



Qprep

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

CONSUMABLES



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

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

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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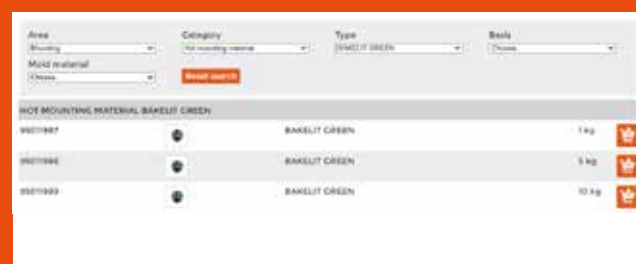
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WWW.QATM.COM/CONSUMABLES

Our consumables website offers you a complete overview of our QPREP products, including detailed descriptions, specific benefits and recommended applications.

When you switch to the order data, you will immediately receive a pre-selected list. However, you can also easily set your own selection filters.

You also have the option of creating an inquiry list to receive a non-binding offer from us.



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.



Excellent sales and service network throughout the world



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



General	
About Us	3
Contact information	4
QATM Worldwide	5
Expiration dates of consumables	138



CONSUMABLES FOR CUTTING

Consumables for cutting		8-28
Precision cutting		10
Silicon carbide precision cut-off wheels		11
Aluminum oxide precision cut-off wheels		12
Diamond precision cut-off wheels		13
CBN precision cut-off wheels		14
Saw blade cut-off wheel		15
Cutting		16
Premium cut-off wheels		17
Premium Silicon carbide cut-off wheels		18
Premium Aluminum oxide cut-off wheels		19-20
Premium Diamond cut-off wheels		21
Premium CBN cut-off wheels		22
Aluminum Oxide cut-off wheels		23
Coolant and anti-corrosion agent		24-25
Accessories & Tools		25
Filter systems		26-27



CONSUMABLES FOR MOUNTING

Consumables for mounting		28-51
Mounting		30-31
Hot mounting		32
EPO BLACK hot mounting material		33
EPO-MAX hot mounting material		33
DUROPLAST BLACK hot mounting material		34
THERMOPLAST hot mounting material		34
BAKELIT BLACK hot mounting material		35
BAKELIT GREEN hot mounting material		35
BAKELIT RED hot mounting material		36
Accessories & tools for hot mounting		37
Cold mounting		38
KEM 15 PLUS cold mounting material		39
KEM 20 cold mounting material		39
KEM 30 cold mounting material		40
KEM 35 cold mounting material		41
Qprep SEM 5000 cold mounting material		42
KEM 60 cold mounting material		42
Qpox 90 cold mounting material		43
Qpox 92 cold mounting material		44
Qpox 94 cold mounting material		45
Vacuum infiltration and pressure devices		46
UV mounting		47
Qprep UV 50 UV mounting material		47
Qprep UV 55 UV mounting material		48
Accessories and tools for cold and UV mounting		49
Cold mounting moulds		50-51



CONSUMABLES FOR GRINDING

Solution Boxes		52-55
Solution Boxes		52-55
Consumables for grinding		56-81
Grinding		58
Planar grinding stones		58
Diamond cup grinder		59
Grinding discs		60
Magnetic foil		61
GALAXY diamond grinding disc		62-63

POLARIS M diamond grinding disc	64
POLARIS H diamond grinding disc	65
QUASAR diamond grinding disc	66
VEGA diamond grinding disc	67
CONTERO fine grinding discs	68
Grinding papers and foils	69
Adhesive carrier disc	70
Silicon carbide grinding foils	71
Silicon carbide grinding paper with foil backing	72-73
GALAXY X-Tap	74
Silicon carbide grinding papers, self-adhesive	75-76
Zirconia alumina grinding papers, self-adhesive	76
Quick-Tap	77
Silicon carbide grinding papers without adhesive/ foil backing	78-79
Grinding papers for Qpol 30	80
Grinding belts for Qgrind 100	81



CONSUMABLES FOR POLISHING

Consumables for polishing	82-103
Polishing	84
Diamond Suspensions	84
DIA-COMPLETE Poly, all-in-one diamond suspension	85
DIA-COMPLETE Mono, all-in-one diamond suspension	86
Diamond suspension polycrystalline	87
Diamond suspension monocrystalline	88
Diamond suspension (alcohol-based / oil-based)	89
Spray nozzle	90
Dosing bottle	90
Diamond spray and diamond paste	91
Diamond lubricants	92
Fine polishing suspensions	93
Polishing cloths	94
Magnetic foil for GALAXY polishing cloths	95
GALAXY polishing cloths	96-98
GALAXY X-Tap	99
Polishing cloths, self-adhesive	100-102
Media carrier plate	103
Filter inserts	103



CONSUMABLES FOR ETCHING AND ANALYZING

Consumables for etching and analyzing	104-111
Etching	106-108
Analyzing	108-111



CONSUMABLES FOR HARDNESS TESTING

Consumables for hardness testing	112-134
Hardness test blocks	114
Hardness test blocks Brinell	115
Hardness test blocks Knoop	118
Hardness test blocks Rockwell	122
Hardness test blocks Vickers	125
Indenters	133-134

Disclaimer

- | We reserve the right to affect technical changes as well as price adjustments due to technical progress. All listings in our price list are based on our General Terms for Delivery and Payment.
- | This price list covers only the current versions of products.
- | The images may show accessories which may not be part of the standard delivery scope.
- | Our warranty period is product related.
- | General Terms and Conditions: www.qatm.com/terms.
- | All prices are FCA Mammelzen, QATM price list 2024/E, valid as of 1st January 2024





Consumables for cutting



Precision cutting

Precision cutting enables cutting directly next to significant analysis areas and also for materials with particularly complex material properties. Precision cut-off wheels are significantly thinner than larger diameter cut-off wheels. With QPREP, you can choose from aluminum oxide, silicon carbide, diamond or CBN abrasives. The abrasives can be either electroplated, resin bonded, rubber bonded or bronze bonded. QPREP precision cut-off wheels are the ideal solution for cutting requirements with high surface quality and exact cutting accuracy.

PRODUCT ADVANTAGES

- Minimal material loss due to thin cut-off wheel thickness
- Allows cutting closer to the desired surface
- Allows cutting of small, sensitive, and very brittle specimens

RECOMMENDED APPLICATIONS

- Target and defect preparation
- Electronic component segmentation
- Preparing for thin sectioning specimens

ARBOR SIZE AND WHEEL DIAMETER (MAX.) FOR QATM PRECISION CUT-OFF MACHINES

Cut-off machine	Arbor size	Wheel diameter (max.)
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 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			
DIAMOND PRECISION CUT-OFF WHEELS					
Ø	Thickness	Arbor Size	Grain size	Concentration	Bond
• for universal application					
92002397	1 Pc.	75 mm	0.3 mm	12.7 mm	D181 HC bronze
92002401	1 Pc.	100 mm	0.3 mm	12.7 mm	D181 HC bronze
92002405	1 Pc.	125 mm	0.5 mm	12.7 mm	D213 HC bronze
92002409	1 Pc.	150 mm	0.5 mm	12.7 mm	D213 HC bronze
NEW 95016591	1 Pc.	175 mm	0.65 mm	12.7 mm	D213 HC bronze
NEW 95004814	1 Pc.	200 mm	0.5 mm	12.7 mm	D213 HC bronze
• for glass, minerals and brittle structural ceramics					
92002398	1 Pc.	75 mm	0.3 mm	12.7 mm	D181 LC bronze
92002402	1 Pc.	100 mm	0.3 mm	12.7 mm	D181 LC bronze
92002406	1 Pc.	125 mm	0.5 mm	12.7 mm	D213 LC bronze
92002410	1 Pc.	150 mm	0.5 mm	12.7 mm	D213 LC bronze
NEW 92006368	1 Pc.	200 mm	0.6 mm	12.7 mm	D213 LC bronze
• for hard metals and hard ceramic materials					
NEW 95010518	1 Pc.	150 mm	0.5 mm	12.7 mm	D213 LC bronze
NEW 95008773	1 Pc.	150 mm	0.5 mm	12.7 mm	D213 LC resin
95015121	1 Pc.	200 mm	1.0 mm	12.7 mm	D151 LC bronze
• for assembled printed circuit boards and filigree component geometries					
92002400	1 Pc.	75 mm	0.3 mm	12.7 mm	D91/107 HC bronze
92002404	1 Pc.	100 mm	0.3 mm	12.7 mm	D91/107 HC bronze
92002408	1 Pc.	125 mm	0.5 mm	12.7 mm	D91/107 HC bronze
92002412	1 Pc.	150 mm	0.5 mm	12.7 mm	D91/107 HC bronze
• for mounted samples, composites, CFRP, GFRP and plastics					
NEW 95007077	1 Pc.	200 mm	1.2 mm	12.7 mm	D126 LC galvanic

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

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

RECOMMENDED APPLICATIONS

- | Separation of relevant inspection areas
- | Plane-parallel segmentation of semi-finished products and components
- | Investigation of geological and mineralogical samples

AS A RULE, THE FOLLOWING PRINCIPLE APPLIES:

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

ARBOR SIZE AND WHEEL DIAMETER (MAX.) FOR QATM CUT-OFF MACHINES

Cut-off machine	Arbor size	Wheel diameter (max.)
Brillant 230	32 mm	305 mm/12"
Brillant 255	32 mm	406 mm/16"
Qcut 250 M	32 mm	254 mm/10"
Qcut 250 A	32 mm	254 mm/10"
Qcut 350 A	32 mm	356 mm/14"
Qcut 400 A	32 mm	406 mm/16"
Qcut 500 A	32 mm	508 mm/20"
Qcut 600 A	32 mm	610 mm/24"
Qcut 600 BOT	32 mm	610 mm/24"

Notes

Premium cut-off wheels

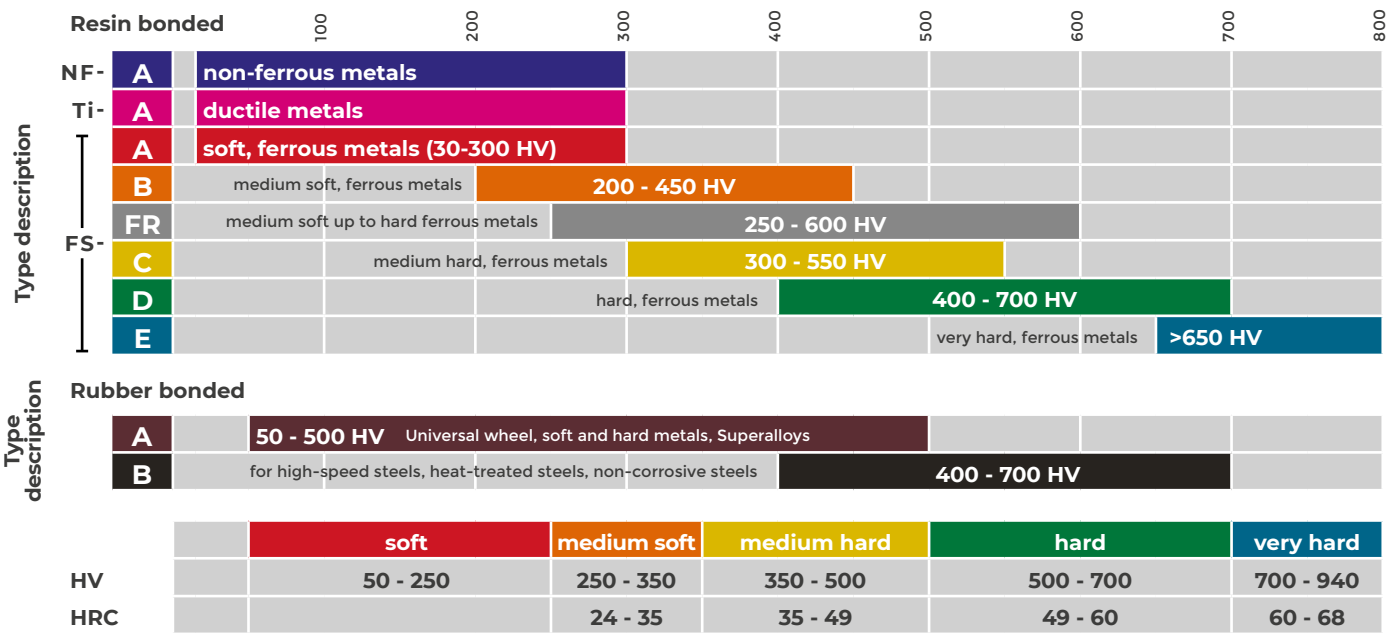
Significant properties for cut-off wheels are wear (i.e., abrasion resistance), long lifetime and cutting performance. Characteristics of the wheel composition are the abrasive used (aluminum oxide, silicon carbide, diamond, cubic boron nitride (CBN)) and the bond type (metal, resin or rubber). The goal of any cut is to separate the material with minimal deformation and temperature effect. For a clean cut, the abrasive particles and bond type of the cut-off wheel should be matched to the material being cut.

