



Qprep

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

CONSUMABLES



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

WE ENABLE PROGRESS FOR THE BENEFIT OF MANY

VERDER SCIENTIFIC is composed of leading laboratory equipment companies active in sample preparation and analysis for quality control as well as research & development purposes. As trusted solution partner, VERDER SCIENTIFIC enables thousands of companies to ensure economic, technological and environmental progress by mastering their scientific applications. 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

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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.

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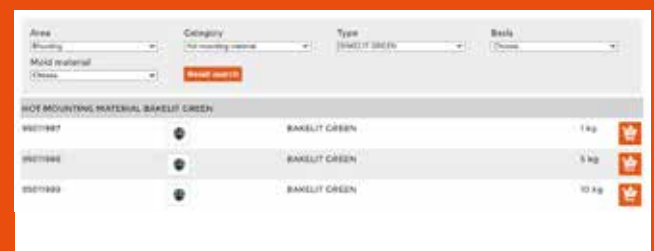
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WWW.QATM.COM/CONSUMABLES

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.

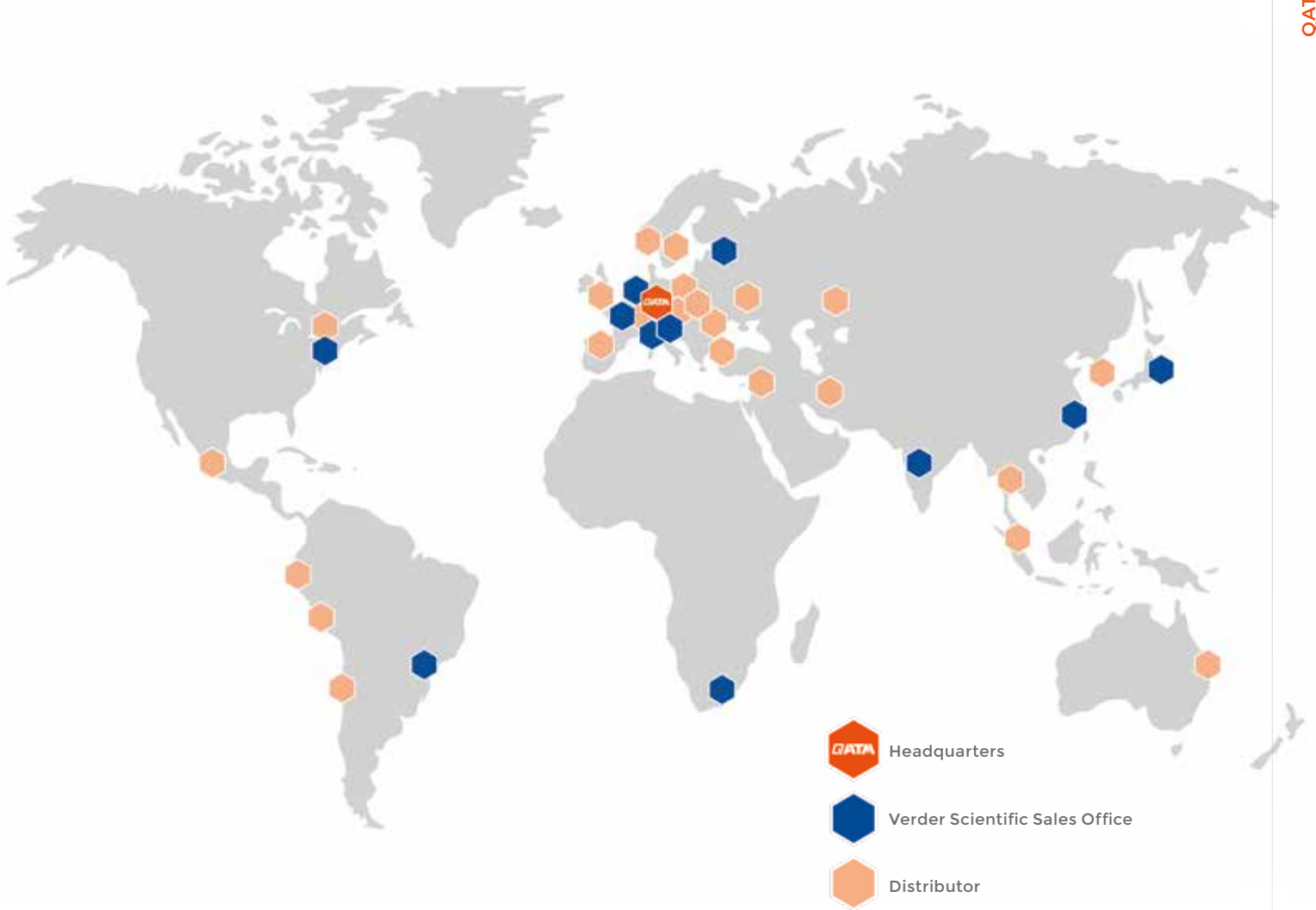


Expert Guide - Materialography/Metallography

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



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- | 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 2025/E, valid as of 1st January 2025





