



# Qprep

CUTTING | MOUNTING | GRINDING | POLISHING | ETCHING | ANALYZING | HARDNESS TESTING

## CONSUMABLES 2023

valid as of 1st December 2022



# ENABLING PROGRESS.

**HEAT TREATMENT**  
**ELEMENTAL ANALYSIS**  
**MATERIALOGRAPHY &**  
**HARDNESS TESTING**  
**MILLING & SIEVING**  
**PARTICLE CHARACTERIZATION**

Under the roof of VERDER SCIENTIFIC we support thousands of customers worldwide in realizing the ambition we share. As their technology partner behind the scenes, we deliver the solutions they need to make progress and to improve the everyday lives of countless people. Together, we make the world a healthier, safer and more sustainable place.

# QATM – Materialography & Hardness Testing

Customized solutions – with competence and passion

## Machines and equipment for the materialographic laboratory

Whatever you need for quality testing and material analysis, QATM has it all. As a manufacturer of high-quality machines for materialography (metallography) and hardness testing, we offer the most comprehensive solutions for your needs. We not only supply a wide range of instruments but also accessories, consumables, complete laboratories and tailor-made special-purpose solutions.

## We aim for the highest quality

Our innovative cut-off machines, mounting presses, grinders, polishers/electrolytic etchers, hardness testers and analysis systems provide maximum reliability and flexibility. The R&D departments for hardware and software work in close cooperation with our customers to ensure continuous optimization of our products. QATM is certified according to EN ISO 9001:2015 to make sure our internal procedures for conception, development, purchasing, sales and service are efficient and reflect our high standards.

Customers all over the world appreciate QATM's extensive sales and service network as well as the direct communication with our experts. The comprehensive expertise and creativity of our qualified staff are the basis for the consistent high quality of our solutions.

QATM offers:

- I MODERN PRODUCTION ENGINEERING AND HIGH VERTICAL INTEGRATION**  
 Optimum control of every single component of our machines guarantees reliable QATM "made in Germany" and "made in Austria" product quality.
- I APPLICATION CONSULTATION AND END-USER SEMINARS WITH INDIVIDUAL FOCUS**  
 Our application experts ascertain parameters and equipment configurations best suited for your sample preparation process.
- I IN-HOUSE HARDWARE AND SOFTWARE DEVELOPMENT**  
 QATM hosts the complete R&D process in-house. Tailor-made solutions to meet individual requirements are our strength.
- I CONSUMABLES FOR ALL STEPS OF THE MATERIALOGRAPHIC SAMPLE PREPARATION**  
 We offer a wide range of high-quality consumables for materialographic sample preparation and analysis. The consumables are tested in detail and chosen for optimal operation of QATM equipment by our application specialists at our central inhouse laboratory.



**MAMMELZEN / GERMANY**

- I Materialography, consumables, manufacture of lab furniture
- I Development, manufacturing, assembly
- I Training center



**GOLLING / AUSTRIA**

- I Hardness testing, Analysis
- I Development and assembly
- I Training center

[www.qatm.com](http://www.qatm.com)

## THE BEST CHOICE FOR YOUR APPLICATION



With QPREP, QATM offers a wide range of high-quality consumables for metallographic sample preparation and analysis. All consumables are thoroughly tested and selected for perfect interaction with QATM machines.

## QATM CONTACT

QATM is a provider of integrated solutions. In addition to our comprehensive product range we offer full application support and technical service.

PREMIUM QUALITY  
MADE IN GERMANY



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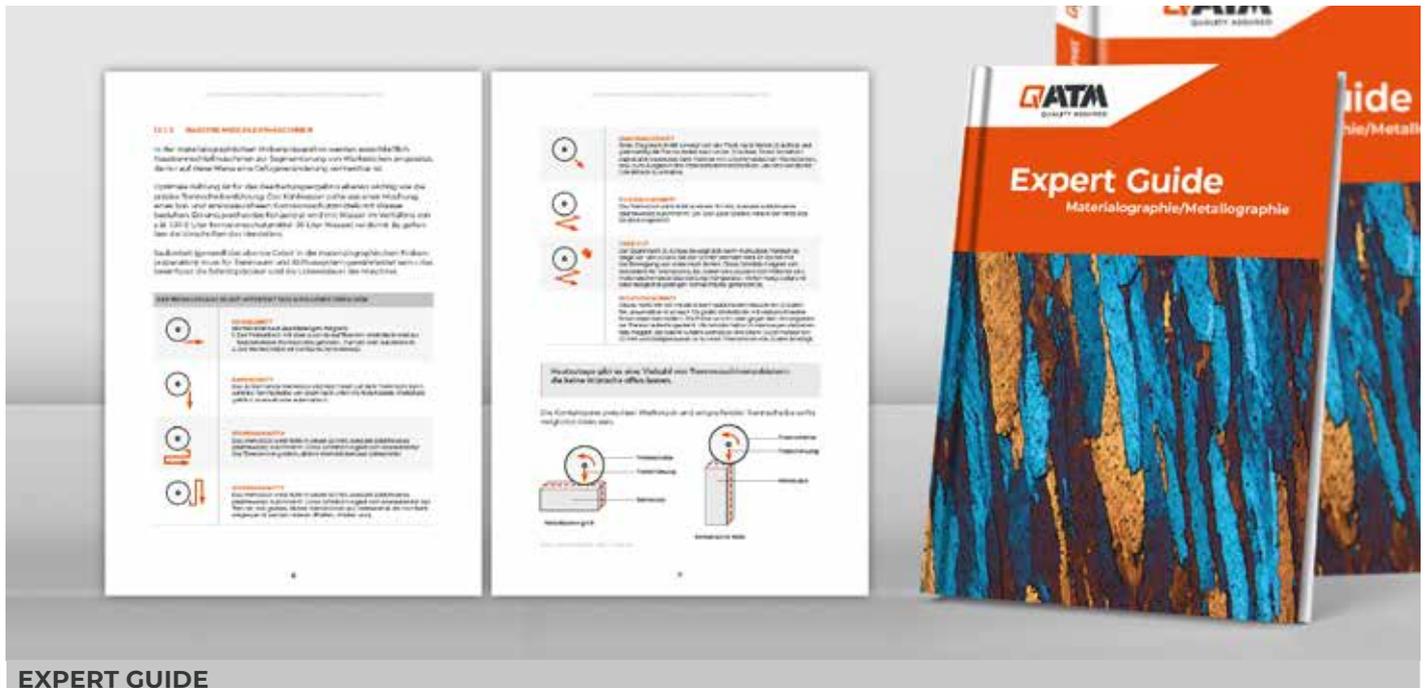
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## Expert Guide - Materialography/Metallography

A comprehensive guide is hereby provided to all who deal with materialographic sample preparation. The systematic structure with extensive documented examples is suitable for both beginners and experienced users who want to learn or look up a particular preparation technique. You will find numerous tips and tricks in this

book, which can also prove useful for experienced practitioners. This is especially true when working on complex or uncommon test objects.



### EXPERT GUIDE

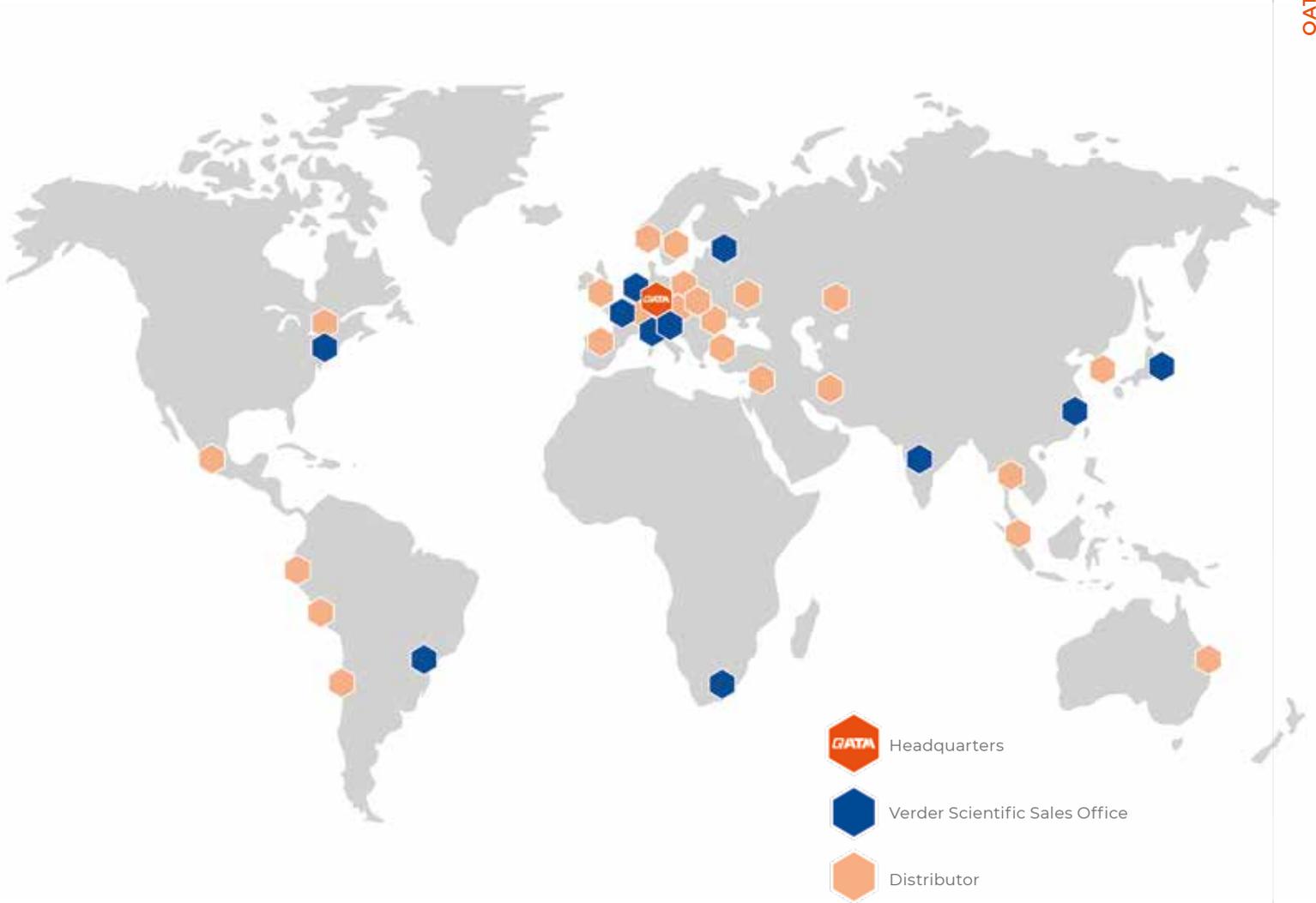
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Our comprehensive network of distributors and agents provides expert advice on products and applications throughout the world, as well as technical service. For detailed information please refer to our website [www.qatm.com](http://www.qatm.com)



General	
About Us	3
Contact information	4
QATM Worldwide	5
Expiration dates of consumables	130



### CONSUMABLES FOR CUTTING

Consumables for cutting		10-25
Precision cutting		10
Aluminum oxide precision cut-off wheels		11
Diamond precision cut-off wheels		12
CBN precision cut-off wheels		13
Saw blade precision cut-off wheel		13
Cutting		14
Premium cut-off wheels		15
Premium Silicon Carbide cut-off wheels		16
Premium Aluminum Oxide cut-off wheels		17-18
Premium Diamond cut-off wheels		19
Premium CBN cut-off wheels		20
Aluminum Oxide cut-off wheels		21
Coolant and anti-corrosion agent		22-23
Accessories & Tools		24
Filter systems		24-25



### CONSUMABLES FOR MOUNTING

Consumables for mounting		28-45
Hot mounting		28
EPO BLACK hot mounting material		29
EPO-MAX hot mounting material		29
DUROPLAST BLACK hot mounting material		30
THERMOPLAST hot mounting material		30
BAKELIT BLACK hot mounting material		31
BAKELIT GREEN hot mounting material		31
BAKELIT RED hot mounting material		32
Accessories & tools for hot mounting		33
Cold mounting		34
KEM 15 PLUS cold mounting material		35
KEM 20 cold mounting material		35
KEM 30 cold mounting material		36
KEM 35 cold mounting material		36
TECHNOVIT 5000 cold mounting material		37
KEM 60 cold mounting material		38
KEM 90 cold mounting material		39
KEM 92 cold mounting material		40
Vacuum infiltration and pressure devices		41
UV mounting		42
KEM 50 UV UV mounting material		42
Accessories and tools for cold and UV mounting		43
Cold mounting moulds		44-45



### CONSUMABLES FOR GRINDING

Solution Boxes		48-49
Solution Boxes		48-49
Consumables for grinding		52-75
Grinding		52
Planar grinding stones		52
Diamond cup grinder		53
Grinding discs		54
Magnetic foil		55
GALAXY diamond grinding disc		56-57
POLARIS M diamond grinding disc		58
POLARIS H diamond grinding disc		59

QUASAR diamond grinding disc	60
VEGA diamond grinding disc	61
CONTERO fine grinding discs	62
Grinding papers and foils	63
Adhesive carrier disc	64
Silicon carbide grinding foils	65
Silicon carbide grinding paper with foil backing	66-67
X-Tap	68
Silicon carbide grinding papers, self-adhesive	69-70
Zirconia alumina grinding papers, self-adhesive	70
Clamping Ring	71
Quick-Tap	71
Silicon carbide grinding papers without adhesive/ foil backing	72-73
Grinding papers for Qpol 30	74
Grinding belts for Qgrind 100	75



**CONSUMABLES FOR POLISHING**

<b>Consumables for polishing</b>	<b>78-97</b>
Polishing	78
Diamond Suspensions	78
DIA-COMPLETE Poly, all-in-one diamond suspension	79
DIA-COMPLETE Mono, all-in-one diamond suspension	80
Diamond suspension polycrystalline	81
Diamond suspension monocrystalline	82
Diamond suspension (alcohol-based / oil-based)	83
Spray nozzle	84
Dosing bottle	84
Diamond spray, paste and stick	84-85
Diamond lubricants	86
Fine polishing suspensions	87
Polishing cloths	88
Magnetic foil for GALAXY polishing cloths	89
GALAXY polishing cloths	90-92
X-TAP	93
Polishing cloths, self-adhesive	94-96
Media carrier plate	97
Filter inserts	97



**CONSUMABLES FOR ETCHING AND ANALYZING**

<b>Consumables for etching and analyzing</b>	<b>100-105</b>
Etching	100-102
Analyzing	102-105



**CONSUMABLES FOR HARDNESS TESTING**

<b>Consumables for hardness testing</b>	<b>108-128</b>
Hardness test blocks	108
Hardness test blocks Brinell	109
Hardness test blocks Knoop	112
Hardness test blocks Rockwell	116
Hardness test blocks Vickers	119
Indenters	127-128

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# Consumables for cutting



# Precision cutting

Precision cutting enables cutting directly next to significant analysis areas and for materials with particularly complex material properties. The material thickness of the precision cut-off wheel is significantly thinner than cut-off wheels with larger diameters. The bond of such cut-off wheels, which enclose the abrasive particles (aluminum oxide, diamond or CBN), can be resin, rubber, galvanic or bronze. QPREP precision cut-off wheels are the optimal solution exactly for such special cutting requirements.

## PRODUCT ADVANTAGES

- ! Minimal material loss due to thin cut-off wheel thickness
- ! Cutting surface closer to the target surface / defect possible
- ! Allows cutting of small, sensitive, and very brittle specimens

## PRECISION CUT-OFF WHEELS

Cut-off machine	Arbor size	Wheel diameter (max.)
Brillant 220	12.7 mm	203 mm/8"
Qcut 150 M	12.7 mm	203 mm/8"
Qcut 150 A	12.7 mm	203 mm/8"
Qcut 200 A	12.7 mm	203 mm/8"



## Qprep Aluminum oxide precision cut-off wheels

For precision cutting of ferrous materials, QPREP Aluminum oxide precision cut-off wheels are the optimal choice. This cut-off wheel is available in two different grain types (fine and coarse).



### PRODUCT ADVANTAGES

- | The dense structure of the disc allows a longer lifetime
- | Less wear and less heat between specimen and cut-off wheel

### RECOMMENDED APPLICATIONS

- | Suitable for a wide range of materials, especially various steel samples
- | Cutting of high alloy steel
- | Cutting of nitrided steel
- | Cutting of mounted samples possible

Item No.	Unit	Description		
<b>ALUMINUM OXIDE PRECISION CUT-OFF WHEELS</b>				
		Ø	Thickness	Arbor Size
<b>Fine-grained</b>				
<b>• for universal application and for materials of higher hardness</b>				
92002643	5 Pcs.	100 mm	0.25 mm	12.7 mm
92002644	5 Pcs.	125 mm	0.45 mm	12.7 mm
92002769	5 Pcs.	150 mm	0.45 mm	12.7 mm
<b>Coarse-grained</b>				
<b>• for universal application and for materials of lower hardness and mounted samples</b>				
92002645	5 Pcs.	100 mm	0.4 mm	12.7 mm
92002646	5 Pcs.	125 mm	0.8 mm	12.7 mm
92002770	5 Pcs.	150 mm	0.6 mm	12.7 mm
92002647	5 Pcs.	200 mm	0.8 mm	12.7 mm
92004159	5 Pcs.	150 mm	1 mm	12.7 mm
92004998	5 Pcs.	150 mm	1 mm	20 mm (incl. reduction ring 12.7 mm*)
92004155	5 Pcs.	200 mm	1.5 mm	12.7 mm
* 1 reduction ring for each order				
<b>Reduction ring</b>				
01304330	1 Pc.	20 mm to 12.7 mm		

## Notes

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## Qprep Diamond precision cut-off wheels

For cutting hard materials, QPREP Diamond precision cut-off wheels are the optimal choice, as they cut materials such as ceramics without smearing. The bond is made of bronze. The diamonds can be "dressed" to take full advantage of the cutting performance of the diamond particles again after a longer period of use.



### PRODUCT ADVANTAGES

- ▮ Diamond as abrasive enables cutting of hardest materials
- ▮ Separates hard material without smearing
- ▮ The dressing functionality of our QATM cut-off machines ensures that the diamonds always maintain maximum cutting performance

### RECOMMENDED APPLICATIONS

- ▮ Cutting hard and brittle materials such as ceramics and glass
- ▮ Cutting of mineral samples like rocks
- ▮ Cutting of specimens with brittle plasma coating

Item No.	Unit	Description
<b>DIAMOND PRECISION CUT-OFF WHEELS BOND: BRONZE</b>		
		<b>Ø      Thickness      Arbor Size</b>
<b>• for universal application</b>		
92002397	1 Pc.	75 mm      0.3 mm      12.7 mm
92002401	1 Pc.	100 mm      0.3 mm      12.7 mm
92002405	1 Pc.	125 mm      0.5 mm      12.7 mm
92002409	1 Pc.	150 mm      0.5 mm      12.7 mm
<b>• for glass, ceramics, rocks</b>		
92002398	1 Pc.	75 mm      0.3 mm      12.7 mm
92002402	1 Pc.	100 mm      0.3 mm      12.7 mm
92002406	1 Pc.	125 mm      0.5 mm      12.7 mm
92002410	1 Pc.	150 mm      0.5 mm      12.7 mm
95015121	1 Pc.	200 mm      1.0 mm      12.7 mm
<b>• for hard metals</b>		
92002400	1 Pc.	75 mm      0.3 mm      12.7 mm
92002404	1 Pc.	100 mm      0.3 mm      12.7 mm
92002408	1 Pc.	125 mm      0.5 mm      12.7 mm
92002412	1 Pc.	150 mm      0.5 mm      12.7 mm

for plastic and rubber on request

## Notes

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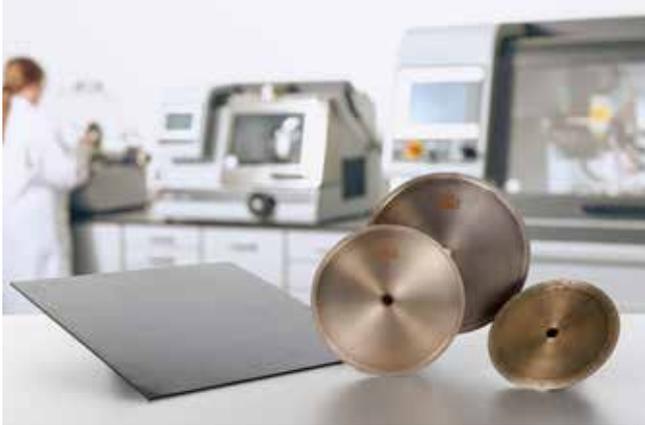
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## Qprep CBN precision cut-off wheels

QPREP CBN precision cut-off wheels like the diamond precision cut-off wheels, are edged with a cubic boron nitride (CBN) abrasive in a bronze bond. The properties of CBN make it particularly suitable for composite and tough materials.



### PRODUCT ADVANTAGES

- | The best cutting performance when cutting soft and hard materials
- | Separates hard material without smearing
- | The dressing functionality of our QATM cut-off machines ensures that the CBN particles always maintain the highest cutting performance

### RECOMMENDED APPLICATIONS

- | Composites and materials with a combination of soft and hard materials
- | Ductile materials
- | Cutting hard ferrous materials

Item No.	Unit	Description
<b>CBN PRECISION CUT-OFF WHEELS BOND: BRONZE</b>		
		<b>Ø      Thickness      Arbor Size</b>
<b>• for composites and rigid materials</b>		
92002442	1 Pc.	75 mm      0.9 mm      12.7 mm
92002443	1 Pc.	100 mm      0.5 mm      12.7 mm
92002444	1 Pc.	125 mm      0.5 mm      12.7 mm
92002445	1 Pc.	150 mm      0.65 mm      12.7 mm
92002446	1 Pc.	175 mm      0.9 mm      12.7 mm
92006419	1 Pc.	200 mm      0.5 mm      12.7 mm
other diameters on request		

## Qprep Saw blade precision cut-off wheel

The QPREP Saw blade precision cut-off wheel is particularly suitable for cutting materials with a high tendency to smearing.



### PRODUCT ADVANTAGES

- | The best performance when cutting non-metallic material
- | Lower heat generation due to single engagement of the saw teeth during cutting
- | Since there is no binding of abrasives, the disc is odor and dust free

### RECOMMENDED APPLICATIONS

- | Separation of non-metallic materials
- | Separation of plastic materials
- | Separation of polymers e.g., carbon fiber reinforced polymers

Item No.	Unit	Description
<b>SAW BLADE PRECISION CUT-OFF WHEEL</b>		
		<b>Ø      Thickness      Arbor Size</b>
<b>• for plastics, non-ferrous metals</b>		
95009083	1 Pc.	150 mm      1.4 mm      30 mm (reduction ring 12.7 mm necessary)
01811035	1 Pc.	Reduction ring 12.7 mm to 30 mm

# Cutting

The process of cutting, specifically wet abrasive cutting, is essential for materialographic sectioning of samples. In this process, cut-off wheels of different material thicknesses, abrasive particles and bonds are used on a corresponding wet abrasive cutting machine. These bond types can be synthetic resin, rubber, or metal. For the abrasives, aluminum oxide, silicon carbide, diamond or CBN is used. These abrasive particles are enclosed in a bond matrix.

## PRODUCT ADVANTAGES

- I Low thermal influence on the specimen during the cutting process
- I Wet abrasive cutting achieves very fine surface finishes after cutting
- I Optimum cutting shortens the further preparation process

## AS A RULE, THE FOLLOWING PRINCIPLE APPLIES:

- I For hard materials, a cut-off wheel with soft bond is recommended.
  - ➔ This ensures fast breaking out of worn abrasive particles.
- I For medium-hard materials, a cut-off wheel with a medium-hard bond is recommended.
  - ➔ This ensures even breaking out of worn abrasive particles.
- I For soft materials, a cut-off wheel with hard bond is recommended.
  - ➔ This ensures slow breaking out of worn abrasive particles.

## CUT-OFF WHEELS

Cut-off machine	Arbor size	Wheel diameter (max.)
Brillant 230	32 mm	254 mm/10" 305 mm/12"
Brillant 255	32 mm	356 mm/14" 406 mm/16"
Qcut 250 M (Brillant 200)	32 mm	254 mm/10"
Qcut 250 A (Brillant 240)	32 mm	254 mm/10"
Qcut 350 A (Brillant 250)	32 mm	305 mm/12" 356 mm/14"
Qcut 400 A (Brillant 265)	32 mm	356 mm/14" 406 mm/16"
Qcut 430 BOT (Brillant 3D)	32 mm	432 mm/17" 508 mm/20"
Qcut 500 A (Brillant 275)	32 mm	432 mm/17" 508 mm/20"
Qcut 600 A (Brillant 285)	32 mm	508 mm/20" 610 mm/24"
Qcut 800 A (Brillant 2000)	32 mm	610 mm/24" 813 mm/32"

## Notes

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## Qprep Premium Silicon Carbide cut-off wheels

Due to the lower hardness of silicon carbide particles compared to aluminum oxide particles, these premium cut-off wheels are the optimal choice for cutting soft as well as non-ferrous materials.



### PRODUCT ADVANTAGES

- Optimized cutting performance for non-ferrous metals and ductile metals
- Long lifetime and low wear of the cut-off wheel

### RECOMMENDED APPLICATIONS

- QPREP Premium Silicon Carbide cut-off wheel **NF-A** are suitable for cutting soft and medium hard non-ferrous metals as well as hard non-metallic materials (glass, stone).
- QPREP Premium Silicon Carbide cut-off wheel **Ti-A** for cutting non-ferrous metals, Ti alloys and refractory metals

Item No.	Unit	Description		
<b>PREMIUM SILICON CARBIDE CUT-OFF WHEELS BOND: RESIN</b>				
		$\emptyset$	Thickness	Arbor Size
<b>Type NF-A, Purple</b>				
<b>• for non-ferrous metals (30-300 HV)</b>				
95012531	10 Pcs.	250 mm	1.5 mm	32 mm
95012538	10 Pcs.	300 mm	2.0 mm	32 mm
95012545	10 Pcs.	350 mm	2.5 mm	32 mm
95012552	10 Pcs.	400 mm	3.0 mm	32 mm
95012566	5 Pcs.	500 mm	4.0 mm	32 mm
95012573	5 Pcs.	600 mm	4.5 mm	32 mm
<b>Type Ti-A, Pink</b>				
<b>• for titanium and alloys, refractory metals (30-300 HV)</b>				
95012530	10 Pcs.	250 mm	1.5 mm	32 mm
95012537	10 Pcs.	300 mm	2.0 mm	32 mm
95012544	10 Pcs.	350 mm	2.5 mm	32 mm

for cut-off wheels with  $\emptyset$  230 mm and 400 mm for titanium and titanium alloys, see type F aluminum oxide cut-off wheels

## Notes

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# Qprep Premium Aluminum Oxide cut-off wheels

QPREP Premium Aluminum Oxide cut-off wheels cover a wide range of materials from 30 HV to >650 HV.