QPREP Premium cut-off wheels offer the optimal solution for a wide range of applications.

- | Achieve a fine cutting surface
- | Wide range of cut-off wheels for cutting all materials
- | The best cutting function fitting to the material
- | Low deformation and temperature during the cutting process
- | Very good cutting performance with long lifetime

The color coding of the premium cut-off wheels enables quick, visual assignment and identification of the several types:

CUT-OFF WHEEL SELECTION ACCORDING TO MATERIAL HARDNESS



Notes

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			
PREMIUM SILICON CARBIDE CUT-OFF WHEELS BOND: RESIN					
		Ø	Thickness	Arbor Size	
Type NF-A, Purple					
• for non-ferrous metals (30-300 HV)					
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	
Type Ti-A, Pink					
• for titanium and alloys, refractory metals (30-300 HV)					
NEW	92002417	10 Pcs.	230 mm	1.5 mm	32 mm
	95012530	10 Pcs.	250 mm	1.5 mm	32 mm
	95012537	10 Pcs.	300 mm	2.0 mm	32 mm
NEW	92002427	10 Pcs.	350 mm	2.5 mm	32 mm
NEW	92002428	10 Pcs.	400 mm	3.0 mm	32 mm

Notes

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 allows dull abrasive particles to break out evenly during the cutting process

RECOMMENDED APPLICATIONS

- | Cutting of all materials
- | Cutting of polymers with the hard-bonded cut-off wheel **FS-A**
- | FS-FR low-wear cut-off wheel in the 250 to 600 HV range, especially suitable for manual cutting
- | 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-FR, fabric reinforced (250-600 HV)

• for medium soft to hard steels
> 30% wear reduction

NEW	95017540	10 Pcs.	250 mm	1.5 mm	32 mm
NEW	95017541	10 Pcs.	300 mm	2.0 mm	32 mm
NEW	95017542	10 Pcs.	350 mm	2.5 mm	32 mm
NEW	95017543	10 Pcs.	400 mm	3.0 mm	32 mm

Item No.	Unit	Description		
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		
Type FS-D, Green				
• 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		
Type FS-E, Blue				
• 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		
PREMIUM ALUMINUM OXIDE CUT-OFF WHEELS				
BOND: RUBBER				
		Ø	Thickness	Arbor Size
Type A, Brown				
• 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

Item No.	Unit	Description		
Typ B, Black				
• 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	Grain size	Concentration
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• for ceramic materials

92002452	1 Pc.	250 mm	1.2 mm	32 mm	D181	LC
92002453	1 Pc.	300 mm	1.6 mm	32 mm	D181	LC
95003433	1 Pc.	350 mm	1.6 mm	32 mm	D181	LC
92008751	1 Pc.	400 mm	2.4 mm	32 mm	D181/213	LC

• for composite materials (hard/soft combinations)

95002102	1 Pc.	250 mm	1.3 mm	32 mm	D126/151	HC
92004719	1 Pc.	300 mm	1.3 mm	32 mm	D126/151	HC
92008619	1 Pc.	350 mm	1.4 mm	32 mm	D126/151	HC
95006793	1 Pc.	400 mm	1.3 mm	32 mm	D126/151	HC

other diameters on request

PREMIUM DIAMOND CUT-OFF WHEELS BOND: RESIN

Ø	Thickness	Arbor Size	Grain size	Concentration
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• for hard metals, generally for materials of high hardness

92002451	1 Pc.	250 mm	1.2 mm	32 mm	D126/151	HC
92002454	1 Pc.	300 mm	1.6 mm	32 mm	D126	HC
95003049	1 Pc.	350 mm	1.6 mm	32 mm	D126	HC
95010131	1 Pc.	400 mm	1.6 mm	32 mm	D126	HC

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 C is universally applicable for materials with high and very high hardnesses
- | Type-D for cutting medium-hard materials and case-hardened steel
- | Type-I for cutting mild steel and cast materials

Item No.	Unit	Description		
ALUMINUM OXIDE CUT-OFF WHEELS				
BOND: RESIN				
		Ø	Thickness	Arbor Size
Type C				
• universal wheel for materials of high to very high hardness				
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
Type D				
• universal wheel for medium hard materials, case-hardened steels				
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
Type I				
• 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

Notes

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

- | Cutting additive for all and especially corrosive 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
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ATM-COOLCUT, ENVIRONMENT- AND USER-FRIENDLY

Mixing ratio 1:25 (4%) – 1:17 (6%) / refractometer: 2.0%/°Bx

RECOMMENDATION

- for steel, cast iron, light and non-ferrous metal, glass and ceramics, composites
- free of oil, boron, nitride and formaldehyde
- optimized anti-corrosion protection and cutting properties

95004145	1 l	ATM-CoolCut, concentrate
95004146	5 l	ATM-CoolCut, concentrate
95004147	10 l	ATM-CoolCut, concentrate

ANTI CORROSION COOLANT FOR POLYMERS AND COMPOSITES

Mixing ratio: 1:66 (1.5%) - 1:33 (3%) / refractometer: 2.4%/°Bx

- optimized for polymers and composites
- free of nitride and oil
- also suitable for steels, non-ferrous metals, ceramics and glasses

95007864	1 l	Concentrate
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ANTI CORROSION COOLANT, STANDARD

Mixing ratio 1:35 / refractometer: 1.4%/°Bx

- for steel, cast iron, non-ferrous metal

95014280	1 l	Concentrate
95014281	5 l	Concentrate
95014282	10 l	Concentrate

Item No.	Unit	Description
COOLING AGENT ADDITIVES		
ATM-CoolAdd CU		
95008731	1 l	ATM-CoolAdd CU, additive for cutting of non-ferrous materials like Cu and its alloys. Mixing concentration in aqueous coolant approx. 0.05 - 0.2%
Defoaming agent		
95014584	200 ml	Defoaming agent, additive for water-based coolants Mixing concentration in aqueous coolant approx. 0.005 - 0.05%
95014583	1 l	Defoaming agent, additive for water-based coolants Mixing concentration in aqueous coolant approx. 0.005 - 0.05%
ATM-PreClean		
92006502	1 kg	ATM-PreClean, cleaning concentrate/system cleaner for circulating cooling units and cutting machines

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
ACCESSORIES FOR MAINTENANCE AND CARE OF COOLANTS		
Maintenance and testing set		
95007866	1 Set	Maintenance and testing set for anti-corrosion coolant (case with handheld refractometer, plastic cup for extraction of sample, test strips, thermometer)
Accessories for maintenance and testing set		
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



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



ACCESSORIES FOR CUT-OFF WHEELS		
Dressing stone		
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		
FILTER INSERTS				
			Dimensions	Mesh size
for Brillant 255 / Qcut 400 A (Brillant 265) / Brillant 270 / Qcut 500 A (Brillant 275) / Brillant 280				
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
for recirculation cooling system 45 Ltr. (until year of construction 2012)				
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
for recirculation cooling system 45 Ltr. (from year of construction 2013)				
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


NEW

Z5800008	1 Pcs.	Filter Basket	140 x 80 x 200 mm
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FILTER BASKET

Dimensions (WxHxD)

Hanging basket made of stainless steel for the collection of the chip abrasion

- can be hooked into 45 liter recirculating cooling unit





Consumables for mounting



Mounting

Mounting is a process used to prepare specimens for materialographic preparation and analysis. The sample to be examined is encapsulated in a solid or liquid mounting compound. After curing, the mounting compound forms a protective shell around the sample. This allows for easier handling of fragile specimens, transforms multiple specimens of different geometries into uniform shapes of the same dimensions, and provides better edge retention of the specimens.

Depending on the laboratory facilities and the requirements of the resin, different mounting methods can be used. There are hot mounting, cold mounting, and light-induced mounting.

Hot mounting



- | Hot mounting is carried out in hot mounting presses at high pressures and temperatures.
- | Thermosetting mounting materials for high hardness and thermoplastic mounting materials for transparent mountings are available as hot mounting materials.
- | Hot mounting provides the best edge retention and planarity and is ideal for wet chemical etching.
- | QPREP cold mounting materials are suitable for heat- or pressure-sensitive samples.

Cold mounting



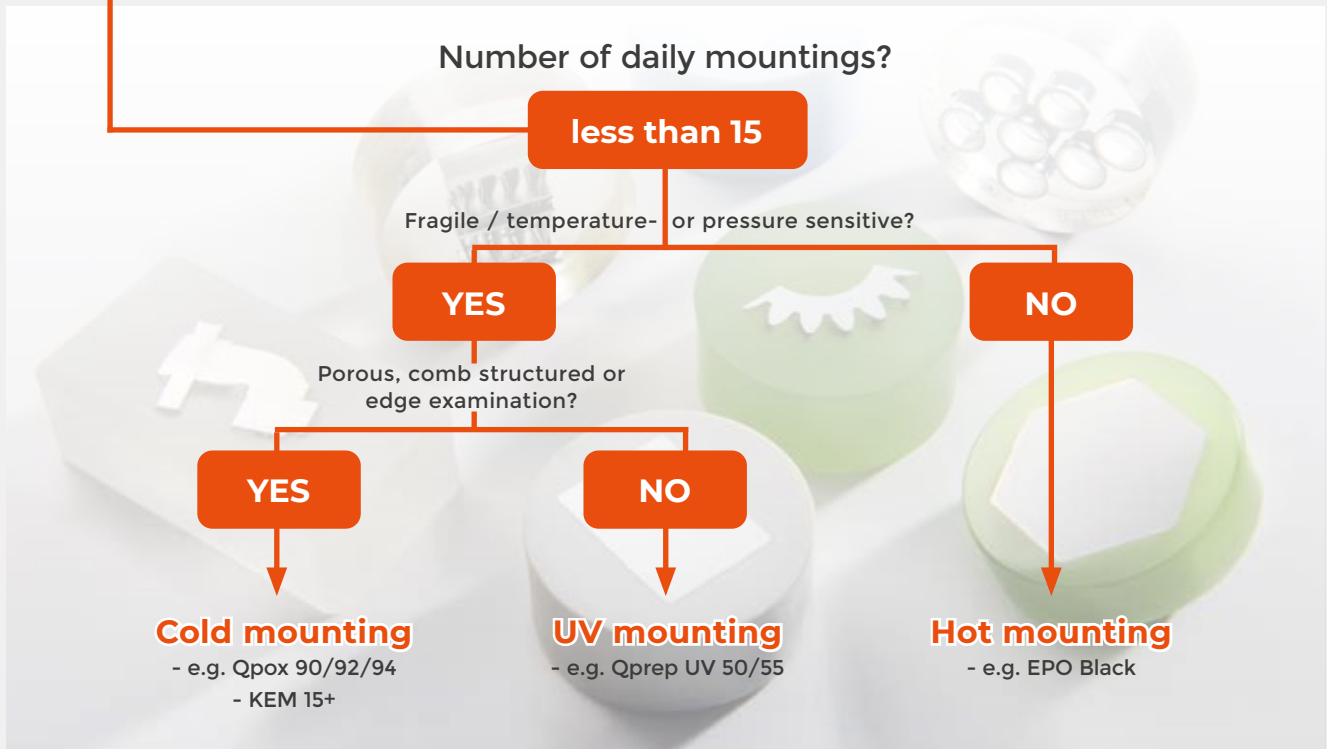
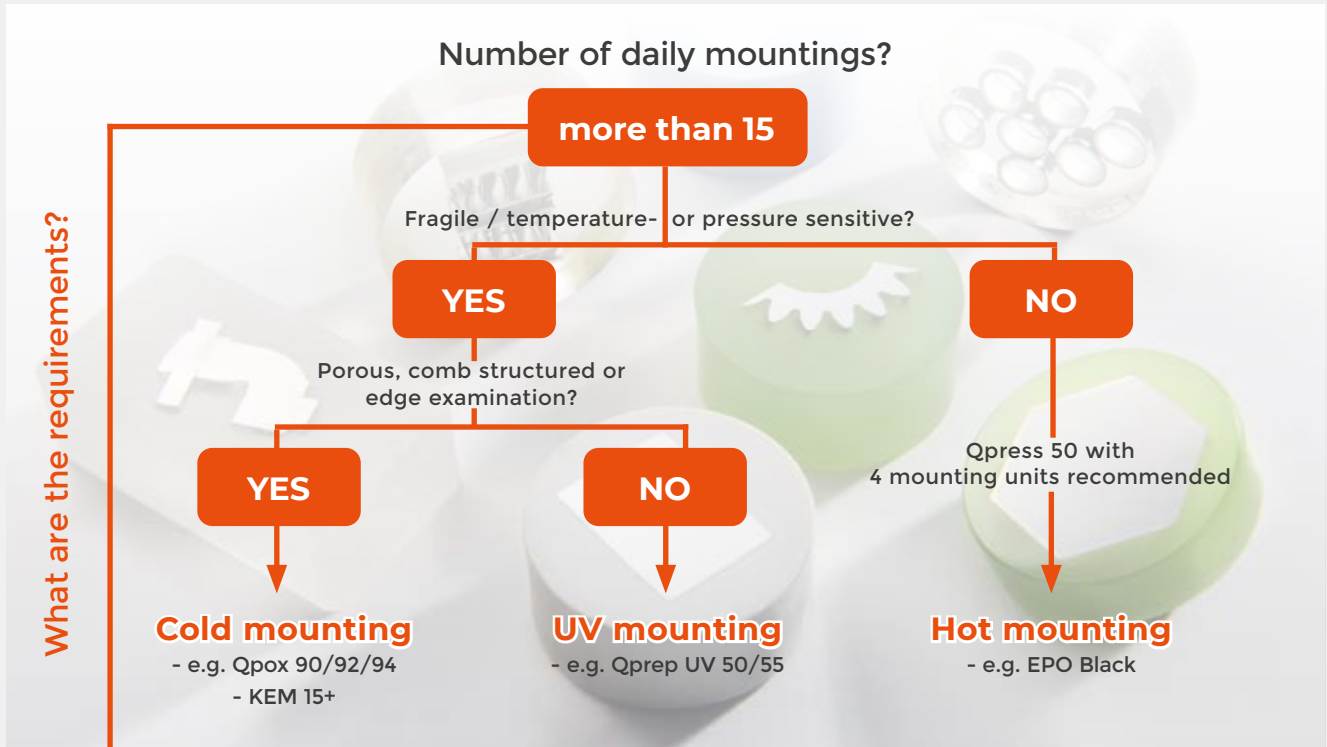
- | Cold mounting uses chemical reactions to cure the mounting material, with acrylic resins, epoxy resins, and polyester resins available.
- | The selection is based on properties such as reaction time, removal rate, and hardness.
- | Cold mounting can be used for a variety of sample materials and shapes in various sizes.

