Hard metals
- | Ceramics



Item No.	Unit	Description
QUASAR DIAMOND GRINDING DISCS		
		Description
		Grain Size
for hard materials		
• incl. dressing stone No. (95015076)		
• Fixation system: Magnetic foil		
250 mm Ø		
95015006	1 Pc.	QUASAR diamond grinding disc 252 µm
95015007	1 Pc.	QUASAR diamond grinding disc 125 µm
95015008	1 Pc.	QUASAR diamond grinding disc 91 µm
95015009	1 Pc.	QUASAR diamond grinding disc 46 µm
300 mm Ø		
95015031	1 Pc.	QUASAR diamond grinding disc 252 µm
95015032	1 Pc.	QUASAR diamond grinding disc 125 µm
95015033	1 Pc.	QUASAR diamond grinding disc 91 µm
95015034	1 Pc.	QUASAR diamond grinding disc 46 µm

Notes

Qprep VEGA diamond grinding disc

QPREP Vega is a grinding disc on a zinc-plated metal carrier for planar and pre-grinding of hard materials. On the back side the product is coated with a high-quality non-slip print. The grinding disc is equipped with diamonds bonded in nickel. The functional back print provides secure adhesion to the magnetic foil.



PRODUCT ADVANTAGES

- | High stock removal
- | Particularly high planarity
- | Very long lifetime

RECOMMENDED APPLICATIONS

- | Hard ferrous materials
- | Composites
- | Ceramics
- | Rocks
- | Possible to grind unmounted samples
- | Especially recommended for manual preparations

Item No.	Unit	Description
VEGA DIAMOND GRINDING DISCS		
		Description
		Grain Size
for hard materials, for planar and pre-grinding		
• Fixation system: Magnetic foil		
200 mm Ø		
95015001	1 Pc.	VEGA diamond grinding disc 125 µm
95015002	1 Pc.	VEGA diamond grinding disc 75 µm
95015003	1 Pc.	VEGA diamond grinding disc 54 µm
95015004	1 Pc.	VEGA diamond grinding disc 25 µm
95015005	1 Pc.	VEGA diamond grinding disc 10 µm
250 mm Ø		
95015026	1 Pc.	VEGA diamond grinding disc 125 µm
95015027	1 Pc.	VEGA diamond grinding disc 75 µm
95015028	1 Pc.	VEGA diamond grinding disc 54 µm
95015029	1 Pc.	VEGA diamond grinding disc 25 µm
95015030	1 Pc.	VEGA diamond grinding disc 10 µm
300 mm Ø		
95015051	1 Pc.	VEGA diamond grinding disc 125 µm
95015052	1 Pc.	VEGA diamond grinding disc 75 µm
95015053	1 Pc.	VEGA diamond grinding disc 54 µm
95015054	1 Pc.	VEGA diamond grinding disc 25 µm
95015055	1 Pc.	VEGA diamond grinding disc 10 µm
350 mm Ø		
95016235	1 Pc.	VEGA diamond grinding disc 125 µm
95016236	1 Pc.	VEGA diamond grinding disc 75 µm
95016237	1 Pc.	VEGA diamond grinding disc 54 µm
95016238	1 Pc.	VEGA diamond grinding disc 25 µm
95016239	1 Pc.	VEGA diamond grinding disc 10 µm



Qprep CONTERO fine grinding discs

QPREP Contero S and H are a general purpose fine grinding discs with a specially arranged inflexible grinding surface. The grinding elements consist of a reinforced composite matrix and are mounted on a stainless metal carrier. During the fine grinding process, diamond suspension is regularly fed to the disc, in this way the diamonds partially are implant in the functional surface. This leads to high stock removal rates and creates very low-deformation sample surfaces, which can be polished easily and efficiently afterwards.