Consumables for cutting



Precision cutting

Precision cutting allows for cutting precisely adjacent to critical analysis areas and is particularly suitable for materials with highly complex 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

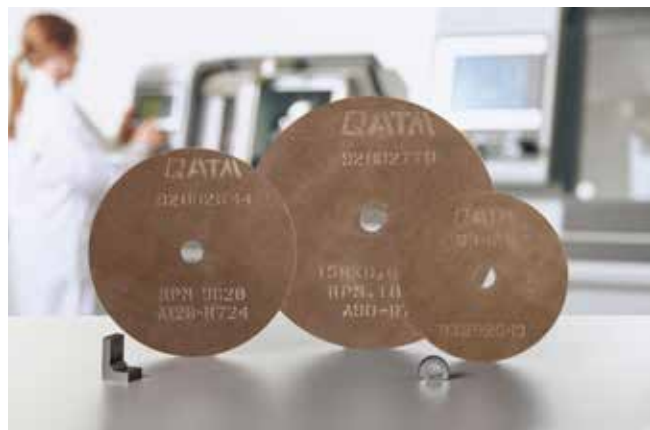
ARBOR SIZE AND WHEEL DIAMETER (MAX.) FOR QATM PRECISION CUT-OFF MACHINES

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



Qprep Aluminum oxide precision cut-off wheels

For precision cutting of ferrous materials, QPREP Aluminum oxide precision cut-off wheels are the optimal choice. These cut-off wheels are available in two different grain types (fine and coarse). Coarse-grained cut-off wheels are ideal for fast and efficient cuts on low-hardness materials and produce a rougher surface. Fine-grained cut-off wheels are excellent for precise and smooth cuts on higher hardness materials, but with lower cutting speeds.



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

- ▮ Suitable for a wide range of materials, especially various steel samples
- ▮ Cutting of high alloy steel
- ▮ Cutting of nitrided steel
- ▮ Allows cutting through mounted samples

Item No.	Unit	Description				
ALUMINUM OXIDE PRECISION CUT-OFF WHEELS						
Ø	Thickness	Arbor Size	Grain size	Bond		
Fine-grained						
<ul style="list-style-type: none"> • for universal application of materials of higher hardness • precise cuts and high surface quality • optimal for delicate samples and sensitive materials 						
92002643	5 Pcs.	100 mm	0.25 mm	12.7 mm	fine grid	rubber
92002645	5 Pcs.	100 mm	0.4 mm	12.7 mm	fine grid	rubber
92002644	5 Pcs.	125 mm	0.45 mm	12.7 mm	fine grid	rubber
92002769	5 Pcs.	150 mm	0.45 mm	12.7 mm	fine grid	rubber
95014126	5 Pcs.	200 mm	0.45 mm	12.7 mm	fine grid	rubber
Coarse-grained						
<ul style="list-style-type: none"> • for universal use with lower hardness materials • ideal for rough geometries and mounted sample material • fast and efficient cuts 						
92002646	5 Pcs.	125 mm	0.8 mm	12.7 mm	coarse grid	rubber
92002770	5 Pcs.	150 mm	0.6 mm	12.7 mm	coarse grid	rubber
92002647	5 Pcs.	200 mm	0.8 mm	12.7 mm	coarse grid	rubber
92004159	5 Pcs.	150 mm	1 mm	12.7 mm	coarse grid	resin

Notes

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 edge area 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 edge area always maintain maximum cutting performance

RECOMMENDED APPLICATIONS

- | Dependence of diamond concentration on the toughness of the material
- | The optimal choice of diamond concentration improves efficiency and lifespan of the cutting discs
- | High concentrations (HC) are ideal for universal use, hard metals, carbides, and hard/soft composite materials
- | Low concentrations (LC) are suitable for hard and brittle materials such as mineral samples, rock, glass, and ceramics