UV mounting



- | UV mounting materials consist of filler-free modified acrylic resins.
- | They are cured under UV irradiation at a narrow wavelength range and require specially designed equipment.
- | The present UV initiators absorb UV radiation for the initiation of the reaction.
- | UV mounting is the fastest method without the need for high pressures or external heat.
- | The 1-component systems used do not require mixing, result in transparent mountings, and enable safe work in the laboratory.

Selection of the mounting method



Hot mounting is necessary for:
 - Plane parallel mounting of particular hard materials
 - Edge examination and hardness profiles (CHD, NHD & SHD)

Hot mounting

Hot mounting is a process that involves compressing materialographic specimens in ground resin granules in a plane-parallel manner with the aid of a closed cylinder.

The hot mounting technique ensures high edge retention, provides an optimal edge protection. Due to the gap-free adhesion to the specimen surface it is particularly suitable for wet chemical etching after Polishing. With the Qpress 50 hot mounting press, even higher specimen throughputs can be efficiently hot mounted due to its modular design. For heat- or pressure-sensitive specimens, we recommend mounting using QPREP cold mounting media.

QPREP hot mounting materials are specifically chosen plastic granules consists of various base polymers.

BENEFITS

- | Good edge retention
- | High degree of hardness of the mounting material
- | High plane parallelism
- | Easy sample marking by engraving or labelling

PROPERTIES OF HOT MOUNTING MATERIALS

Mounting material	Recommended Application	Basis/ Filler	Hardness (Shore D)	Removal rate (grindability)
EPO BLACK	High edge retention, edge examination, medium-hard to hard materials	Epoxy resin/ mineral and glass fibre	93	very low
EPO-MAX	High edge retention, edge examination, medium-hard to hard materials, easy cleaning of mould and ram due to low adhesion	Epoxy resin/mineral	93	very low
DUROPLAST BLACK	Conductive, SEM-analysis, electrolytic polishing	Phenolic resin/ graphite	89	medium
THERMOPLAST	Transparent mounting, targeted preparation, good for padding, marking	Acrylic resin	86	medium
BAKELIT BLACK	Routine work, soft to medium-hard materials, good for padding	Phenolic resin/ wood flour and graphite	90	medium
BAKELIT GREEN	Routine work, soft to medium-hard materials, good for padding	Phenolic resin/ wood flour and magnesium oxide	90	medium
BAKELIT RED	Routine work, soft to medium-hard materials, good for padding	Phenolic resin/ wood flour and boric acid	90	medium

Notes

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
HOT MOUNTING MATERIAL EPO BLACK		
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
HOT MOUNTING MATERIAL EPO-MAX		
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. 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
HOT MOUNTING MATERIAL DUROPLAST BLACK		
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
HOT MOUNTING MATERIAL THERMOPLAST		
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. 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
HOT MOUNTING MATERIAL BAKELIT BLACK		
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. It is suitable for general materialographic applications.



PRODUCT ADVANTAGES

- | Very convenient for filling in combination with other hot mounting material
- | Suitable for color coding
- | 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
HOT MOUNTING MATERIAL BAKELIT GREEN		
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

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-mounted 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 with methyl methacrylate or MMA-free as well as 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
Qprep SEM 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
Qpox 90	Mounting using vacuum, sensitive and brittle materials	Epoxy resin	approx. 16-24 h	at room temperature up to approx. 60 °C	79	high
Qpox 92	Vacuum impregnation, brittle and heat sensitive materials, porous materials	Epoxy resin	approx. 12-13 h	at room temperature up to approx. 35 °C	81	medium
NEW Qpox 94	Vacuum infiltration of porous and sensitive materials and surfaces, metal foams, ceramic substrates, samples with corrosion deposits	Epoxy resin	approx. 9 h (at room temperature), approx. 3 h (at 45 °C)	at room temperature up to 90-100 °C, in oven at 45 °C up to 140 °C	80	high
Qprep UV 50	For standard samples, soft to medium hard materials, targeted preparation	Modified methacrylate	approx. 60 s	approx. 90 °C	83	high
NEW Qprep UV 55	Mounting with lower gap formation of standard samples, soft to medium-hard materials, specimen preparation and surface inspection	Modified methacrylate	up to 10 minutes	approx. 95 °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
COLD MOUNTING MATERIAL KEM 15 PLUS		
Basis: Methyl methacrylate		
<ul style="list-style-type: none"> • blue, opaque • 2-component system: powder + liquid (1.5:1 [Vol.-%]) 		
95012019	1 Set	1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons: 13 ml and 20 ml
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 mountings can be realized when curing under overpressure.



PRODUCT ADVANTAGES

- | Feasibility of transparent mountings 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
COLD MOUNTING MATERIAL KEM 20		
Basis: Methyl methacrylate		
<ul style="list-style-type: none"> • feasibility of transparent mountings by means of pressure unit • 2-component system: powder + liquid (2:1 [Vol.-%]) 		
95013990	1 Set	1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons: 13 ml, oval
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
COLD MOUNTING MATERIAL KEM 30		
Basis: Methyl methacrylate		
<ul style="list-style-type: none"> • green, semi-transparent • 2-component system: powder + liquid (2:1 [Vol.-%]) 		
95012021	1 Set	1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons: 13 ml, oval
92004080	1 kg	Powder
92004082	5 kg	Powder
92004081	500 ml	Liquid
92004083	1 l	Liquid
92002540	2.5 l	Liquid



Qprep SEM 5000

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

NEW NAME - SAME PERFORMANCE



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
COLD MOUNTING MATERIAL QPREP SEM 5000		
Basis: Modified methyl methacrylate		
<ul style="list-style-type: none"> • 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

COLD MOUNTING MATERIAL QPREP SEM 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 mounting 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
COLD MOUNTING MATERIAL KEM 60		
Basis: Tetrahydrofurfuryl-2-methacrylate		
<ul style="list-style-type: none"> • red, MMA-free • 2-component system: powder + liquid (2:0.9 [weight-%]) 		
95014004	1 Set	1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons: 13 ml, oval
95013184	1 kg	Powder
95013185	5 kg	Powder
95013187	500 ml	Liquid

COLD MOUNTING MATERIAL KEM 60

Basis: Tetrahydrofurfuryl-2-methacrylate

- red, MMA-free
- 2-component system: powder + liquid (2:0.9 [weight-%])

95014004	1 Set	1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons: 13 ml, oval
95013184	1 kg	Powder
95013185	5 kg	Powder
95013187	500 ml	Liquid



Qprep Qpox 92

QPREP Qpox 92 is a highly transparent two-component cold mounting material on epoxy resin. It is very well suited for specimens with filigree and complex geometries. In addition, Qpox 92 is particularly recommended for mounting materials with temperature-sensitive surfaces and for target preparations.

NEW NAME - SAME PERFORMANCE



PRODUCT ADVANTAGES

- | Very good transparency
- | Very low gap formation
- | Low viscosity
- | Suitable for vacuum infiltration
- | Curing temperature: RT to approx. 35°C
- | Curing time: 12-13 h (50% faster than Qpox 90)
- | Hardness (Shore D): 81
- | Removal rate: Medium

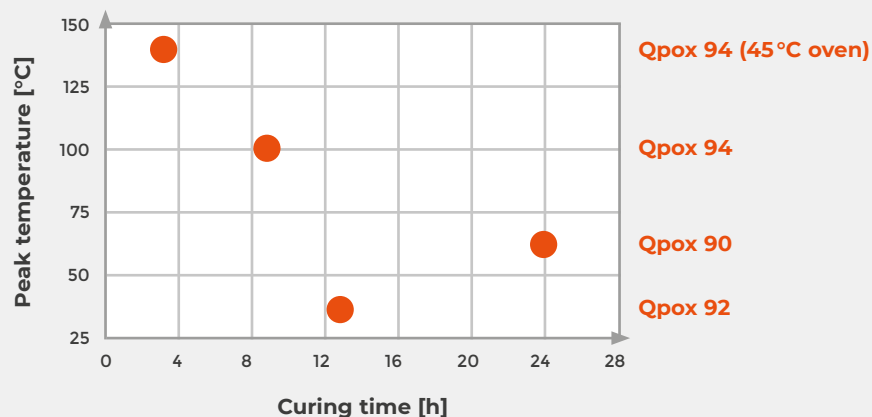
RECOMMENDED APPLICATIONS

- | Routine mounting
- | Applicable for a wide range of materials
- | Target preparations of defects in coating surfaces
- | 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
COLD MOUNTING MATERIAL QPOX 92		
Basis: Epoxy resin		
<ul style="list-style-type: none"> • transparent, suitable for vacuum infiltration • 2-components-system: resin + hardener (4:1 [weight-%]) 		
95017316	1 Set	1 l resin, 250 ml hardener 40 mixing cups, 40 mixing sticks
95016854	1 l	Resin
95016855	250 ml	Hardener



Epoxy resins comparison chart



Qprep Qpox 94

QPREP Qpox 94 is a low-viscosity and transparent two-component epoxy-based cold mounting resin, ideal for samples with delicate and complex geometries. It is particularly suitable for sensitive and porous surfaces as well as target preparations. With a curing time of about 9 hours Qpox 94 allows transparent and gap-free mounting and preparation on the same day.