## PRODUCT ADVANTAGES

- | Wide range of application for various materials with different hardness's
- | Long lifetime as well as low wear of the cut-off wheel
- | Premium abrasive particles enable the finest cutting surfaces, which shortens the following grinding steps
- | The synthetic resin bond enables even breaking out of blunt abrasive particles during the cutting process

## RECOMMENDED APPLICATIONS

- | Cutting of all materials
- | Cutting of polymers with the hard-bonded cut-off wheel **FS-A**
- | Cutting of very hard steels with the soft-bonded cut-off wheel **FS-E**

Item No.	Unit	Description
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### PREMIUM ALUMINUM OXIDE CUT-OFF WHEELS BOND: RESIN

Ø Thickness Arbor Size

#### Type FS-A, Red

- for soft steel (30-300 HV), non-ferrous metals, polymer

95012529	10 Pcs.	250 mm 1.5 mm 32 mm
95012536	10 Pcs.	300 mm 2.0 mm 32 mm
95012543	10 Pcs.	350 mm 2.5 mm 32 mm
95012550	10 Pcs.	400 mm 3.0 mm 32 mm
95012564	5 Pcs.	500 mm 4.0 mm 32 mm
95012571	5 Pcs.	600 mm 4.5 mm 32 mm

#### Type FS-B, Orange

- for medium soft steel (200-450 HV)

95012528	10 Pcs.	250 mm 1.5 mm 32 mm
95012535	10 Pcs.	300 mm 2.0 mm 32 mm
95012542	10 Pcs.	350 mm 2.5 mm 32 mm
95012549	10 Pcs.	400 mm 3.0 mm 32 mm
95012563	5 Pcs.	500 mm 4.0 mm 32 mm
95012570	5 Pcs.	600 mm 4.5 mm 32 mm

#### Type FS-C, Yellow

- for medium hard steel (300-550 HV), case hardened, nitrided steels

95012527	10 Pcs.	250 mm 1.5 mm 32 mm
95012534	10 Pcs.	300 mm 2.2 mm 32 mm
95012541	10 Pcs.	350 mm 2.2 mm 32 mm
95012548	10 Pcs.	400 mm 3.0 mm 32 mm
95012562	5 Pcs.	500 mm 4.0 mm 32 mm
95012569	5 Pcs.	600 mm 4.5 mm 32 mm

Item No.	Unit	Description		
<b>Type FS-D, Green</b> • for hard steels (400-700 HV), annealed, carburised steels				
95012526	10 Pcs.	250 mm	1.5 mm	32 mm
95012533	10 Pcs.	300 mm	2.0 mm	32 mm
95012540	10 Pcs.	350 mm	2.5 mm	32 mm
95012547	10 Pcs.	400 mm	3.0 mm	32 mm
95012561	5 Pcs.	500 mm	4.0 mm	32 mm
95012568	5 Pcs.	600 mm	4.5 mm	32 mm

Item No.	Unit	Description		
<b>Type FS-E, Blue</b> • for very hard steels (>650 HV)				
95012525	10 Pcs.	250 mm	1.5 mm	32 mm
95012532	10 Pcs.	300 mm	2.0 mm	32 mm
95012539	10 Pcs.	350 mm	2.5 mm	32 mm
95012546	10 Pcs.	400 mm	3.0 mm	32 mm
95012560	5 Pcs.	500 mm	4.0 mm	32 mm
95012567	5 Pcs.	600 mm	4.5 mm	32 mm



Item No.	Unit	Description		
<b>PREMIUM ALUMINUM OXIDE CUT-OFF WHEELS</b> <b>BOND: RUBBER</b>				
		<b>Ø</b>	<b>Thickness</b>	<b>Arbor Size</b>
<b>Type A, Brown</b> • universal wheel, soft and hard metals, superalloys (50-500 HV)				
92002413	10 Pcs.	229 mm	0.8 mm	32 mm
92002599	10 Pcs.	254 mm	1.0 mm	32 mm
92002441	10 Pcs.	305 mm	1.0 mm	32 mm
92002436	10 Pcs.	356 mm	1.6 mm	32 mm
92002439	10 Pcs.	400 mm	1.6 mm	32 mm
92008537	10 Pcs.	500 mm	2.4 mm	32 mm
92004007	10 Pcs.	600 mm	4.3 mm	40 mm
<b>Typ B, Black</b> • for high-speed steels, heat-treated steels, non-corrosive steels (400-700 HV)				
92002414	10 Pcs.	229 mm	1.6 mm	32 mm
92002600	10 Pcs.	254 mm	1.6 mm	32 mm
92002434	10 Pcs.	305 mm	1.6 mm	32 mm
92002437	10 Pcs.	356 mm	2.4 mm	32 mm
92002440	10 Pcs.	400 mm	2.4 mm	32 mm
92008874	10 Pcs.	500 mm	3.0 mm	32 mm

## Qprep Premium Diamond cut-off wheels

QPREP Premium Diamond cut-off wheels are used for hard materials (ceramics, glass fiber reinforced plastics, minerals and rocks, glass or similar). There are two different bond variants to choose from: metallic, in which the diamonds are usually bound in a bronze bond, or the bond with synthetic resin.



### PRODUCT ADVANTAGES

- | Two different bond types (bronze and resin) for a wide range of applications.
- | The dressing functionality of our QATM cut-off machines ensures that the diamonds always maintain maximum cutting performance
- | Long lifetime as well as low wear of the cut-off wheel

### RECOMMENDED APPLICATIONS

- | Cutting of ceramic materials as well as composites with bronze-bonded diamond premium cut-off wheels
- | Cutting of hard and brittle materials with resin-bonded diamond cutting discs
- | Cutting of brittle coating surfaces

Item No.	Unit	Description
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### PREMIUM DIAMOND CUT-OFF WHEELS BOND: BRONZE

Ø	Thickness	Arbor Size
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#### • for ceramic materials

92002452	1 Pc.	250 mm	1.2 mm	32 mm
92002453	1 Pc.	300 mm	1.6 mm	32 mm
95003433	1 Pc.	350 mm	1.6 mm	32 mm
92008751	1 Pc.	400 mm	2.4 mm	32 mm

#### • for composite materials (hard/soft combinations)

95002102	1 Pc.	250 mm	1.3 mm	32 mm
92004719	1 Pc.	300 mm	1.3 mm	32 mm
92008619	1 Pc.	350 mm	1.4 mm	32 mm
95006793	1 Pc.	400 mm	1.3 mm	32 mm

other diameters on request

### PREMIUM DIAMOND CUT-OFF WHEELS BOND: RESIN

Ø	Thickness	Arbor Size
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#### • for hard metals, generally for materials of high hardness

92002451	1 Pc.	250 mm	1.2 mm	32 mm
92002454	1 Pc.	300 mm	1.6 mm	32 mm
95003049	1 Pc.	350 mm	1.6 mm	32 mm
95010131	1 Pc.	400 mm	1.6 mm	32 mm

other diameters on request



## Qprep Aluminum Oxide cut-off wheels

QPREP Aluminum Oxide cut-off wheels are to be used for varied materials depending on the type.



### PRODUCT ADVANTAGES

- Long lifetime as well as low wear of the cut-off wheel
- The synthetic resin bond enables even breaking out of blunt abrasive particles during the cutting process

### RECOMMENDED APPLICATIONS

- Type-I for cutting mild steel and cast materials
- Type-D for cutting medium-hard materials and case-hardened steel
- Type-F with a diameter of 235 mm and 400 mm are a supplement to the Premium Ti-A cut-off wheels

Item No.	Unit	Description
<b>ALUMINUM OXIDE CUT-OFF WHEELS</b> <b>BOND: RESIN</b>		
<b>Ø      Thickness      Arbor Size</b>		
<b>Type C</b> • universal wheel for materials of high to very high hardness		
92001550	10 Pcs.	235 mm    1.5 mm    32 mm
92001554	10 Pcs.	250 mm    1.5 mm    32 mm
92001558	10 Pcs.	300 mm    2 mm      32 mm
92001669	10 Pcs.	350 mm    2 mm      32 mm
92001783	10 Pcs.	400 mm    3 mm      32 mm
<b>Type D</b> • universal wheel for medium hard materials, case-hardened steels		
92001551	10 Pcs.	235 mm    1.5 mm    32 mm
92001555	10 Pcs.	250 mm    1.5 mm    32 mm
92001559	10 Pcs.	300 mm    2 mm      32 mm
92001670	10 Pcs.	350 mm    2 mm      32 mm
92001784	10 Pcs.	400 mm    3 mm      32 mm
<b>Type F</b> • for titanium and titanium alloys		
92002417	10 Pcs.	230 mm    1.5 mm    32 mm
92002428	10 Pcs.	400 mm    3 mm      32 mm
for cut-off wheels with Ø 250 mm, 300 mm and 350 mm for titanium and titanium alloys, see type Ti-A, Pink Premium Silicon Carbide cut-off wheels		
<b>Type I</b> • for construction steels and cast material		
92006066	10 Pcs.	250 mm    1.6 mm    32 mm
92005863	10 Pcs.	300 mm    2 mm      32 mm
92005862	10 Pcs.	350 mm    2.5 mm    32 mm
92008504	10 Pcs.	400 mm    3 mm      32 mm

## Qprep Coolant and anti-corrosion agent

Optimum cooling is essential during cutting. Excessive heat generation during the cutting process damages the specimen as well as the cutting wheel. QPREP coolant and anti-corrosion agent help to dissipate the heat and remove chips at the cutting point. A corrosion inhibitor must be added to the coolant, otherwise there is a risk of oxidation on the cut-off surface of the specimen as well as on machine components.



### PRODUCT ADVANTAGES

- | QPREP coolant and anti-corrosion agent are suitable for all types of cut-off machines
- | QPREP ATM CoolCut is known for its environmentally and user-friendly handling
- | QPREP coolant and anti-corrosion agent minimize the risk of thermal damage and corrosion during the cutting process

### RECOMMENDED APPLICATIONS

- | For separating all and especially corrosion-sensitive materials
- | When cutting coated samples that have been coated in a salt bath, the QPREP Defoamer should be used
- | For cutting polymers and composites, the use of the QPREP coolant and anti-corrosion agent for plastics and composites is recommended
- | QPREP ATM-CoolAdd CU is an additive to the cooling lubricant for specific requirements when cutting specific materials

Item No.	Unit	Description
<b>ATM-COOLCUT, ENVIRONMENT- AND USER-FRIENDLY</b>		
<b>Mixing ratio 1:25 (4%) – 1:12.5 (8%) / refractometer: 2.0%/°Bx</b>		
<ul style="list-style-type: none"> <li>• for steel, cast iron, light and non-ferrous metal, glass and ceramics, composites</li> <li>• free of oil, boron, nitride and formaldehyde</li> <li>• optimized anti-corrosion protection and cutting properties</li> </ul>		
95004145	1 l	ATM-CoolCut, concentrate
95004146	5 l	ATM-CoolCut, concentrate
95004147	10 l	ATM-CoolCut, concentrate
<b>ANTI CORROSION COOLANT FOR POLYMERS AND COMPOSITES</b>		
<b>Mixing ratio: 1:66 (1.5%) - 1:33 (3%) / refractometer: 2.4%/°Bx</b>		
<ul style="list-style-type: none"> <li>• optimized for polymers and composites</li> <li>• free of nitride and oil</li> <li>• also suitable for steels, non-ferrous metals, ceramics and glasses</li> </ul>		
95007864	1 l	Concentrate
<b>ANTI CORROSION COOLANT, STANDARD</b>		
<b>Mixing ratio 1:35 / refractometer: 1.4%/°Bx</b>		
<ul style="list-style-type: none"> <li>• for steel, cast iron, non-ferrous metal</li> </ul>		
95014280	1 l	Concentrate
95014281	5 l	Concentrate
95014282	10 l	Concentrate

### RECOMMENDATION



## Qprep Accessories & Tools

For inspection as well as effective working with QPREP cut-off wheels and QPREP cooling and anti-corrosion agents, QATM offers accessories & tools.



Item No.	Unit	Description
<b>ACCESSORIES FOR MAINTENANCE AND CARE OF COOLANTS</b>		
<b>Maintenance and testing set</b>		
95007866	1 Set	Maintenance and testing set for anti-corrosion coolant (case with handheld refractometer, plastic cup for extraction of sample, test strips, thermometer)
<b>Accessories for maintenance and testing set</b>		
92005616	100 Pcs.	pH test strips
92005613	100 Pcs.	Nitrate test strips
92005614	100 Pcs.	Nitrite test strips
95007865	100 Pcs.	Water hardness test strips



<b>ACCESSORIES FOR MAINTENANCE AND CARE OF CUT-OFF MACHINES</b>		
<b>Corrosion protection- and care spray</b>		
95016408	400 ml	Corrosion protection- and care spray, fully synthetical, silicon-free corrosion protection oil, for metal surfaces (e.g. clamping vices)
<b>Anti-fog spray</b>		
95008900	100 ml	Anti-fog spray (prevents steaming up the viewing window by splash water)



<b>ACCESSORIES FOR CUT-OFF WHEELS</b>		
<b>Dressing stone</b>		
92002460	1 Pc.	Dressing stone for diamond cut-off wheels, CBN cut-off wheels and cup wheels

## Qprep Filter systems

During cutting, various residual materials are produced from the specimen (chips) and from the cut-off wheel (wear/tear). To prevent these residual materials from entering the cooling water / waste water system or the pump mechanism, the use of filter systems is required. A suitable filter system with the correct mesh size, filter material and dimension has a significant influence on the cleanliness of the coolant.



### PRODUCT ADVANTAGES

- Various QPREP filter systems for different cut-off machines, from precision machines to floor standing machines.
- QPREP filter systems protect the cutting machine and thus increase its lifetime.
- The different mesh sizes of the filters offer an application-oriented selection of the appropriate filter system for the corresponding recirculating cooling unit.

### RECOMMENDED APPLICATIONS

- The use of a filter system keeps the coolant significantly longer clean and prevents damage to the pump and machine.

Item No.	Unit	Description	Dimensions	Mesh size
<b>FILTER INSERTS</b>				
<b>for Brillant 255 / Qcut 400 A (Brillant 265) / Brillant 270 / Qcut 500 A (Brillant 275) / Brillant 280</b>				
95017301	5 Pcs.	Filter cloth and fleece	490 x 290 x 190 mm	60 µm
95017302	5 Pcs.	Filter cloth and fleece	490 x 290 x 190 mm	100 µm
95017303	5 Pcs.	Filter cloth and fleece	490 x 290 x 190 mm	800 µm
<b>for recirculation cooling system 45 Ltr. (until year of construction 2012)</b>				
95017304	5 Pcs.	Filter cloth and fleece	290 x 150 x 190 mm	60 µm
95017305	5 Pcs.	Filter cloth and fleece	290 x 150 x 190 mm	100 µm
95017306	5 Pcs.	Filter cloth and fleece	290 x 150 x 190 mm	800 µm
<b>for recirculation cooling system 45 Ltr. (from year of construction 2013)</b>				
95017307	5 Pcs.	Filter cloth and fleece	250 x 200 x 155 mm	60 µm
95017308	5 Pcs.	Filter cloth and fleece	250 x 200 x 155 mm	100 µm
95017309	5 Pcs.	Filter cloth and fleece	250 x 200 x 155 mm	800 µm
<b>FILTER FLEECE FOR BELT FILTER SYSTEMS</b>				
<b>Length x Width</b>				
<b>for belt filter system BFA 285</b>				
92008780	1 Pc.	Filter fleece roll, coarse, 150 µm	100 m x 710 mm	
<b>for belt filter system BFA 100/130</b>				
95001696	1 Pc.	Filter fleece roll, coarse, 150 µm	100 m x 420 mm	
other sizes on request				
<b>FILTER FLEECE MAT FOR RECIRCULATION COOLING SYSTEMS</b>				
<b>Length x Width</b>				
<b>for Qcut 800 A (Brillant 2000)</b>				
95016233	5 Pcs.	Filter fleece mat	940 x 720 mm	
<b>for Qcut 600 A (Brillant 285)</b>				
95016231	5 Pcs.	Filter fleece mat	724 x 720 mm	
<b>for recirculation cooling system 15 Ltr. (Qcut 150 A/M)</b>				
95017314	5 Pcs.	Filter fleece mat	235 x 148 mm	







## Qprep EPO BLACK

QPREP EPO BLACK is a fine granular, epoxy resin based thermosetting hot mounting material.



### PRODUCT ADVANTAGES

- | Very low gap formation
- | High edge retention and plane parallelism
- | Contains a high filler content of glass and minerals for good machinability
- | Hardness (Shore D): 93
- | Removal rate: Very low

### RECOMMENDED APPLICATIONS

- | Routine applications
- | Edge examination
- | Mounting of medium-hard to hard materials



Item No.	Unit	Description
<b>HOT MOUNTING MATERIAL EPO BLACK</b>		
95011990	1 kg	EPO BLACK
95011991	5 kg	EPO BLACK
95011992	10 kg	EPO BLACK

## Qprep EPO-MAX

QPREP EPO MAX is an epoxy resin compound for hot mounting with high edge retention. It is optimized for low adhesion on mould and ram surfaces.



### PRODUCT ADVANTAGES

- | Very low gap formation
- | High edge retention and plane-parallelism
- | Easy Cleaning of mould and ram due to low adhesion
- | Contains mineral filler
- | Hardness (Shore D): 93
- | Removal rate: Very low

### RECOMMENDED APPLICATIONS

- | Edge examinations
- | Mounting of medium-hard to hard materials



Item No.	Unit	Description
<b>HOT MOUNTING MATERIAL EPO-MAX</b>		
95013811	1 kg	EPO-MAX
95013812	5 kg	EPO-MAX
95013813	10 kg	EPO-MAX

## Qprep DUROPLAST BLACK

QPREP DUROPLAST BLACK is an electrically conductive hot mounting material based on a phenolic resin compound. It is suitable for SEM examinations and electrolytic polishing.



### PRODUCT ADVANTAGES

- | Electroconductive
- | Contains graphite particles
- | Hardness (Shore D): 89
- | Removal rate: Medium

### RECOMMENDED APPLICATIONS

- | Scanning electron microscopy
- | Electrolytic polishing

Item No.	Unit	Description
<b>HOT MOUNTING MATERIAL DUROPLAST BLACK</b>		
95011993	1 kg	DUROPLAST BLACK
95011994	5 kg	DUROPLAST BLACK
95011995	10 kg	DUROPLAST BLACK



## Qprep THERMOPLAST

QPREP THERMOPLAST is a highly transparent hot mounting material consisting of acrylic resin.



### PRODUCT ADVANTAGES

- | High transparency
- | Suitable for filling up and marking
- | Hardness (Shore D): 86
- | Removal rate: Medium

### RECOMMENDED APPLICATIONS

- | Transparent mounting
- | Ideal for target preparations and sensitive specimen
- | Mounting of complex geometries and bulk solid materials

Item No.	Unit	Description
<b>HOT MOUNTING MATERIAL THERMOPLAST</b>		
95011996	1 kg	THERMOPLAST
95011997	5 kg	THERMOPLAST
95011998	10 kg	THERMOPLAST



## Qprep BAKELIT BLACK

QPREP BAKELIT BLACK is an all-purpose hot mounting material based on a phenolic resin compound. It is suitable for general materialographic applications.



### PRODUCT ADVANTAGES

- | Very convenient for filling in combination with other hot mounting material
- | Contains wood flour and graphite
- | Hardness (Shore D): 90
- | Removal rate: Medium

### RECOMMENDED APPLICATIONS

- | Routine mountings
- | Core structure examinations
- | Mounting of soft to medium-hard materials



Item No.	Unit	Description
<b>HOT MOUNTING MATERIAL BAKELIT BLACK</b>		
95011981	1 kg	BAKELIT BLACK
95011982	5 kg	BAKELIT BLACK
95011983	10 kg	BAKELIT BLACK

## Qprep BAKELIT GREEN

QPREP BAKELIT GREEN is an all-purpose hot mounting material based on a phenolic resin compound. It is suitable for general materialographic applications.



### PRODUCT ADVANTAGES

- | Very convenient for filling in combination with other hot mounting material
- | Contains wood flour and magnesium oxide
- | Hardness (Shore D): 90
- | Removal rate: Medium

### RECOMMENDED APPLICATIONS

- | Routine mountings
- | Core structure examinations
- | Mounting of soft to medium-hard materials



Item No.	Unit	Description
<b>HOT MOUNTING MATERIAL BAKELIT GREEN</b>		
95011987	1 kg	BAKELIT GREEN
95011988	5 kg	BAKELIT GREEN
95011989	10 kg	BAKELIT GREEN



## Qprep Accessories & tools for hot mounting

Depending on the shape of the specimen to be mounted, the chosen hot mounting material, and the objectives of the materialographic preparation QPREP's wide range of accessories and tools ensures the best possible analysis results.



- | Anti-stick silicone paste and spray to protect the mould and ram surfaces
- | Various clamps for aligning specimens with complex geometries
- | Funnel for clean and loss-free filling of the mounting resin into the press mould.

Item No.	Unit	Description
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### ACCESSORIES FOR HOT MOUNTING



92002660	90 ml	Silicon paste, anti-stick agent
92002661	200 ml	Silicon spray, anti-stick agent
92004441	1 Pc.	Brass brush for cleaning of hot mounting press
92002658	1 Pc.	Funnel for hot mounting material
92002715	1 Pc.	Square bottle with screw-top for approx. 1 ltr. mounting material
92002657	100 Pcs.	Angle adapter for angled polishing, 10°
92001716	10 Pcs.	Dosing spoon for hot and cold mounting material, 13 ml

### CLIP FOR ALIGNING THIN SAMPLES IN MOULD



92002662	100 Pcs.	Steel
92002663	100 Pcs.	Plastic, transparent
92002707	100 Pcs.	Plastic, black
92002708	100 Pcs.	Plastic, red
92002709	100 Pcs.	Plastic, grey

## Notes

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# Cold mounting

The term cold mounting covers all mounting methods that do not require the use of a hot mounting press. To create an optimal cold-embedded specimen, consider the following:

- ! **The specimen must not be affected or corroded by the resin selected for cold mounting.**
- ! **The specimen must be able to withstand the peak temperature of the mounting system.**
- ! **To prevent gap formation, the specimen surface must be free of dust and grease before mounting, so that the specimen can be well wetted with the mounting medium.**

QPREP cold mounting resins are available on methyl methacrylate or MMA-free and epoxy based. Acrylate or MMA-free based cold mounting resins are characterized by good removal rate, short curing times and good chemical resistance. Epoxy resins are used for mounting of porous and temperature sensitive materials. Furthermore, they are used when the lowest possible gap formation is intended.

## PROPERTIES OF COLD MOUNTING MATERIALS

Mounting Material	Recommended Application	Basis	Curing time	Curing temperature	Hardness (Shore D)	Removal rate (grindability)
KEM 15 plus	With high edge retention, edge examination, medium-hard to hard materials	Methyl methacrylate	approx. 25 min.	approx. 85-100 °C	85	very low
KEM 20	Transparent mounting (pressure vessel), targeted preparation	Methyl methacrylate	approx. 15 min.	approx. 100-120 °C	84	medium
KEM 30	Semi-transparent mounting (pressure vessel), routine work, soft to medium-hard materials	Methyl methacrylate	approx. 5 min.	approx. 95-110 °C	85	medium
KEM 35	Minimized gap formation, edge examination, medium-hard to hard materials	Methyl methacrylate	approx. 12 min.	approx. 85-100 °C	87	very low
TECHNOVIT 5000	SEM (Scanning electron microscopy), electrolytic polishing	Modified methyl methacrylate	approx. 10 min.	approx. 85-110 °C	91	very low
KEM 60	Universal usage	Tetrahydrofurfuryl-2-methacrylate	approx. 10 min.	approx. 95-110 °C	85	low
KEM 90	Mounting using vacuum, sensitive and brittle materials	Epoxy resin	approx. 16-24 h	Room temperature up to approx. 60 °C	79	high
KEM 92	Vacuum impregnation, brittle and heat sensitive materials, porous materials	Epoxy resin	approx. 12-13 h	Room temperature up to approx. 35 °C	81	medium
KEM 50 UV	For standard samples, soft to medium hard materials, targeted preparation	Modified methacrylate	approx. 60 s	approx. 90 °C	83	high

## Qprep KEM 15 PLUS

QPREP KEM 15 PLUS is a universally applicable two-component cold mounting material based on a modified polyester resin. Due to its very low shrinkage, it is particularly suitable for boundary layer investigations.



### PRODUCT ADVANTAGES

- | Very low shrinkage
- | High edge retention
- | Good chemical resistance
- | Good mechanical machinability
- | Easy dosage with enclosed measuring spoon
- | Curing temperature: approx. 85-100 °C
- | Curing time: approx. 25 min
- | Hardness (Shore D): 85
- | Removal rate: Very low

### RECOMMENDED APPLICATIONS

- | Edge examination
- | Mounting of medium-hard to hard materials
- | Curing by means of overpressure with pressure equipment possible, to minimize porosity and increase edge retention

Item No.	Unit	Description
<b>COLD MOUNTING MATERIAL KEM 15 PLUS</b>		
<b>Basis: Methyl methacrylate</b>		
<ul style="list-style-type: none"> <li>• <b>blue, opaque</b></li> <li>• <b>2-component system: powder + liquid (1.5:1 [Vol.-%])</b></li> </ul>		
95012019	1 Set	1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons
95011628	1 kg	Powder
95011630	10 kg	Powder
95011629	500 ml	Liquid
95011631	5 l	Liquid



## Qprep KEM 20

QPREP KEM 20 is a universally applicable two-component cold mounting material based on a methyl methacrylate resin compound. Transparent embeddings can be realized when curing under overpressure.



### PRODUCT ADVANTAGES

- | Feasibility of transparent embeddings by means of pressure equipment
- | Good chemical resistance
- | Good mechanical machinability
- | Easy dosage with enclosed measuring spoon
- | Curing temperature: approx. 100-120°C
- | Curing time: approx. 15 min
- | Hardness (Shore D): 84
- | Removal rate: Medium

### RECOMMENDED APPLICATIONS

- | Target preparations
- | Mounting of soft to medium-hard materials



Item No.	Unit	Description
<b>COLD MOUNTING MATERIAL KEM 20</b>		
<b>Basis: Methyl methacrylate</b>		
<ul style="list-style-type: none"> <li>• feasibility of transparent embeddings by means of pressure unit</li> <li>• 2-component system: powder + liquid (2:1 [Vol.-%])</li> </ul>		
95013990	1 Set	1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons
95013939	1 kg	Powder
95013940	5 kg	Powder
95013941	10 kg	Powder
95013942	500 ml	Liquid
95013943	1 l	Liquid

## Qprep KEM 30

QPREP KEM 30 is a universal two-component cold mounting resin based on a methyl methacrylate resin compound. It is a fast-curing resin, which is particularly suitable for high sample throughput.