Item No.	Unit	Description						
DIAMOND PRECISION CUT-OFF WHEELS								
Ø	Thickness	Arbor Size	Grain size	Concentration	Bond			
• for universal application and carbides								
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	
95016591	1 Pc.	175 mm	0.65 mm	12.7 mm	D213	HC	bronze	
95004814	1 Pc.	200 mm	0.5 mm	12.7 mm	D213	HC	bronze	
• for glass, minerals as well as brittle and hard ceramic materials								
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	Extra LC	bronze	
95010518	1 Pc.	150 mm	0.5 mm	12.7 mm	D213	LC	bronze	
95008773	1 Pc.	150 mm	0.5 mm	12.7 mm	D213	LC	bronze	
92006368	1 Pc.	200 mm	0.6 mm	12.7 mm	D213	LC	bronze	
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	95012928	1 Pc.	200 mm	1.0 mm	12.7 mm	D64	LC	galvanic
	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

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"
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

In materialography, the choice of cutting disc is crucial and depends on the hardness of the material, the bond of the cutting disc, and the abrasive used. The goal is to achieve high cutting quality, while maximizing the lifespan of the cutting disc.

HARD MATERIALS – SOFT BOND

Hard materials such as tool steels, highly alloyed steels, cemented carbides, or ceramics lead to strong abrasive wear. A soft bond ensures that worn particles break out quickly and new, sharp particles are released, guaranteeing consistent cutting performance. A hard bond, on the other hand, can lead to overheating and surface damage to the sample.

MEDIUM HARD MATERIALS – MEDIUM HARD BOND

For materials such as structural, low-alloy and tempered steels, a medium bond offers the best compromise between cutting quality and disc lifespan. A bond that is too soft would wear the disc too quickly, while a bond that is too hard slows down the cutting process and can lead to deformation of the workpiece.

SOFT MATERIALS – HARD BOND

Soft materials, such as aluminum and copper, exert little stress on the abrasive. A hard bond ensures that the abrasive particles remain in use for a long time, increasing the lifespan of the disc. A soft bond would lead to rapid particle loss and reduced cutting performance.

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

		Resin bonded	100	200	300	400	500	600	700	800	
Type description	NF-A	non-ferrous metals									
	Ti-A	ductile metals									
	FS-A	soft, ferrous metals (30-300 HV)									
	Typ I	60 - 350 HV			soft to medium soft, ferrous metals						
	FS-B	medium soft, ferrous metals	200 - 450 HV								
	FS-FR	medium soft to hard ferrous metals			250 - 600 HV						
	FS-C	medium hard, ferrous metals			300 - 550 HV						
	Typ D	medium hard to hard, ferrous metals			350 - 600 HV						
	FS-D	hard, ferrous metals			400 - 700 HV						
	Typ C				hard to very hard, ferrous metals			>600 HV			
FS-E				very hard, ferrous metals			>650 HV				
		Rubber bonded									
Type description	A	50 - 500 HV					Universal wheel, soft and hard metals, Superalloys				
	B	for high-speed steels, heat-treated steels, non-corrosive steels					400 - 700 HV				
		soft		medium soft		medium hard		hard		very hard	
HV		50 - 250		250 - 350		350 - 500		500 - 700		700 - 940	
HRC		<24		24 - 35		35 - 49		49 - 60		60 - 68	

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 cutting disc **NF-A** is suitable for cutting soft (e.g., copper, aluminum, brass) and medium-hard non-ferrous metals and alloys (e.g., bronze, Monel, gunmetal, AlMn1Cu vs. AlMgSi0.5) as well as hard non-metallic materials (e.g., glass, stone).
- | QPREP Premium silicon carbide cutting disc **Ti-A** for cutting non-ferrous metals, Ti alloys (e.g., Ti6Al4V, Ti5Al2.5Sn), and refractory metals (e.g., molybdenum, tantalum, niobium)

Item No.	Unit	Description		
PREMIUM SILICON CARBIDE CUT-OFF WHEELS				
BOND: RESIN				
		∅	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)				
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
92002427	10 Pcs.	350 mm	2.5 mm	32 mm
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.