NEW

PRODUCT ADVANTAGES

- | Excellent adhesion and very low gap formation
- | Very good transparency
- | Low-bubble mountings
- | Low viscosity
- | Suitable for vacuum infiltration

- | Curing temperature: RT up to 45°C ($T_{max} = 100^{\circ}\text{C}$ to 140°C)
- | Curing time: 9 h at RT (up to 65% faster than Qpox 90, 25% faster than Qpox 92), 3 h at 45°C
- | Hardness (Shore D): 80
- | Removal rate: High

RECOMMENDED APPLICATIONS

- | Low-gap and transparent preparations on the same day
- | Can be used for a wide range of materials
- | For vacuum infiltration of porous materials and material surfaces, such as metal foams, porous ceramic support material or samples with corrosion layers
- | Mountings and target preparations of assembled PCBs
- | For filigree and sensitive specimens of more complex geometries and low-hardness workpieces

Item No.	Unit	Description
UP TO 65% FASTER THAN QPOX 90		COLD MOUNTING MATERIAL QPOX 94 Basis: Epoxy resin • transparent, suitable for vacuum infiltration • 2-components-system: resin + hardener (2:1 [weight-%])
NEW 95017538	1 Set	1 l resin, 500 ml hardener 40 mixing cups, 40 mixing sticks
NEW 95017496	1 l	Resin
NEW 95017497	500 ml	Hardener



Qnote

to Qpox 94: For optimal mounting results, an accurate mixing ratio is crucial (2:1 by weight). The pot life of one hour favors the infiltration of porous materials. The curing time can be reduced from 9-10 hours to around 2-3 hours (depending on the amount of epoxy resin used) by slight heating to approximately 45-50°C. It should be noted that heating results in an increase in peak temperature within the resin and a reduced pot life.



Notes

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 device offers a solution for mounting under vacuum.

For transparent cold mounting 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 mounting 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 mounting possible with methyl methacrylate

RECOMMENDED APPLICATIONS

- | Infiltration device for mounting porous samples with epoxy resin (Qpox 90 / 92 / 94)
- | Pressure device for mounting with methyl methacrylate (KEM 15, 20, 30, 35, 60 and Qprep SEM 5000)

Item No.	Unit	Description
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INFILTRATION UNIT

- for cold mounting, pouring and hardening using vacuum
- recommended for Epoxy resin Qpox 90 / 92 / 94

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
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PRESSURE EQUIPMENT QPREP PRESSURE

Pressure Equipment Qprep Pressure for bubble free hardening of methyl methacrylates (for mounting with KEM 15, 20, 30, 35, 60 and Qprep SEM 5000)

- compressed air required (approx. 6 bar)

95016569	1 Pc.	Pressure Equipment Qprep Pressure, dimensions: B340 x W340 x H255 mm
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Notes

UV mounting

If transparent mounting of a specimen within 1-5 minutes without high heat input or pressure is desired, light-curing mounting 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 UV 50

QPREP UV 50 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
		UV MOUNTING MATERIAL QRPEP UV 50
		Basis: Modified methacrylate
		<ul style="list-style-type: none"> • transparent • 1-component system
95016840	1 l	All-in-one liquid



Qprep UV 55

QPREP UV 55 is a low-viscosity and light-curing, acrylic-based UV mounting resin. It is ideal for transparent routine mounting of soft to medium-hard materials. Curing is carried out with UV irradiation in the Qmount UV mounting device within 10 minutes. The special composition enables mountings with reduced gaps, which enables preparation of coated and surface-treated materials.



PRODUCT ADVANTAGES

- | Clear, colorless and low viscosity for improved flow
- | Very good transparency
- | Reduced gap formation (up to 70% less than QPREP UV 50)
- | Good abrasion resistance and mechanical machinability
- | 1-component-system
- | No dangerous good
- | Curing temperature: ~95°C
- | Curing time: up to 10 min
- | Hardness (Shore D): 83
- | Removal rate: High

RECOMMENDED APPLICATIONS

- | Highly transparent routine mounting, for example
- | High sample throughput
- | Target preparation
- | Surface coated and treated materials of low to medium hardness



Item No.	Unit	Description
UP TO 70% REDUCED GAP FORMATION COMPARED TO QPREP UV 50		UV MOUNTING MATERIAL QPREP UV 55
		Basis: Modified methacrylate
		• transparent • 1-component system
NEW	95017495	1 l All-in-one liquid

Qnote

to QPREP UV 55: The peak temperature reached during curing can be reduced for temperature-sensitive samples by using slightly cooled resin or layer-by-layer pouring and curing. Curing time and peak temperature may vary depending on sample size and may be lower for smaller mounting moulds. Rough and porous surfaces infiltrated via vacuum assistance due to the low viscosity of QPREP UV 55. This allows for better adhesion. QPREP UV 55 is ideal for water-based preparations and is resistant to alcohol and acids, but exposure to alcohol should be kept to a minimum.



Item No.	Unit	Description
COLD MOUNTING MOULDS FOR UV MOUNTING		
Polypropylene round		
• with exchangeable bottom		
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, for 4 samples, sample thickness <1 mm, blau
92002625	100 Pcs.	Ø 30 mm, for 4 samples, sample thickness <2 mm, grau
92002624	100 Pcs.	Ø 30 mm, for 3 samples, sample thickness <3 mm, weiß



TRANSPARENT MOUNTING AID

95016787	10 Pcs.	Ø 35 mm, for 4 samples, sample thickness <1 mm
95016788	50 Pcs.	Ø 35 mm, for 4 samples, sample thickness <1 mm
95016789	100 Pcs.	Ø 35 mm, for 4 samples, sample thickness <1 mm
95016790	10 Pcs.	Ø 35 mm, for 4 samples, sample thickness 1-2 mm
95016791	50 Pcs.	Ø 35 mm, for 4 samples, sample thickness 1-2 mm
95016792	100 Pcs.	Ø 35 mm, for 4 samples, sample thickness 1-2 mm
95016793	10 Pcs.	Ø 35 mm, for 3 samples, sample thickness 2-3 mm
95016794	50 Pcs.	Ø 35 mm, for 3 samples, sample thickness 2-3 mm
95016795	100 Pcs.	Ø 35 mm, for 3 samples, sample thickness 2-3 mm
95016796	10 Pcs.	Ø 35 mm, for 2 samples, sample thickness 3-4 mm
95016797	50 Pcs.	Ø 35 mm, for 2 samples, sample thickness 3-4 mm
95016798	100 Pcs.	Ø 35 mm, for 2 samples, 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
COLD MOUNTING MOULDS		
Silicon rubber round, beveled edge		
• not suitable for light curing		
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
Silicon rubber square, beveled edge		
• not suitable for light curing		
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
Polypropylene round		
• suitable for light curing • with exchangeable bottom		
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
COLD MOUNTING MOULDS		
Polyethylene round		
<ul style="list-style-type: none"> • not suitable for light curing • with exchangeable bottom 		
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
PTFE round, beveled edge		
<ul style="list-style-type: none"> • not suitable for light curing • with exchangeable bottom 		
95017041	3 Pcs.	Ø 25 mm / H 23 mm
95017042	3 Pcs.	Ø 30 mm / H 25 mm
95017043	3 Pcs.	Ø 32 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
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	square
KEM 15 plus								
KEM 20								
KEM 30								
KEM 35								
Qprep SEM 5000								
KEM 60								
Qpox 90								
Qpox 92								
NEW Qpox 94								
Qprep UV 50								
NEW Qprep UV 55								

= 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.

11 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

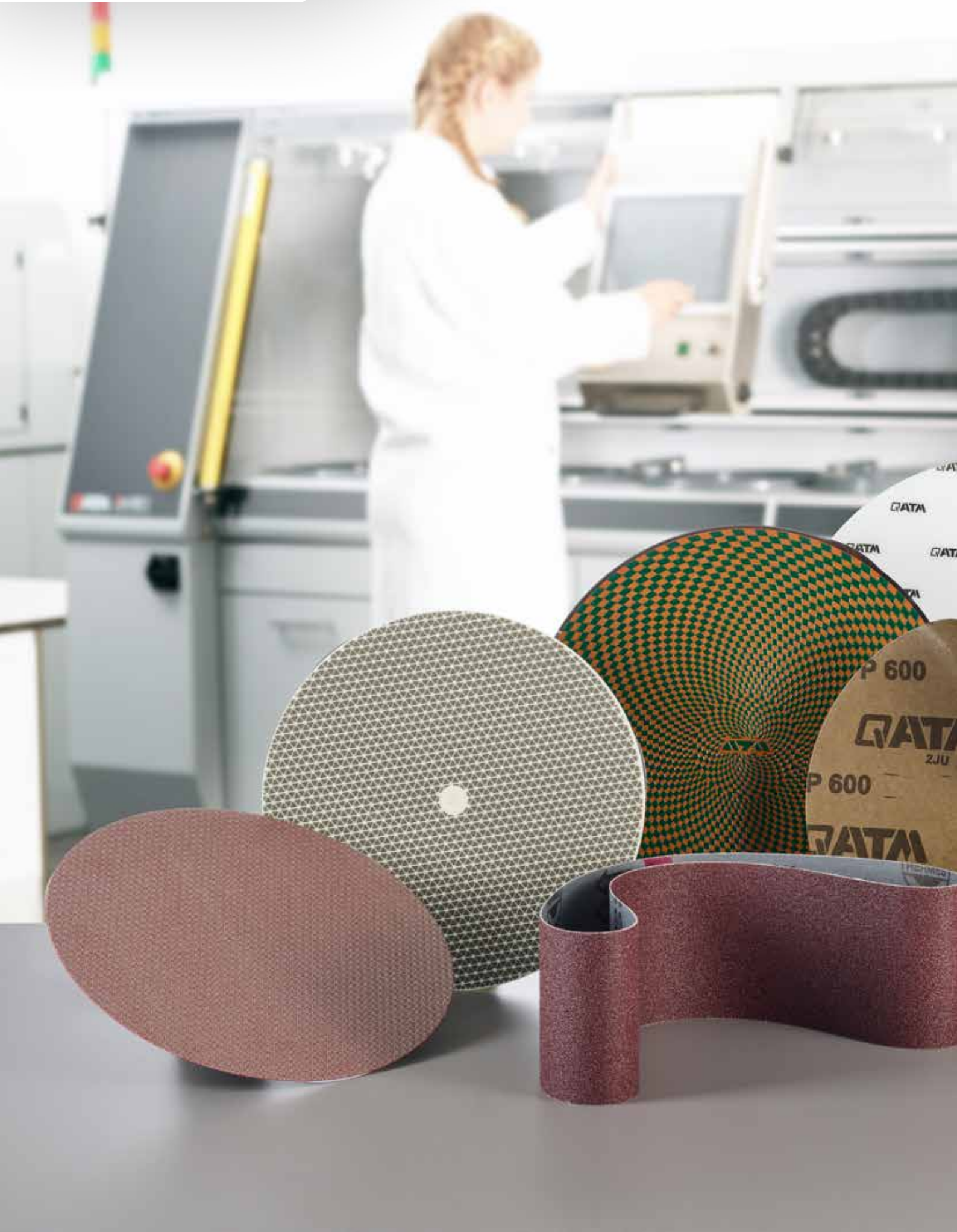
PRODUCT ADVANTAGES

- | 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
SOLUTION BOXES		
Set of consumables including preparation guide for respective materials		
Aluminum alloys		
95013883	1 Box	Solution Box Ø 250 mm
95013473	1 Box	Solution Box Ø 300 mm
Composites (CFC/GFC)		
95013894	1 Box	Solution Box Ø 250 mm
95013877	1 Box	Solution Box Ø 300 mm
Cast iron (GJS/GJL)		
95013898	1 Box	Solution Box Ø 250 mm
95013881	1 Box	Solution Box Ø 300 mm
Soft to medium-hard steel		
95013896	1 Box	Solution Box Ø 250 mm
95013879	1 Box	Solution Box Ø 300 mm
Medium-hard to hard steel		
95013884	1 Box	Solution Box Ø 250 mm
95013474	1 Box	Solution Box Ø 300 mm
Steel and welded steel (macro)		
95013893	1 Box	Solution Box Ø 250 mm
95013876	1 Box	Solution Box Ø 300 mm
Nitrided steel		
95013899	1 Box	Solution Box Ø 250 mm
95013882	1 Box	Solution Box Ø 300 mm