### PRODUCT ADVANTAGES

- | Semi-transparent
- | Good chemical resistance
- | Good mechanical machinability
- | Easy dosage with enclosed measuring spoon
- | Curing temperature: approx. 95-110°C
- | Curing time: approx. 5 min
- | Hardness (Shore D): 85
- | Removal rate: Medium

### RECOMMENDED APPLICATIONS

- | Routine testing with high sample throughput
- | Mounting of soft to medium-hard materials
- | Curing by means of overpressure with pressure equipment possible, to minimize porosity

Item No.	Unit	Description
<b>COLD MOUNTING MATERIAL KEM 30</b>		
<b>Basis: Methyl methacrylate</b>		
<ul style="list-style-type: none"> <li>• green, semi-transparent</li> <li>• 2-component system: powder + liquid (2:1 [Vol.-%])</li> </ul>		
95012021	1 Set	1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons
92004080	1 kg	Powder
92004082	5 kg	Powder
92004081	500 ml	Liquid
92004083	1 l	Liquid
92002540	2.5 l	Liquid





## Qprep TECHNOVIT 5000

Technovit 5000 is an electrically conductive cold mounting material based on a modified Methyl methacrylate compound. It is suitable for SEM examinations and electrolytic polishing.



### PRODUCT ADVANTAGES

- | Electroconductive
- | Contains copper particles
- | Curing temperature: approx. 85-110 °C
- | Curing time: approx. 10 min
- | Hardness (Shore D): 91
- | Removal rate: Very low

### RECOMMENDED APPLICATIONS

- | Scanning electron microscopy
- | Electrolytic polishing

Item No.	Unit	Description
<b>COLD MOUNTING MATERIAL TECHNOVIT 5000</b>		
<b>Basis: Modified methyl methacrylate</b>		
<ul style="list-style-type: none"> <li>• copper-brown, free of blowholes by using a pressure device</li> <li>• 2-component system: powder + liquid (20 g : 13 ml)</li> </ul>		
95004058	1 kg	Powder
95004059	500 ml	Liquid

### COLD MOUNTING MATERIAL TECHNOVIT 5000

#### Basis: Modified methyl methacrylate

- copper-brown, free of blowholes by using a pressure device
- 2-component system: powder + liquid (20 g : 13 ml)

95004058	1 kg	Powder
95004059	500 ml	Liquid



## Qprep KEM 60

QPREP KEM 60 is a universally applicable, mineral-filled, MMA-free two-component cold embedding resin. It is characterized by short curing time and good mechanical machinability.



### PRODUCT ADVANTAGES

- | Free of MMA
- | Good chemical resistance
- | Good mechanical machinability
- | Curing temperature: approx. 95-110°C
- | Curing time: approx. 10 min
- | Hardness (Shore D): 85
- | Removal rate: Low

### RECOMMENDED APPLICATIONS

- | Routine mounting
- | Very wide range of application
- | Curing by means of overpressure with pressure equipment possible, to minimize porosity



Item No.	Unit	Description
<b>COLD MOUNTING MATERIAL KEM 60</b>		
<b>Basis: Tetrahydrofurfuryl-2-methacrylate</b>		
<ul style="list-style-type: none"> <li>• red, MMA-free</li> <li>• 2-component system: powder + liquid (2:0.9 [weight-%])</li> </ul>		
95014004	1 Set	1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons
95013184	1 kg	Powder
95013185	5 kg	Powder
95013187	500 ml	Liquid

## Qprep KEM 90

QPREP KEM 90 is a transparent two-component cold mounting material based on an epoxy resin. Due to its good flowability, it is well suited for the pre-potting of specimens with filigree and complex geometries.



### PRODUCT ADVANTAGES

- | Good transparency
- | Very low gap formation
- | Low viscosity
- | Suitable for vacuum infiltration
- | Curing temperature: RT to approx. 60°C
- | Curing time: 16-24 h
- | Hardness (Shore D): 79
- | Removal rate: High

### RECOMMENDED APPLICATIONS

- | Routine mounting
- | Applicable for a wide range of materials
- | Target preparations
- | Vacuum infiltration of porous material surface
- | Pre-potting of assembled printed circuit boards to fix electronic components prior to cutting.
- | Mounting of low hardness material

Item No.	Unit	Description
<b>COLD MOUNTING MATERIAL KEM 90</b>		
<b>Basis: Epoxy resin</b>		
<ul style="list-style-type: none"> <li>• transparent, suitable for vacuum infiltration</li> <li>• 2-components-system: resin + hardener (2:1 [weight-%])</li> </ul>		
95017315	1 Set	500 ml resin, 250 ml hardener, 40 mixing cups, 40 mixing sticks, 2 dosing spoons
92002484	500 ml	Resin
92002485	250 ml	Hardener





## Qprep Vacuum infiltration and pressure device

When cold mounting porous specimens it is purposeful to infiltrate them under vacuum, with a low viscosity mounting medium (epoxy resins). The QPREP infiltration set as well as QPREP infiltration device offer a solution for embedding under vacuum.

For transparent cold embedding using methyl methacrylate, these must be cured in a pressure device under positive pressure (2 - 2.5 bar). This increases the boiling point of the embedding material and suppresses the formation of gas bubbles during polymerization. The QPREP pressure unit is best suited for this purpose.



### PRODUCT ADVANTAGES

- ! Infiltration of porous materials
- ! Reinforcement of fragile materials
- ! Clear/transparent embedding possible with methyl methacrylate

### RECOMMENDED APPLICATIONS

- ! Infiltration set and infiltration device for embedding with epoxy resin (KEM 90 / 92)
- ! Pressure device for embedding with methyl methacrylate (KEM 15, 20, 30, 35, 60 and Technovit 5000)

Item No.	Unit	Description
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### INFILTRATION SET

- for cold mounting and hardening using vacuum
- recommended for Epoxy resin KEM 90 / 92

Z6510000	1 Pc.	desiccator incl. non-return valve, vacuum pump, hose and pressure gauge
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### INFILTRATION UNIT

- for cold mounting, pouring and hardening using vacuum
- recommended for Epoxy resin KEM 90 / 92

M6500001	1 Pc.	infiltration unit, 230 V/50 Hz, vacuum pressure 0.8 bar, W 330 x H 270 x D 300 mm (including desiccator with mechanic dosing and vacuum pump, rotating disc for 8 silicon mounting cups Ø 50 mm or 9 PTFE-mounting cups Ø 40 mm, 10 mixing cups)
		110 V/60 Hz on request



### PRESSURE EQUIPMENT

**Pressure equipment for bubble free hardening of methyl methacrylates (for embedding with KEM 15, 20, 30, 35, 60 and Technovit 5000)**

- compressed air required (approx. 6 bar)

95016569	1 Pc.	Pressure equipment, dimensions: B 340 x W340 x H255 mm
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# UV mounting

If transparent embedding of a specimen within 1-5 minutes without high heat input or pressure is desired, light-curing embedding is essential. Single component mounting materials based on a modified acrylate are used here. Curing is conducted under UV light at a temperature of approx. 90°C. This method is quite easy to handle and even very small specimens can be fixed and ideally positioned within a very short time.

## Advantages

- | Very high sample throughput
- | Samples are cured in a very short time (with QATM Qmount within 60 seconds)
- | Transparent and colorless
- | Low curing temperature (approx. 90 °C)
- | Suitable for very small samples and temperature sensitive materials



## Qprep KEM 50 UV

QPREP KEM 50 UV is a light-curing, acrylic resin-based cold mounting material. It is ideally suited for target preparations and is usually used for routine specimens as well as soft to medium-hard materials with simple geometries. Curing is taken place by using the UV mounting device Qmount, which allows curing of the samples within 60 seconds using UV radiation of a very narrowly tolerated wavelength range (emission maximum at  $\lambda = 365\text{nm}$ ).



### PRODUCT ADVANTAGES

- | Clear, colorless liquid with honey-like viscosity
- | Very good transparency
- | Curing by means of UV-Light
- | No mixing necessary as it is a one-component system
- | Curing temperature: approx. 90°C
- | Curing time: 60s
- | Hardness (Shore D): 83
- | Removal rate: High

### RECOMMENDED APPLICATIONS

- | Routine mounting
- | Target preparations
- | Fixation of small components

Item No.	Unit	Description
<b>UV MOUNTING MATERIAL KEM 50 UV</b>		
<b>Basis: Modified methacrylate</b>		
<ul style="list-style-type: none"> <li>• transparent</li> <li>• 1-component system</li> </ul>		
95016840	1 l	All-in-one liquid
<b>COLD MOUNTING MOULDS FOR UV MOUNTING</b>		
<b>Polypropylene round</b>		
<ul style="list-style-type: none"> <li>• with exchangeable bottom</li> </ul>		
95017317	5 Pcs.	Ø 25 mm / H 27 mm
95017318	5 Pcs.	Ø 30 mm / H 27 mm
95017319	5 Pcs.	Ø 40 mm / H 27 mm



## Qprep Accessories & tools for cold and UV mounting

The mixing of the different resin components as well as the exact positioning of your specimens influence the quality of your mounting. Therefore, QPREP supports with a wide range of tools and accessories for cold mounting. Mixing of the resin components, fixing and correct positioning of the samples in the cold mounting moulds can thus be realized reliably and safely.



### ACCESSORIES

- | Mixing beakers and spatulas
- | Mounting utilities
- | Dosing spoons
- | Steel- and plastic clips



### ACCESSORIES

Item No.	Unit	Description
92001715	100 Pcs.	Mixing cups, disposable, 180 ml
92004360	1 Pc.	Silicon mixing cup, reusable
92001717	100 Pcs.	Mixing sticks (wood)
92002657	100 Pcs.	Angle adapter for angled polishing, 10°
92001716	10 Pcs.	Dosing spoon for hot and cold mounting material, 13 ml
92001779	10 Pcs.	Dosing spoon for cold mounting material, 20 ml
92001781	10 Pcs.	Dosing spoon for cold mounting material, 13 ml



### CLIP FOR ALIGNING THIN SAMPLES IN MOULD

92002662	100 Pcs.	Steel
92002663	100 Pcs.	Plastic, transparent
92002707	100 Pcs.	Plastic, black
92002708	100 Pcs.	Plastic, red
92002709	100 Pcs.	Plastic, grey

### PLASTIC MOUNTING AID

92002623	100 Pcs.	Ø 30 mm, gap 1 mm
92002625	100 Pcs.	Ø 30 mm, gap 2 mm
92002624	100 Pcs.	Ø 30 mm, gap 3 mm



### TRANSPARENT MOUNTING AID

95016787	10 Pcs.	4x1, sample thickness <1 mm
95016788	50 Pcs.	4x1, sample thickness <1 mm
95016789	100 Pcs.	4x1, sample thickness <1 mm
95016790	10 Pcs.	4x2, sample thickness 1-2 mm
95016791	50 Pcs.	4x2, sample thickness 1-2 mm
95016792	100 Pcs.	4x2, sample thickness 1-2 mm
95016793	10 Pcs.	3x3, sample thickness 2-3 mm
95016794	50 Pcs.	3x3, sample thickness 2-3 mm
95016795	100 Pcs.	3x3, sample thickness 2-3 mm
95016796	10 Pcs.	2x4, sample thickness 3-4 mm
95016797	50 Pcs.	2x4, sample thickness 3-4 mm
95016798	100 Pcs.	2x4, sample thickness 3-4 mm

## Qprep Cold mounting moulds

Choosing a cold mounting mould of the correct size and suitable material the result of the mounting can be optimized. QPREP offers a variety of reusable and chemically resistant moulds of different sizes and materials for this purpose.



### Silicone rubber, round or rectangular, beveled edge

- | Flexibility of the material enables easy demoulding after curing
- | Thick-walled mould, therefore, not recommended for light curing
- | Without removable base

### Polypropylene, round

- | Semi-transparent, therefore suitable for light curing
- | With removable base for easy demoulding after curing

### Polyethylene, round

- | Opaque, therefore, not recommended for light curing
- | With removable base for easy demoulding after curing

### PTFE, beveled edge, round

- | Long period of usage
- | High strength, for long shape retention
- | Opaque, therefore not recommended for light curing
- | With removable base for easy demoulding after curing

Item No.	Unit	Description
<b>COLD MOUNTING MOULDS</b>		
<b>Silicon rubber round, beveled edge</b>		
<b>• not suitable for light curing</b>		
95017026	5 Pcs.	Ø 25 mm / H 23 mm
95017027	5 Pcs.	Ø 30 mm / H 25 mm
95017028	5 Pcs.	Ø 32 mm / H 25 mm
95017029	5 Pcs.	Ø 38 mm / H 25 mm
95017030	5 Pcs.	Ø 40 mm / H 30 mm
95017031	5 Pcs.	Ø 50 mm / H 30 mm
<b>Silicon rubber square, beveled edge</b>		
<b>• not suitable for light curing</b>		
92002509	1 Pc.	55 x 30 mm / H 22 mm
95017032	5 Pcs.	55 x 30 mm / H 22 mm
92002510	1 Pc.	70 x 40 mm / H 22 mm
95017033	5 Pcs.	70 x 40 mm / H 22 mm
<b>Polypropylene round</b>		
<b>• suitable for light curing</b>		
<b>• with exchangeable bottom</b>		
95017317	5 Pcs.	Ø 25 mm / H 27 mm
95017318	5 Pcs.	Ø 30 mm / H 27 mm
95017319	5 Pcs.	Ø 40 mm / H 27 mm

Item No.	Unit	Description
<b>COLD MOUNTING MOULDS</b>		
<b>Polyethylene round</b>		
<ul style="list-style-type: none"> <li>• not suitable for light curing</li> <li>• with exchangeable bottom</li> </ul>		
95017037	5 Pcs.	Ø 25 mm / H 25 mm
95017038	5 Pcs.	Ø 30 mm / H 25 mm
95017039	5 Pcs.	Ø 40 mm / H 25 mm
95017040	5 Pcs.	Ø 50 mm / H 25 mm
<b>PTFE round, beveled edge</b>		
<ul style="list-style-type: none"> <li>• not suitable for light curing</li> <li>• with exchangeable bottom</li> </ul>		
92002513	1 Pc.	Ø 25 mm / H 23 mm
95017041	3 Pcs.	Ø 25 mm / H 23 mm
92002514	1 Pc.	Ø 30 mm / H 25 mm
95017042	3 Pcs.	Ø 30 mm / H 25 mm
92002515	1 Pc.	Ø 32 mm / H 25 mm
95017043	3 Pcs.	Ø 32 mm / H 25 mm
92002516	1 Pc.	Ø 38 mm / H 25 mm
95017044	3 Pcs.	Ø 38 mm / H 25 mm
92002517	1 Pc.	Ø 40 mm / H 30 mm
95017045	3 Pcs.	Ø 40 mm / H 30 mm
92002518	1 Pc.	Ø 50 mm / H 30 mm
95017046	3 Pcs.	Ø 50 mm / H 30 mm
92002519	1 Pc.	Ø 70 mm / H 30 mm
95017047	3 Pcs.	Ø 70 mm / H 30 mm

## RECOMMENDED APPLICATION

Mounting material	PTFE mould		PP mould		PE mould		Silicone rubber mould	
	round	round	round	round	round	round	square	
KEM 15 plus								
KEM 20								
KEM 30								
KEM 35								
TECHNOVIT 5000								
KEM 60								
KEM 90								
KEM 92								
KEM 50 UV								

= very well suited, 
 = well suited, 
 = limited suitable, 
 = not suitable





# Solution Boxes



**QATM**  
QUALITY ASSURED

**ALL-IN  
SMART SOLUTIONS**

GET YOUR PERFECT RESULTS



## Qprep Solution Boxes

In addition to the necessary specialist knowledge, the correct selection of the media suitable for the sample material is essential for a successful preparation. For a secure start close to the application, the QATM solution boxes contain all the grinding and polishing media required for the preparation of a specific material. If the preparation recommendations described are observed, this enables an optimal result.

**19 different boxes for different materials are available for media in Ø250 mm and Ø300 mm.**



### QPREP SOLUTION BOXES INCLUDE:

- | A guide for the preparation of the selected material.
- | Consumables for grinding as well as polishing: Grinding disc, grinding paper, Diamond suspension and polishing cloth

### PRODUCT ADVANTAGES

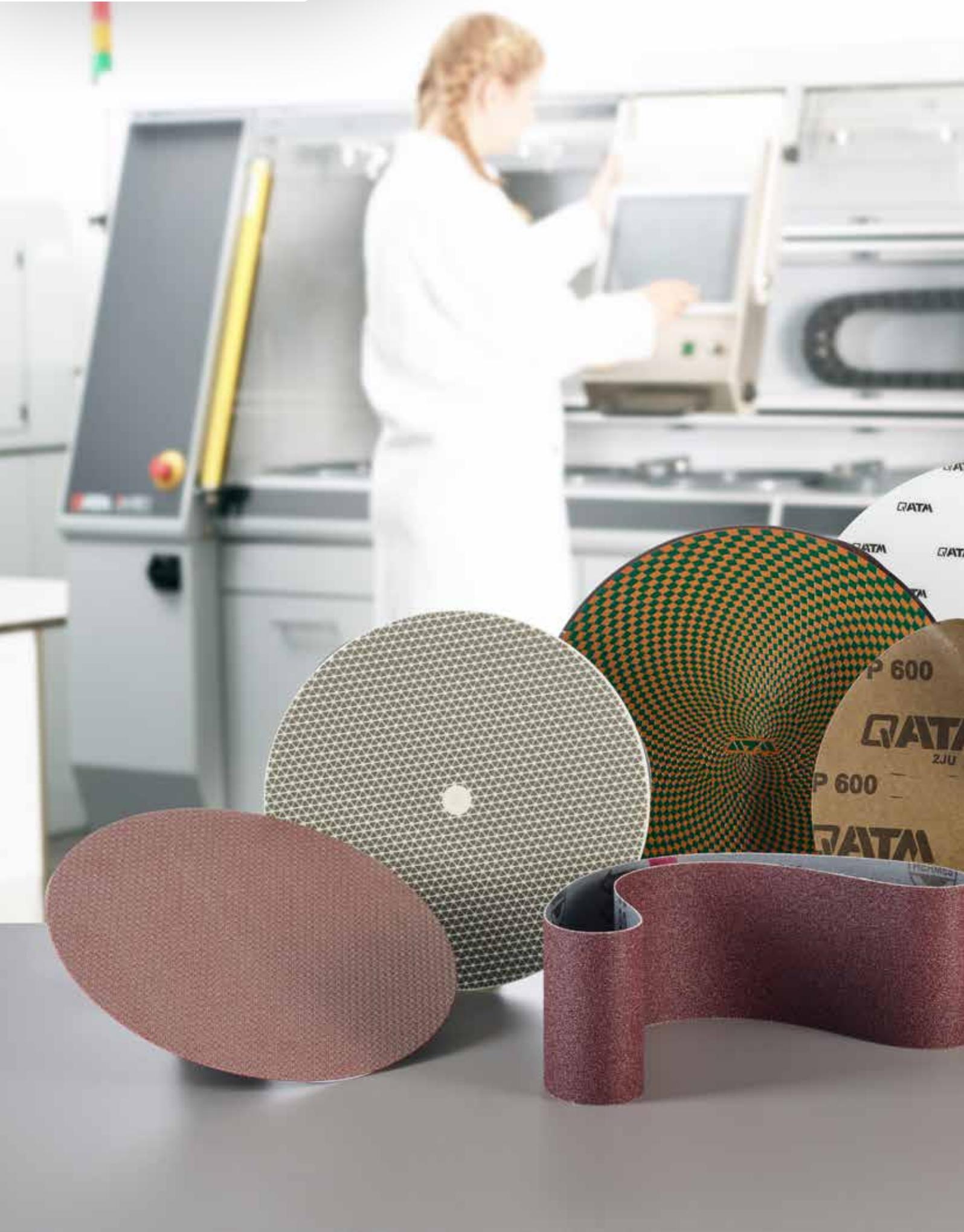
- | Evaluated preparation guide
- | Consumables for preparation available in sufficient quantity
- | Simple instructions for laboratory workers

### RECOMMENDED APPLICATIONS

- | For unknown specimen preparation
- | Ideally suited for new customers as an introduction

Item No.	Unit	Description
<b>SOLUTION BOXES</b>		
<b>Set of consumables including preparation guide for respective materials</b>		
<b>Al (≥99.7%), wrought Al alloys</b>		
95013972	1 Box	Solution Box Ø 250 mm
95013973	1 Box	Solution Box Ø 300 mm
<b>Aluminum alloys</b>		
95013883	1 Box	Solution Box Ø 250 mm
95013473	1 Box	Solution Box Ø 300 mm
<b>Composites (CFC/GFC)</b>		
95013894	1 Box	Solution Box Ø 250 mm
95013877	1 Box	Solution Box Ø 300 mm
<b>Cast iron (GJS/GJL)</b>		
95013898	1 Box	Solution Box Ø 250 mm
95013881	1 Box	Solution Box Ø 300 mm
<b>Soft to medium-hard steel</b>		
95013896	1 Box	Solution Box Ø 250 mm
95013879	1 Box	Solution Box Ø 300 mm
<b>Medium-hard to hard steel</b>		
95013884	1 Box	Solution Box Ø 250 mm
95013474	1 Box	Solution Box Ø 300 mm
<b>Stainless steel</b>		
95013897	1 Box	Solution Box Ø 250 mm
95013880	1 Box	Solution Box Ø 300 mm

Item No.	Unit	Description
<b>SOLUTION BOXES</b>		
<b>Set of consumables including preparation guide for respective materials</b>		
<b>Steel and welded steel (macro)</b>		
95013893	1 Box	Solution Box Ø 250 mm
95013876	1 Box	Solution Box Ø 300 mm
<b>Nitrided steel</b>		
95013899	1 Box	Solution Box Ø 250 mm
95013882	1 Box	Solution Box Ø 300 mm
<b>Ceramics</b>		
95013887	1 Box	Solution Box Ø 250 mm
95013870	1 Box	Solution Box Ø 300 mm
<b>Cobalt based alloy</b>		
95013890	1 Box	Solution Box Ø 250 mm
95013873	1 Box	Solution Box Ø 300 mm
<b>Nickel based alloy</b>		
95013975	1 Box	Solution Box Ø 250 mm
95013976	1 Box	Solution Box Ø 300 mm
<b>Spray coatings (metallic)</b>		
95013889	1 Box	Solution Box Ø 250 mm
95013872	1 Box	Solution Box Ø 300 mm
<b>Magnesium based alloy</b>		
95013895	1 Box	Solution Box Ø 250 mm
95013878	1 Box	Solution Box Ø 300 mm
<b>Circuit board (non assembled)</b>		
95013886	1 Box	Solution Box Ø 250 mm
95013869	1 Box	Solution Box Ø 300 mm
<b>Circuit board (assembled)</b>		
95013891	1 Box	Solution Box Ø 250 mm
95013874	1 Box	Solution Box Ø 300 mm
<b>Copper and copper alloys</b>		
95013885	1 Box	Solution Box Ø 250 mm
95013475	1 Box	Solution Box Ø 300 mm
<b>Titanium (grade 1-4)</b>		
95013892	1 Box	Solution Box Ø 250 mm
95013875	1 Box	Solution Box Ø 300 mm
<b>Titanium alloys</b>		
95013888	1 Box	Solution Box Ø 250 mm
95013871	1 Box	Solution Box Ø 300 mm





# 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 (Al<sub>2</sub>O<sub>3</sub>), silicon dioxide (SiO<sub>2</sub>), zirconium dioxide (ZrO<sub>2</sub>), 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 Qgrind 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				
<b>PLANAR GRINDING STONES FOR QGRIND XL</b>						
		<table border="1"> <thead> <tr> <th>Grain Size FEPA standard</th> <th>Outer Ø</th> <th>Inner Ø</th> <th>Abor Size Ø</th> </tr> </thead> </table>	Grain Size FEPA standard	Outer Ø	Inner Ø	Abor Size Ø
Grain Size FEPA standard	Outer Ø	Inner Ø	Abor Size Ø			
		<b>White corundum grinding stone</b> • for tool steel (hardened and not hardened), stainless steel, steel and cast iron				
95016741	1 Pc.	100      356 mm      126 mm      38 mm				
		<b>SIC grinding stone</b> • for sintered materials (low- and unalloyed), aluminum, chilled cast iron, copper				
95016747	1 Pc.	150      356 mm      126 mm      38 mm				
		<b>Multi point dressing diamond for dressing face grinding stones</b>				
95016897	1 Pc.	Multi point dressing diamond				



Item No.	Unit	Description			
<b>PLANAR GRINDING STONES FOR SAPHIR 375</b>					
		Grain Size FEPA standard	Outer Ø	Inner Ø	Arbor Size Ø
<b>White corundum grinding stone</b> • 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
<b>SIC grinding stone</b> • 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					
<b>Multi point dressing diamond for dressing face grinding stones</b>					
92008759	1 Pc.	Multi point dressing diamond			

## 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 A and Qcut 200 A (coming soon) 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				
<b>DIAMOND CUP GRINDER</b>						
		Ø	Thickness	Height	Arbor Size	Grain Size
<b>• for glass fiber-reinforced boards</b> <b>• with galvanic bond</b>						
92008573	1 Pc.	100 mm	8 mm	35 mm	12.7 mm	coarse
92006607	1 Pc.	150 mm	8 mm	35 mm	12.7 mm	coarse
<b>• for glass, ceramics, rocks, hard metal</b> <b>• with resin bond</b>						
95015122	1 Pc.	150 mm	8 mm	21.5 mm	12.7 mm	fine
95015123	1 Pc.	150 mm	8 mm	21.5 mm	12.7 mm	coarse

# Grinding Discs

QPREP provides a comprehensive portfolio of grinding discs with different bond systems, grain types and grain 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 contribute to a sustainable and resource-saving process in materialography.