CONTERO S:

PRODUCT ADVANTAGES

- | High stock removal rate and flatness
- | Long lifetime
- | High edge retention
- | Compatible with diamond suspensions from 6 to 15 µm grain size

RECOMMENDED APPLICATIONS

- | Ideal for soft to medium-hard materials with a hardness of < 300 HV
- | Composites with soft matrix
- | Edge examinations
- | Characterization of layer systems
- | High sample throughput

CONTERO H:

PRODUCT ADVANTAGES

- | Maintenance-free and ready to use out of the box
- | High surface quality and homogeneous scratch pattern
- | High stock removal rate, flatness and edge retention
- | Long lifetime
- | Compatible with diamond suspensions from 6 to 15 µm grain size

RECOMMENDED APPLICATIONS

- | Ideal for medium-hard to hard materials with a hardness of 300 HV or more
- | Edge examinations
- | Characterization of hard coatings
- | Sintered Carbides
- | Cermets (ceramic composite with metal matrix)
- | High sample throughput



Item No.	Unit	Description
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CONTERO S FINE GRINDING DISCS

Description

Ø

for soft to medium-hard materials

• Fixation system: Magnetic foil

95013194	1 Pc.	Contero S fine grinding disc	250 mm
95013196	1 Pc.	Contero S fine grinding disc	300 mm

CONTERO H FINE GRINDING DISCS

Description

Ø

for medium-hard to hard materials

• Fixation system: Magnetic foil

-	-	Contero H fine grinding disc	250 mm	(will follow soon)
NEW 95017606	1 Pc.	Contero H fine grinding disc	300 mm	

Item No.	Unit	Description
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CLEANING BRUSHES

Description

• for cleaning of grinding and fine grinding discs

95016623	1 Pc.	Nylon brush
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Grinding papers and foils

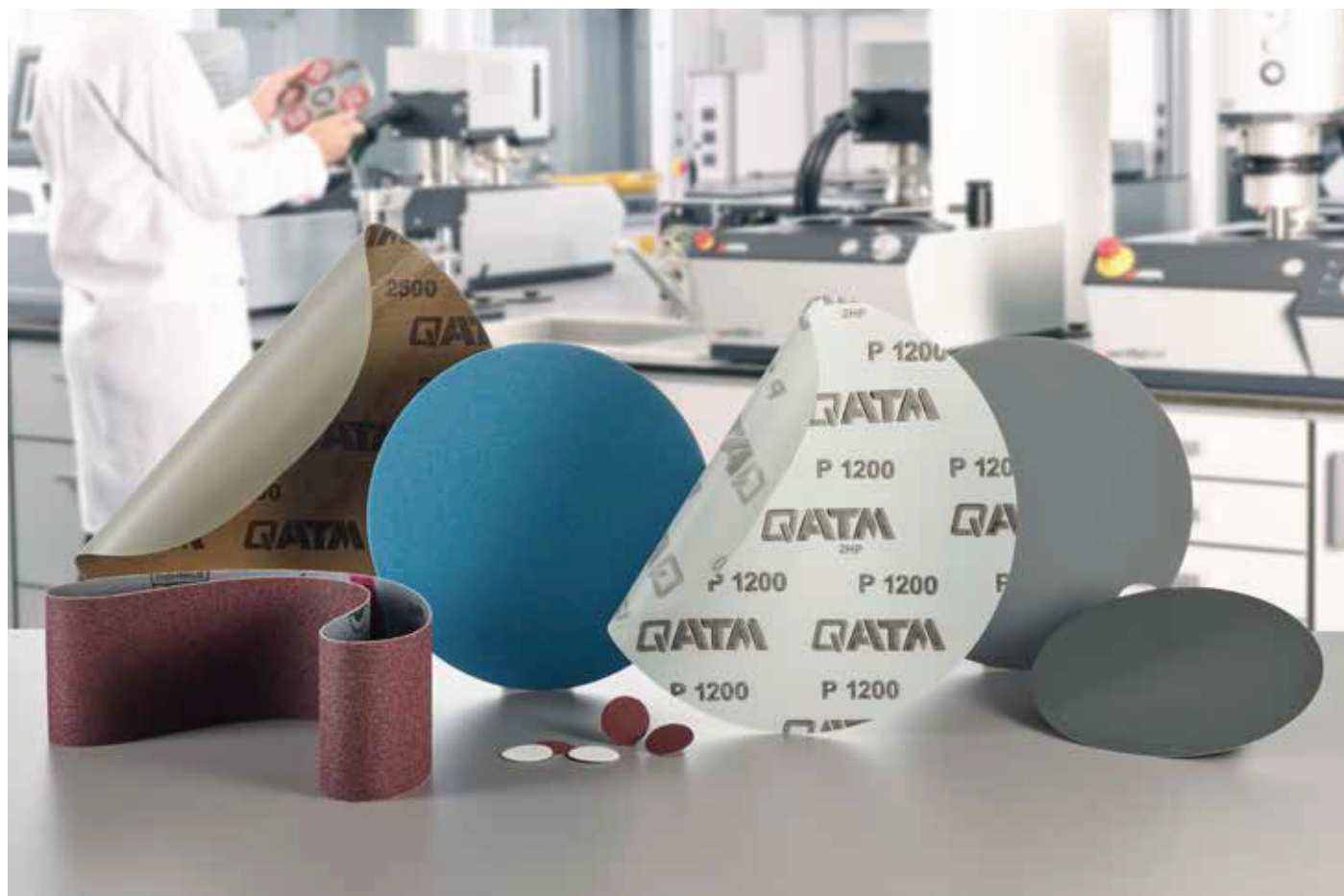
As an alternative to QPREP grinding discs, specimen preparation is also possible using QPREP grinding papers and foils. These differ in the type of carrier material and the possibility of the fixation systems to be used (double-sided adhesive carrier, GALAXY X-Tap, GALAXY Quick-Tap).