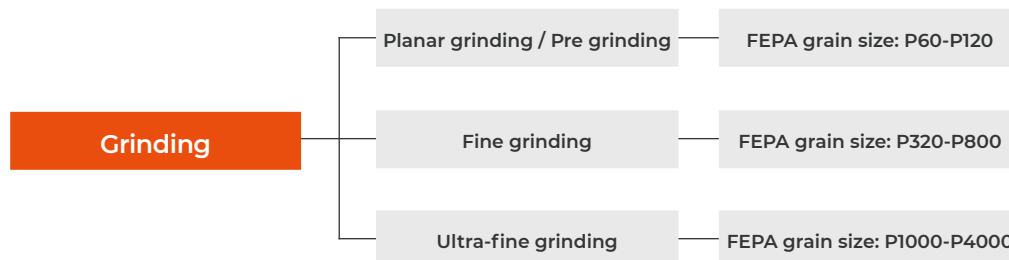


Consumables for grinding



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

Qprep Planar grinding stones

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



PRODUCT ADVANTAGES

- | Short machining time
- | Excellent planarity for all materials
- | Optimized removal rates with 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				
PLANAR GRINDING STONES FOR QGRIND XL						
		<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			
		White corundum grinding stone • for tool steel (hardened and not hardened), stainless steel, steel and cast iron				
95016741	1 Pc.	100 356 mm 126 mm 38 mm				
NEW 95017565	1 Pc.	150 356 mm 126 mm 38 mm				
		SIC grinding stone • for sintered materials (low- and unalloyed), aluminum, chilled cast iron, copper				
NEW 95016746	1 Pc.	80 356 mm 126 mm 38 mm				
95016747	1 Pc.	150 356 mm 126 mm 38 mm				
		Multi point dressing diamond for dressing face grinding stones				
95016897	1 Pc.	Multi point dressing diamond				



Item No.	Unit	Description																																									
PLANAR GRINDING STONES FOR SAPHIR 375 AND QPOL 300 BOT																																											
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95002223	1 Pc.	80	350 mm	90 mm	40 mm																																						
Inner diameter 120 mm on request																																											
Multi point dressing diamond for dressing face grinding stones																																											
92008759	1 Pc.	Multi point dressing diamond																																									

Qprep Diamond cup grinder

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

Item No.	Unit	Description																																																																																					
DIAMOND CUP GRINDER																																																																																							
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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 metallography.

PRODUCT ADVANTAGES

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

Range of grinding and polishing systems

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

Removal rate*

GALAXY	
POLARIS M	
POLARIS H	
QUASAR	
VEGA	

Surface quality*

GALAXY	
POLARIS M	
POLARIS H	
QUASAR	
VEGA	

*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	
MAGNETIC FOIL, SELF-ADHESIVE			
		∅	thickness
Magnetic foil, strong adhesion			
• to apply on working wheel			
95016345	1 Pc.	200 mm	1 mm
95016346	1 Pc.	250 mm	1 mm
95012161	1 Pc.	300 mm	1 mm
95014137	1 Pc.	350 mm	1 mm
Magnetic foil, strongest adhesion			
• to apply on working wheel			
• Increased magnetic adhesion by higher material thickness			
95016300	1 Pc.	250 mm	2 mm
95016301	1 Pc.	300 mm	2 mm



Applying the magnetic foil



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

Qprep GALAXY diamond grinding disc

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



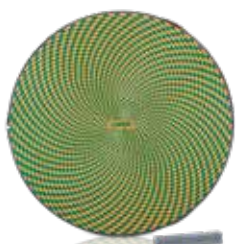
PRODUCT ADVANTAGES

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

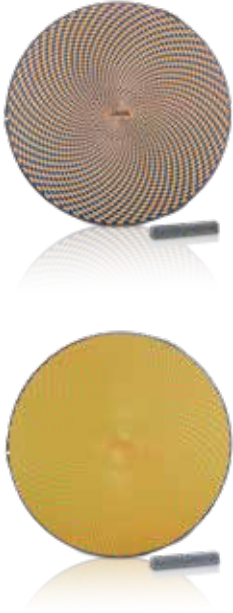
RECOMMENDED APPLICATIONS

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

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



Item No.	Unit	Description	
GALAXY DIAMOND GRINDING DISCS BOND: RESIN			
		Description	Ø
for medium to hard materials <ul style="list-style-type: none"> • fine grinding: blue (P400 – P600) • Fixation system: Magnetic foil 			
95005523	1 Pc.	GALAXY diamond grinding disc blue	200 mm
95004312	1 Pc.	GALAXY diamond grinding disc blue	250 mm
95004316	1 Pc.	GALAXY diamond grinding disc blue	300 mm
95013920	1 Pc.	GALAXY diamond grinding disc blue	350 mm
incl. dressing stone No. 95006603			
for medium to hard materials <ul style="list-style-type: none"> • fine grinding: yellow (P800 – P1000) • Fixation system: Magnetic foil 			
95005524	1 Pc.	GALAXY diamond grinding disc yellow	200 mm
95004313	1 Pc.	GALAXY diamond grinding disc yellow	250 mm
95004317	1 Pc.	GALAXY diamond grinding disc yellow	300 mm
95013921	1 Pc.	GALAXY diamond grinding disc yellow	350 mm
incl. dressing stone No. 95006603			



Grid to grain size conversion chart

The values provided are only intended as guidelines. Grit sizes are considered as a range, rather than a specific value. The Federation of European Producers of Abrasives, known as FEPA, and the American National Standards Institute, known as ANSI, as well as the Japanese Industrial Standards Committee (JISC) are the respective organizations that define these standards and are the basis for the conversion. QPREP abrasive paper conforms to the European FEPA P standard.

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

Qprep POLARIS M diamond grinding disc

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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



Notes

Qprep POLARIS H diamond grinding disc

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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



Notes

Qprep VEGA diamond grinding disc

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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



Qprep CONTERO fine grinding discs

QPREP Contero S is a general purpose fine grinding disc 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 lifetime
- | 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	
CONTERO S FINE GRINDING DISCS			
		Description	Ø
for soft to medium hard materials			
• Fixation system: Magnetic foil			
95013194	1 Pc.	Contero S fine grinding disc	250 mm
95013196	1 Pc.	Contero S fine grinding disc	300 mm



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

Notes

Grinding papers and foils

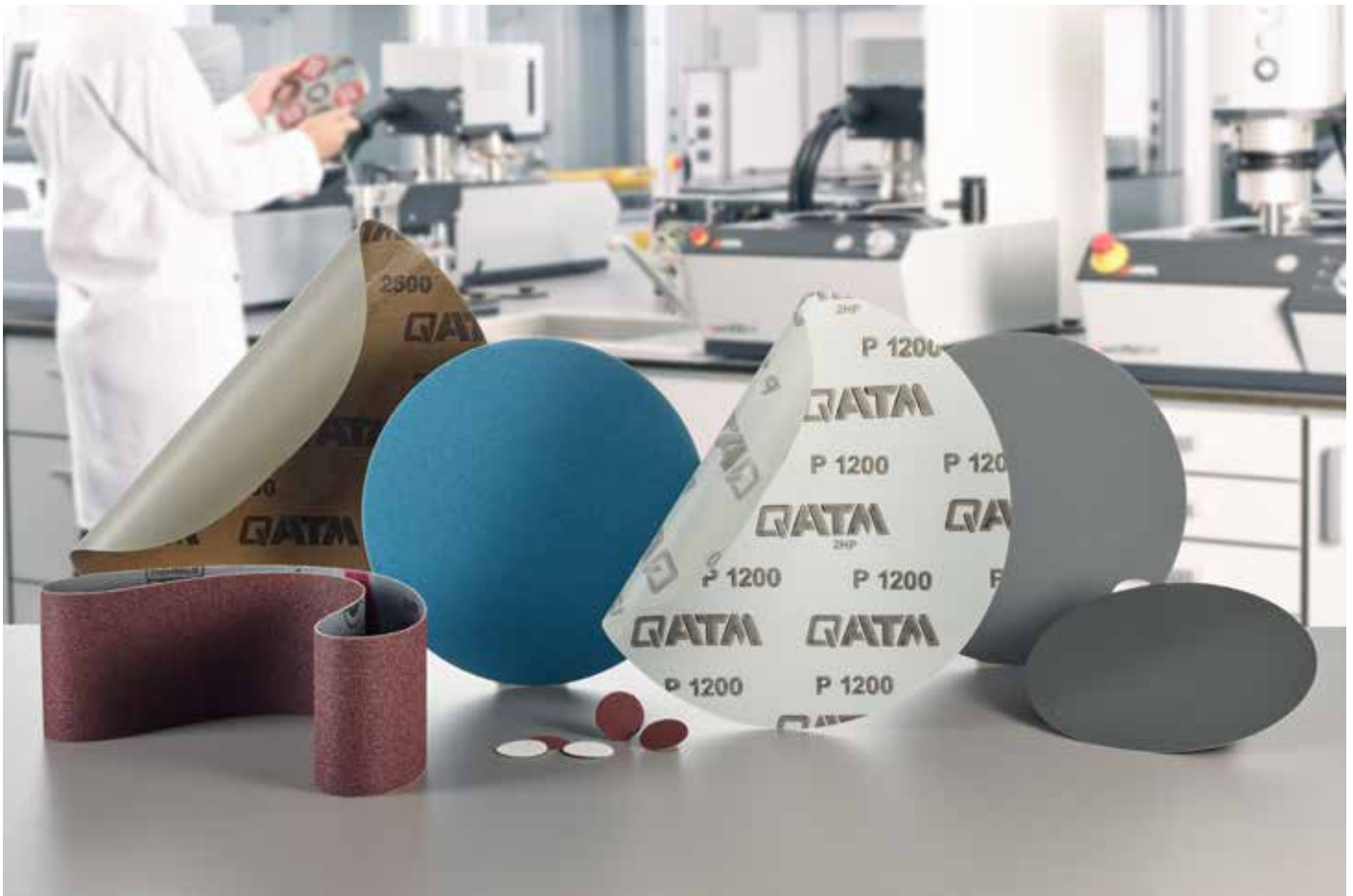
As an alternative to QPREP grinding discs, specimen preparation is also possible using QPREP grinding papers and foils. These differ in the type of carrier material and the possibility of the fixation systems to be used (double-sided adhesive carrier, GALAXY X-Tap, Quick-Tap).

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

FIXATION SYSTEM FOR GRINDING FOILS AND PAPERS WITH FOIL BACKING

Qprep Adhesive carrier disc

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


PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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

before initial use please remove protective foil on both sides



Applying the adhesive carrier disc



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

Notes

Qprep Silicon carbide grinding foils

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

Item No.	Unit	Description
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SILICON CARBIDE GRINDING FOILS

Grain FEPA standard

- Fixation system: Adhesive carrier disc

250 mm Ø

92008557	100 Pcs.	SiC grinding foil	P120
92008558	100 Pcs.	SiC grinding foil	P180
95000899	100 Pcs.	SiC grinding foil	P240
92006305	100 Pcs.	SiC grinding foil	P320
92006304	100 Pcs.	SiC grinding foil	P600
95000900	100 Pcs.	SiC grinding foil	P800
92008559	100 Pcs.	SiC grinding foil	P1200
92008639	100 Pcs.	SiC grinding foil	P2500

300 mm Ø

92008561	100 Pcs.	SiC grinding foil	P120
92008658	100 Pcs.	SiC grinding foil	P180
95000902	100 Pcs.	SiC grinding foil	P240
92006303	100 Pcs.	SiC grinding foil	P320
92006302	100 Pcs.	SiC grinding foil	P600
95000903	100 Pcs.	SiC grinding foil	P800
92008562	100 Pcs.	SiC grinding foil	P1200
92008621	100 Pcs.	SiC grinding foil	P2500



Notes

Qprep Silicon carbide grinding paper with foil backing

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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



FIXATION SYSTEM FOR SELF-ADHESIVE GRINDING PAPER
Qprep GALAXY X-Tap

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


PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

Item No.	Unit	Description
GALAXY X-TAP		
Ø		
GALAXY X-Tap (for using with magnetic foil)		
95017019	1 Pc.	200 mm
95017020	1 Pc.	250 mm
95017021	1 Pc.	300 mm
95017022	1 Pc.	350 mm



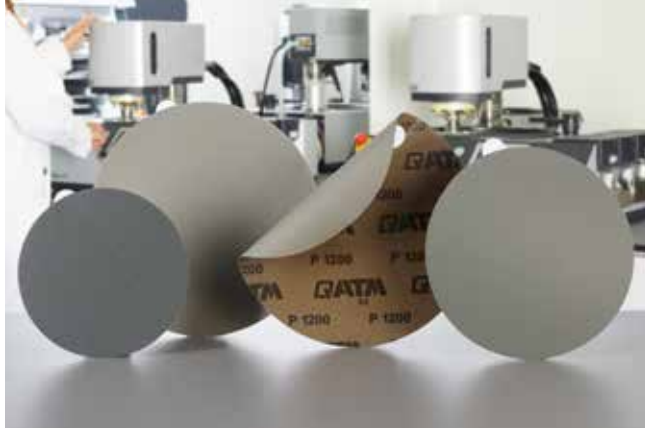
Applying GALAXY X-Tap on magnetic foil



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

Qprep Silicon carbide grinding papers, self-adhesive

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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

Grain FEPA standard

• Fixation system: GALAXY X-Tap

200 mm Ø

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

*slurry coated, for a finer surface finish

250 mm Ø

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

*slurry coated, for a finer surface finish





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

*slurry coated, for a finer surface finish

Qprep Zirconia alumina grinding papers, self-adhesive

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



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

PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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



FIXATION SYSTEM FOR SILICON GRINDING PAPERS WITHOUT ADHESIVE/FOIL BACKING

Qprep Quick-Tap

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


PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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



Applying Quick-Tap on magnetic foil



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

Qnote

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



Qprep Silicon carbide grinding papers without adhesive/foil backing

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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

*slurry coated, for a finer surface finish





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



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.