## PRODUCT ADVANTAGES

- ! High endurance
- ! 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
<b>GALAXY</b>		<b>GREY</b>	<b>RED</b>	<b>GREEN</b>	<b>BLUE</b>	<b>YELLOW</b>		> 350 HV
<b>Grain size (µm)</b>	<b>250</b>		<b>125</b>	<b>60</b>	<b>30</b>	<b>15</b>	<b>6 3</b>	<b>material hardness</b>
<b>POLARIS M</b>				60	30	15	6 3	250 – 600 HV
<b>POLARIS H</b>			125	60	30	15	6 3	> 500 HV
<b>QUASAR</b>	250		125	91 46				> 500 HV
<b>VEGA</b>			125	75 54	25		10	universal

## Removal rate\*

<b>GALAXY</b>	██████████
<b>POLARIS M</b>	██████████
<b>POLARIS H</b>	██████████
<b>QUASAR</b>	██████████
<b>VEGA</b>	██████████

## Surface quality\*

<b>GALAXY</b>	██████████
<b>POLARIS M</b>	██████████
<b>POLARIS H</b>	██████████
<b>QUASAR</b>	██████████
<b>VEGA</b>	██████████

\*with newly dressed / cleaned disc and same grit sizes



**FIXATION SYSTEM FOR GRINDING DISCS**

# 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	
<b>MAGNETIC FOIL, SELF-ADHESIVE</b>			
		∅	thickness
<b>Magnetic foil, normal adhesion</b>			
• to apply on working wheel			
92008528	1 Pc.	200 mm	1 mm
92005820	1 Pc.	250 mm	1 mm
92005822	1 Pc.	300 mm	1 mm
<b>Magnetic foil, strong adhesion</b>			
• 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
<b>Magnetic foil, strongest adhesion</b>			
• to apply on working wheel			
• Increased magnetic adhesion by higher material thickness			
95016298	1 Pc.	200 mm	2 mm
95016300	1 Pc.	250 mm	2 mm
95016301	1 Pc.	300 mm	2 mm
95016302	1 Pc.	350 mm	2 mm



## Qprep GALAXY diamond grinding disc

QPREP GALAXY diamond grinding discs are with specially arranged elements, which contains resin-bonded diamond grains, on a stainless-steel metal carrier equipped. 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.



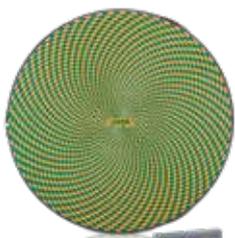
### PRODUCT ADVANTAGES

- | 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	
<b>GALAXY DIAMOND GRINDING DISCS BOND: RESIN</b>			
<b>Description</b>			<b>Ø</b>
<b>for medium to hard materials</b>			
• <b>planar grinding: grey (P80-100)</b>			
• <b>Fixation system: Magnetic foil</b>			
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			
<b>for medium to hard materials</b>			
• <b>planar grinding: red (P100-120)</b>			
• <b>Fixation system: Magnetic foil</b>			
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			
<b>for medium to hard materials</b>			
• <b>fine grinding: green (P180-320)</b>			
• <b>Fixation system: Magnetic foil</b>			
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			





## 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 life time

### RECOMMENDED APPLICATIONS

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



Item No.	Unit	Description	
<b>POLARIS M DIAMOND GRINDING DISCS</b>			
		<b>Description</b>	<b>Grain Size</b>
<b>for medium-hard materials</b>			
• incl. cleaning stone No. (95015077)			
• Fixation system: Magnetic foil			
<b>200 mm Ø</b>			
95014991	1 Pc.	POLARIS M diamond grinding disc	60 µm
95014992	1 Pc.	POLARIS M diamond grinding disc	30 µm
95014993	1 Pc.	POLARIS M diamond grinding disc	15 µm
95014994	1 Pc.	POLARIS M diamond grinding disc	6 µm
95014995	1 Pc.	POLARIS M diamond grinding disc	3 µm
<b>250 mm Ø</b>			
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
<b>300 mm Ø</b>			
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
<b>350 mm Ø</b>			
95015066	1 Pc.	POLARIS M diamond grinding disc	60 µm
95015067	1 Pc.	POLARIS M diamond grinding disc	30 µm
95015068	1 Pc.	POLARIS M diamond grinding disc	15 µm
95015069	1 Pc.	POLARIS M diamond grinding disc	6 µm
95015070	1 Pc.	POLARIS M diamond grinding disc	3 µm

## 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 life time

### RECOMMENDED APPLICATIONS

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



Item No.	Unit	Description	
<b>POLARIS H DIAMOND GRINDING DISCS</b>			
		<b>Description</b>	<b>Grain Size</b>
<b>for hard materials</b>			
• incl. cleaning stone No. (95015077)			
• Fixation system: Magnetic foil			
<b>200 mm Ø</b>			
95014985	1 Pc.	POLARIS H diamond grinding disc	125 µm
95014986	1 Pc.	POLARIS H diamond grinding disc	60 µm
95014987	1 Pc.	POLARIS H diamond grinding disc	30 µm
95014988	1 Pc.	POLARIS H diamond grinding disc	15 µm
95014989	1 Pc.	POLARIS H diamond grinding disc	6 µm
95014990	1 Pc.	POLARIS H diamond grinding disc	3 µm
<b>250 mm Ø</b>			
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
<b>300 mm Ø</b>			
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
<b>350 mm Ø</b>			
95015060	1 Pc.	POLARIS H diamond grinding disc	125 µm
95015061	1 Pc.	POLARIS H diamond grinding disc	60 µm
95015062	1 Pc.	POLARIS H diamond grinding disc	30 µm
95015063	1 Pc.	POLARIS H diamond grinding disc	15 µm
95015064	1 Pc.	POLARIS H diamond grinding disc	6 µm
95015065	1 Pc.	POLARIS H diamond grinding disc	3 µm

## 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 life time

### RECOMMENDED APPLICATIONS

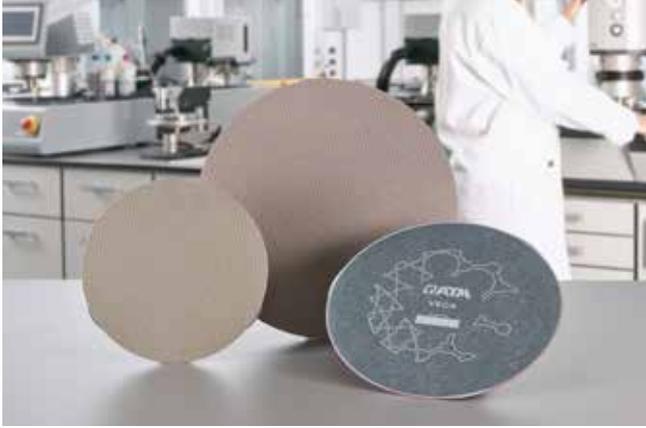
- | Hard ferrous materials
- | Nickel base-super alloys
- | Hard metals
- | Ceramics



Item No.	Unit	Description	
<b>QUASAR DIAMOND GRINDING DISCS</b>			
		<b>Description</b>	<b>Grain Size</b>
<b>for hard materials</b>			
• incl. dressing stone No. (95015076)			
• Fixation system: Magnetic foil			
<b>200 mm Ø</b>			
95014981	1 Pc.	QUASAR diamond grinding disc	252 µm
95014982	1 Pc.	QUASAR diamond grinding disc	125 µm
95014983	1 Pc.	QUASAR diamond grinding disc	91 µm
95014984	1 Pc.	QUASAR diamond grinding disc	46 µm
<b>250 mm Ø</b>			
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
<b>300 mm Ø</b>			
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
<b>350 mm Ø</b>			
95015056	1 Pc.	QUASAR diamond grinding disc	252 µm
95015057	1 Pc.	QUASAR diamond grinding disc	125 µm
95015058	1 Pc.	QUASAR diamond grinding disc	91 µm
95015059	1 Pc.	QUASAR diamond grinding disc	46 µm

## 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 life time

### RECOMMENDED APPLICATIONS

- | Hard ferrous materials
- | Composites
- | Ceramics
- | Rocks
- | Possible to grind unmounted samples

Item No.	Unit	Description	
<b>VEGA DIAMOND GRINDING DISCS</b>			
		<b>Description</b>	<b>Grain Size</b>
<b>for hard materials, for planar and pre-grinding</b>			
<b>• Fixation system: Magnetic foil</b>			
<b>200 mm Ø</b>			
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
<b>250 mm Ø</b>			
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
<b>300 mm Ø</b>			
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
<b>350 mm Ø</b>			
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 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.



### PRODUCT ADVANTAGES

- | High stock removal rate
- | Long life time
- | High edge retention

### RECOMMENDED APPLICATIONS

- | All-purpose usage
- | Routine testing with high sample throughput
- | Edge examinations
- | Layer typography characterization
- | For use with diamond grain size: 15 / 9 / 6 µm

Item No.	Unit	Description	
<b>CONTERO S FINE GRINDING DISCS</b>			
		<b>Description</b>	<b>Ø</b>
<b>for soft to medium materials</b>			
<b>• Fixation system: Magnetic foil</b>			
95013192	1 Pc.	Contero S fine grinding disc	200 mm
95013194	1 Pc.	Contero S fine grinding disc	250 mm
95013196	1 Pc.	Contero S fine grinding disc	300 mm
95013922	1 Pc.	Contero S fine grinding disc	350 mm



<b>CONTERO H FINE GRINDING DISCS</b>			
		<b>Description</b>	<b>Ø</b>
<b>for medium to hard materials</b>			
<b>• Fixation system: Magnetic foil</b>			
95013193	1 Pc.	Contero H fine grinding disc	200 mm
95013195	1 Pc.	Contero H fine grinding disc	250 mm
95013197	1 Pc.	Contero H fine grinding disc	300 mm
95013923	1 Pc.	Contero H fine grinding disc	350 mm

Item No.	Unit	Description	
<b>CLEANING BRUSHES</b>			
		<b>Description</b>	
<b>• for cleaning of grinding and fine grinding discs</b>			
95016623	1 Pc.	Nylon brush	



# Grinding papers and foils

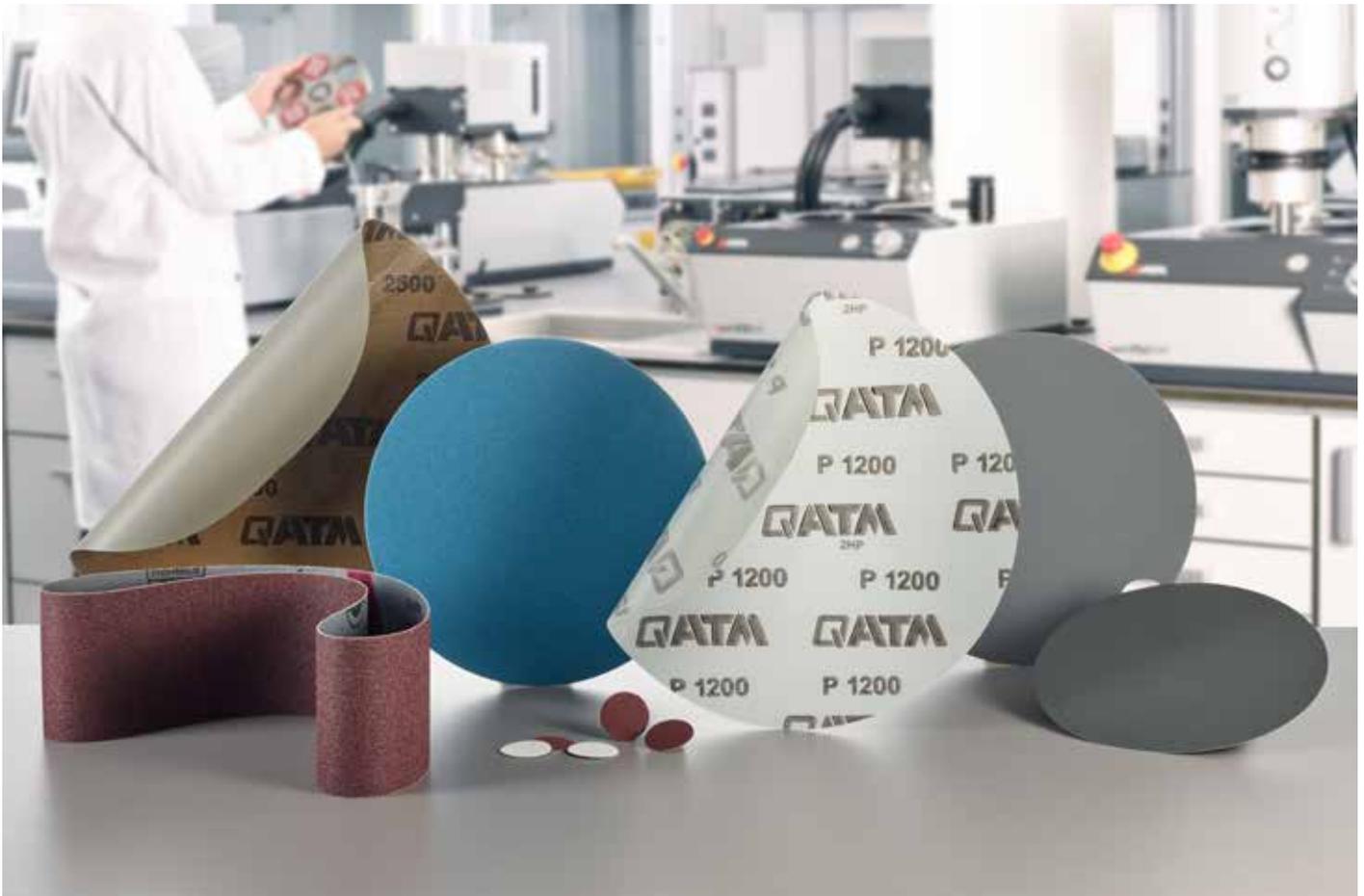
As an alternative to QPREP grinding discs, specimen preparation is also possible using QPREP grinding papers and foils. These differ in the type of carrier material and the possibility of the fixation systems to be used (double-sided adhesive carrier, X-Tap, Quick-Tap).

## Grinding papers:

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

## Grinding foils:

- | Back foil, carrier material foil



## Notes

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**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

**RECOMMENDED APPLICATIONS**

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

Item No.	Unit	Description
<b>ADHESIVE CARRIER DISCS, DOUBLE-SIDED</b>		
Ø		
95003781	1 Pc.	200 mm
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



### Notes

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## 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 200 / 250 / 300 / and 350 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
<b>Silicon carbide grinding foils</b>		
<b>Grain FEPA standard</b>		
<b>• Fixation system: Adhesive carrier disc</b>		
<b>200 mm Ø</b>		
92008594	100 Pcs.	SiC grinding foil P120
92008595	100 Pcs.	SiC grinding foil P180
95007925	100 Pcs.	SiC grinding foil P240
92008592	100 Pcs.	SiC grinding foil P320
92008591	100 Pcs.	SiC grinding foil P600
95000870	100 Pcs.	SiC grinding foil P800
92008596	100 Pcs.	SiC grinding foil P1200
95008558	100 Pcs.	SiC grinding foil P2500
<b>250 mm Ø</b>		
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
<b>300 mm Ø</b>		
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
<b>350 mm Ø</b>		
95015187	100 Pcs.	SiC grinding foil P120
95015188	100 Pcs.	SiC grinding foil P180
95015189	100 Pcs.	SiC grinding foil P240
95015190	100 Pcs.	SiC grinding foil P320
95015191	100 Pcs.	SiC grinding foil P600
95015192	100 Pcs.	SiC grinding foil P800
95015193	100 Pcs.	SiC grinding foil P1200
95015194	100 Pcs.	SiC grinding foil P2500



## 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	
<b>SILICON CARBIDE GRINDING PAPER WITH FOIL BACKING</b>			
<b>Grain FEPA standard</b>			
<b>• Fixation system: Adhesive carrier disc</b>			
<b>200 mm Ø</b>			
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
<b>250 mm Ø</b>			
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 X-Tap

The QPREP 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 either directly to the work disc or 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 X-Tap
- | Easier cleaning compared to adhesive carrier disc

## RECOMMENDED APPLICATIONS

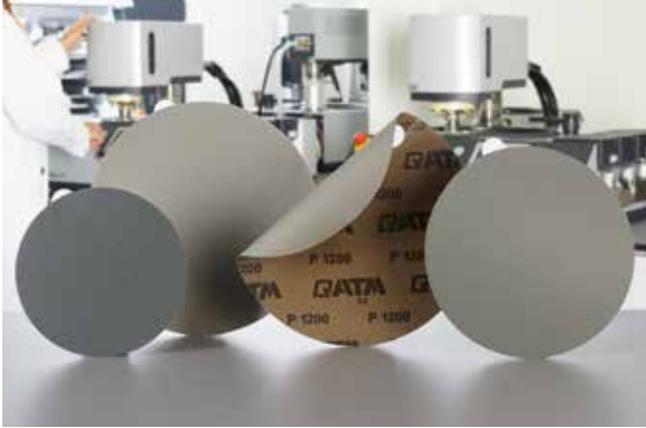
- | Preparations with high edge sharpness
- | Carrier plate for self-adhesive grinding paper and self-adhesive polishing cloths

Item No.	Unit	Description
<b>X-TAP</b>		
Ø		
<b>X-Tap (self-adhesive to stick on the working wheel)</b>		
95017015	1 Pc.	200 mm
95017016	1 Pc.	250 mm
95017017	1 Pc.	300 mm
95017018	1 Pc.	350 mm
<b>GALAXY-X-Tap (for using with magnetic foil)</b>		
95017019	1 Pc.	200 mm
95017020	1 Pc.	250 mm
95017021	1 Pc.	300 mm
95017022	1 Pc.	350 mm



## 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 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 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: 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
<b>SILICON CARBIDE GRINDING PAPERS, SELF-ADHESIVE</b>		
<b>Grain FEPA standard</b>		
<b>• Fixation system: X-Tap</b>		
<b>300 mm Ø</b>		
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 X-Tap

### RECOMMENDED APPLICATIONS

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

Item No.	Unit	Description
<b>ZIRCONIA ALUMINA GRINDING PAPERS, SELF-ADHESIVE</b>		
<b>Grain FEPA standard</b>		
<b>• Fixation system: X-Tap</b>		
<b>200 mm Ø</b>		
92002374	25 Pcs.	Zirconia alumina grinding paper P60
92002375	25 Pcs.	Zirconia alumina grinding paper P120
92002376	25 Pcs.	Zirconia alumina grinding paper P180
<b>250 mm Ø</b>		
92002382	25 Pcs.	Zirconia alumina grinding paper P60
92002383	25 Pcs.	Zirconia alumina grinding paper P120
92002384	25 Pcs.	Zirconia alumina grinding paper P180
<b>300 mm Ø</b>		
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 Clamping Ring

The QPREP clamping ring is made of plastic and allows grinding papers without adhesive / foil backing to be attached directly to the working disc. This ensures very low resilience and minimizes edge rounding during the grinding process. For changing the grinding paper, the clamping ring must be re-attached each time.



Item No.	Unit	Description
<b>CLAMPING RING FOR GRINDING PAPERS</b>		
Ø		
• made from plastic		
05610228	1 Pc.	200 mm
05610227	1 Pc.	230 mm
05610226	1 Pc.	250 mm
05610225	1 Pc.	300 mm

**FIXATION SYSTEM FOR SILICON GRINDING PAPERS WITHOUT ADHESIVE/FOIL BACKING**

## Qprep Quick-Tap

The quick and reusable fixation system for grinding paper without backside coating. Alternative to the clamping ring and the adhesive foil, the innovative QPREP Quick-Tap is ideally suited for fixing grinding paper without adhesive/foil backing. This fixation system is based on a GALAXY metal disc (for easy fixation in connection with the QPREP magnetic foil) on which a thin adhesive layer is applied.


**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

**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 magnetic foil

Item No.	Unit	Description
<b>COMING SOON</b>		
<b>QUICK-TAP</b>		
Ø		
	2 Pcs.	200 mm
	2 Pcs.	230 mm
	2 Pcs.	250 mm
	2 Pcs.	300 mm

## 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
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### SILICON CARBIDE GRINDING PAPERS WITHOUT ADHESIVE/FOIL BACKING

#### Grain FEPA standard

- Fixation system: Quick-Tap or clamping ring
- 200 mm Ø**

92001810	100 Pcs.	SiC grinding paper, plain backed	P60
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	
<b>SILICON CARBIDE GRINDING PAPERS WITHOUT ADHESIVE/FOIL BACKING</b>			
<b>Grain FEPA standard</b>			
<b>• Fixation system: Quick-Tap or clamping ring</b>			
<b>230 mm Ø</b>			
92001567	100 Pcs.	SiC grinding paper, plain backed	P60
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
92002635	100 Pcs.	SiC grinding paper, plain backed	2400*
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			
<b>250 mm Ø</b>			
92001580	100 Pcs.	SiC grinding paper, plain backed	P60
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			
<b>300 mm Ø</b>			
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			









# Consumables for polishing



# Polishing

The polishing of the materialographic specimen serves, similar like grinding and after the grinding step, to remove the deformation introduced into the material. For this purpose, the unbound abrasive/grain is applied to special polishing cloths in gradually finer grain sizes. A distinction is made between three polishing processes with different polishing media:



A wide range of QPREP polishing media, lubricants and polishing cloths is available for this purpose.

## Diamond Suspension

QPREP diamond suspensions are the polishing product of choice for materialographic preparations. The range of different chemical bases (water, alcohol, or oil) allows scratch-free polishing, depending on the application.

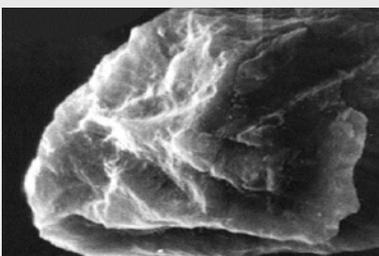
**QPREP diamond suspensions are characterized by**

- ! **A narrow tolerance grain size distribution for a uniform scratch pattern.**
- ! **The optimized diamond concentration for high removal rate and time-saving polishing.**
- ! **Suitable for use with all materials.**

The abrasive used is (industrial) diamond, which is divided into monocrystalline and polycrystalline, since different levels of material removal rate are achieved.

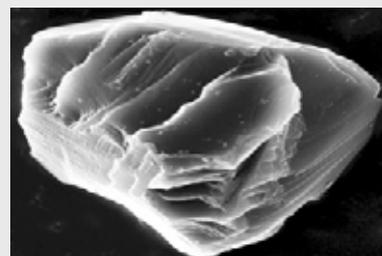
### Polycrystalline (industrial) diamonds:

It consists of a multi-crystal, which breaks into smaller components when used, thus repeatedly creating new cutting edges (self-sharpening effect). This results in a high material removal rate and time-optimized polishing results.



### Monocrystalline (industrial) diamonds:

It consists of a single crystal that breaks into small slices like a block when used. There is no self-sharpening effect as with polycrystalline diamonds. Due to this, a more material-friendly but also more time-consuming removal rate is achieved during polishing.



QPREP diamond suspensions are used in combination with a lubricant based on water, alcohol, or oil. The right mixing ratio between suspension and lubricant must be observed to achieve correct polishing results. Alternatively, QATM offers the QPREP DIA-Complete All-In-One diamond suspension. It contains the lubricant in an optimized ratio, which eliminates the need for manual dosing and mixing of suspension and lubricant.

## Qprep DIA-COMPLETE Poly

QPREP DIA-Complete Poly (polycrystalline) is an all-in-one diamond suspension that is used for a wide range of materials.



### PRODUCT ADVANTAGES

- | High material removal rate
- | Easy handling
- | Optimally adjusted ratio of suspension and lubricant
- | Process reliable and repeatable polishing results
- | Water based (eco-friendly)
- | Closely tolerated grain size

### RECOMMENDED APPLICATIONS

- | All Material besides water-sensitiv materials
- | Soft to hard materials
- | Manual as well as semi and fully automatic preparation

Item No.	Unit	Description
<b>DIA-COMPLETE POLY, ALL-IN-ONE DIAMOND SUSPENSION</b>		
<b>Grain Size</b>		
<b>Combined product of diamond suspension and lubricant</b>		
95011833	500 ml	0.25 µm
95011839	1 l	0.25 µm
95011845	2.5 l	0.25 µm
95016023	5 l	0.25 µm
95011834	500 ml	1 µm
95011840	1 l	1 µm
95011846	2.5 l	1 µm
95015394	5 l	1 µm
95011835	500 ml	3 µm
95011841	1 l	3 µm
95011847	2.5 l	3 µm
95015395	5 l	3 µm
95011836	500 ml	6 µm
95011842	1 l	6 µm
95011848	2.5 l	6 µm
95015396	5 l	6 µm
95011837	500 ml	9 µm
95011843	1 l	9 µm
95011849	2.5 l	9 µm
95015397	5 l	9 µm
95011844	1 l	15 µm

## Qprep DIA-COMPLETE Mono

QPREP DIA-Complete Mono (monocrystalline) is an all-in-one diamond suspension that is used for a wide range of materials.



### PRODUCT ADVANTAGES

- | Gentle material removal rate
- | Easy handling
- | Optimally adjusted ratio of suspension and lubricant
- | Process reliable and repeatable polishing results
- | Water based (eco-friendly)
- | Closely tolerated grain size

### RECOMMENDED APPLICATIONS

- | All Material besides water-sensitiv materials
- | Soft to hard materials
- | Manual as well as semi and fully automatic preparation

Item No.	Unit	Description
<b>DIA-COMPLETE MONO, ALL-IN-ONE DIAMOND SUSPENSION</b>		
<b>Grain Size</b>		
<b>Combined product of diamond suspension and lubricant</b>		
95011815	500 ml	1 µm
95011820	1 l	1 µm
95011825	2.5 l	1 µm
95015404	5 l	1 µm
95011816	500 ml	3 µm
95011821	1 l	3 µm
95011826	2.5 l	3 µm
95015405	5 l	3 µm
95011817	500 ml	6 µm
95011822	1 l	6 µm
95011827	2.5 l	6 µm
95015406	5 l	6 µm
95011818	500 ml	9 µm
95011823	1 l	9 µm
95011828	2.5 l	9 µm
95015407	5 l	9 µm

## Qprep Diamond suspension polycrystalline

QPREP diamond suspensions are characterized by the narrow tolerance grain size as well as the optimized concentration of polycrystalline diamonds.



### PRODUCT ADVANTAGES

- | High material removal rate
- | Water based (eco-friendly)
- | Closely tolerated grain size

### RECOMMENDED APPLICATIONS

- | All Material besides water-sensitiv materials
- | Soft to hard materials
- | For manual fine dosing with lubricant

Item No.	Unit	Description
<b>DIAMOND SUSPENSION POLYCRYSTALLINE</b>		
<b>Grain Size</b>		
92002353	250 ml	1 µm
95016017	500 ml	1 µm
92004798	1 l	1 µm
95002761	2.5 l	1 µm
95014519	5 l	1 µm
92002354	250 ml	3 µm
95016018	500 ml	3 µm
92004799	1 l	3 µm
95002762	2.5 l	3 µm
95014520	5 l	3 µm
92002355	250 ml	6 µm
95016019	500 ml	6 µm
92004800	1 l	6 µm
95002763	2.5 l	6 µm
95014521	5 l	6 µm
92002356	250 ml	9 µm
95016020	500 ml	9 µm
92004801	1 l	9 µm
95002764	2.5 l	9 µm
95014522	5 l	9 µm
95005738	1 l	15 µm

## Qprep Diamond suspension monocrystalline

QPREP diamond suspensions are characterized by the narrow tolerance grain size as well as the optimized concentration of monocrystalline diamonds.