Grinding papers:

- I Foiled back, carrier material paper
- I Self-adhesive back, carrier material paper
- I Paper back, carrier material paper

Grinding foils:

- I Back foil, carrier material foil



Notes

FIXATION SYSTEM FOR GRINDING FOILS AND PAPERS WITH FOIL BACKING

Qprep Adhesive carrier disc

The QPREP adhesive carrier is characterized by a nano-surface, which ensured good adhesion and easy removal of the grinding medium.

**PRODUCT ADVANTAGES**

- | No glue backing, therefore no glue residues
- | Good adhesion to work disc as well as good adhesion to grinding paper and grinding foil
- | Easy removal and repositioning of grinding paper and grinding foil
- | Double sided permanent adhesive and reusable

RECOMMENDED APPLICATIONS

- | For direct application to the working disc
- | For use with grinding paper and grinding foil

Item No.	Unit	Description
ADHESIVE CARRIER DISCS, DOUBLE-SIDED		
Ø		
95003607	1 Pc.	250 mm
95003608	1 Pc.	300 mm
95014566	1 Pc.	350 mm

before initial use please remove protective foil on both sides



Applying the adhesive carrier disc



Placing e.g. a grinding paper with foil backing on the adhesive carrier disc

Notes

Qprep Silicon carbide grinding foils

QPREP silicon carbide grinding foils can be used individually and are ideally suited for a wide range of varied materials. They offer a high degree of flexibility, especially for frequently changing material variants. Furthermore, the foils are ideally suited for the "Vakujet" vacuum fixation in the QATM automatic grinding and polishing machine Qpol 300 Bot. QPREP silicon carbide grinding foils are available in diameters of 250 and 300 mm and in 8 different grain sizes.



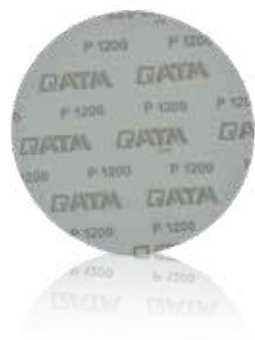
PRODUCT ADVANTAGES

- | Suitable for vacuum fixation
- | Particularly high planarity
- | No curling
- | Tear and water resistant, so weakening during the grinding process can be excluded
- | Low resilience
- | Multiple uses possible in connection with QPREP adhesive carrier disc

RECOMMENDED APPLICATIONS

- | All-purpose usage
- | Suitable for planar, pre- and fine grinding steps due to different grain sizes

Item No.	Unit	Description
SILICON CARBIDE GRINDING FOILS		
Grain FEPA standard		
• Fixation system: Adhesive carrier disc		
250 mm Ø		
92008557	100 Pcs.	SiC grinding foil P120
92008558	100 Pcs.	SiC grinding foil P180
95000899	100 Pcs.	SiC grinding foil P240
92006305	100 Pcs.	SiC grinding foil P320
92006304	100 Pcs.	SiC grinding foil P600
95000900	100 Pcs.	SiC grinding foil P800
92008559	100 Pcs.	SiC grinding foil P1200
92008639	100 Pcs.	SiC grinding foil P2500
300 mm Ø		
92008561	100 Pcs.	SiC grinding foil P120
92008658	100 Pcs.	SiC grinding foil P180
95000902	100 Pcs.	SiC grinding foil P240
92006303	100 Pcs.	SiC grinding foil P320
92006302	100 Pcs.	SiC grinding foil P600
95000903	100 Pcs.	SiC grinding foil P800
92008562	100 Pcs.	SiC grinding foil P1200
92008621	100 Pcs.	SiC grinding foil P2500