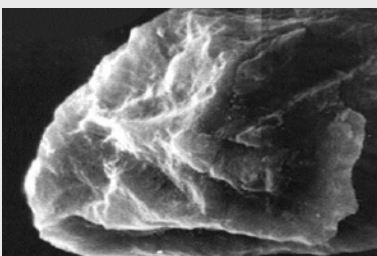
QPREP diamond suspensions are characterized by

- | 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.

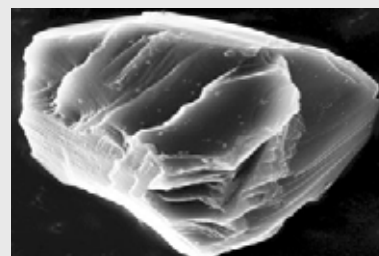
Polycrystalline (industrial) diamonds:

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
DIA-COMPLETE POLY, ALL-IN-ONE DIAMOND SUSPENSION		
Grain Size		
Combined product of diamond suspension and lubricant		
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
DIA-COMPLETE MONO, ALL-IN-ONE DIAMOND SUSPENSION		
Grain Size		
Combined product of diamond suspension and lubricant		
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
DIAMOND SUSPENSION POLYCRYSTALLINE		
Grain Size		
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
DIAMOND SUSPENSION (ALCOHOL-BASED) POLYCRYSTALLINE		
Grain Size		
95003494	1 l	1 µm
95003495	1 l	3 µm
95003496	1 l	6 µm
95003497	1 l	9 µm
DIAMOND SUSPENSION (ALCOHOL-BASED) MONOCRYSTALLINE		
Grain Size		
95003490	1 l	1 µm
95003491	1 l	3 µm
95003492	1 l	6 µm
95003493	1 l	9 µm
DIAMOND SUSPENSION (OIL-BASED) POLYCRYSTALLINE		
Grain Size		
95002792	1 l	1 µm
95002793	1 l	3 µm
95002794	1 l	6 µm
95002795	1 l	9 µm

Qprep Diamond spray and paste

As an alternative to the diamond suspension as a polishing product, QATM also offers QPREP diamond spray and diamond paste. 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
DIAMOND SPRAY POLYCRYSTALLINE		
Grain Size		
CFC-free		
95016025	200 ml	1 µm
95016026	200 ml	3 µm
95016027	200 ml	6 µm
95016028	200 ml	9 µm

DIAMOND PASTE POLYCRYSTALLINE		
Grain Size		
10 g syringe		
92002339	10 g	0.25 µm
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

DIAMOND PASTE MONOCRYSTALLINE		
Grain Size		
10 g syringe		
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

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 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
DIAMOND LUBRICANT		
		Color Characteristics
		• for manual dosing with diamond suspension
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
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
DIAMOND LUBRICATION CONCENTRATE		
		Color Characteristics
		• for manual dosing with diamond suspension
95016362	1 l	Blue - for alcohol-based lubricant - for 10 L lubricant, mix with 9 parts of ethanol
ETHANOL		
		• individually applicable for intensive cleaning
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			
FINE POLISHING SUSPENSIONS					
		Description	ph-value	Grain Size	
		Fine polishing suspension (Al₂O₃) <ul style="list-style-type: none"> • does not crystallize • for ferrous materials, polymers, composites, PCB, rocks and minerals 			
92002534	1 l	Eposil	pH≈8.0	0.06 µm	
		Colloidal silica <ul style="list-style-type: none"> • for polishing, also mixable with diluted etchant • for ferrous and non-ferrous materials, ceramics • especially for soft materials like Al,Cu,Ti and solder joints 			
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	
		Colloidal silica <ul style="list-style-type: none"> • for titanium, nickel, tin and its alloys 			
95001206	1 kg	Eposil M11	pH≈11.0	0.06 µm	
		Water-free fine polishing suspension <ul style="list-style-type: none"> • e.g. for magnesium, zinc 			
95005033	1 kg	Etosil E	pH≈7.0	0.06 µm	
ALUMINA SUSPENSION, CALCINATED					
		Description	Grain Size		
		Aqueous concentrate, to dilute, 3-5 part of dest. water			
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.

Our GALAXY polishing cloths are now available with QPREP anti-slip backing! This allows GALAXY polishing cloths to resist high shear forces, even with high contact pressures and fully loaded sample holders, ensuring a stable polishing process every time.

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


PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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



Applying the magnetic foil



Placing e.g. a GALAXY polishing cloth on the magnetic foil

Qprep GALAXY polishing cloths

QPREP GALAXY polishing cloths with Qprep Anti-Slip backing offer the right cloth material for all materials and analysis purposes, with a secure grip on the magnetic foil every time.



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
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GALAXY POLISHING CLOTH WITH METAL BACK

Description Ø

GAMMA – Polishing cloth

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

COMING SOON

NEW	95017588	5 Pcs.	Gamma	200 mm
NEW	95017589	5 Pcs.	Gamma	250 mm
NEW	95017590	5 Pcs.	Gamma	300 mm

GALAXY – PHI

- Suitable for pre-, intermediate-, and end polishing
- Medium hard chemical fiber cloth
- For iron, non – ferrous metals, minerals, ceramics, composite materials
- For use with diamond grain size: 9/6/3/1 µm
- Fixation system: Magnetic foil

	95012740	5 Pcs.	Phi	250 mm
	95012741	5 Pcs.	Phi	300 mm

GALAXY – SIGMA

- Suitable for intermediate and end polishing
- Soft wool cloth
- For all materials
- For use with diamond grain size: 6/3/1 µm
- Fixation system: Magnetic foil

	95001416	5 Pcs.	Sigma	200 mm
	95001417	5 Pcs.	Sigma	250 mm
	95001418	5 Pcs.	Sigma	300 mm
	95013997	5 Pcs.	Sigma	350 mm

GALAXY – ETA

- Suitable for end polishing
- Short flocked, medium hard synthetic cloth
- For all materials of medium and high hardness
- For use with diamond grain size: 3/1 µm
- Fixation system: Magnetic foil

	95016833	5 Pcs.	Eta	250 mm
	95016834	5 Pcs.	Eta	300 mm

GALAXY – IOTA

- Suitable for end polishing as well as fine polishing with fine polishing suspension
- Short flocked, soft synthetic cloth
- For all materials, especially hard materials
- For use with diamond grain size: 3/1 µm
- Suitable for oxide suspensions
- Fixation system: Magnetic foil

	95001419	5 Pcs.	Iota	200 mm
	95001420	5 Pcs.	Iota	250 mm
	95001421	5 Pcs.	Iota	300 mm
	95013998	5 Pcs.	Iota	350 mm

FIXATION SYSTEM FOR SELF-ADHESIVE POLISHING CLOTHS

Qprep GALAXY X-Tap

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


PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

Item No.	Unit	Description
GALAXY X-TAP		
Ø		
GALAXY X-Tap (for using with magnetic foil)		
95017019	1 Pc.	200 mm
95017020	1 Pc.	250 mm
95017021	1 Pc.	300 mm
95017022	1 Pc.	350 mm



Applying GALAXY X-Tap on magnetic foil



Placing e.g. self-adhesive polishing cloth on GALAXY X-Tap

Qprep Polishing cloths, self-adhesive

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






PRODUCT ADVANTAGES

- 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 GALAXY X-Tap system

Item No.	Unit	Description
POLISHING CLOTHS, SELF-ADHESIVE		
Description Ø		
ALPHA – Polishing cloth <ul style="list-style-type: none"> 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: GALAXY X-Tap 		
92002564	5 Pcs.	Alpha 250 mm
92002573	5 Pcs.	Alpha 300 mm
		
BETA – Polishing cloth <ul style="list-style-type: none"> 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: GALAXY X-Tap 		
95006572	5 Pcs.	Beta 250 mm
95006573	5 Pcs.	Beta 300 mm
		
DELTA – Polishing cloth <ul style="list-style-type: none"> 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: GALAXY X-Tap 		
92008802	5 Pcs.	Delta 250 mm
92008803	5 Pcs.	Delta 300 mm
		

Item No.	Unit	Description	
POLISHING CLOTHS, SELF-ADHESIVE			
Description Ø			
GAMMA – Polishing cloth			
<ul style="list-style-type: none"> • Suitable for pre- & intermediate polishing • Medium hard silk cloth • C-steels, precious metal, coatings, plastics [CFK, GFK], • For use with diamond grain size: 9/6/3 µm • Fixation system: GALAXY X-Tap 			
92002558	5 Pcs.	Gamma	200 mm
92002567	5 Pcs.	Gamma	250 mm
92002576	5 Pcs.	Gamma	300 mm
SIGMA – Polishing cloth			
<ul style="list-style-type: none"> • Suitable for pre- & intermediate polishing • Soft wool cloth • For all materials • For use with diamond grain size: 6/3/1 µm • Fixation system: GALAXY X-Tap 			
92008810	5 Pcs.	Sigma	200 mm
92008811	5 Pcs.	Sigma	250 mm
92008812	5 Pcs.	Sigma	300 mm
IOTA – Polishing cloth			
<ul style="list-style-type: none"> • Suitable for end polishing as well as fine polishing with fine polishing suspension • Short flocked, soft synthetic cloth • for all materials, especially hard materials • For use with diamond grain size: 3/1 µm • Suitable for oxide suspensions • Fixation system: GALAXY X-Tap 			
95002393	5 Pcs.	Iota	200 mm
95002394	5 Pcs.	Iota	250 mm
95002395	5 Pcs.	Iota	300 mm
ZETA – Polishing cloth			
<ul style="list-style-type: none"> • Suitable for end polishing as well as fine polishing with fine polishing suspension • Short flocked, soft synthetic cloth • for all materials • For use with diamond grain size: 3/1 µm • Suitable for oxide suspensions as well as alumina • Fixation system: GALAXY X-Tap 			
92005681	5 Pcs.	Zeta	200 mm
92005683	5 Pcs.	Zeta	250 mm
92005684	5 Pcs.	Zeta	300 mm
KAPPA – Polishing cloth			
<ul style="list-style-type: none"> • Suitable for fine polishing with fine polishing suspension • Soft polishing felt • For all materials • Suitable for alumina • Fixation system: GALAXY X-Tap 			
92002572	5 Pcs.	Kappa	250 mm
92002581	5 Pcs.	Kappa	300 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. Can be equipped with QPREP magnetic foil for use with QPREP GALAXY media.