### PRODUCT ADVANTAGES

- | Gentle material removal rate
- | Water based (eco-friendly)
- | Closely tolerated grain size

### RECOMMENDED APPLICATIONS

- | All Material besides water-sensitiv materials
- | Soft to hard materials
- | For manual fine dosing with lubricant

Item No.	Unit	Description
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### DIAMOND SUSPENSION MONOCRYSTALLINE

#### Grain Size

Color code  
diamond suspension  
monocrystalline

Grain Size µm	Color
1 µm	Blue
3 µm	Green
6 µm	Yellow
9 µm	Red

92002346	250 ml	1 µm
95016012	500 ml	1 µm
92004791	1 l	1 µm
95002755	2.5 l	1 µm
95014514	5 l	1 µm

92002347	250 ml	3 µm
95016013	500 ml	3 µm
92004792	1 l	3 µm
95002756	2.5 l	3 µm
95014515	5 l	3 µm

92002348	250 ml	6 µm
95016014	500 ml	6 µm
92004793	1 l	6 µm
95002757	2.5 l	6 µm
95014516	5 l	6 µm

92002349	250 ml	9 µm
95016015	500 ml	9 µm
92004794	1 l	9 µm
95002758	2.5 l	9 µm
95014517	5 l	9 µm

## Qprep Diamond suspension (alcohol-based / oil-based)

For polishing water-sensitive materials, QPREP diamond suspensions based on alcohol or oil are used. These have the same excellent polishing properties as the other diamond suspensions.



### PRODUCT ADVANTAGES

- | Anticorrosive
- | High lubricity with ductile materials
- | Closely tolerated grain size

### RECOMMENDED APPLICATIONS

- | All materials especially materials prone to corrosion
- | Soft to hard materials
- | For manual fine dosing with lubricant

Item No.	Unit	Description
<b>DIAMOND SUSPENSION (ALCOHOL-BASED) POLYCRYSTALLINE</b>		
<b>Grain Size</b>		
95003494	1l	1 µm
95003495	1l	3 µm
95003496	1l	6 µm
95003497	1l	9 µm
95007978	1l	15 µm
<b>DIAMOND SUSPENSION (ALCOHOL-BASED) MONOCRYSTALLINE</b>		
<b>Grain Size</b>		
95003490	1l	1 µm
95003491	1l	3 µm
95003492	1l	6 µm
95003493	1l	9 µm
<b>DIAMOND SUSPENSION (OIL-BASED) POLYCRYSTALLINE</b>		
<b>Grain Size</b>		
95002792	1l	1 µm
95002793	1l	3 µm
95002794	1l	6 µm
95002795	1l	9 µm

## Qprep Spray nozzle

The QPREP Spray nozzle is suited for optimum fine dispersion of suspension and lubricant on the polishing cloth during manual polishing.



Item No.	Unit	Description
<b>SPRAY NOZZLE</b>		
<b>Description</b>		
<ul style="list-style-type: none"> <li>• for diamond suspensions of all grain sizes</li> <li>• for 250 ml, 500 ml and 1 L bottles</li> </ul>		
95016723	1 Pc.	Spray nozzle, hose length approx. 160 mm

## Qprep Qdoser ONE dosing system for suspensions

The Qdoser ONE dosing system is an easy-to-use solution for manual or semi-automatic polishing processes. QATM's standard suspension and lubricant bottles can be quickly screwed on the dosing attachment. The dosing volume is closely and continuously controlled with an adjusting screw. The system can be applied with the Qdoser ONE holder to the polishing heads Qpol GO and ECO. If used with manual grinding/polishing machines, the Qdoser ONE stand with suction cups can be placed on the machines.

### PRODUCT ADVANTAGES

- | Dosing attachment for standard and suspension bottles
- | Adjustable dosing volume
- | Can be freely positioned with stand
- | Can be screwed to polishing heads Qpol GO and ECO



Item No.	Unit	Description
<b>QDOSER ONE DOSING SYSTEM FOR SUSPENSIONS</b>		
<b>Description</b>		
Z5631015	1 Pc.	Qdoser ONE basic module
Z5631014	1 Pc.	Qdoser ONE holder
Z5631016	1 Pc.	Qdoser ONE stand

## Qprep Diamond spray, paste and stick

As an alternative to the diamond suspension as a polishing product, QATM also offers QPREP diamond spray, paste and stick. These are particularly well suited for commissioning new polishing cloths. When using these, make sure that the QPREP lubricants are also used.



### PRODUCT ADVANTAGES

- | Diamonds attach better to the polishing cloth due to non-liquid carrier medium
- | Closely tolerated grain size
- | High stock removal rate

### RECOMMENDED APPLICATIONS

- | Commissioning of new polishing cloths for higher percentage of bonded diamonds on the polishing cloth

Item No.	Unit	Description
<b>DIAMOND SPRAY POLYCRYSTALLINE</b>		
<b>Grain Size</b>		
<b>CFC-free</b>		
95016244	200 ml	0.25 µm
95016025	200 ml	1 µm
95016026	200 ml	3 µm
95016027	200 ml	6 µm
95016028	200 ml	9 µm
95016245	200 ml	15 µm

<b>DIAMOND PASTE POLYCRYSTALLINE</b>		
<b>Grain Size</b>		
<b>10 g syringe</b>		
92002340	10 g	1 µm
92002341	10 g	3 µm
92002342	10 g	6 µm
92002343	10 g	9 µm
92002344	10 g	15 µm

<b>DIAMOND PASTE MONOCRYSTALLINE</b>		
<b>Grain Size</b>		
<b>10 g syringe</b>		
92002365	10 g	0.25 µm
92002333	10 g	1 µm
92002316	10 g	3 µm
92002335	10 g	6 µm
92002336	10 g	9 µm
92002337	10 g	15 µm

<b>DIAMOND STICK MONOCRYSTALLINE</b>		
<b>Grain Size</b>		
<ul style="list-style-type: none"> <li>• diamond wax</li> <li>• to be used with lubricant</li> </ul>		
95015386	10 g	1 µm
95015387	10 g	3 µm
95015388	10 g	6 µm
95015389	10 g	9 µm

## Qprep Diamond lubricants

QPREP lubricants (diamond lubricants) based on water, alcohol and oil are used with the polishing products mentioned above. The lubricant ensures even distribution of the polishing product on the polishing cloth. In addition, it also serves to cool the cloth and sample while polishing.



**QPREP diamond lubricant yellow** (water-based) is especially environmentally friendly and provides an even lubricating film on the polishing cloth.

**QPREP diamond lubricant blue** (alcohol-based) has a higher viscosity and surface tension. Due to this, the lubricant remains longer on the polishing cloth. This allows a more economical dosage.

**QPREP diamond lubricant light blue** (alcohol-based) has a low viscosity and surface tension due to its high alcohol content. This makes it especially suitable for materials which are prone to corrosion. However, the lubricant must be dosed more frequently due to the low viscosity.

**QPREP Diamond Lubricant Red** (oil based) is an oil - water emulsion and due to its higher viscosity ensures a consistently stable lubricating film on the polishing cloth. Optimal for heat as well as water sensitive materials.

Item No.	Unit	Description
<b>DIAMOND LUBRICANT</b>		
		<b>Color      Characteristics</b>
<b>• for manual dosing with diamond suspension</b>		
92005509	1 l	Yellow - water-based - ecologically friendly
92004925	2.5 l	Yellow - water-based - ecologically friendly
92005510	5 l	Yellow - water-based - ecologically friendly
95016174	10 l	Yellow - water-based - ecologically friendly
95000901	1 l	Blue - alcohol-based - for water-free preparation
95000911	2.5 l	Blue - alcohol-based - for water-free preparation
95001194	5 l	Blue - alcohol-based - for water-free preparation
95015391	1 l	Light blue - alcohol-based - for water-free preparation
95015392	5 l	Light blue - alcohol-based - for water-free preparation
95015393	10 l	Light blue - alcohol-based - for water-free preparation
95001759	1 l	Red - oil-based - for water-free preparation
95001772	2.5 l	Red - oil-based - for water-free preparation
95001784	5 l	Red - oil-based - for water-free preparation

<b>DIAMOND LUBRICATION CONCENTRATE</b>		
		<b>Color      Characteristics</b>
<b>• for manual dosing with diamond suspension</b>		
95016362	1 l	Blue - for alcohol-based lubricant - for 10 L lubricant, mix with 9 parts of ethanol

<b>ETHANOL</b>		
<b>• individually applicable for intensive cleaning</b>		
95004662	1 l	Ethanol, 99% denatured
95004663	5 l	Ethanol, 99% denatured
95004664	10 l	Ethanol, 99% denatured

## Qprep Fine polishing suspensions

QPREP fine polishing suspensions are the polishing products of choice for the most demanding polishing requirements. This involves chemical mechanical polishing using silicon dioxide or aluminum oxide.



### PRODUCT ADVANTAGES

- | Highest surface qualities
- | Removal of all deformation with vibration polishing
- | Polishing/removing scratches in the range of 0.1µm to 0.05µm

### RECOMMENDED APPLICATIONS

- | Detailed microstructure analysis
- | Very soft or very hard and ductile materials

Item No.	Unit	Description			
<b>FINE POLISHING SUSPENSIONS</b>					
		<b>Description</b>	<b>ph-value</b>	<b>Grain Size</b>	
<b>Fine polishing suspension (Al<sub>2</sub>O<sub>3</sub>)</b>					
<ul style="list-style-type: none"> <li>• does not crystallize</li> <li>• for ferrous materials, polymers, composites, PCB, rocks and minerals</li> </ul>					
92002534	1 l	Eposil	pH≈8.0	0.06 µm	
<b>Colloidal silica</b>					
<ul style="list-style-type: none"> <li>• for polishing, also mixable with diluted etchant</li> <li>• for ferrous and non-ferrous materials, ceramics</li> <li>• especially for soft materials like Al,Cu,Ti and solder joints</li> </ul>					
92002536	1 l	Eposil F	pH≈9.5	0.1 µm	
95013858	1 l	Eposil Non Dry	pH≈9.5	0.05 µm	(does not crystallize)
95013958	10 l	Eposil Non Dry	pH≈9.5	0.05 µm	(does not crystallize)
92002541	1 kg	Eposil M	pH≈9.5	0.06 µm	
<b>Colloidal silica</b>					
<ul style="list-style-type: none"> <li>• for titanium, nickel, tin and its alloys</li> </ul>					
95001206	1 kg	Eposil M11	pH≈11.0	0.06 µm	
<b>Water-free fine polishing suspension</b>					
<ul style="list-style-type: none"> <li>• e.g. for magnesium, zinc</li> </ul>					
95005033	1 kg	Etosil E	pH≈7.0	0.06 µm	
<b>ALUMINA SUSPENSION, CALCINATED</b>					
		<b>Description</b>		<b>Grain Size</b>	
<b>Aqueous concentrate, to dilute, 3-5 part of dest. water</b>					
92002533	1 l	Alumina suspension		0.3 µm	
92002532	1 l	Alumina suspension		0.6 µm	
92004950	1 l	Alumina suspension		1 µm	

# Polishing cloths

The choice of the right polishing cloth is essential for a low-deformation and relief-free polish. The cloth material (silk, artificial silk, man-made fibers, wool fabric, felt, flocked or foamed synthetic fabrics) and the corresponding resilience are a crucial criterion in the selection of the polishing cloth. The possible fixation systems (GALAXY metal disc with magnetic foil or X-Tap) also differ.

At the beginning, **pre-polishing**, polishing cloths with a low resilience (hard cloth material) are selected, as these support the retention of edge sharpness. In comparison to the further polishing steps, a higher material removal is achieved during pre-polishing due to longer polishing times.

Polishing cloths with different resilience are used for **intermediate polishing**. The objective of the polish and the material to be polished are always the determining factors for the selection of a suitable polishing cloth.

**Final polishing** is performed on polishing cloths with a high resilience with short polishing times to avoid relief formation. Final polishing can either be done with diamond suspensions (3 µm - 0.5 µm) or, for the highest demands for analysis, by using fine polishing suspensions (oxide polish 0.1 µm - 0.05 µm) or (alumina 1 µm - 0.3 µm).

**The selection of QPREP polishing cloths offers a suitable cloth for every polishing step, which, with the matching QPREP diamond suspension, ensures excellent polishing results.**



**FIXATION SYSTEM FOR GALAXY POLISHING CLOTHS**

## Qprep Magnetic foil for GALAXY polishing cloths

For low resilience during (grinding) / polishing as well as best adhesion and easy handling of the QPREP GALAXY (grinding discs) / 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	
<b>MAGNETIC FOIL, SELF-ADHESIVE</b>			
		∅	thickness
<b>Magnetic foil, normal adhesion</b>			
• to apply on working wheel			
92008528	1 Pc.	200 mm	1 mm
92005820	1 Pc.	250 mm	1 mm
92005822	1 Pc.	300 mm	1 mm
95014137	1 Pc.	350 mm	1 mm
<b>Magnetic foil, strong adhesion</b>			
• 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
<b>Magnetic foil, strongest adhesion</b>			
• to apply on working wheel			
• increased magnetic adhesion by higher material thickness			
95016298	1 Pc.	200 mm	2 mm
95016300	1 Pc.	250 mm	2 mm
95016301	1 Pc.	300 mm	2 mm
95016302	1 Pc.	350 mm	2 mm



## Qprep GALAXY polishing cloths

QPREP GALAXY polishing cloths offer the right cloth material for all materials and analysis purposes. Low resilience is provided by our GALAXY carrier disc.



### PRODUCT ADVANTAGES

- | Faster application because there is no need to glue on the polishing cloth
- | Low resilience due to metallic carrier plate
- | Easier handling due to grip tabs on the carrier plate

### RECOMMENDED APPLICATIONS

- | Process-reliable and reproducible polishing results
- | Use with GALAXY magnetic foil

Item No.	Unit	Description
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### GALAXY POLISHING CLOTH WITH METAL BACK

#### Description Ø

#### GALAXY – ALPHA

- Suitable for pre-polishing
- Very hard, perforated chemical fiber cloth
- For ceramics, hard metal, steel, grey cast iron, aluminum
- High lifetime and stock removal
- For use with diamond grain size: 15/9 µm
- Fixation system: Magnetic foil

95001407	5 Pcs.	Alpha 200 mm
95001408	5 Pcs.	Alpha 250 mm
95001409	5 Pcs.	Alpha 300 mm
95013994	5 Pcs.	Alpha 350 mm



#### GALAXY – BETA

- Suitable for pre-polishing
- Hard synthetic cloth
- Materials with high hardness, steel, grey cast iron, hard metal, ceramics
- For use with diamond grain size: 15/9/6 µm
- Fixation system: Magnetic foil

95001410	5 Pcs.	Beta 200 mm
95001411	5 Pcs.	Beta 250 mm
95001412	5 Pcs.	Beta 300 mm
95013995	5 Pcs.	Beta 350 mm



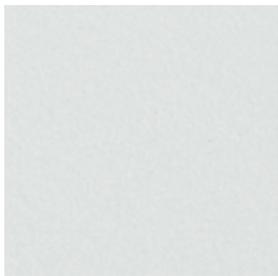
#### GALAXY – DELTA

- Suitable for pre- & intermediate polishing
- Medium hard silk cloth
- C-steels, precious metal, plastics [CFK, GFK], coatings, aluminum
- For use with diamond grain size: 9/6/3 µm
- Fixation system: Magnetic foil

95001413	5 Pcs.	Delta 200 mm
95001414	5 Pcs.	Delta 250 mm
95001415	5 Pcs.	Delta 300 mm
95013996	5 Pcs.	Delta 350 mm



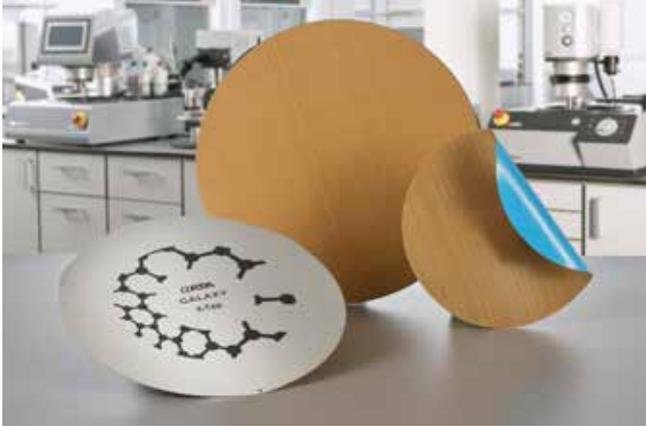
Item No.	Unit	Description	
<b>GALAXY POLISHING CLOTH WITH METAL BACK</b>			
<b>Description Ø</b>			
<b>GALAXY – PHI</b>			
<ul style="list-style-type: none"> <li>• Suitable for pre-, intermediate-, and end polishing</li> <li>• Medium hard chemical fiber cloth</li> <li>• For iron, non – ferrous metals, minerals, ceramics, composite materials</li> <li>• For use with diamond grain size: 9/6/3/1 µm</li> <li>• Fixation system: Magnetic foil</li> </ul>			
95012739	5 Pcs.	Phi	200 mm
95012740	5 Pcs.	Phi	250 mm
95012741	5 Pcs.	Phi	300 mm
95014002	5 Pcs.	Phi	350 mm
<b>GALAXY – SIGMA</b>			
<ul style="list-style-type: none"> <li>• Suitable for intermediate and end polishing</li> <li>• Soft wool cloth</li> <li>• For all materials</li> <li>• For use with diamond grain size: 6/3/1 µm</li> <li>• Fixation system: Magnetic foil</li> </ul>			
95001416	5 Pcs.	Sigma	200 mm
95001417	5 Pcs.	Sigma	250 mm
95001418	5 Pcs.	Sigma	300 mm
95013997	5 Pcs.	Sigma	350 mm
<b>GALAXY – ETA</b>			
<ul style="list-style-type: none"> <li>• Suitable for end polishing</li> <li>• Short flocked, medium hard synthetic cloth</li> <li>• For all materials of medium and high hardness</li> <li>• For use with diamond grain size: 3/1 µm</li> <li>• Fixation system: Magnetic foil</li> </ul>			
95016832	5 Pcs.	Eta	200 mm
95016833	5 Pcs.	Eta	250 mm
95016834	5 Pcs.	Eta	300 mm
95016835	5 Pcs.	Eta	350 mm
<b>GALAXY – IOTA</b>			
<ul style="list-style-type: none"> <li>• Suitable for end polishing as well as fine polishing with fine polishing suspension</li> <li>• Short flocked, soft synthetic cloth</li> <li>• For all materials, especially hard materials</li> <li>• For use with diamond grain size: 3/1 µm</li> <li>• Suitable for oxide suspensions</li> <li>• Fixation system: Magnetic foil</li> </ul>			
95001419	5 Pcs.	Iota	200 mm
95001420	5 Pcs.	Iota	250 mm
95001421	5 Pcs.	Iota	300 mm
95013998	5 Pcs.	Iota	350 mm
<b>GALAXY – ZETA</b>			
<ul style="list-style-type: none"> <li>• Suitable for end polishing as well as fine polishing with fine polishing suspension</li> <li>• Short flocked, soft synthetic cloth</li> <li>• For all materials</li> <li>• For use with diamond grain size: 3/1 µm</li> <li>• Suitable for oxide suspensions as well as alumina</li> <li>• Fixation system: Magnetic foil</li> </ul>			
95005776	5 Pcs.	Zeta	200 mm
95005777	5 Pcs.	Zeta	250 mm
95005778	5 Pcs.	Zeta	300 mm
95013999	5 Pcs.	Zeta	350 mm





**FIXATION SYSTEM FOR SELF-ADHESIVE POLISHING CLOTHS**

The QPREP 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 either directly to the work disc or 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 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
<b>X-TAP</b>		
Ø		
<b>X-Tap (self-adhesive to stick on the working wheel)</b>		
95017015	1 Pc.	200 mm
95017016	1 Pc.	250 mm
95017017	1 Pc.	300 mm
95017018	1 Pc.	350 mm
<b>GALAXY-X-Tap (for using with magnetic foil)</b>		
95017019	1 Pc.	200 mm
95017020	1 Pc.	250 mm
95017021	1 Pc.	300 mm
95017022	1 Pc.	350 mm



## Qprep Polishing cloths, self-adhesive

QPREP polishing cloths offer the right cloth material for all materials and analysis purposes.



### PRODUCT ADVANTAGES

- Ideal for polishing in combination with the media carrier for the fully automatic Qpol 250 BOT as well as with the X-Tap system
- Optimized adhesive backing ensures uniform fixing over the entire surface on the fixation system and realized no slipping or detachment of the polishing cloth

### RECOMMENDED APPLICATIONS

- For use with X-Tap system
- For use with media carrier plate (Qpol 250 BOT)

Item No.	Unit	Description
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### POLISHING CLOTHS, SELF-ADHESIVE

#### Description Ø

#### ALPHA – Polishing cloth

- Suitable for pre-polishing
- Very hard, perforated chemical fiber cloth
- For ceramics, hard metal, steel, grey cast iron, aluminum
- High lifetime and stock removal
- For use with diamond grain size: 15/9 µm
- Fixation system: X-Tap

92002555	5 Pcs.	Alpha 200 mm
92002564	5 Pcs.	Alpha 250 mm
92002573	5 Pcs.	Alpha 300 mm
95016029	5 Pcs.	Alpha 350 mm



#### BETA – Polishing cloth

- Suitable for pre-polishing
- Hard synthetic cloth
- Materials with high hardness, steel, grey cast iron, hard metal, ceramics
- For use with diamond grain size: 15/9/6 µm
- Fixation system: X-Tap

95006571	5 Pcs.	Beta 200 mm
95006572	5 Pcs.	Beta 250 mm
95006573	5 Pcs.	Beta 300 mm
95016030	5 Pcs.	Beta 350 mm



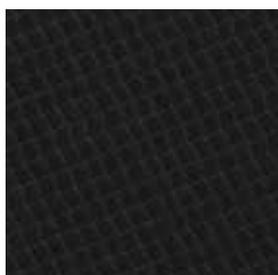
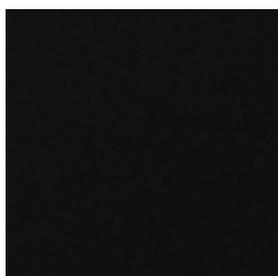
#### DELTA – Polishing cloth

- Suitable for pre- & intermediate polishing
- Medium hard silk cloth
- C-steels, precious metal, plastics [CFK, GFK], coatings, aluminum
- For use with diamond grain size: 9/6/3 µm
- Fixation system: X-Tap

92008801	5 Pcs.	Delta 200 mm
92008802	5 Pcs.	Delta 250 mm
92008803	5 Pcs.	Delta 300 mm
95016034	5 Pcs.	Delta 350 mm



Item No.	Unit	Description	
<b>POLISHING CLOTHS, SELF-ADHESIVE</b>			
<b>Description Ø</b>			
<b>GAMMA – Polishing cloth</b>			
<ul style="list-style-type: none"> <li>• Suitable for pre- &amp; intermediate polishing</li> <li>• Medium hard silk cloth</li> <li>• C-steels, precious metal, coatings, plastics [CFK, GFK],</li> <li>• For use with diamond grain size: 9/6/3 µm</li> <li>• Fixation system: X-Tap</li> </ul>			
92002558	5 Pcs.	Gamma	200 mm
92002567	5 Pcs.	Gamma	250 mm
92002576	5 Pcs.	Gamma	300 mm
95016032	5 Pcs.	Gamma	350 mm
<b>PHI – Polishing cloth</b>			
<ul style="list-style-type: none"> <li>• Suitable for pre-, intermediate-, and end polishing</li> <li>• Medium hard chemical fiber cloth</li> <li>• For iron, non – ferrous metals, minerals, ceramics, composite materials</li> <li>• For use with diamond grain size: 9/6/3/1 µm</li> <li>• Fixation system: X-Tap</li> </ul>			
92005678	5 Pcs.	Phi	200 mm
92005679	5 Pcs.	Phi	250 mm
92005680	5 Pcs.	Phi	300 mm
95016031	5 Pcs.	Phi	350 mm
<b>SIGMA – Polishing cloth</b>			
<ul style="list-style-type: none"> <li>• Suitable for pre- &amp; intermediate polishing</li> <li>• Soft wool cloth</li> <li>• For all materials</li> <li>• For use with diamond grain size: 6/3/1 µm</li> <li>• Fixation system: X-Tap</li> </ul>			
92008810	5 Pcs.	Sigma	200 mm
92008811	5 Pcs.	Sigma	250 mm
92008812	5 Pcs.	Sigma	300 mm
95016033	5 Pcs.	Sigma	350 mm
<b>ETA – Polishing cloth</b>			
<ul style="list-style-type: none"> <li>• Suitable for end polishing</li> <li>• Short flocked, medium hard synthetic cloth</li> <li>• For all materials of medium and high hardness</li> <li>• For use with diamond grain size: 3/1 µm</li> <li>• Fixation system: X-Tap</li> </ul>			
95016828	5 Pcs.	Eta	200 mm
95016829	5 Pcs.	Eta	250 mm
95016830	5 Pcs.	Eta	300 mm
95016831	5 Pcs.	Eta	350 mm
<b>IOTA – Polishing cloth</b>			
<ul style="list-style-type: none"> <li>• Suitable for end polishing as well as fine polishing with fine polishing suspension</li> <li>• Short flocked, soft synthetic cloth</li> <li>• for all materials, especially hard materials</li> <li>• For use with diamond grain size: 3/1 µm</li> <li>• Suitable for oxide suspensions</li> <li>• Fixation system: X-Tap</li> </ul>			
95002393	5 Pcs.	Iota	200 mm
95002394	5 Pcs.	Iota	250 mm
95002395	5 Pcs.	Iota	300 mm
95016036	5 Pcs.	Iota	350 mm



Item No.	Unit	Description	
<b>POLISHING CLOTHS, SELF-ADHESIVE</b>			
<b>Description Ø</b>			
<b>ZETA – Polishing cloth</b>			
<ul style="list-style-type: none"> <li>• Suitable for end polishing as well as fine polishing with fine polishing suspension</li> <li>• Short flocked, soft synthetic cloth</li> <li>• for all materials</li> <li>• For use with diamond grain size: 3/1 µm</li> <li>• Suitable for oxide suspensions as well as alumina</li> <li>• Fixation system: X-Tap</li> </ul>			
92005681	5 Pcs.	Zeta	200 mm
92005683	5 Pcs.	Zeta	250 mm
92005684	5 Pcs.	Zeta	300 mm
95016037	5 Pcs.	Zeta	350 mm
<b>KAPPA – Polishing cloth</b>			
<ul style="list-style-type: none"> <li>• Suitable for fine polishing with fine polishing suspension</li> <li>• Soft polishing felt</li> <li>• For all materials</li> <li>• Suitable for alumina</li> <li>• Fixation system: X-Tap</li> </ul>			
92002563	5 Pcs.	Kappa	200 mm
92002572	5 Pcs.	Kappa	250 mm
92002581	5 Pcs.	Kappa	300 mm
95016038	5 Pcs.	Kappa	350 mm
<b>OMEGA – Polishing cloth</b>			
<ul style="list-style-type: none"> <li>• Suitable for fine polishing with fine polishing suspension</li> <li>• Soft synthetic cloth (chemical resistant)</li> <li>• For all materials</li> <li>• Suitable for oxide suspensions</li> <li>• Fixation system: X-Tap</li> </ul>			
92002562	5 Pcs.	Omega	200 mm
92002571	5 Pcs.	Omega	250 mm
92002580	5 Pcs.	Omega	300 mm
95016039	5 Pcs.	Omega	350 mm
<b>LAMBDA – Polishing cloth</b>			
<ul style="list-style-type: none"> <li>• Suitable for fine polishing with fine polishing suspension</li> <li>• Brushed, structured synthetic cloth (chemical resistant)</li> <li>• For all materials</li> <li>• Suitable for oxide suspensions as well as alumina</li> <li>• Fixation system: X-Tap</li> </ul>			
95003597	5 Pcs.	Lambda	200 mm
95003598	5 Pcs.	Lambda	250 mm
95003599	5 Pcs.	Lambda	300 mm
95016040	5 Pcs.	Lambda	350 mm

all polishing cloths also available for Qpol 30 (Ø 30 mm)

## Qprep Media carrier plate

During preparation using the Qpol 250 BOT, the grinding wheels/papers and polishing cloths are placed on a media carrier plate specially designed for the machine.