Notes

Qprep Silicon carbide grinding paper with foil backing

Silicon carbide grinding paper with foil backing can be used individually and are ideally suited for a wide range of varied materials. They offer a high degree of flexibility, especially for frequently changing material variants. Furthermore, the foiled paper enables the use of the "Vakujet" vacuum fixation in the QATM automatic grinding and polishing machine Qpol 300 Bot. QPREP silicon carbide grinding paper with foil backing is available in diameters of 200 / 250 / 300 / and 350 mm and in 12 different grain sizes.



PRODUCT ADVANTAGES

- ▮ Suitable for vacuum fixation
- ▮ Directionally oriented applied abrasive grains with homogeneous distribution for a high cutting effect and efficient material removal
- ▮ Ideally suited for the QPREP adhesive carrier disc
- ▮ 12 grain sizes for a wide range of applications

RECOMMENDED APPLICATIONS

- ▮ All-purpose usage
- ▮ Suitable for planar, pre- and fine grinding steps due to different grain sizes

Item No.	Unit	Description
SILICON CARBIDE GRINDING PAPER WITH FOIL BACKING		
Grain FEPA standard		
• Fixation system: Adhesive carrier disc		
200 mm Ø		
95011898	100 Pcs.	SiC grinding paper with foil backing P80
95011899	100 Pcs.	SiC grinding paper with foil backing P120
95011900	100 Pcs.	SiC grinding paper with foil backing P180
95011901	100 Pcs.	SiC grinding paper with foil backing P240
95011902	100 Pcs.	SiC grinding paper with foil backing P320
95011903	100 Pcs.	SiC grinding paper with foil backing P400
95011904	100 Pcs.	SiC grinding paper with foil backing P500
95011905	100 Pcs.	SiC grinding paper with foil backing P600
95011906	100 Pcs.	SiC grinding paper with foil backing P800
95011907	100 Pcs.	SiC grinding paper with foil backing P1000
95011908	100 Pcs.	SiC grinding paper with foil backing P1200
95011909	100 Pcs.	SiC grinding paper with foil backing P2500
250 mm Ø		
95011928	100 Pcs.	SiC grinding paper with foil backing P80
95011929	100 Pcs.	SiC grinding paper with foil backing P120
95011930	100 Pcs.	SiC grinding paper with foil backing P180
95011931	100 Pcs.	SiC grinding paper with foil backing P240
95011932	100 Pcs.	SiC grinding paper with foil backing P320
95011933	100 Pcs.	SiC grinding paper with foil backing P400
95011934	100 Pcs.	SiC grinding paper with foil backing P500
95011935	100 Pcs.	SiC grinding paper with foil backing P600
95011936	100 Pcs.	SiC grinding paper with foil backing P800
95011937	100 Pcs.	SiC grinding paper with foil backing P1000
95011938	100 Pcs.	SiC grinding paper with foil backing P1200
95011939	100 Pcs.	SiC grinding paper with foil backing P2500



FIXATION SYSTEM FOR SELF-ADHESIVE GRINDING PAPER

Qprep GALAXY X-Tap

The QPREP GALAXY X-Tap is ideally suited for fast and residue-free attachment of self-adhesive grinding papers and polishing cloths. This special attachment system offers minimal impact elasticity and can be applied as QPREP GALAXY X-Tap with metal backing plate to the QPREP magnetic foil.