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
MEDIA CARRIER PLATE		
		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
FILTER INSERTS				
Filter inserts for settling tank (until year of construction 2012)				
95017310	5 Pcs.	Fleece	290 x 150 x 190 mm	40 µm
95017311	5 Pcs.	Fleece	290 x 150 x 190 mm	60 µm
Filter inserts for settling tank (from year of construction 2013)				
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
ELECTROLYTES (CONSISTING OF TWO COMPONENTS; TOTAL VOLUME 1 LITRE)		
Description		
Electrolyte for stainless steel, aluminum, aluminum alloys and special materials • for electrolytic etching/polishing		
92002680	1 Pc.	K1 - Part A, equals 1 litre in combination with Part B
92002980	1 Pc.	K1 - Part B (perchloric acid), equals 1 litre in combination with Part A
Electrolyte for titanium		
92003011	1 Pc.	T1 - Part A, equals 1 litre in combination with Part B
92003012	1 Pc.	T1 - Part B (perchloric acid), equals 1 litre in combination with Part A
Electrolyte for grey iron		
92003014	1 Pc.	F1 - Part A, equals 1 litre in combination with Part B
92003015	1 Pc.	F1 - Part B (perchloric acid), equals 1 litre in combination with Part A
• Shipping of hazardous materials will be charged extra • Download of Safety Data Sheets at www.qatm.com		
ACCESSORIES FOR QETCH 100 M (KRISTALL 650)		
Description		
Electrolyte-bottle with screw top		
95003955	1 Pc.	Volume 1 litre
Accessories set for Qetch 100 M (Kristall 650) in suitcase		
Z6201001	1 Pc.	Suitcase (single-order No.): • 5 pcs V-ring (Order No.: 95003606) • 1 pc profile ring material, appr. 150 mm (Order No.: 06201052) • 1 pc flexible end piece for profile ring (Order No.: 06201051) • 1 pc tube cutter (Order No.: 95004030) • 10 pcs filter pads Ø 40.5 mm (Order No.: 95003985) • 1 pc dolphin clamp (Order No.: 82000374)



Item No.	Unit	Description	
ETCHANTS			
Description			
Ready-to-use etching solutions for microstructural contrasting			
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)	
NEW	95017581	500 ml	VisiPro-I Fast etchant for visualization of former austenite grain boundaries on quenched and tempered unalloyed and low alloy steels through bearing steels (e.g. 102Cr6). Etching time: approximately 2 to 6 minutes, depending on the material.
NEW	95017582	1 l	VisiPro-I Fast etchant for visualization of former austenite grain boundaries on quenched and tempered unalloyed and low alloy steels through bearing steels (e.g. 102Cr6). Etching time: approximately 2 to 6 minutes, depending on the material.
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)	
NEW	92006878	1 l	Alcoholic Nitric Acid 5% Nital (for unalloyed and low alloyed steels)
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), applied at approximately 60°C, contains the additive Dr. Vogel's economy etchant, which acts as an inhibitor and optimizes etching performance.	
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			


NEW

95017528	1 l	Storage bottle for used etchant
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STORAGE BOTTLE FOR USED ETCHANT
Description

Item No.	Unit	Description
ACCESSORIES FOR ETCHING		
Description		
Etching bowl, DURAN® glass with cover, heat-resistant		
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
Etching bowl, polyethylene (PE), with lid		
95012078	1 Pc.	Ø 90/H 40mm
95012079	1 Pc.	Ø 110/H 55mm
95012080	1 Pc.	Ø 110/H 75mm
Etching bowl, polypropylene (PP), with screw coupling		
95012081	1 Pc.	Ø 60/H 60mm
95012082	1 Pc.	Ø 115/H 70mm
Crucible tong		
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
LAB ACCESSORIES AND EQUIPMENT		
Description		
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		
95002951	1 Pc.	Face protection shield, according to DIN EN 166 13 - S
Protective laboratory apron, made of PVC, with neck and side bonds, clean edges, without fabrics		
95004848	1 Pc.	Protective laboratory apron, 900 x 1100 x 0.5 mm

Item No.	Unit	Description
Nitrile gloves (single use), conforms to EN 420, EN 374		
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
Protective gloves black, comply with standard EN 388, EN 374		
NEW 95003208	1 Pair	Protective gloves black, comply with standard EN 388, EN 374, size L - high resistance to water-soluble chemicals - very durable
Safety goggles conforms to EN 166, length-adjustable		
92005963	1 Pc.	Safety goggles conforms to EN 166
Mounting adhesive		
92002779	100 g	Mounting adhesive 100 g, excellent bonding for metals and ceramics
Cotton wool		
92002630	200 g	Cotton wool
Specimen cleaning wipes		
92008773	100 Pcs.	Specimen cleaning wipes
Sample protection laquer		
92004428	300 ml	Sample protection laquer, spray (conservation of samples)
Bottles		
92008770	1 Pc.	Spray bottle, 250 ml
92002432	1 Pc.	Spray bottle, 500 ml
92004491	1 Pc.	Washing bottle with narrow neck, 500 ml
Measuring cylinder		
92004302	1 Pc.	Measuring cylinder, 50 ml
92004303	1 Pc.	Measuring cylinder, 100 ml
Specimen drying unit		
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"> • Pane wiper magnet • 2x 30 pcs. cleaning cloths
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Item No.	Unit	Description
REPLICATION SET		
Description		
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		
92006498	2x50 ml	2-components-compound
92006609	1 Pc.	Dosing gun
92008692	48 Pcs.	Mixing tube
ASSEMBLY CLEANER		
Description		
for sample preparation, for replication set, in spray can		
92004376	500 ml	Assembly cleaner spray
PRECISION REPLICATION MATERIAL		
Description		
Replica system for surface structures (metallic or mineral), for surface roughness inspection (R, Ra)		
95001664	900 ml	2-components-compound standard
ACCESSORIES FOR MICROSCOPY		
Description		
Supporting accessories		
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 <ul style="list-style-type: none"> • for parallel fixation of specimen on microscope slide • comfortable operation with minimal effort • compact, robust and durable • made of aluminum with anodised surface
STORAGE OF SAMPLES		
Description		
Storage systems for readily prepared samples		
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.

The screenshot displays the Qness software interface with the following sections:

- Periodische Prüfung:** Includes fields for 'Anzeige', 'Spezifikation', 'Stichprobenumfang n*', and 'Name'.
- Daten der Härteprüfmaschine:** Includes fields for 'Typ', 'Hersteller', 'Identifikationsnummer', 'Herstellungsjahr', and 'Messsystem-Auflösung in µm*'. A 'Kalibrierzustand' section shows '43371' and '43371'.
- Daten der Härtevergleichsplatte:** Includes fields for 'Kalibrierzustand', 'Skala', 'Kraft in kg', and 'Härtewert 1-5'.
- Liste der Prüfer:** A list of operators with names like 'Muttermann1' through 'Muttermann5'.
- Spracheinstellung:** A dropdown menu set to 'Deutsch'.
- Software Version:** Shows '1.11' and '12.07.2015'.

Qprep Hardness test blocks Brinell



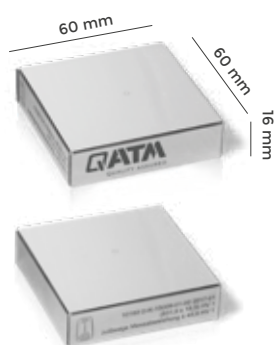
Item No.	Unit	Description
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HARDNESS TEST BLOCKS BRINELL (DIN EN ISO 6506-3, ASTM E10)

	HBW	Material	HW*	Dimensions (mm)
NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E10	
HBW 10 / 500				
HB1005080A	1 Pc.	Brinell	HBW 10/500	Aluminum HW approx. 80 150x100x16
HBW 10 / 1000				
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
HBW 10 / 1500				
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
HBW 10 / 3000				
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
HBW 5 / 125				
HB0505080A	1 Pc.	Brinell	HBW 5/125	Aluminum HW approx. 80 150x100x16

HW* = Hardness value

Item No.	Unit	Description
HARDNESS TEST BLOCKS BRINELL (DIN EN ISO 6506-3, ASTM E10)		
		HBW Material HW* Dimensions (mm)
NEW	HHVP9997	1 Pc. Surcharge for additional certificate according to ASTM E10
HBW 5 / 250		
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
HBW 5 / 750		
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
HBW 2.5 / 31.25		
HB2505080C	1 Pc.	Brinell HBW 2.5/31.25 Aluminum HW approx. 80 60x60x16
HBW 2.5 / 62.5		
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
HBW 2.5 / 187.5		
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
HARDNESS TEST BLOCKS BRINELL (DIN EN ISO 6506-3, ASTM E10)		
HBW	Material	HW* Dimensions (mm)

NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E10		
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HBW 1 / 5

HB0105080C	1 Pc.	Brinell	HBW 1/5	Aluminum	HW approx. 80	60x60x16
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HBW 1 / 10

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

HBW 1 / 30

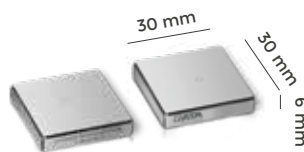
HB0130110C	1 Pc.	Brinell	HBW 1/30	Aluminum	HW approx. 110	60x60x16
HB0130130C	1 Pc.	Brinell	HBW 1/30	Aluminum	HW approx. 130	60x60x16
HB0130170C	1 Pc.	Brinell	HBW 1/30	Aluminum	HW approx. 170	60x60x16
HB0130200C	1 Pc.	Brinell	HBW 1/30	Steel	HW approx. 200	60x60x16
HB0130250C	1 Pc.	Brinell	HBW 1/30	Steel	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
HARDNESS TEST BLOCKS KNOOP (DIN EN ISO 4545-3, ASTM E92)		
HK	Material	HW* Dimensions (mm)

NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E92			
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HK 0.01						
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

HK 0.015						
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

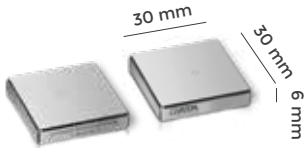
HK 0.02						
HKG020200E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 200	30x30x6
HKG020250E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 250	30x30x6
HKG020300E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 300	30x30x6
HKG020350E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 350	30x30x6
HKG020400E	1 Pc.	Knoop	HK 0.02	Steel	HW approx. 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

HK 0.025						
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
HARDNESS TEST BLOCKS KNOOP (DIN EN ISO 4545-3, ASTM E92)		
HK	Material	HW* Dimensions (mm)

NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E92
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HK 0.05						
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

HK 0.1						
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

HK 0.2						
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

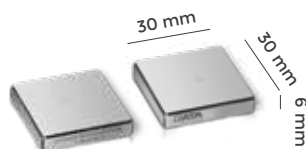
HW* = Hardness value

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

HK	Material	HW*	Dimensions (mm)
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NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E92
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HK 0.3

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

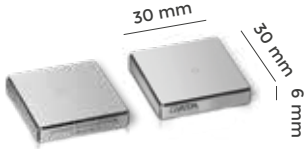
HK 0.5

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
HARDNESS TEST BLOCKS KNOOP (DIN EN ISO 4545-3, ASTM E92)		
HK	Material	HW* Dimensions (mm)

NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E92
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			HK 1				
	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

			HK 2				
	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

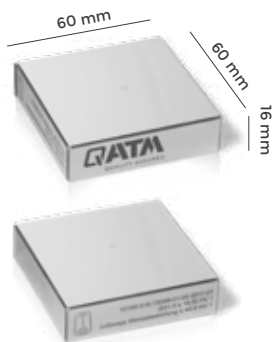
Qprep Hardness test blocks Rockwell

Qprep - HARDNESS TESTING - HARDNESS TEST BLOCKS

Item No.	Unit	Description
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HARDNESS TEST BLOCKS ROCKWELL (DIN EN ISO 6508-3, ASTM E18)

NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E18
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HRA							
Item No.	Unit	Description	HR	Material	HW*	Dimensions (mm)	
HROHRA029C	1 Pc.	Rockwell HRA	Aluminum	HW approx. 29	60x60x16		
HROHRA040C	1 Pc.	Rockwell HRA	Aluminum	HW approx. 40	60x60x16		
HROHRA045C	1 Pc.	Rockwell HRA	Aluminum	HW approx. 45	60x60x16		
HROHRA053C	1 Pc.	Rockwell HRA	Aluminum	HW approx. 53	60x60x16		
HROHRA057C	1 Pc.	Rockwell HRA	Steel	HW approx. 57	60x60x16		
HROHRA060C	1 Pc.	Rockwell HRA	Steel	HW approx. 60	60x60x16		
HROHRA062C	1 Pc.	Rockwell HRA	Steel	HW approx. 62	60x60x16		
HROHRA066C	1 Pc.	Rockwell HRA	Steel	HW approx. 66	60x60x16		
HROHRA069C	1 Pc.	Rockwell HRA	Steel	HW approx. 69	60x60x16		
HROHRA071C	1 Pc.	Rockwell HRA	Steel	HW approx. 71	60x60x16		
HROHRA073C	1 Pc.	Rockwell HRA	Steel	HW approx. 73	60x60x16		
HROHRA075C	1 Pc.	Rockwell HRA	Steel	HW approx. 75	60x60x16		
HROHRA077C	1 Pc.	Rockwell HRA	Steel	HW approx. 77	60x60x16		
HROHRA079C	1 Pc.	Rockwell HRA	Steel	HW approx. 79	60x60x16		
HROHRA080C	1 Pc.	Rockwell HRA	Steel	HW approx. 80	60x60x16		
HROHRA081C	1 Pc.	Rockwell HRA	Steel	HW approx. 81	60x60x16		
HROHRA082C	1 Pc.	Rockwell HRA	Steel	HW approx. 82	60x60x16		
HROHRA083C	1 Pc.	Rockwell HRA	Steel	HW approx. 83	60x60x16		
HROHRA084C	1 Pc.	Rockwell HRA	Steel	HW approx. 84	60x60x16		
HROHRA085C	1 Pc.	Rockwell HRA	Steel	HW approx. 85	60x60x16		