### PRODUCT ADVANTAGES

- I Quick exchange/selection of grinding papers / polishing cloths possible due to up to 16 stored media carrier plates
- I Secure fixing of the media carrier plate by means of vacuum suction (Vakujet)

### RECOMMENDED APPLICATIONS

- I Fully automatic preparation using Qpol 250 BOT

Item No.	Unit	Description
<b>MEDIA CARRIER PLATE</b>		
Ø		
• for grinding and polishing robot Qpol 250 BOT (SAPHIR X-Change)		
95005867	1 Pc.	250 mm

## Qprep Filter inserts

During grinding and polishing, various fine residual materials are produced. These originate from the sample (chips), the grinding wheel (wear/abrasion) as well as parts of the polishing media. To avoid entering of the wastewater system and the pumps these residuals have to be filtered. Suitable filter fleeces with the correct mesh sizes in the sedimentation tank prevents damage to the machines and ensure a safe process.

Item No.	Unit	Description	Dimensions	Mesh size
<b>FILTER INSERTS</b>				
<b>Filter inserts for settling tank (until year of construction 2012)</b>				
95017310	5 Pcs.	Fleece	290 x 150 x 190 mm	40 µm
95017311	5 Pcs.	Fleece	290 x 150 x 190 mm	60 µm
<b>Filter inserts for settling tank (from year of construction 2013)</b>				
95017312	5 Pcs.	Fleece	250 x 200 x 155 mm	60 µm
95017313	5 Pcs.	Fleece	250 x 200 x 155 mm	100 µm



# Consumables for etching and analyzing



## Qprep Etching



QATM offers a wide range of etchants for contrasting as well as for qualitative and quantitative analysis of microstructures. Different QPREP etchants are available for macro and micro etching as well as electrolytic etching.

Item No.	Unit	Description
<b>ELECTROLYTES (CONSISTING OF TWO COMPONENTS; TOTAL VOLUME 1 LITRE)</b>		
<b>Description</b>		
<b>Electrolyte for stainless steel, aluminum, aluminum alloys and special materials</b>		
<b>• for electrolytic etching/polishing</b>		
92002680	1 Pc.	KI - Part A, equals 1 litre in combination with Part B
92002980	1 Pc.	KI - Part B (perchloric acid), equals 1 litre in combination with Part A
<b>Electrolyte for titanium</b>		
92003011	1 Pc.	TI - Part A, equals 1 litre in combination with Part B
92003012	1 Pc.	TI - Part B (perchloric acid), equals 1 litre in combination with Part A
<b>Electrolyte for grey iron</b>		
92003014	1 Pc.	FI - Part A, equals 1 litre in combination with Part B
92003015	1 Pc.	FI - Part B (perchloric acid), equals 1 litre in combination with Part A
<ul style="list-style-type: none"> <li>• Shipping of hazardous materials will be charged extra</li> <li>• Download of Safety Data Sheets at <a href="http://www.qatm.com">www.qatm.com</a></li> </ul>		
<b>ACCESSORIES FOR QETCH 100 M (KRISTALL 650)</b>		
<b>Description</b>		
<b>Electrolyte-bottle with screw top</b>		
95003955	1 Pc.	Volume 1 litre
<b>Accessories set for Qetch 100 M (Kristall 650) in suitcase</b>		
Z6201001	1 Pc.	Suitcase (single-order No.): <ul style="list-style-type: none"> <li>• 5 pcs V-ring (Order No.: 95003606)</li> <li>• 1 pc profile ring material, appr. 150 mm (Order No.: 06201052)</li> <li>• 1 pc flexible end piece for profile ring (Order No.: 06201051)</li> <li>• 1 pc tube cutter (Order No.: 95004030)</li> <li>• 10 pcs filter pads Ø 40.5 mm (Order No.: 95003985)</li> <li>• 1 pc dolphin clamp (Order No.: 82000374)</li> </ul>



Item No.	Unit	Description
<b>ETCHANTS</b>		
<b>Description</b>		
<b>Ready-to-use etching solutions for microstructural contrasting</b>		
95014346	500 ml	VisiPro-I Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched and tempered steels and case-hardened steels)
95014347	1 l	VisiPro-I Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched and tempered steels and case-hardened steels)
95014348	500 ml	VisiPro-II Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched, tempered case hardening steels and anti-friction bearing steels)
95014349	1 l	VisiPro-II Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched, tempered case hardening steels and anti-friction bearing steels)
95006393	1 l	Barker reagent (for Aluminum grain boundaries)
92002601	1 kg	Heyn Etchant (for steel, phosphorous segregations, macro etching, copper alloys, brass)
95000508	500 ml	Copper A, chloride version (for Cu, Cu-alloys, brass and bronze)
92002602	1 kg	Adler Etchant (for steel, weldings, macro etching)
92002603	1 l	Alcoholic picric acid, 5% Picral (for steel, martensite)
92002597	1 l	Alcoholic nitric acid, 3% Nital (for unalloyed and low alloyed steels)
92002596	1 l	Alcoholic nitric acid, 1% Nital (for unalloyed and low alloyed steels)
92002605	1 kg	V2A Etchant (for austenitic steels), application with approx. 60°
92002606	250 g	Additive for V2A-etchant
92002678	1 kg	Sodium hydroxide solution (for aluminum alloys)
92004240	1 kg	Oberhoffer Etchant (for steel, segregations, flow-lines, macro/micro etching)
92004492	1 kg	Kroll Etchant (for aluminum alloys, titanium)
92004493	1 kg	Fry Etchant (for steel, macro/micro etching, flow lines)
92004222	1 kg	CU2 etching fluid (copper, copper with sulfide and oxide inclusions)
92002750	1 kg	Sodium picrate (for cementite detection in steel)
95002313	1 l	Kalling 1 Etchant (for martensitic stainless steel)
95002347	1 kg	Kalling 2 Etchant (for nickel, nickel alloys, stainless steels, nickel-copper alloys)
95002434	1 l	Color etching according to Klemm I (for low carbon steels), stock solution
95002390	20 g	Potassium bisulfite for Klemm I
95002435	1 l	Color etching according to Klemm II (copper, solder joints), stock solution
95002391	50 g	Potassium bisulfite for Klemm II
95002436	1 l	Bechet-Beaujard Etchant, prior austenite grain boundaries
95002408	1 kg	Murakami Etchant (for hard metals, molybdenum/molybdenum alloys, chromium alloys, tungsten and tungsten alloys)

Download of Safety Data Sheets at [www.qatm.com](http://www.qatm.com)

Item No.	Unit	Description
<b>ACCESSORIES FOR ETCHING</b>		
<b>Description</b>		
<b>Etching bowl, DURAN® glass with cover, heat-resistant</b>		
92002629	1 Pc.	Ø 60/H 40 mm
92002628	1 Pc.	Ø 80/H 50 mm
92002430	1 Pc.	Ø 100/H 60 mm
92002626	1 Pc.	Ø 150/H 80 mm
<b>Etching bowl, polyethylene (PE),</b>		
95012078	1 Pc.	Ø 90/H 40mm
95012079	1 Pc.	Ø 110/H 55mm
95012080	1 Pc.	Ø 110/H 75mm
<b>Etching bowl, polypropylene (PP), with screw coupling</b>		
95012081	1 Pc.	Ø 60/H 60mm
95012082	1 Pc.	Ø 115/H 70mm
<b>Crucible tong</b>		
92002431	1 Pc.	Crucible tong, stainless
95008097	1 Pc.	Crucible tong, stainless with insulated handle

## Qprep Analyzing



When analyzing samples, QPREP offers support for the correct analysis of samples via specialist literature, cleaning products, desiccator, personal protective equipment, and more equipment.

Item No.	Unit	Description
<b>LAB ACCESSORIES AND EQUIPMENT</b>		
<b>Description</b>		
<b>Face protection shield according to DIN EN 166 13 - S complete protection of face, unlimited field of view, acids and bases, resistant, robust plastic material, shatterproof, scratch-resistant</b>		
95002951	1 Pc.	Face protection shield, according to DIN EN 166 13 - S
<b>Protective laboratory apron, made of PVC, with neck and side bonds, clean edges, without fabrics</b>		
95004848	1 Pc.	Protective laboratory apron, 900 x 1100 x 0.5 mm

Item No.	Unit	Description
<b>Nitrile gloves (single use), conforms to EN 420, EN 374</b>		
95008893	100 Pcs.	Nitrile gloves, conforms to EN 420, EN 374, size M
95007658	100 Pcs.	Nitrile gloves, conforms to EN 420, EN 374, size L
95008208	90 Pcs.	Nitrile gloves, conforms to EN 420, EN 374, size XL
<b>Safety goggles conforms to EN 166, length-adjustable</b>		
92005963	1 Pc.	Safety goggles conforms to EN 166
<b>Mounting adhesive</b>		
92002779	100 g	Mounting adhesive 100 g, excellent bonding for metals and ceramics
<b>Cotton wool</b>		
92002630	200 g	Cotton wool
<b>Specimen cleaning wipes</b>		
92008773	100 Pcs.	Specimen cleaning wipes
<b>Sample protection laquer</b>		
92004428	300 ml	Sample protection laquer, spray (conservation of samples)
<b>Bottles</b>		
92008770	1 Pc.	Spray bottle, 250 ml
92002432	1 Pc.	Spray bottle, 500 ml
92004491	1 Pc.	Washing bottle with narrow neck, 500 ml
<b>Measuring cylinder</b>		
92004302	1 Pc.	Measuring cylinder, 50 ml
92004303	1 Pc.	Measuring cylinder, 100 ml
<b>Specimen drying unit</b>		
A5810355	1 Pc.	Specimen drying unit for set up on table
A5810419	1 Pc.	Specimen drying unit, with wall bracket



### CLEANING AGENTS FOR ULTRASONIC CLEANER

#### Description

- Cleaning concentrate, alkaline**
- for universal use and intensive cleaning
  - use 1 - 5%, pH 10 at 2%, removes oils, fats, silicon oil residues, pigments, ink and proteins

92002614	1 l	Tickopur R 33
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### CLEANING AIDS

#### Description

- individually applicable for intensive cleaning

95004662	1 l	Ethanol, 99% denatured
95004663	5 l	Ethanol, 99% denatured
95004664	10 l	Ethanol, 99% denatured
92004510	1 l	Aceton, chemically pure, for degreasing of sample surfaces

### PANE CLEANING FOR FUME CUPBOARD

#### Description

##### Pane cleaning set in suitcase

Z7510002	1 Pc.	<ul style="list-style-type: none"> <li>• Pane wiper magnet</li> <li>• 2x 30 pcs. cleaning cloths</li> </ul>
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Item No.	Unit	Description
<b>REPLICATION SET</b>		
<b>Description</b>		
<b>Replica system for non-destructive analyzing of microstructures quick cured 2 components compound for applying to surfaces; the cured replica can be removed easily and analysed directly</b>		
92006498	2x50 ml	2-components-compound
92006609	1 Pc.	Dosing gun
92008692	48 Pcs.	Mixing tube
<b>ASSEMBLY CLEANER</b>		
<b>Description</b>		
<b>for sample preparation, for replication set, in spray can</b>		
92004376	500 ml	Assembly cleaner spray
<b>PRECISION REPLICATION MATERIAL</b>		
<b>Description</b>		
<b>Replica system for surface structures (metallic or mineral), for surface roughness inspection (R, Ra)</b>		
95001664	900 ml	2-components-compound standard
95001665	900 ml	2-components-compound soft
<b>ACCESSORIES FOR MICROSCOPY</b>		
<b>Description</b>		
<b>Supporting accessories</b>		
92004109	1 kg	Plasticine
92002943	5 Pcs.	Microscope slides, metal, 76x26 mm
92004243	100 Pcs.	Microscope slides, glas, 32x24 mm
92004256	100 Pcs.	Microscope slides, glas, 40x24 mm
M1321000	1 Pc.	Specimen press • for parallel fixation of specimen on microscope slide • comfortable operation with minimal effort • compact, robust and durable • made of aluminum with anodised surface
<b>STORAGE OF SAMPLES</b>		
<b>Description</b>		
<b>Storage systems for readily prepared samples</b>		
92002898	1 Pc.	Disc cabinet 320 x 320 mm, for discs Ø 300 mm with 6 drawers
92002717	1 Pc.	Disc cabinet, 290 x 290 mm, for discs Ø 200 and 250 mm with 5 drawers
95012025	1 Pc.	Desiccator cabinet 310 x 525 x 375 mm
95012026	1 Pc.	Shelf for desiccator cabinet
92002868	1 kg	KC-drying pearls, for use with desiccator
A7500417	1 Pc.	Sample box, 320 x 320 x 58 mm for 56 Samples Ø 25-32 mm
A7500418	1 Pc.	Sample box, 320 x 320 x 58 mm for 25 Samples Ø 38-50 mm



Desiccator cabinet (95012025)







# Consumables for hardness testing



# Hardness test blocks

Calibrated and certified hardness test blocks are an important part of the hardness testing. QPREP hardness test blocks fulfill the requirements for testing according to following standards:



- | **DIN EN ISO 6506**  
(Metallic materials; Brinell hardness test)
- | **DIN EN ISO 6507**  
(Metallic materials; Vickers hardness test)
- | **DIN EN ISO 6508**  
(Metallic materials; Rockwell hardness test)
- | **DIN EN ISO 4545**  
(Metallic materials; Knoop hardness test)
- | **ASTM (E10, E18, E384).**

These are essential for indirect calibration and periodic verification, as well as the results documentation.



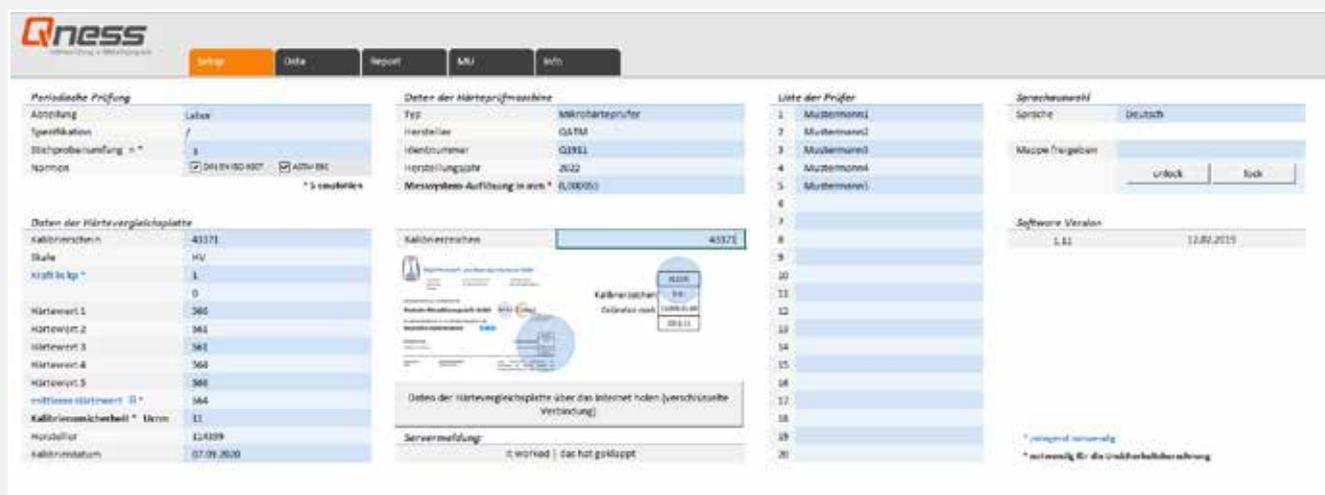
## ADVANTAGES

- | DAKKS calibration: according to current ISO and ASTM standards
- | Permissible measurement deviation engraved
- | Angular basic shape: optimal for automated periodic testing
- | Easy data insertion into the documentation template
- | Option: engraved grid lines
- | Option: multiple calibrations

## DOCUMENTATION TEMPLATE

The documentation template supports in the periodic standard-compliance testing on hardness tester. Measurement accuracy is visualized to show the consistency of the measuring accuracy of the test method with the current standard. By using original QATM QPREP hardness test blocks, data could be called

up online and the documentation template is filled automatically. A comprehensive range of statistical functions has also been built in. All results from the tests are clearly and logically documented and can be presented whenever there is an audit.



# Qprep Hardness test blocks Brinell



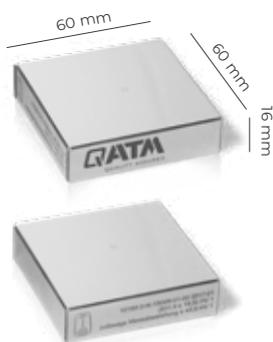
Item No.	Unit	Description
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## HARDNESS TEST BLOCKS BRINELL (DIN EN ISO 6506-3, ASTM E10)

	HBW	Material	HW*	Dimensions (mm)
<b>HBW 10 / 500</b>				
HB1005080A	1 Pc.	Brinell	HBW 10/500	Aluminum HW approx. 80 150x100x16
<b>HBW 10 / 1000</b>				
HB1010080A	1 Pc.	Brinell	HBW 10/1000	Aluminum HW approx. 80 150x100x16
HB1010110A	1 Pc.	Brinell	HBW 10/1000	Aluminum HW approx. 110 150x100x16
HB1010130A	1 Pc.	Brinell	HBW 10/1000	Aluminum HW approx. 130 150x100x16
HB1010170A	1 Pc.	Brinell	HBW 10/1000	Aluminum HW approx. 170 150x100x16
HB1010200A	1 Pc.	Brinell	HBW 10/1000	Steel HW approx. 200 150x100x16
<b>HBW 10 / 1500</b>				
HB1015080A	1 Pc.	Brinell	HBW 10/1500	Aluminum HW approx. 80 150x100x16
HB1015110A	1 Pc.	Brinell	HBW 10/1500	Aluminum HW approx. 110 150x100x16
HB1015130A	1 Pc.	Brinell	HBW 10/1500	Aluminum HW approx. 130 150x100x16
HB1015170A	1 Pc.	Brinell	HBW 10/1500	Aluminum HW approx. 170 150x100x16
HB1015200A	1 Pc.	Brinell	HBW 10/1500	Steel HW approx. 200 150x100x16
HB1015250A	1 Pc.	Brinell	HBW 10/1500	Steel HW approx. 250 150x100x16
HB1015300A	1 Pc.	Brinell	HBW 10/1500	Steel HW approx. 300 150x100x16
<b>HBW 10 / 3000</b>				
HB1030110A	1 Pc.	Brinell	HBW 10/3000	Aluminum HW approx. 110 150x100x16
HB1030130A	1 Pc.	Brinell	HBW 10/3000	Aluminum HW approx. 130 150x100x16
HB1030170A	1 Pc.	Brinell	HBW 10/3000	Aluminum HW approx. 170 150x100x16
HB1030200A	1 Pc.	Brinell	HBW 10/3000	Steel HW approx. 200 150x100x16
HB1030250A	1 Pc.	Brinell	HBW 10/3000	Steel HW approx. 250 150x100x16
HB1030300A	1 Pc.	Brinell	HBW 10/3000	Steel HW approx. 300 150x100x16
HB1030350A	1 Pc.	Brinell	HBW 10/3000	Steel HW approx. 350 150x100x16
HB1030400A	1 Pc.	Brinell	HBW 10/3000	Steel HW approx. 400 150x100x16
HB1030450A	1 Pc.	Brinell	HBW 10/3000	Steel HW approx. 450 150x100x16
HB1030500A	1 Pc.	Brinell	HBW 10/3000	Steel HW approx. 500 150x100x16
HB1030550A	1 Pc.	Brinell	HBW 10/3000	Steel HW approx. 550 150x100x16
HB1030600A	1 Pc.	Brinell	HBW 10/3000	Steel HW approx. 600 150x100x16
HB1030650A	1 Pc.	Brinell	HBW 10/3000	Steel HW approx. 650 150x100x16
<b>HBW 5 / 125</b>				
HB0505080A	1 Pc.	Brinell	HBW 5/125	Aluminum HW approx. 80 150x100x16

HW\* = Hardness value

Item No.	Unit	Description	HBW	Material	HW*	Dimensions (mm)
<b>HARDNESS TEST BLOCKS BRINELL (DIN EN ISO 6506-3, ASTM E10)</b>						
<b>HBW 5 / 250</b>						
HB0510080A	1 Pc.	Brinell	HBW 5/250	Aluminum	HW approx. 80	150x100x16
HB0510110A	1 Pc.	Brinell	HBW 5/250	Aluminum	HW approx. 110	150x100x16
HB0510130A	1 Pc.	Brinell	HBW 5/250	Aluminum	HW approx. 130	150x100x16
HB0510170A	1 Pc.	Brinell	HBW 5/250	Aluminum	HW approx. 170	150x100x16
HB0510200A	1 Pc.	Brinell	HBW 5/250	Steel	HW approx. 200	150x100x16
<b>HBW 5 / 750</b>						
HB0530110A	1 Pc.	Brinell	HBW 5/750	Aluminum	HW approx. 110	150x100x16
HB0530130A	1 Pc.	Brinell	HBW 5/750	Aluminum	HW approx. 130	150x100x16
HB0530170A	1 Pc.	Brinell	HBW 5/750	Aluminum	HW approx. 170	150x100x16
HB0530200A	1 Pc.	Brinell	HBW 5/750	Steel	HW approx. 200	150x100x16
HB0530250A	1 Pc.	Brinell	HBW 5/750	Steel	HW approx. 250	150x100x16
HB0530300A	1 Pc.	Brinell	HBW 5/750	Steel	HW approx. 300	150x100x16
HB0530350A	1 Pc.	Brinell	HBW 5/750	Steel	HW approx. 350	150x100x16
HB0530400A	1 Pc.	Brinell	HBW 5/750	Steel	HW approx. 400	150x100x16
HB0530450A	1 Pc.	Brinell	HBW 5/750	Steel	HW approx. 450	150x100x16
HB0530500A	1 Pc.	Brinell	HBW 5/750	Steel	HW approx. 500	150x100x16
HB0530550A	1 Pc.	Brinell	HBW 5/750	Steel	HW approx. 550	150x100x16
HB0530600A	1 Pc.	Brinell	HBW 5/750	Steel	HW approx. 600	150x100x16
HB0530650A	1 Pc.	Brinell	HBW 5/750	Steel	HW approx. 650	150x100x16
<b>HBW 2.5 / 31.25</b>						
HB2505080C	1 Pc.	Brinell	HBW 2.5/31.25	Aluminum	HW approx. 80	60x60x16
<b>HBW 2.5 / 62.5</b>						
HB2510080C	1 Pc.	Brinell	HBW 2.5/62.5	Aluminum	HW approx. 80	60x60x16
HB2510110C	1 Pc.	Brinell	HBW 2.5/62.5	Aluminum	HW approx. 110	60x60x16
HB2510130C	1 Pc.	Brinell	HBW 2.5/62.5	Aluminum	HW approx. 130	60x60x16
HB2510170C	1 Pc.	Brinell	HBW 2.5/62.5	Aluminum	HW approx. 170	60x60x16
HB2510200C	1 Pc.	Brinell	HBW 2.5/62.5	Steel	HW approx. 200	60x60x16
<b>HBW 2.5 / 187.5</b>						
HB2530110C	1 Pc.	Brinell	HBW 2.5/187.5	Aluminum	HW approx. 110	60x60x16
HB2530130C	1 Pc.	Brinell	HBW 2.5/187.5	Aluminum	HW approx. 130	60x60x16
HB2530170C	1 Pc.	Brinell	HBW 2.5/187.5	Aluminum	HW approx. 170	60x60x16
HB2530200C	1 Pc.	Brinell	HBW 2.5/187.5	Steel	HW approx. 200	60x60x16
HB2530250C	1 Pc.	Brinell	HBW 2.5/187.5	Steel	HW approx. 250	60x60x16
HB2530300C	1 Pc.	Brinell	HBW 2.5/187.5	Steel	HW approx. 300	60x60x16
HB2530350C	1 Pc.	Brinell	HBW 2.5/187.5	Steel	HW approx. 350	60x60x16
HB2530400C	1 Pc.	Brinell	HBW 2.5/187.5	Steel	HW approx. 400	60x60x16
HB2530450C	1 Pc.	Brinell	HBW 2.5/187.5	Steel	HW approx. 450	60x60x16
HB2530500C	1 Pc.	Brinell	HBW 2.5/187.5	Steel	HW approx. 500	60x60x16
HB2530550C	1 Pc.	Brinell	HBW 2.5/187.5	Steel	HW approx. 550	60x60x16
HB2530600C	1 Pc.	Brinell	HBW 2.5/187.5	Steel	HW approx. 600	60x60x16
HB2530650C	1 Pc.	Brinell	HBW 2.5/187.5	Steel	HW approx. 650	60x60x16