**PRODUCT ADVANTAGES**

- Quick change of self-adhesive grinding paper or self-adhesive polishing cloths without adhesive residues
- Low resilience, due to the thin and solid structure of the QPREP GALAXY X-Tap
- Easier cleaning compared to adhesive carrier disc

RECOMMENDED APPLICATIONS

- Preparations with high edge sharpness
- Carrier plate for self-adhesive grinding paper and self-adhesive polishing cloths

Item No.	Unit	Description
GALAXY X-TAP		
		Ø



GALAXY X-Tap (for using with magnetic foil)		
95017019	1 Pc.	200 mm
95017020	1 Pc.	250 mm
95017021	1 Pc.	300 mm
95017022	1 Pc.	350 mm



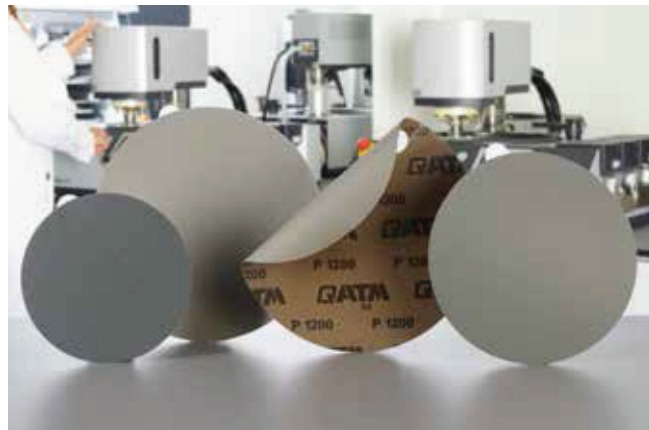
Applying GALAXY X-Tap on magnetic foil



Placing e.g. self-adhesive grinding paper on GALAXY X-Tap

Qprep Silicon carbide grinding papers, self-adhesive

Self-adhesive QPREP silicon carbide grinding papers can be used individually and are ideally suited for a wide range of varied materials. They offer a high degree of flexibility, especially for frequently changing material variants. The use of the QPREP GALAXY X-Tap fixation system allows efficient and non-residual changing of the grinding paper between the different grinding stages. Self-adhesive QPREP silicon carbide grinding paper is available in diameters of 200 / 250 / and 300 mm and in 13 different grain sizes.



PRODUCT ADVANTAGES

- Directionally oriented applied abrasive grains with homogeneous distribution for a high cutting effect and efficient material removal
- Very high adhesion on the fixation system
- Low resilience in conjunction with QPREP GALAXY X-Tap

RECOMMENDED APPLICATIONS

- All-purpose usage
- Suitable for planar, pre- and fine grinding steps due to different grain sizes

Item No.	Unit	Description
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SILICON CARBIDE GRINDING PAPERS, SELF-ADHESIVE

Grain FEPA standard

• Fixation system: GALAXY X-Tap

200 mm Ø

92002544	100 Pcs.	SiC grinding paper	P80
92002545	100 Pcs.	SiC grinding paper	P120
92002546	100 Pcs.	SiC grinding paper	P180
92002547	100 Pcs.	SiC grinding paper	P240
92002548	100 Pcs.	SiC grinding paper	P320
92002549	100 Pcs.	SiC grinding paper	P400
92004516	100 Pcs.	SiC grinding paper	P600
92002550	100 Pcs.	SiC grinding paper	P800
92002551	100 Pcs.	SiC grinding paper	P1000
92002638	100 Pcs.	SiC grinding paper	P1200
92002761	100 Pcs.	SiC grinding paper	2400*
92004561	100 Pcs.	SiC grinding paper	P2500
92002762	100 Pcs.	SiC grinding paper	4000*

*slurry coated, for a finer surface finish

250 mm Ø

92001643	100 Pcs.	SiC grinding paper	P80
92001644	100 Pcs.	SiC grinding paper	P120
92001645	100 Pcs.	SiC grinding paper	P180
92004953	100 Pcs.	SiC grinding paper	P240
92001647	100 Pcs.	SiC grinding paper	P320
92001648	100 Pcs.	SiC grinding paper	P400
92001649	100 Pcs.	SiC grinding paper	P600
92001650	100 Pcs.	SiC grinding paper	P800
92001651	100 Pcs.	SiC grinding paper	P1000
92001652	100 Pcs.	SiC grinding paper	P1200
92002763	100 Pcs.	SiC grinding paper	2400*
92004563	100 Pcs.	SiC grinding paper	P2500
92002764	100 Pcs.	SiC grinding paper	4000*