HRB							
Item No.	Unit	Description	HR	Material	HW*	Dimensions (mm)	
HROHRB032C	1 Pc.	Rockwell HRB	Aluminum	HW approx. 32	60x60x16		
HROHRB060C	1 Pc.	Rockwell HRB	Aluminum	HW approx. 60	60x60x16		
HROHRB072C	1 Pc.	Rockwell HRB	Aluminum	HW approx. 72	60x60x16		
HROHRB086C	1 Pc.	Rockwell HRB	Aluminum	HW approx. 86	60x60x16		
HROHRB094C	1 Pc.	Rockwell HRB	Steel	HW approx. 94	60x60x16		
HROHRB098C	1 Pc.	Rockwell HRB	Steel	HW approx. 98	60x60x16		

HRC							
Item No.	Unit	Description	HR	Material	HW*	Dimensions (mm)	
HROHRC015C	1 Pc.	Rockwell HRC	Steel	HW approx. 15	60x60x16		
HROHRC019C	1 Pc.	Rockwell HRC	Steel	HW approx. 19	60x60x16		
HROHRC024C	1 Pc.	Rockwell HRC	Steel	HW approx. 24	60x60x16		
HROHRC031C	1 Pc.	Rockwell HRC	Steel	HW approx. 31	60x60x16		
HROHRC037C	1 Pc.	Rockwell HRC	Steel	HW approx. 37	60x60x16		
HROHRC041C	1 Pc.	Rockwell HRC	Steel	HW approx. 41	60x60x16		
HROHRC046C	1 Pc.	Rockwell HRC	Steel	HW approx. 46	60x60x16		
HROHRC049C	1 Pc.	Rockwell HRC	Steel	HW approx. 49	60x60x16		
HROHRC052C	1 Pc.	Rockwell HRC	Steel	HW approx. 52	60x60x16		
HROHRC055C	1 Pc.	Rockwell HRC	Steel	HW approx. 55	60x60x16		
HROHRC058C	1 Pc.	Rockwell HRC	Steel	HW approx. 58	60x60x16		
HROHRC060C	1 Pc.	Rockwell HRC	Steel	HW approx. 60	60x60x16		
HROHRC062C	1 Pc.	Rockwell HRC	Steel	HW approx. 62	60x60x16		
HROHRC063C	1 Pc.	Rockwell HRC	Steel	HW approx. 63	60x60x16		
HROHRC064C	1 Pc.	Rockwell HRC	Steel	HW approx. 64	60x60x16		
HROHRC065C	1 Pc.	Rockwell HRC	Steel	HW approx. 65	60x60x16		
HROHRC066C	1 Pc.	Rockwell HRC	Steel	HW approx. 66	60x60x16		
HROHRC068C	1 Pc.	Rockwell HRC	Steel	HW approx. 68	60x60x16		

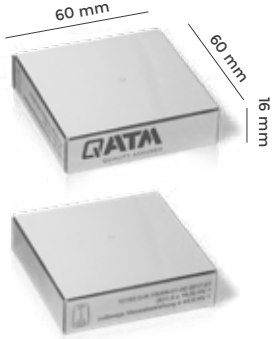
HW* = Hardness value

Item No.	Unit	Description
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HARDNESS TEST BLOCKS ROCKWELL (DIN EN ISO 6508-3, ASTM E18)

HR	Material	HW*	Dimensions (mm)
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NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E18
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HRD

HR0HRD045C	1 Pc.	Rockwell	HRD	Aluminum	HW approx. 45	60x60x16
HR0HRD059C	1 Pc.	Rockwell	HRD	Aluminum	HW approx. 59	60x60x16
HR0HRD065C	1 Pc.	Rockwell	HRD	Steel	HW approx. 65	60x60x16
HR0HRD069C	1 Pc.	Rockwell	HRD	Steel	HW approx. 69	60x60x16
HR0HRD072C	1 Pc.	Rockwell	HRD	Steel	HW approx. 72	60x60x16

HRE

HR0HRE088C	1 Pc.	Rockwell	HRE	Aluminum	HW approx. 88	60x60x16
HR0HRE100C	1 Pc.	Rockwell	HRE	Aluminum	HW approx. 100	60x60x16

HRF

HR0HRF077C	1 Pc.	Rockwell	HRF	Aluminum	HW approx. 77	60x60x16
HR0HRF092C	1 Pc.	Rockwell	HRF	Aluminum	HW approx. 92	60x60x16
HR0HRF098C	1 Pc.	Rockwell	HRF	Aluminum	HW approx. 98	60x60x16

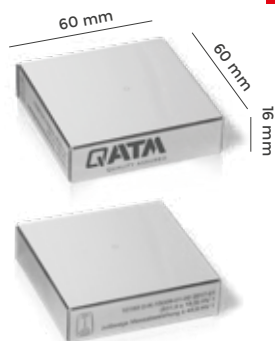
HR15N

HR015N070C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 70	60x60x16
HR015N075C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 75	60x60x16
HR015N078C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 78	60x60x16
HR015N081C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 81	60x60x16
HR015N083C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 83	60x60x16
HR015N085C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 85	60x60x16
HR015N086C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 86	60x60x16
HR015N088C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 88	60x60x16
HR015N089C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 89	60x60x16
HR015N090C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 90	60x60x16
HR015N091C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 91	60x60x16
HR015N092C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 92	60x60x16
HR015N093C	1 Pc.	Rockwell	HR15N	Steel	HW approx. 93	60x60x16

HR15T

HR015T072C	1 Pc.	Rockwell	HR15T	Aluminum	HW approx. 72	60x60x16
HR015T080C	1 Pc.	Rockwell	HR15T	Aluminum	HW approx. 80	60x60x16
HR015T084C	1 Pc.	Rockwell	HR15T	Aluminum	HW approx. 84	60x60x16
HR015T088C	1 Pc.	Rockwell	HR15T	Aluminum	HW approx. 88	60x60x16
HR015T090C	1 Pc.	Rockwell	HR15T	Steel	HW approx. 90	60x60x16
HR015T091C	1 Pc.	Rockwell	HR15T	Steel	HW approx. 91	60x60x16
HR015T092C	1 Pc.	Rockwell	HR15T	Steel	HW approx. 92	60x60x16
HR015T094C	1 Pc.	Rockwell	HR15T	Steel	HW approx. 94	60x60x16

HW* = Hardness value

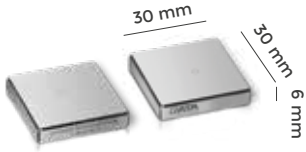


Item No.	Unit	Description	HR	Material	HW*	Dimensions (mm)	
HARDNESS TEST BLOCKS ROCKWELL (DIN EN ISO 6508-3, ASTM E18)							
NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E18				
HR30N							
HR030N043C	1 Pc.	Rockwell	HR30N	Steel	HW approx. 43	60x60x16	
HR030N050C	1 Pc.	Rockwell	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	
HR30T							
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	
HR45N							
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	
HR45T							
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	

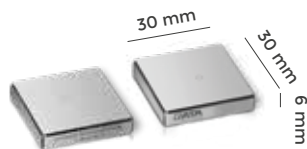
HW* = Hardness value

Qprep Hardness test blocks Vickers

Item No.	Unit	Description				
HARDNESS TEST BLOCKS VICKERS (DIN EN ISO 6507-3, ASTM E92)						
			HV	Material	HW*	Dimensions (mm)
NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E92			
HV 0.01						
	HVG010200E	1 Pc.	Vickers	HV 0.010	Steel	HW approx. 200 30x30x6
HV 0.015						
	HVG015200E	1 Pc.	Vickers	HV 0.015	Steel	HW approx. 200 30x30x6
	HVG015250E	1 Pc.	Vickers	HV 0.015	Steel	HW approx. 250 30x30x6
HV 0.02						
	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
HV 0.025						
	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
HV 0.05						
	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
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HARDNESS TEST BLOCKS VICKERS (DIN EN ISO 6507-3, ASTM E92)

HV	Material	HW*	Dimensions (mm)
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NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E92
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HV 0.1

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

HV 0.2

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

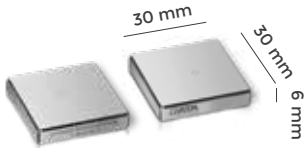
HV 0.3

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
HARDNESS TEST BLOCKS VICKERS (DIN EN ISO 6507-3, ASTM E92)		
		HV Material HW* Dimensions (mm)

NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E92
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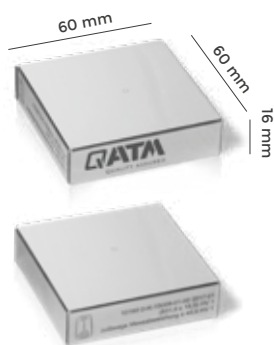
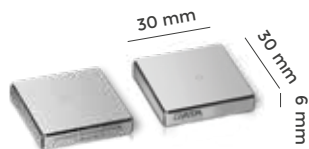
HV 0.5							
HVG500200E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 200	30x30x6	
HVG500250E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 250	30x30x6	
HVG500300E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 300	30x30x6	
HVG500350E	1 Pc.	Vickers	HV 0.5	Steel	HW approx. 350	30x30x6	
HVG500400E	1 Pc.	Vickers	HV 0.5	Steel	HW 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							
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							
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)
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NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E92
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HV 2

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 2

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)



NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E92			
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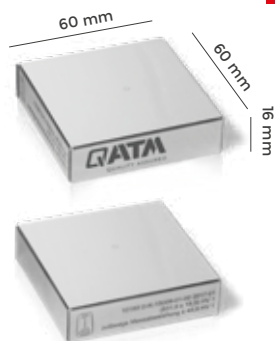
HV 3

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

HV 5

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)
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NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E92
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HV 10

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 20

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)						
		<table border="1"> <thead> <tr> <th>HV</th> <th>Material</th> <th>HW*</th> <th>Dimensions (mm)</th> </tr> </thead> </table>	HV	Material	HW*	Dimensions (mm)
HV	Material	HW*	Dimensions (mm)			



NEW	HHVP9997	1 Pc.	Surcharge for additional certificate according to ASTM E92
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HV 30

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

HV 50

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
TEST DIAMONDS MAKRO		
		Description
		Length Ø
• with DAkKS/ASTM Certificate		
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 ≥HV0.01 28 mm 6.5 mm
QEV28000EZ	1 Pc.	Test diamond Vickers ≥HV5 28 mm 6.5 mm with DAkKS Certificate
QEK28000EA	1 Pc.	Test diamond Knoop 28 mm 6.5 mm
BALL HOLDERS WITH PRESSED-IN BALL - MAKRO		
		Description
• with DAkKS/ASTM Certificate		
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
BALL HOLDERS WITH EXCHANGEABLE BALL - MAKRO		
		Description
• with DAkKS/ASTM Certificate		
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
Cutting	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
Hot Mounting	Bakelite	2
	EPO-Max	2
	EPO black	2
	Duroplast	2
	Thermoplast	2
Cold Mounting	Methacrylate z.B. KEM 15+, 20, 30, 35, 60	1
	Epoxy resins	1
	Mounting moulds	2
	Releasing agent	2
Grinding/Polishing	Grinding stones	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	
Etching	Etchants & electrolytes	1
Miscellaneous	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





ENABLING PROGRESS.

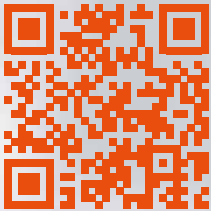
HEAT TREATMENT
ELEMENTAL ANALYSIS
MATERIALOGRAPHY &
HARDNESS TESTING
MILLING & SIEVING
PARTICLE CHARACTERIZATION

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