HW\* = Hardness value



Item No.	Unit	Description	HBW	Material	HW*	Dimensions (mm)
<b>HARDNESS TEST BLOCKS BRINELL (DIN EN ISO 6506-3, ASTM E10)</b>						
<b>HBW 1 / 5</b>						
HB0105080C	1 Pc.	Brinell	HBW 1/5	Aluminum	HW approx. 80	60x60x16
<b>HBW 1 / 10</b>						
HB0110080C	1 Pc.	Brinell	HBW 1/10	Aluminum	HW approx. 80	60x60x16
HB0110110C	1 Pc.	Brinell	HBW 1/10	Aluminum	HW approx. 110	60x60x16
HB0110130C	1 Pc.	Brinell	HBW 1/10	Aluminum	HW approx. 130	60x60x16
HB0110170C	1 Pc.	Brinell	HBW 1/10	Aluminum	HW approx. 170	60x60x16
HB0110200C	1 Pc.	Brinell	HBW 1/10	Steel	HW approx. 200	60x60x16
<b>HBW 1 / 30</b>						
HB0130110C	1 Pc.	Brinell	HBW 1/30	Aluminum	HW approx. 110	60x60x16
HB0130130C	1 Pc.	Brinell	HBW 1/30	Aluminum	HW approx. 130	60x60x16
HB0130170C	1 Pc.	Brinell	HBW 1/30	Aluminum	HW approx. 170	60x60x16
HB0130200C	1 Pc.	Brinell	HBW 1/30	Steel	HW approx. 200	60x60x16
HB0130250C	1 Pc.	Brinell	HBW 1/30	Steel	HW approx. 250	60x60x16
HB0130300C	1 Pc.	Brinell	HBW 1/30	Steel	HW approx. 300	60x60x16
HB0130350C	1 Pc.	Brinell	HBW 1/30	Steel	HW approx. 350	60x60x16
HB0130400C	1 Pc.	Brinell	HBW 1/30	Steel	HW approx. 400	60x60x16
HB0130450C	1 Pc.	Brinell	HBW 1/30	Steel	HW approx. 450	60x60x16
HB0130500C	1 Pc.	Brinell	HBW 1/30	Steel	HW approx. 500	60x60x16
HB0130550C	1 Pc.	Brinell	HBW 1/30	Steel	HW approx. 550	60x60x16
HB0130600C	1 Pc.	Brinell	HBW 1/30	Steel	HW approx. 600	60x60x16
HB0130650C	1 Pc.	Brinell	HBW 1/30	Steel	HW approx. 650	60x60x16

HW\* = Hardness value

## Qprep Hardness test blocks Knoop



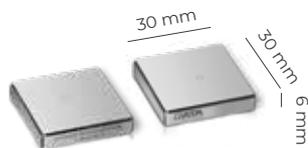
Item No.	Unit	Description	HK	Material	HW*	Dimensions (mm)
<b>HARDNESS TEST BLOCKS KNOOP (DIN EN ISO 4545-3, ASTM E92)</b>						
<b>HK 0.01</b>						
HKG010200E	1 Pc.	Knoop	HK 0.01	Steel	HW approx. 200	30x30x6
HKG010250E	1 Pc.	Knoop	HK 0.01	Steel	HW approx. 250	30x30x6
HKG010300E	1 Pc.	Knoop	HK 0.01	Steel	HW approx. 300	30x30x6
HKG010350E	1 Pc.	Knoop	HK 0.01	Steel	HW approx. 350	30x30x6
<b>HK 0.015</b>						
HKG015200E	1 Pc.	Knoop	HK 0.015	Steel	HW approx. 200	30x30x6
HKG015250E	1 Pc.	Knoop	HK 0.015	Steel	HW approx. 250	30x30x6
HKG015300E	1 Pc.	Knoop	HK 0.015	Steel	HW approx. 300	30x30x6
HKG015350E	1 Pc.	Knoop	HK 0.015	Steel	HW approx. 350	30x30x6
HKG015400E	1 Pc.	Knoop	HK 0.015	Steel	HW approx. 400	30x30x6
HKG015450E	1 Pc.	Knoop	HK 0.015	Steel	HW approx. 450	30x30x6
HKG015500E	1 Pc.	Knoop	HK 0.015	Steel	HW approx. 500	30x30x6
<b>HK 0.02</b>						
HKG020200E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 200	30x30x6
HKG020250E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 250	30x30x6
HKG020300E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 300	30x30x6
HKG020350E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 350	30x30x6
HKG020400E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 400	30x30x6
HKG020450E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 450	30x30x6
HKG020500E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 500	30x30x6
HKG020550E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 550	30x30x6
HKG020600E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 600	30x30x6
HKG020650E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 650	30x30x6
HKG020700E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 700	30x30x6
<b>HK 0.025</b>						
HKG025200E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 200	30x30x6
HKG025250E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 250	30x30x6
HKG025300E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 300	30x30x6
HKG025350E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 350	30x30x6
HKG025400E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 400	30x30x6
HKG025450E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 450	30x30x6
HKG025500E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 500	30x30x6
HKG025550E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 550	30x30x6
HKG025600E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 600	30x30x6
HKG025650E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 650	30x30x6
HKG025700E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 700	30x30x6
HKG025750E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 750	30x30x6
HKG025800E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 800	30x30x6
HKG025850E	1 Pc.	Knoop	HK 0.025	Steel	HW approx. 850	30x30x6

HW\* = Hardness value



Item No.	Unit	Description	HK	Material	HW*	Dimensions (mm)
<b>HARDNESS TEST BLOCKS KNOOP (DIN EN ISO 4545-3, ASTM E92)</b>						
<b>HK 0.05</b>						
HKG050200E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 200	30x30x6
HKG050250E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 250	30x30x6
HKG050300E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 300	30x30x6
HKG050350E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 350	30x30x6
HKG050400E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 400	30x30x6
HKG050450E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 450	30x30x6
HKG050500E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 500	30x30x6
HKG050550E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 550	30x30x6
HKG050600E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 600	30x30x6
HKG050650E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 650	30x30x6
HKG050700E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 700	30x30x6
HKG050750E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 750	30x30x6
HKG050800E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 800	30x30x6
HKG050850E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 850	30x30x6
HKG050900E	1 Pc.	Knoop	HK 0.05	Steel	HW approx. 900	30x30x6
<b>HK 0.1</b>						
HKG100200E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 200	30x30x6
HKG100250E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 250	30x30x6
HKG100300E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 300	30x30x6
HKG100350E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 350	30x30x6
HKG100400E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 400	30x30x6
HKG100450E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 450	30x30x6
HKG100500E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 500	30x30x6
HKG100550E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 550	30x30x6
HKG100600E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 600	30x30x6
HKG100650E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 650	30x30x6
HKG100700E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 700	30x30x6
HKG100750E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 750	30x30x6
HKG100800E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 800	30x30x6
HKG100850E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 850	30x30x6
HKG100900E	1 Pc.	Knoop	HK 0.1	Steel	HW approx. 900	30x30x6
<b>HK 0.2</b>						
HKG200200E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 200	30x30x6
HKG200250E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 250	30x30x6
HKG200300E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 300	30x30x6
HKG200350E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 350	30x30x6
HKG200400E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 400	30x30x6
HKG200450E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 450	30x30x6
HKG200500E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 500	30x30x6
HKG200550E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 550	30x30x6
HKG200600E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 600	30x30x6
HKG200650E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 650	30x30x6
HKG200700E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 700	30x30x6
HKG200750E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 750	30x30x6
HKG200800E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 800	30x30x6
HKG200850E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 850	30x30x6
HKG200900E	1 Pc.	Knoop	HK 0.2	Steel	HW approx. 900	30x30x6

HW\* = Hardness value



Item No.	Unit	Description
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### HARDNESS TEST BLOCKS KNOOP (DIN EN ISO 4545-3, ASTM E92)

			HK	Material	HW*	Dimensions (mm)
			<b>HK 0.3</b>			
HKG300200E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 200	30x30x6
HKG300250E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 250	30x30x6
HKG300300E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 300	30x30x6
HKG300350E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 350	30x30x6
HKG300400E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 400	30x30x6
HKG300450E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 450	30x30x6
HKG300500E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 500	30x30x6
HKG300550E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 550	30x30x6
HKG300600E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 600	30x30x6
HKG300650E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 650	30x30x6
HKG300700E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 700	30x30x6
HKG300750E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 750	30x30x6
HKG300800E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 800	30x30x6
HKG300850E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 850	30x30x6
HKG300900E	1 Pc.	Knoop	HK 0.3	Steel	HW approx. 900	30x30x6

			<b>HK 0.5</b>			
HKG500200E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 200	30x30x6
HKG500250E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 250	30x30x6
HKG500300E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 300	30x30x6
HKG500350E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 350	30x30x6
HKG500400E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 400	30x30x6
HKG500450E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 450	30x30x6
HKG500500E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 500	30x30x6
HKG500550E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 550	30x30x6
HKG500600E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 600	30x30x6
HKG500650E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 650	30x30x6
HKG500700E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 700	30x30x6
HKG500750E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 750	30x30x6
HKG500800E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 800	30x30x6
HKG500850E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 850	30x30x6
HKG500900E	1 Pc.	Knoop	HK 0.5	Steel	HW approx. 900	30x30x6

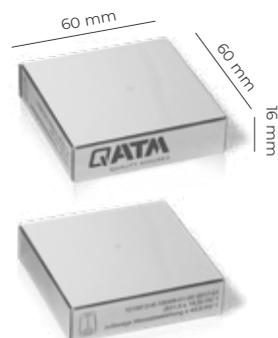
HW\* = Hardness value



Item No.	Unit	Description	HK	Material	HW*	Dimensions (mm)
<b>HARDNESS TEST BLOCKS KNOOP (DIN EN ISO 4545-3, ASTM E92)</b>						
<b>HK 1</b>						
HKK001200E	1 Pc.	Knoop	HK 1	Steel	HW approx. 200	30x30x6
HKK001250E	1 Pc.	Knoop	HK 1	Steel	HW approx. 250	30x30x6
HKK001300E	1 Pc.	Knoop	HK 1	Steel	HW approx. 300	30x30x6
HKK001350E	1 Pc.	Knoop	HK 1	Steel	HW approx. 350	30x30x6
HKK001400E	1 Pc.	Knoop	HK 1	Steel	HW approx. 400	30x30x6
HKK001450E	1 Pc.	Knoop	HK 1	Steel	HW approx. 450	30x30x6
HKK001500E	1 Pc.	Knoop	HK 1	Steel	HW approx. 500	30x30x6
HKK001550E	1 Pc.	Knoop	HK 1	Steel	HW approx. 550	30x30x6
HKK001600E	1 Pc.	Knoop	HK 1	Steel	HW approx. 600	30x30x6
HKK001650E	1 Pc.	Knoop	HK 1	Steel	HW approx. 650	30x30x6
HKK001700E	1 Pc.	Knoop	HK 1	Steel	HW approx. 700	30x30x6
HKK001750E	1 Pc.	Knoop	HK 1	Steel	HW approx. 750	30x30x6
HKK001800E	1 Pc.	Knoop	HK 1	Steel	HW approx. 800	30x30x6
HKK001850E	1 Pc.	Knoop	HK 1	Steel	HW approx. 850	30x30x6
HKK001900E	1 Pc.	Knoop	HK 1	Steel	HW approx. 900	30x30x6
<b>HK 2</b>						
HKK002200E	1 Pc.	Knoop	HK 2	Steel	HW approx. 200	30x30x6
HKK002250E	1 Pc.	Knoop	HK 2	Steel	HW approx. 250	30x30x6
HKK002300E	1 Pc.	Knoop	HK 2	Steel	HW approx. 300	30x30x6
HKK002350E	1 Pc.	Knoop	HK 2	Steel	HW approx. 350	30x30x6
HKK002400E	1 Pc.	Knoop	HK 2	Steel	HW approx. 400	30x30x6
HKK002450E	1 Pc.	Knoop	HK 2	Steel	HW approx. 450	30x30x6
HKK002500E	1 Pc.	Knoop	HK 2	Steel	HW approx. 500	30x30x6
HKK002550E	1 Pc.	Knoop	HK 2	Steel	HW approx. 550	30x30x6
HKK002600E	1 Pc.	Knoop	HK 2	Steel	HW approx. 600	30x30x6
HKK002650E	1 Pc.	Knoop	HK 2	Steel	HW approx. 650	30x30x6
HKK002700E	1 Pc.	Knoop	HK 2	Steel	HW approx. 700	30x30x6
HKK002750E	1 Pc.	Knoop	HK 2	Steel	HW approx. 750	30x30x6
HKK002800E	1 Pc.	Knoop	HK 2	Steel	HW approx. 800	30x30x6
HKK002850E	1 Pc.	Knoop	HK 2	Steel	HW approx. 850	30x30x6
HKK002900E	1 Pc.	Knoop	HK 2	Steel	HW approx. 900	30x30x6

HW\* = Hardness value

# Qprep Hardness test blocks Rockwell



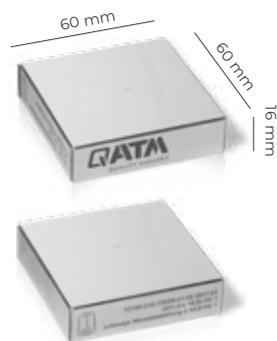
Item No.	Unit	Description	HARDNESS TEST BLOCKS ROCKWELL (DIN EN ISO 6508-3, ASTM E18)			
			HR	Material	HW*	Dimensions (mm)
<b>HRA</b>						
HROHRA029C	1 Pc.	Rockwell HRA	HRA	Aluminum	HW approx. 29	60x60x16
HROHRA040C	1 Pc.	Rockwell HRA	HRA	Aluminum	HW approx. 40	60x60x16
HROHRA045C	1 Pc.	Rockwell HRA	HRA	Aluminum	HW approx. 45	60x60x16
HROHRA053C	1 Pc.	Rockwell HRA	HRA	Aluminum	HW approx. 53	60x60x16
HROHRA057C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 57	60x60x16
HROHRA060C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 60	60x60x16
HROHRA062C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 62	60x60x16
HROHRA066C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 66	60x60x16
HROHRA069C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 69	60x60x16
HROHRA071C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 71	60x60x16
HROHRA073C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 73	60x60x16
HROHRA075C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 75	60x60x16
HROHRA077C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 77	60x60x16
HROHRA079C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 79	60x60x16
HROHRA080C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 80	60x60x16
HROHRA081C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 81	60x60x16
HROHRA082C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 82	60x60x16
HROHRA083C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 83	60x60x16
HROHRA084C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 84	60x60x16
HROHRA085C	1 Pc.	Rockwell HRA	HRA	Steel	HW approx. 85	60x60x16
<b>HRB</b>						
HROHRB032C	1 Pc.	Rockwell HRB	HRB	Aluminum	HW approx. 32	60x60x16
HROHRB060C	1 Pc.	Rockwell HRB	HRB	Aluminum	HW approx. 60	60x60x16
HROHRB072C	1 Pc.	Rockwell HRB	HRB	Aluminum	HW approx. 72	60x60x16
HROHRB086C	1 Pc.	Rockwell HRB	HRB	Aluminum	HW approx. 86	60x60x16
HROHRB094C	1 Pc.	Rockwell HRB	HRB	Steel	HW approx. 94	60x60x16
HROHRB098C	1 Pc.	Rockwell HRB	HRB	Steel	HW approx. 98	60x60x16
<b>HRC</b>						
HROHRC015C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 15	60x60x16
HROHRC019C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 19	60x60x16
HROHRC024C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 24	60x60x16
HROHRC031C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 31	60x60x16
HROHRC037C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 37	60x60x16
HROHRC041C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 41	60x60x16
HROHRC046C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 46	60x60x16
HROHRC049C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 49	60x60x16
HROHRC052C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 52	60x60x16
HROHRC055C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 55	60x60x16
HROHRC058C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 58	60x60x16
HROHRC060C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 60	60x60x16
HROHRC062C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 62	60x60x16
HROHRC063C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 63	60x60x16
HROHRC064C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 64	60x60x16
HROHRC065C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 65	60x60x16
HROHRC066C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 66	60x60x16
HROHRC068C	1 Pc.	Rockwell HRC	HRC	Steel	HW approx. 68	60x60x16

HW\* = Hardness value



Item No.	Unit	Description	HARDNESS TEST BLOCKS ROCKWELL (DIN EN ISO 6508-3, ASTM E18)			
			HR	Material	HW*	Dimensions (mm)
<b>HRD</b>						
HR0HRD045C	1 Pc.	Rockwell HRD	HRD	Aluminum	HW approx. 45	60x60x16
HR0HRD059C	1 Pc.	Rockwell HRD	HRD	Aluminum	HW approx. 59	60x60x16
HR0HRD065C	1 Pc.	Rockwell HRD	HRD	Steel	HW approx. 65	60x60x16
HR0HRD069C	1 Pc.	Rockwell HRD	HRD	Steel	HW approx. 69	60x60x16
HR0HRD072C	1 Pc.	Rockwell HRD	HRD	Steel	HW approx. 72	60x60x16
<b>HRE</b>						
HR0HRE088C	1 Pc.	Rockwell HRE	HRE	Aluminum	HW approx. 88	60x60x16
HR0HRE100C	1 Pc.	Rockwell HRE	HRE	Aluminum	HW approx. 100	60x60x16
<b>HRF</b>						
HR0HRF077C	1 Pc.	Rockwell HRF	HRF	Aluminum	HW approx. 77	60x60x16
HR0HRF092C	1 Pc.	Rockwell HRF	HRF	Aluminum	HW approx. 92	60x60x16
HR0HRF098C	1 Pc.	Rockwell HRF	HRF	Aluminum	HW approx. 98	60x60x16
<b>HR15N</b>						
HR015N070C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 70	60x60x16
HR015N075C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 75	60x60x16
HR015N078C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 78	60x60x16
HR015N081C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 81	60x60x16
HR015N083C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 83	60x60x16
HR015N085C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 85	60x60x16
HR015N086C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 86	60x60x16
HR015N088C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 88	60x60x16
HR015N089C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 89	60x60x16
HR015N090C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 90	60x60x16
HR015N091C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 91	60x60x16
HR015N092C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 92	60x60x16
HR015N093C	1 Pc.	Rockwell HR15N	HR15N	Steel	HW approx. 93	60x60x16
<b>HR15T</b>						
HR015T072C	1 Pc.	Rockwell HR15T	HR15T	Aluminum	HW approx. 72	60x60x16
HR015T080C	1 Pc.	Rockwell HR15T	HR15T	Aluminum	HW approx. 80	60x60x16
HR015T084C	1 Pc.	Rockwell HR15T	HR15T	Aluminum	HW approx. 84	60x60x16
HR015T088C	1 Pc.	Rockwell HR15T	HR15T	Aluminum	HW approx. 88	60x60x16
HR015T090C	1 Pc.	Rockwell HR15T	HR15T	Steel	HW approx. 90	60x60x16
HR015T091C	1 Pc.	Rockwell HR15T	HR15T	Steel	HW approx. 91	60x60x16
HR015T092C	1 Pc.	Rockwell HR15T	HR15T	Steel	HW approx. 92	60x60x16
HR015T094C	1 Pc.	Rockwell HR15T	HR15T	Steel	HW approx. 94	60x60x16

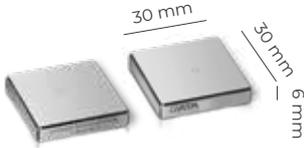
HW\* = Hardness value



Item No.	Unit	Description	HR	Material	HW*	Dimensions (mm)
<b>HARDNESS TEST BLOCKS ROCKWELL (DIN EN ISO 6508-3, ASTM E18)</b>						
<b>HR30N</b>						
HR030N043C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 43	60x60x16
HR030N050C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 50	60x60x16
HR030N056C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 56	60x60x16
HR030N060C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 60	60x60x16
HR030N064C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 64	60x60x16
HR030N067C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 67	60x60x16
HR030N070C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 70	60x60x16
HR030N073C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 73	60x60x16
HR030N075C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 75	60x60x16
HR030N077C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 77	60x60x16
HR030N079C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 79	60x60x16
HR030N080C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 80	60x60x16
HR030N081C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 81	60x60x16
HR030N082C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 82	60x60x16
HR030N083C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 83	60x60x16
<b>HR30T</b>						
HR030T040C	1 Pc.	Rockwell	HR30T	Aluminum	HW approx. 40	60x60x16
HR030T057C	1 Pc.	Rockwell	HR30T	Aluminum	HW approx. 57	60x60x16
HR030T064C	1 Pc.	Rockwell	HR30T	Aluminum	HW approx. 64	60x60x16
HR030T073C	1 Pc.	Rockwell	HR30T	Aluminum	HW approx. 73	60x60x16
HR030T077C	1 Pc.	Rockwell	HR30T	Steel	HW approx. 77	60x60x16
HR030T080C	1 Pc.	Rockwell	HR30T	Steel	HW approx. 80	60x60x16
HR030T082C	1 Pc.	Rockwell	HR30T	Steel	HW approx. 82	60x60x16
<b>HR45N</b>						
HR045N023C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 23	60x60x16
HR045N031C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 31	60x60x16
HR045N039C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 39	60x60x16
HR045N044C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 44	60x60x16
HR045N049C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 49	60x60x16
HR045N054C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 54	60x60x16
HR045N057C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 57	60x60x16
HR045N060C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 60	60x60x16
HR045N063C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 63	60x60x16
HR045N066C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 66	60x60x16
HR045N068C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 68	60x60x16
HR045N069C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 69	60x60x16
HR045N071C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 71	60x60x16
HR045N072C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 72	60x60x16
HR045N073C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 73	60x60x16
HR045N074C	1 Pc.	Rockwell	HR45N	Steel	HW approx. 74	60x60x16
<b>HR45T</b>						
HR045T009C	1 Pc.	Rockwell	HR45T	Aluminum	HW approx. 9	60x60x16
HR045T034C	1 Pc.	Rockwell	HR45T	Aluminum	HW approx. 34	60x60x16
HR045T045C	1 Pc.	Rockwell	HR45T	Aluminum	HW approx. 45	60x60x16
HR045T059C	1 Pc.	Rockwell	HR45T	Aluminum	HW approx. 59	60x60x16
HR045T065C	1 Pc.	Rockwell	HR45T	Steel	HW approx. 65	60x60x16
HR045T069C	1 Pc.	Rockwell	HR45T	Steel	HW approx. 69	60x60x16
HR045T072C	1 Pc.	Rockwell	HR45T	Steel	HW approx. 72	60x60x16

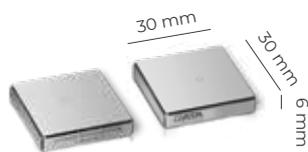
HW\* = Hardness value

## Qprep Hardness test blocks Vickers



Item No.	Unit	Description				
<b>HARDNESS TEST BLOCKS VICKERS (DIN EN ISO 6507-3, ASTM E92)</b>						
<b>HV 0.01</b>						
HVG010200E	1 Pc.	Vickers	HV 0.010	Steel	HW approx. 200	30x30x6
<b>HV 0.015</b>						
HVG015200E	1 Pc.	Vickers	HV 0.015	Steel	HW approx. 200	30x30x6
HVG015250E	1 Pc.	Vickers	HV 0.015	Steel	HW approx. 250	30x30x6
<b>HV 0.02</b>						
HVG020200E	1 Pc.	Vickers	HV 0.02	Steel	HW approx. 200	30x30x6
HVG020250E	1 Pc.	Vickers	HV 0.02	Steel	HW approx. 250	30x30x6
HVG020300E	1 Pc.	Vickers	HV 0.02	Steel	HW approx. 300	30x30x6
HVG020350E	1 Pc.	Vickers	HV 0.02	Steel	HW approx. 350	30x30x6
<b>HV 0.025</b>						
HVG025200E	1 Pc.	Vickers	HV 0.025	Steel	HW approx. 200	30x30x6
HVG025250E	1 Pc.	Vickers	HV 0.025	Steel	HW approx. 250	30x30x6
HVG025300E	1 Pc.	Vickers	HV 0.025	Steel	HW approx. 300	30x30x6
HVG025350E	1 Pc.	Vickers	HV 0.025	Steel	HW approx. 350	30x30x6
HVG025400E	1 Pc.	Vickers	HV 0.025	Steel	HW approx. 400	30x30x6
HVG025450E	1 Pc.	Vickers	HV 0.025	Steel	HW approx. 450	30x30x6
<b>HV 0.05</b>						
HVG050200E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 200	30x30x6
HVG050250E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 250	30x30x6
HVG050300E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 300	30x30x6
HVG050350E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 350	30x30x6
HVG050400E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 400	30x30x6
HVG050450E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 450	30x30x6
HVG050500E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 500	30x30x6
HVG050550E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 550	30x30x6
HVG050600E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 600	30x30x6
HVG050650E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 650	30x30x6
HVG050700E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 700	30x30x6
HVG050750E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 750	30x30x6
HVG050800E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 800	30x30x6
HVG050850E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 850	30x30x6
HVG050900E	1 Pc.	Vickers	HV 0.05	Steel	HW approx. 900	30x30x6

HW\* = Hardness value



Item No.	Unit	Description	HARDNESS TEST BLOCKS VICKERS (DIN EN ISO 6507-3, ASTM E92)				
			HV	Material	HW*	Dimensions (mm)	
<b>HV 0.1</b>							
HVG100200E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 200	30x30x6	
HVG100250E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 250	30x30x6	
HVG100300E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 300	30x30x6	
HVG100350E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 350	30x30x6	
HVG100400E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 400	30x30x6	
HVG100450E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 450	30x30x6	
HVG100500E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 500	30x30x6	
HVG100550E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 550	30x30x6	
HVG100600E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 600	30x30x6	
HVG100650E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 650	30x30x6	
HVG100700E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 700	30x30x6	
HVG100750E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 750	30x30x6	
HVG100800E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 800	30x30x6	
HVG100850E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 850	30x30x6	
HVG100900E	1 Pc.	Vickers	HV 0.1	Steel	HW approx. 900	30x30x6	
<b>HV 0.2</b>							
HVG200200E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 200	30x30x6	
HVG200250E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 250	30x30x6	
HVG200300E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 300	30x30x6	
HVG200350E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 350	30x30x6	
HVG200400E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 400	30x30x6	
HVG200450E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 450	30x30x6	
HVG200500E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 500	30x30x6	
HVG200550E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 550	30x30x6	
HVG200600E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 600	30x30x6	
HVG200650E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 650	30x30x6	
HVG200700E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 700	30x30x6	
HVG200750E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 750	30x30x6	
HVG200800E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 800	30x30x6	
HVG200850E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 850	30x30x6	
HVG200900E	1 Pc.	Vickers	HV 0.2	Steel	HW approx. 900	30x30x6	
<b>HV 0.3</b>							
HVG300200E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 200	30x30x6	
HVG300250E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 250	30x30x6	
HVG300300E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 300	30x30x6	
HVG300350E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 350	30x30x6	
HVG300400E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 400	30x30x6	
HVG300450E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 450	30x30x6	
HVG300500E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 500	30x30x6	
HVG300550E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 550	30x30x6	
HVG300600E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 600	30x30x6	
HVG300650E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 650	30x30x6	
HVG300700E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 700	30x30x6	
HVG300750E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 750	30x30x6	
HVG300800E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 800	30x30x6	
HVG300850E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 850	30x30x6	
HVG300900E	1 Pc.	Vickers	HV 0.3	Steel	HW approx. 900	30x30x6	