*slurry coated, for a finer surface finish



Item No.	Unit	Description
SILICON CARBIDE GRINDING PAPERS, SELF-ADHESIVE		
Grain FEPA standard		
• Fixation system: GALAXY X-Tap		
300 mm Ø		
92001654	100 Pcs.	SiC grinding paper P80
92001655	100 Pcs.	SiC grinding paper P120
92001657	100 Pcs.	SiC grinding paper P180
92001658	100 Pcs.	SiC grinding paper P240
92001659	100 Pcs.	SiC grinding paper P320
92001660	100 Pcs.	SiC grinding paper P400
92001661	100 Pcs.	SiC grinding paper P600
92001662	100 Pcs.	SiC grinding paper P800
92001663	100 Pcs.	SiC grinding paper P1000
92001664	100 Pcs.	SiC grinding paper P1200
92002765	100 Pcs.	SiC grinding paper 2400*
92004564	100 Pcs.	SiC grinding paper P2500
92002766	100 Pcs.	SiC grinding paper 4000*

*slurry coated, for a finer surface finish

Qprep Zirconia alumina grinding papers, self-adhesive

QPREP Zirconia alumina grinding papers are high-performance grinding papers with a long lifetime for planar and pre-grinding. The zirconia alumina grain used constantly releases new cutting surfaces during the grinding process and enables efficient stock removal even at high contact forces. The grinding paper is free of silicon carbide and is therefore also suitable for sample preparation for



optical emission spectrometry (spectral analysis OES). QPREP zirconia alumina grinding paper is available in diameters of 200 / 250 / and 300 mm and in 3 different pre-grinding grit sizes.

PRODUCT ADVANTAGES

- Long lifetime
- Very high stock removal
- Low resilience in conjunction with QPREP GALAXY X-Tap

RECOMMENDED APPLICATIONS

- Planar and pre-grinding of larger specimen cross-sections
- Sample preparation for spectral analysis

Item No.	Unit	Description
ZIRCONIA ALUMINA GRINDING PAPERS, SELF-ADHESIVE		
Grain FEPA standard		
• Fixation system: GALAXY X-Tap		
200 mm Ø		
92002374	25 Pcs.	Zirconia alumina grinding paper P60
92002376	25 Pcs.	Zirconia alumina grinding paper P180
250 mm Ø		
92002382	25 Pcs.	Zirconia alumina grinding paper P60
92002383	25 Pcs.	Zirconia alumina grinding paper P120
92002384	25 Pcs.	Zirconia alumina grinding paper P180
300 mm Ø		
92002386	25 Pcs.	Zirconia alumina grinding paper P60
92002387	25 Pcs.	Zirconia alumina grinding paper P120
92002388	25 Pcs.	Zirconia alumina grinding paper P180



FIXATION SYSTEM FOR SILICON GRINDING PAPERS WITHOUT ADHESIVE/FOIL BACKING
Qprep GALAXY Quick-Tap

The reusable fast and time saving fixation system for plain backed grinding paper. As an alternative to the clamping ring and adhesive film, the innovative QPREP GALAXY Quick-Tap is ideally suited for fixing grinding paper without adhesive/foil backing. Designed to be reusable, the thin layer of our new innovative fixation system resists high shear forces and ensures that the plain backed paper adheres securely to the GALAXY Quick-Tap. Like all new Galaxy products, the Quick-Tap features the Qprep Antislip backside for secure retention of the Qprep magnetic film.


PRODUCT ADVANTAGES

- | Optimized adhesion
- | Low impact elasticity
- | Reduction of pencil effect and edge rounding
- | Possibility to position the specimen holder beyond the edge of the grinding paper during semi-automatic and automatic specimen preparation
- | Sustainable and resource-saving compared to using grinding paper with adhesive/foil backing
- | Allows hundreds of paper changes

RECOMMENDED APPLICATIONS

- | For use with grinding paper without adhesive/foil backing
- | Quick and easy as well as repeated fixation of grinding paper
- | For direct attachment to QPREP magnetic foil

Item No.	Unit	Description
GALAXY QUICK-TAP		
Ø		
GALAXY Quick-Tap (for using with magnetic foil)		
NEW 95017587	1 Pc.	200 mm
NEW 95017484	1 Pc.	250 mm
NEW 95017485	1 Pc.	300 mm



Applying GALAXY Quick-Tap on magnetic foil



Placing e.g. grinding paper without adhesive/foil backing on GALAXY Quick-Tap

Qnote

on the GALAXY Quick-Tap: Dust and abrasion on the surface of the GALAXY Quick-Tap can reduce the adhesive strength and life of your GALAXY Quick-Tap. We recommend cleaning the adhesive layer with warm water and a few drops of detergent after approximately 100 paper changes. After cleaning, the Quick Tap will regain its original adhesive strength. To permanently protect the surface of the Quick Tap from dust, simply apply fresh, unused abrasive paper after use. This ensures safe, dust-free storage and the GALAXY Quick-Tap is immediately ready for use.