HW\* = Hardness value



Item No.	Unit	Description
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### HARDNESS TEST BLOCKS VICKERS (DIN EN ISO 6507-3, ASTM E92)

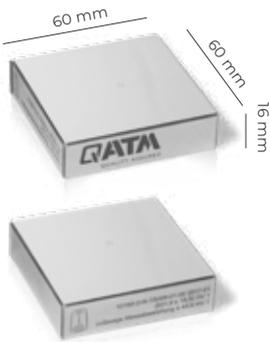
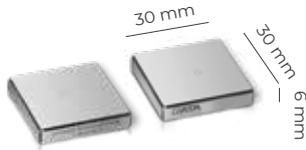
			HV	Material	HW*	Dimensions (mm)
<b>HV 0.5</b>						
HVG500200E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 200	30x30x6
HVG500250E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 250	30x30x6
HVG500300E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 300	30x30x6
HVG500350E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 350	30x30x6
HVG500400E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 400	30x30x6
HVG500450E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 450	30x30x6
HVG500500E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 500	30x30x6
HVG500550E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 550	30x30x6
HVG500600E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 600	30x30x6
HVG500650E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 650	30x30x6
HVG500700E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 700	30x30x6
HVG500750E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 750	30x30x6
HVG500800E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 800	30x30x6
HVG500850E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 850	30x30x6
HVG500900E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 900	30x30x6

			HV 1			
<b>HV 1</b>						
HVK001200E	1 Pc.	Vickers	HV 1	Steel	HW approx. 200	30x30x6
HVK001250E	1 Pc.	Vickers	HV 1	Steel	HW approx. 250	30x30x6
HVK001300E	1 Pc.	Vickers	HV 1	Steel	HW approx. 300	30x30x6
HVK001350E	1 Pc.	Vickers	HV 1	Steel	HW approx. 350	30x30x6
HVK001400E	1 Pc.	Vickers	HV 1	Steel	HW approx. 400	30x30x6
HVK001450E	1 Pc.	Vickers	HV 1	Steel	HW approx. 450	30x30x6
HVK001500E	1 Pc.	Vickers	HV 1	Steel	HW approx. 500	30x30x6
HVK001550E	1 Pc.	Vickers	HV 1	Steel	HW approx. 550	30x30x6
HVK001600E	1 Pc.	Vickers	HV 1	Steel	HW approx. 600	30x30x6
HVK001650E	1 Pc.	Vickers	HV 1	Steel	HW approx. 650	30x30x6
HVK001700E	1 Pc.	Vickers	HV 1	Steel	HW approx. 700	30x30x6
HVK001750E	1 Pc.	Vickers	HV 1	Steel	HW approx. 750	30x30x6
HVK001800E	1 Pc.	Vickers	HV 1	Steel	HW approx. 800	30x30x6
HVK001850E	1 Pc.	Vickers	HV 1	Steel	HW approx. 850	30x30x6
HVK001900E	1 Pc.	Vickers	HV 1	Steel	HW approx. 900	30x30x6



			HV 1			
<b>HV 1</b>						
HVK001080C	1 Pc.	Vickers	HV 1	Aluminum	HW approx. 80	60x60x16
HVK001110C	1 Pc.	Vickers	HV 1	Aluminum	HW approx. 110	60x60x16
HVK001130C	1 Pc.	Vickers	HV 1	Aluminum	HW approx. 130	60x60x16
HVK001170C	1 Pc.	Vickers	HV 1	Aluminum	HW approx. 170	60x60x16
HVK001200C	1 Pc.	Vickers	HV 1	Steel	HW approx. 200	60x60x16
HVK001250C	1 Pc.	Vickers	HV 1	Steel	HW approx. 250	60x60x16
HVK001300C	1 Pc.	Vickers	HV 1	Steel	HW approx. 300	60x60x16
HVK001350C	1 Pc.	Vickers	HV 1	Steel	HW approx. 350	60x60x16
HVK001400C	1 Pc.	Vickers	HV 1	Steel	HW approx. 400	60x60x16
HVK001450C	1 Pc.	Vickers	HV 1	Steel	HW approx. 450	60x60x16
HVK001500C	1 Pc.	Vickers	HV 1	Steel	HW approx. 500	60x60x16
HVK001550C	1 Pc.	Vickers	HV 1	Steel	HW approx. 550	60x60x16
HVK001600C	1 Pc.	Vickers	HV 1	Steel	HW approx. 600	60x60x16
HVK001650C	1 Pc.	Vickers	HV 1	Steel	HW approx. 650	60x60x16
HVK001700C	1 Pc.	Vickers	HV 1	Steel	HW approx. 700	60x60x16
HVK001750C	1 Pc.	Vickers	HV 1	Steel	HW approx. 750	60x60x16
HVK001800C	1 Pc.	Vickers	HV 1	Steel	HW approx. 800	60x60x16
HVK001850C	1 Pc.	Vickers	HV 1	Steel	HW approx. 850	60x60x16
HVK001900C	1 Pc.	Vickers	HV 1	Steel	HW approx. 900	60x60x16

HW\* = Hardness value



Item No.	Unit	Description
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### HARDNESS TEST BLOCKS VICKERS (DIN EN ISO 6507-3, ASTM E92)

			HV	Material	HW*	Dimensions (mm)
<b>HV 2</b>						
HVK002200E	1 Pc.	Vickers	HV 2	Steel	HW approx. 200	30x30x6
HVK002250E	1 Pc.	Vickers	HV 2	Steel	HW approx. 250	30x30x6
HVK002300E	1 Pc.	Vickers	HV 2	Steel	HW approx. 300	30x30x6
HVK002350E	1 Pc.	Vickers	HV 2	Steel	HW approx. 350	30x30x6
HVK002400E	1 Pc.	Vickers	HV 2	Steel	HW approx. 400	30x30x6
HVK002450E	1 Pc.	Vickers	HV 2	Steel	HW approx. 450	30x30x6
HVK002500E	1 Pc.	Vickers	HV 2	Steel	HW approx. 500	30x30x6
HVK002550E	1 Pc.	Vickers	HV 2	Steel	HW approx. 550	30x30x6
HVK002600E	1 Pc.	Vickers	HV 2	Steel	HW approx. 600	30x30x6
HVK002650E	1 Pc.	Vickers	HV 2	Steel	HW approx. 650	30x30x6
HVK002700E	1 Pc.	Vickers	HV 2	Steel	HW approx. 700	30x30x6
HVK002750E	1 Pc.	Vickers	HV 2	Steel	HW approx. 750	30x30x6
HVK002800E	1 Pc.	Vickers	HV 2	Steel	HW approx. 800	30x30x6
HVK002850E	1 Pc.	Vickers	HV 2	Steel	HW approx. 850	30x30x6
HVK002900E	1 Pc.	Vickers	HV 2	Steel	HW approx. 900	30x30x6

			HV	Material	HW*	Dimensions (mm)
<b>HV 2</b>						
HVK002080C	1 Pc.	Vickers	HV 2	Aluminum	HW approx. 80	60x60x16
HVK002110C	1 Pc.	Vickers	HV 2	Aluminum	HW approx. 110	60x60x16
HVK002130C	1 Pc.	Vickers	HV 2	Aluminum	HW approx. 130	60x60x16
HVK002170C	1 Pc.	Vickers	HV 2	Aluminum	HW approx. 170	60x60x16
HVK002200C	1 Pc.	Vickers	HV 2	Steel	HW approx. 200	60x60x16
HVK002250C	1 Pc.	Vickers	HV 2	Steel	HW approx. 250	60x60x16
HVK002300C	1 Pc.	Vickers	HV 2	Steel	HW approx. 300	60x60x16
HVK002350C	1 Pc.	Vickers	HV 2	Steel	HW approx. 350	60x60x16
HVK002400C	1 Pc.	Vickers	HV 2	Steel	HW approx. 400	60x60x16
HVK002450C	1 Pc.	Vickers	HV 2	Steel	HW approx. 450	60x60x16
HVK002500C	1 Pc.	Vickers	HV 2	Steel	HW approx. 500	60x60x16
HVK002550C	1 Pc.	Vickers	HV 2	Steel	HW approx. 550	60x60x16
HVK002600C	1 Pc.	Vickers	HV 2	Steel	HW approx. 600	60x60x16
HVK002650C	1 Pc.	Vickers	HV 2	Steel	HW approx. 650	60x60x16
HVK002700C	1 Pc.	Vickers	HV 2	Steel	HW approx. 700	60x60x16
HVK002750C	1 Pc.	Vickers	HV 2	Steel	HW approx. 750	60x60x16
HVK002800C	1 Pc.	Vickers	HV 2	Steel	HW approx. 800	60x60x16
HVK002850C	1 Pc.	Vickers	HV 2	Steel	HW approx. 850	60x60x16
HVK002900C	1 Pc.	Vickers	HV 2	Steel	HW approx. 900	60x60x16

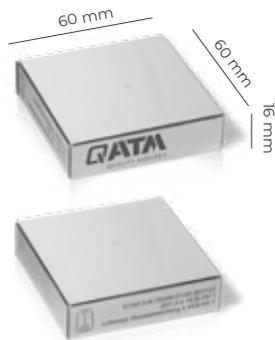
HW\* = Hardness value



Item No.	Unit	Description	HARDNESS TEST BLOCKS VICKERS (DIN EN ISO 6507-3, ASTM E92)			
			HV	Material	HW*	Dimensions (mm)
<b>HV 3</b>						
HVK003080C	1 Pc.	Vickers	HV 3	Aluminum	HW approx. 80	60x60x16
HVK003110C	1 Pc.	Vickers	HV 3	Aluminum	HW approx. 110	60x60x16
HVK003130C	1 Pc.	Vickers	HV 3	Aluminum	HW approx. 130	60x60x16
HVK003170C	1 Pc.	Vickers	HV 3	Aluminum	HW approx. 170	60x60x16
HVK003200C	1 Pc.	Vickers	HV 3	Steel	HW approx. 200	60x60x16
HVK003250C	1 Pc.	Vickers	HV 3	Steel	HW approx. 250	60x60x16
HVK003300C	1 Pc.	Vickers	HV 3	Steel	HW approx. 300	60x60x16
HVK003350C	1 Pc.	Vickers	HV 3	Steel	HW approx. 350	60x60x16
HVK003400C	1 Pc.	Vickers	HV 3	Steel	HW approx. 400	60x60x16
HVK003450C	1 Pc.	Vickers	HV 3	Steel	HW approx. 450	60x60x16
HVK003500C	1 Pc.	Vickers	HV 3	Steel	HW approx. 500	60x60x16
HVK003550C	1 Pc.	Vickers	HV 3	Steel	HW approx. 550	60x60x16
HVK003600C	1 Pc.	Vickers	HV 3	Steel	HW approx. 600	60x60x16
HVK003650C	1 Pc.	Vickers	HV 3	Steel	HW approx. 650	60x60x16
HVK003700C	1 Pc.	Vickers	HV 3	Steel	HW approx. 700	60x60x16
HVK003750C	1 Pc.	Vickers	HV 3	Steel	HW approx. 750	60x60x16
HVK003800C	1 Pc.	Vickers	HV 3	Steel	HW approx. 800	60x60x16
HVK003850C	1 Pc.	Vickers	HV 3	Steel	HW approx. 850	60x60x16
HVK003900C	1 Pc.	Vickers	HV 3	Steel	HW approx. 900	60x60x16

<b>HV 5</b>						
HVK005080C	1 Pc.	Vickers	HV 5	Aluminum	HW approx. 80	60x60x16
HVK005110C	1 Pc.	Vickers	HV 5	Aluminum	HW approx. 110	60x60x16
HVK005130C	1 Pc.	Vickers	HV 5	Aluminum	HW approx. 130	60x60x16
HVK005170C	1 Pc.	Vickers	HV 5	Aluminum	HW approx. 170	60x60x16
HVK005200C	1 Pc.	Vickers	HV 5	Steel	HW approx. 200	60x60x16
HVK005250C	1 Pc.	Vickers	HV 5	Steel	HW approx. 250	60x60x16
HVK005300C	1 Pc.	Vickers	HV 5	Steel	HW approx. 300	60x60x16
HVK005350C	1 Pc.	Vickers	HV 5	Steel	HW approx. 350	60x60x16
HVK005400C	1 Pc.	Vickers	HV 5	Steel	HW approx. 400	60x60x16
HVK005450C	1 Pc.	Vickers	HV 5	Steel	HW approx. 450	60x60x16
HVK005500C	1 Pc.	Vickers	HV 5	Steel	HW approx. 500	60x60x16
HVK005550C	1 Pc.	Vickers	HV 5	Steel	HW approx. 550	60x60x16
HVK005600C	1 Pc.	Vickers	HV 5	Steel	HW approx. 600	60x60x16
HVK005650C	1 Pc.	Vickers	HV 5	Steel	HW approx. 650	60x60x16
HVK005700C	1 Pc.	Vickers	HV 5	Steel	HW approx. 700	60x60x16
HVK005750C	1 Pc.	Vickers	HV 5	Steel	HW approx. 750	60x60x16
HVK005800C	1 Pc.	Vickers	HV 5	Steel	HW approx. 800	60x60x16
HVK005850C	1 Pc.	Vickers	HV 5	Steel	HW approx. 850	60x60x16
HVK005900C	1 Pc.	Vickers	HV 5	Steel	HW approx. 900	60x60x16

HW\* = Hardness value



Item No.	Unit	Description
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### HARDNESS TEST BLOCKS VICKERS (DIN EN ISO 6507-3, ASTM E92)

			HV	Material	HW*	Dimensions (mm)
<b>HV 10</b>						
HVK010080C	1 Pc.	Vickers	HV 10	Aluminum	HW approx. 80	60x60x16
HVK010110C	1 Pc.	Vickers	HV 10	Aluminum	HW approx. 110	60x60x16
HVK010130C	1 Pc.	Vickers	HV 10	Aluminum	HW approx. 130	60x60x16
HVK010170C	1 Pc.	Vickers	HV 10	Aluminum	HW approx. 170	60x60x16
HVK010200C	1 Pc.	Vickers	HV 10	Steel	HW approx. 200	60x60x16
HVK010250C	1 Pc.	Vickers	HV 10	Steel	HW approx. 250	60x60x16
HVK010300C	1 Pc.	Vickers	HV 10	Steel	HW approx. 300	60x60x16
HVK010350C	1 Pc.	Vickers	HV 10	Steel	HW approx. 350	60x60x16
HVK010400C	1 Pc.	Vickers	HV 10	Steel	HW approx. 400	60x60x16
HVK010450C	1 Pc.	Vickers	HV 10	Steel	HW approx. 450	60x60x16
HVK010500C	1 Pc.	Vickers	HV 10	Steel	HW approx. 500	60x60x16
HVK010550C	1 Pc.	Vickers	HV 10	Steel	HW approx. 550	60x60x16
HVK010600C	1 Pc.	Vickers	HV 10	Steel	HW approx. 600	60x60x16
HVK010650C	1 Pc.	Vickers	HV 10	Steel	HW approx. 650	60x60x16
HVK010700C	1 Pc.	Vickers	HV 10	Steel	HW approx. 700	60x60x16
HVK010750C	1 Pc.	Vickers	HV 10	Steel	HW approx. 750	60x60x16
HVK010800C	1 Pc.	Vickers	HV 10	Steel	HW approx. 800	60x60x16
HVK010850C	1 Pc.	Vickers	HV 10	Steel	HW approx. 850	60x60x16
HVK010900C	1 Pc.	Vickers	HV 10	Steel	HW approx. 900	60x60x16

			HV	Material	HW*	Dimensions (mm)
<b>HV 20</b>						
HVK020080C	1 Pc.	Vickers	HV 20	Aluminum	HW approx. 80	60x60x16
HVK020110C	1 Pc.	Vickers	HV 20	Aluminum	HW approx. 110	60x60x16
HVK020130C	1 Pc.	Vickers	HV 20	Aluminum	HW approx. 130	60x60x16
HVK020170C	1 Pc.	Vickers	HV 20	Aluminum	HW approx. 170	60x60x16
HVK020200C	1 Pc.	Vickers	HV 20	Steel	HW approx. 200	60x60x16
HVK020250C	1 Pc.	Vickers	HV 20	Steel	HW approx. 250	60x60x16
HVK020300C	1 Pc.	Vickers	HV 20	Steel	HW approx. 300	60x60x16
HVK020350C	1 Pc.	Vickers	HV 20	Steel	HW approx. 350	60x60x16
HVK020400C	1 Pc.	Vickers	HV 20	Steel	HW approx. 400	60x60x16
HVK020450C	1 Pc.	Vickers	HV 20	Steel	HW approx. 450	60x60x16
HVK020500C	1 Pc.	Vickers	HV 20	Steel	HW approx. 500	60x60x16
HVK020550C	1 Pc.	Vickers	HV 20	Steel	HW approx. 550	60x60x16
HVK020600C	1 Pc.	Vickers	HV 20	Steel	HW approx. 600	60x60x16
HVK020650C	1 Pc.	Vickers	HV 20	Steel	HW approx. 650	60x60x16
HVK020700C	1 Pc.	Vickers	HV 20	Steel	HW approx. 700	60x60x16
HVK020750C	1 Pc.	Vickers	HV 20	Steel	HW approx. 750	60x60x16
HVK020800C	1 Pc.	Vickers	HV 20	Steel	HW approx. 800	60x60x16
HVK020850C	1 Pc.	Vickers	HV 20	Steel	HW approx. 850	60x60x16
HVK020900C	1 Pc.	Vickers	HV 20	Steel	HW approx. 900	60x60x16

HW\* = Hardness value



Item No.	Unit	Description	HARDNESS TEST BLOCKS VICKERS (DIN EN ISO 6507-3, ASTM E92)			
			HV	Material	HW*	Dimensions (mm)
<b>HV 30</b>						
HVK030080C	1 Pc.	Vickers	HV 30	Aluminum	HW approx. 80	60x60x16
HVK030110C	1 Pc.	Vickers	HV 30	Aluminum	HW approx. 110	60x60x16
HVK030130C	1 Pc.	Vickers	HV 30	Aluminum	HW approx. 130	60x60x16
HVK030170C	1 Pc.	Vickers	HV 30	Aluminum	HW approx. 170	60x60x16
HVK030200C	1 Pc.	Vickers	HV 30	Steel	HW approx. 200	60x60x16
HVK030250C	1 Pc.	Vickers	HV 30	Steel	HW approx. 250	60x60x16
HVK030300C	1 Pc.	Vickers	HV 30	Steel	HW approx. 300	60x60x16
HVK030350C	1 Pc.	Vickers	HV 30	Steel	HW approx. 350	60x60x16
HVK030400C	1 Pc.	Vickers	HV 30	Steel	HW approx. 400	60x60x16
HVK030450C	1 Pc.	Vickers	HV 30	Steel	HW approx. 450	60x60x16
HVK030500C	1 Pc.	Vickers	HV 30	Steel	HW approx. 500	60x60x16
HVK030550C	1 Pc.	Vickers	HV 30	Steel	HW approx. 550	60x60x16
HVK030600C	1 Pc.	Vickers	HV 30	Steel	HW approx. 600	60x60x16
HVK030650C	1 Pc.	Vickers	HV 30	Steel	HW approx. 650	60x60x16
HVK030700C	1 Pc.	Vickers	HV 30	Steel	HW approx. 700	60x60x16
HVK030750C	1 Pc.	Vickers	HV 30	Steel	HW approx. 750	60x60x16
HVK030800C	1 Pc.	Vickers	HV 30	Steel	HW approx. 800	60x60x16
HVK030850C	1 Pc.	Vickers	HV 30	Steel	HW approx. 850	60x60x16
HVK030900C	1 Pc.	Vickers	HV 30	Steel	HW approx. 900	60x60x16

<b>HV 50</b>						
HVK050080C	1 Pc.	Vickers	HV 50	Aluminum	HW approx. 80	60x60x16
HVK050110C	1 Pc.	Vickers	HV 50	Aluminum	HW approx. 110	60x60x16
HVK050130C	1 Pc.	Vickers	HV 50	Aluminum	HW approx. 130	60x60x16
HVK050170C	1 Pc.	Vickers	HV 50	Aluminum	HW approx. 170	60x60x16
HVK050200C	1 Pc.	Vickers	HV 50	Steel	HW approx. 200	60x60x16
HVK050250C	1 Pc.	Vickers	HV 50	Steel	HW approx. 250	60x60x16
HVK050300C	1 Pc.	Vickers	HV 50	Steel	HW approx. 300	60x60x16
HVK050350C	1 Pc.	Vickers	HV 50	Steel	HW approx. 350	60x60x16
HVK050400C	1 Pc.	Vickers	HV 50	Steel	HW approx. 400	60x60x16
HVK050450C	1 Pc.	Vickers	HV 50	Steel	HW approx. 450	60x60x16
HVK050500C	1 Pc.	Vickers	HV 50	Steel	HW approx. 500	60x60x16
HVK050550C	1 Pc.	Vickers	HV 50	Steel	HW approx. 550	60x60x16
HVK050600C	1 Pc.	Vickers	HV 50	Steel	HW approx. 600	60x60x16
HVK050650C	1 Pc.	Vickers	HV 50	Steel	HW approx. 650	60x60x16
HVK050700C	1 Pc.	Vickers	HV 50	Steel	HW approx. 700	60x60x16
HVK050750C	1 Pc.	Vickers	HV 50	Steel	HW approx. 750	60x60x16
HVK050800C	1 Pc.	Vickers	HV 50	Steel	HW approx. 800	60x60x16
HVK050850C	1 Pc.	Vickers	HV 50	Steel	HW approx. 850	60x60x16
HVK050900C	1 Pc.	Vickers	HV 50	Steel	HW approx. 900	60x60x16

HW\* = Hardness value



## Qprep Indenters



The various indenters are to be selected according to the respective test method (Brinell, Vickers, Rockwell and Knoop). The selection of QPREP indenters, test diamonds and carbide balls, which are certified according to DAkkS and/or ASTM, QATM, provides a broad test equipment portfolio for hardness testing.

Item No.	Unit	Description
<b>TEST DIAMONDS MAKRO</b>		
		<b>Description</b>
		<b>Length Ø</b>
<b>• with DAkkS/ASTM Certificate</b>		
QER28000EA	1 Pc.	Test diamond Rockwell 28 mm 6.5 mm
QER28400EA	1 Pc.	Test diamond Rockwell 28 mm 3.8 mm
QEV28000EA	1 Pc.	Test diamond Vickers $\geq$ HV0.01 28 mm 6.5 mm
QEV28000EZ	1 Pc.	Test diamond Vickers $\geq$ HV5 28 mm 6.5 mm with DAkkS Certificate
QEK28000EA	1 Pc.	Test diamond Knoop 28 mm 6.5 mm
<b>BALL HOLDERS WITH PRESSED-IN BALL – MAKRO</b>		
		<b>Description</b>
<b>• with DAkkS/ASTM Certificate</b>		
QEB28010EA	1 Pc.	Ball holders with 1 mm ball, pressed-in
QEB28025EA	1 Pc.	Ball holders with 2.5 mm ball, pressed-in
QEB28050EA	1 Pc.	Ball holders with 5 mm ball, pressed-in
QEB28100EA	1 Pc.	Ball holders with 10 mm ball, pressed-in
QEB28116EA	1 Pc.	Ball holders with 1/16" ball, pressed-in
QEB28108EA	1 Pc.	Ball holders with 1/8" ball, pressed-in
QEB28104EA	1 Pc.	Ball holders with 1/4" ball, pressed-in
QEB28102EA	1 Pc.	Ball holders with 1/2" ball, pressed-in
<b>BALL HOLDERS WITH EXCHANGEABLE BALL – MAKRO</b>		
		<b>Description</b>
<b>• with DAkkS/ASTM Certificate</b>		
QEB28025AA	1 Pc.	Ball holders with 2.5 mm ball - exchangeable
QEB28050AA	1 Pc.	Ball holders with 5 mm ball - exchangeable
QEB28100AA	1 Pc.	Ball holders with 10 mm ball - exchangeable
QEB28108AA	1 Pc.	Ball holders with 1/8" ball - exchangeable
QEB28104AA	1 Pc.	Ball holders with 1/4" ball - exchangeable
QEB28102AA	1 Pc.	Ball holders with 1/2" ball - exchangeable





## Remarks

„The listed expiration dates represent the minimum shelf life of the QATM consumables. Within this period the complete functionality of the products are guaranteed.

Reaching the expiration date does not cause a loss of the functionality of the products. Consequently, they can be used further more.

To ensure full functionality of the products, an **adequate storage** is essential. The products need to be reliably protected against humidity and temperature fluctuation.

When outside temperatures are high, delivery of the liquids of KEM 15, 20, 30, 35 and 60 is restricted. For further information please consult the data sheet.

The consumables and their packaging should not be opened unless for imminent use (e.g. cut-off wheels are hygroscopic and cold mounting materials might react with oxygen).

This might influence the functionality over time.

**The expiration date starts from shipping date.**

Complaints are checked by our quality management and application team.

Our general terms and conditions remain unaffected from these notes.”

## Expiration dates of consumables

	Product	Expiration date
		Years
<b>Cutting</b>	Abrasive cut-off wheels	2
	CBN cut-off wheels	2
	Diamond blades	2
	Cup grinder	2
	Coolant	2
	Additives for coolants	2
	Filter fleece & filter bags	2
<b>Hot Mounting</b>	Bakelite	2
	EPO-Max	2
	EPO black	2
	Duroplast	2
	Thermoplast	2
<b>Cold Mounting</b>	Methacrylate z.B. KEM 15+, 20, 30, 35, 60	1
	Epoxy resin KEM 90	1
	Mounting moulds	2
	Releasing agent	2
<b>Grinding/Polishing</b>	Grinding wheels	2
	GALAXY Diamond grinding discs	2
	SiC grinding foils	1
	SiC grinding paper without self-adhesive back/with foil back	2
	SiC grinding paper self-adhesiveUnits	1
	SiC grinding belts	1
	Adhesive foil double-side	1
	Adhesive carrier	2
	Diamond suspensions	2
	Diamond paste	2
	Diamond spray	2
	Aluminum oxide suspensions (Alumina, Eposal)	2
	Colloidal silica	2
	Polishing cloths	2
	Polishing cloth carrier discs	1
Magnetic foil	2	
<b>Etching</b>	Etchants & electrolytes	1
<b>Miscellaneous</b>	Ethanol & Aceton	2
	Ultrasonic cleaning agents (Tickopur)	2
	Replication material Provil Novo	1

## Safety Data Sheets



Download of Safety Data Sheets at [www.qatm.com](http://www.qatm.com)





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