Qprep Silicon carbide grinding papers without adhesive/foil backing

QPREP silicon carbide grinding papers without adhesive/foil backing can be used individually and are ideally suited for a wide range of varied materials. They offer a high degree of flexibility, especially for frequently changing material variants. The grinding paper without adhesive/foil backing can be fixed directly with the QPREP Quick Tap (to the work disc or magnetic foil) or with the QPREP clamping ring to the work disc. Both ensure low resilience during the grinding process. QPREP silicon carbide grinding paper without adhesive/foil backing is available in diameters of 200 / 230 / 250 and 300 mm and in 15 different grain sizes.



PRODUCT ADVANTAGES

- Directionally oriented applied abrasive grains with homogeneous distribution for a high cutting effect and efficient material removal
- Low resilience

RECOMMENDED APPLICATIONS

- All-purpose usage
- Suitable for planar, pre- and fine grinding steps due to different grain sizes

Item No.	Unit	Description
SILICON CARBIDE GRINDING PAPERS WITHOUT ADHESIVE/FOIL BACKING		
Grain FEPA standard		
• Fixation system: GALAXY Quick-Tap or clamping ring		
200 mm Ø		
92001811	100 Pcs.	SiC grinding paper, plain backed P80
92001812	100 Pcs.	SiC grinding paper, plain backed P120
92001813	100 Pcs.	SiC grinding paper, plain backed P180
92001814	100 Pcs.	SiC grinding paper, plain backed P240
92001815	100 Pcs.	SiC grinding paper, plain backed P320
92001816	100 Pcs.	SiC grinding paper, plain backed P400
92001817	100 Pcs.	SiC grinding paper, plain backed P500
92001818	100 Pcs.	SiC grinding paper, plain backed P600
92001819	100 Pcs.	SiC grinding paper, plain backed P800
92001820	100 Pcs.	SiC grinding paper, plain backed P1000
92001821	100 Pcs.	SiC grinding paper, plain backed P1200
92002634	100 Pcs.	SiC grinding paper, plain backed 2400*
92004557	100 Pcs.	SiC grinding paper, plain backed P2500
92002640	100 Pcs.	SiC grinding paper, plain backed 4000*

*slurry coated, for a finer surface finish





Item No.	Unit	Description
SILICON CARBIDE GRINDING PAPERS WITHOUT ADHESIVE/FOIL BACKING		
Grain FEPA standard		
• Fixation system: GALAXY Quick-Tap or clamping ring		
230 mm Ø		
92001568	100 Pcs.	SiC grinding paper, plain backed P80
92001569	100 Pcs.	SiC grinding paper, plain backed P120
92001570	100 Pcs.	SiC grinding paper, plain backed P180
92001571	100 Pcs.	SiC grinding paper, plain backed P240
92001572	100 Pcs.	SiC grinding paper, plain backed P320
92001573	100 Pcs.	SiC grinding paper, plain backed P400
92001574	100 Pcs.	SiC grinding paper, plain backed P500
92001575	100 Pcs.	SiC grinding paper, plain backed P600
92001576	100 Pcs.	SiC grinding paper, plain backed P800
92001577	100 Pcs.	SiC grinding paper, plain backed P1000
92001578	100 Pcs.	SiC grinding paper, plain backed P1200
92004558	100 Pcs.	SiC grinding paper, plain backed P2500
92001579	100 Pcs.	SiC grinding paper, plain backed 4000*
*slurry coated, for a finer surface finish		
250 mm Ø		
92001581	100 Pcs.	SiC grinding paper, plain backed P80
92001582	100 Pcs.	SiC grinding paper, plain backed P120
92001583	100 Pcs.	SiC grinding paper, plain backed P180
92002369	100 Pcs.	SiC grinding paper, plain backed P240
92001585	100 Pcs.	SiC grinding paper, plain backed P320
92001586	100 Pcs.	SiC grinding paper, plain backed P400
92001587	100 Pcs.	SiC grinding paper, plain backed P500
92001588	100 Pcs.	SiC grinding paper, plain backed P600
92001589	100 Pcs.	SiC grinding paper, plain backed P800
92001590	100 Pcs.	SiC grinding paper, plain backed P1000
92001591	100 Pcs.	SiC grinding paper, plain backed P1200
92002636	100 Pcs.	SiC grinding paper, plain backed 2400*
92004559	100 Pcs.	SiC grinding paper, plain backed P2500
92001592	100 Pcs.	SiC grinding paper, plain backed 4000*
*slurry coated, for a finer surface finish		
300 mm Ø		
92001593	100 Pcs.	SiC grinding paper, plain backed P60
92001594	100 Pcs.	SiC grinding paper, plain backed P80
92001595	100 Pcs.	SiC grinding paper, plain backed P120
92001596	100 Pcs.	SiC grinding paper, plain backed P180
92001597	100 Pcs.	SiC grinding paper, plain backed P240
92001598	100 Pcs.	SiC grinding paper, plain backed P320
92001599	100 Pcs.	SiC grinding paper, plain backed P400
92001600	100 Pcs.	SiC grinding paper, plain backed P500
92001601	100 Pcs.	SiC grinding paper, plain backed P600
92001602	100 Pcs.	SiC grinding paper, plain backed P800
92001603	100 Pcs.	SiC grinding paper, plain backed P1000
92001604	100 Pcs.	SiC grinding paper, plain backed P1200
92002637	100 Pcs.	SiC grinding paper, plain backed 2400*
92004560	100 Pcs.	SiC grinding paper, plain backed P2500
92002154	100 Pcs.	SiC grinding paper, plain backed 4000*
*slurry coated, for a finer surface finish		

A collage of images showing various circular, flat, and textured samples, likely representing different types of membranes or materials, arranged on a surface. The samples include a dark red one, a light grey one, a dark grey one, a brown one, and a white one. In the background, a person in a white lab coat is working in a laboratory setting with various equipment.

- Targeted grinding of smallest areas without influencing surrounding sample areas
- Easy change of grinding paper

- Mobile component-materialography
- Deburring samples of complex geometries

Item No.	Unit	Description
GRINDING PAPERS FOR MOBILE GRINDER AND POLISHER QPOL 30		
Ø Grain FEPA standard		
Corundum grinding papers with hook-and-loop fastener backing		
92004285	100 Pcs.	30 mm P60
92004286	100 Pcs.	30 mm P180
92004288	100 Pcs.	30 mm P240
92004287	100 Pcs.	30 mm P320
Silicon grinding papers with adhesive backing		
92004498	100 Pcs.	30 mm P400
92004499	100 Pcs.	30 mm P600
92004631	100 Pcs.	30 mm P1000
Self-adhesive polishing cloths: view chapter polishing		

Notes

[illegible]

Qprep Grinding belts for Qgrind 100

QPREP grinding belts can be used very well for manual pre-grinding and deburring. They are waterproof and very robust for wet grinding with the Qgrind 100.



PRODUCT ADVANTAGES

- | Waterproof
- | High robustness
- | High stock removal

RECOMMENDED APPLICATIONS

- | Pre-grinding and deburring
- | Preparations for macro etching for weld testing

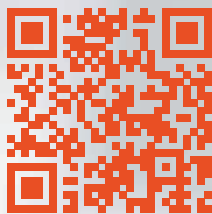
Item No.	Unit	Description	
		GRINDING BELTS FOR QGRIND 100	
		Dimensions	Grain FEPA standard
Aluminum oxide grinding belts, water resistant			
92002528	5 Pcs.	100 x 920 mm	P80
92002529	5 Pcs.	100 x 920 mm	P120
92002530	5 Pcs.	100 x 920 mm	P180
92002531	5 Pcs.	100 x 920 mm	P240
92004505	5 Pcs.	100 x 920 mm	P320
Silicon carbide grinding belts, water-resistant			
92002664	5 Pcs.	100 x 915 mm	P80
92002665	5 Pcs.	100 x 915 mm	P120
92002666	5 Pcs.	100 x 915 mm	P180
92002667	5 Pcs.	100 x 915 mm	P240
92004613	5 Pcs.	100 x 915 mm	P320
92002394	5 Pcs.	100 x 915 mm	P400

Notes

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