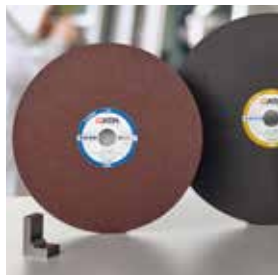
PRODUCT ADVANTAGES

- | Wide range of application for various materials with different hardnesses
- | 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
- | Long service life and low wear of the cutting disc

RECOMMENDED APPLICATIONS

- | Cutting of all materials

Item No.	Unit	Description
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 (e.g., PMMA, PEEK, PTFE) due to hard bonding		
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 I		
• ideal for cutting structural steel (e.g., S235JR, S355J2, C45) and cast materials (e.g., ductile iron, gray cast iron, cast steel) (60-350 HV)		
92006066	10 Pcs.	250 mm 1.6 mm 32 mm
92005863	10 Pcs.	300 mm 2.0 mm 32 mm
92005862	10 Pcs.	350 mm 2.5 mm 32 mm
92008504	10 Pcs.	400 mm 3.0 mm 32 mm
Type FS-B, Orange		
• for medium soft steel (200-450 HV), e.g. unalloyed structural steels and low-alloy steels		
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



Item No.	Unit	Description		
PREMIUM ALUMINUM OXIDE CUT-OFF WHEELS				
BOND: RESIN				
		Ø	Thickness	Arbor Size
Type FS-FR, fabric reinforced <ul style="list-style-type: none"> • for medium soft to hard steels (250-600 HV) • > 30% wear reduction • ideal for manual cutting 				
95017540	10 Pcs.	250 mm	1.5 mm	32 mm
95017541	10 Pcs.	300 mm	2.0 mm	32 mm
95017542	10 Pcs.	350 mm	2.5 mm	32 mm
95017543	10 Pcs.	400 mm	3.0 mm	32 mm
Type FS-C, Yellow <ul style="list-style-type: none"> • 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
Type D <ul style="list-style-type: none"> • universally applicable for medium material hardness and case-hardened steels (350-600 HV), e.g., tempered steel 42CrMo4, CuSn8 				
92001555	10 Pcs.	250 mm	1.5 mm	32 mm
92001559	10 Pcs.	300 mm	2.0 mm	32 mm
92001670	10 Pcs.	350 mm	2.0 mm	32 mm
92001784	10 Pcs.	400 mm	3.0 mm	32 mm
Type FS-D, Green <ul style="list-style-type: none"> • 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
Type C <ul style="list-style-type: none"> • universally applicable for materials of high and very high hardness (>600 HV), e.g., martensitic stainless steels, WC-Co, carbide 				
92001554	10 Pcs.	250 mm	1.5 mm	32 mm
92001558	10 Pcs.	300 mm	2.0 mm	32 mm
92001669	10 Pcs.	350 mm	2.0 mm	32 mm
92001783	10 Pcs.	400 mm	3.0 mm	32 mm
Type FS-E, Blue <ul style="list-style-type: none"> • for very hard steels (>650 HV), e.g., CrV, manganese steel 				
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

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 edge area always maintain maximum cutting performance
- Long lifetime as well as low wear of the cut-off wheel

RECOMMENDED APPLICATIONS

- Cutting ceramic materials (Al_2O_3 , YS-ZrO₂, B₄C) and (hard) composite materials (WC-Co, CMC, and MMC) with bronze-bonded diamond precision cutting discs
- Cutting hard and brittle materials (hard metals, BN, Al_2O_3 ceramics) with resin-bonded diamond cutting discs
- Cutting brittle coating surfaces (hard metal tools with titanium nitride, DLC-coated components, ZrO₂-coated turbine blades)
- High concentrations (HC) ideal for universal use, hard metals, and hard/soft composite materials
- Low concentrations (LC) for hard and brittle materials such as mineral samples, rock, glass, and ceramics

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	1.3 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, for materials with high hardness (>700 HV)

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 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
ATM-COOLCUT, ENVIRONMENT- AND USER-FRIENDLY		
Mixing ratio 1:25 (4%) – 1:17 (6%) / refractometer: 2.0%/°Bx		
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • optimized for polymers and composites • free of nitride and oil • also suitable for steels, non-ferrous metals, ceramics and glasses 		
95007864	1 l	Concentrate
ANTI CORROSION COOLANT, STANDARD		
Mixing ratio 1:35 / refractometer: 1.4%/°Bx		
<ul style="list-style-type: none"> • 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 Cu/non-ferrous metal processing (0.05-0.2% dosage in ATM-CoolCut) <ul style="list-style-type: none"> • reduces heavy metal ions concentration, protects surfaces, promotes filterability • supports machine functionality
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



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

Z5800008	1 Pc.	Filter Basket	140 x 80 x 200 mm
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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.

WHEN IS MOUNTING ABSOLUTELY NECESSARY?

- | For unwieldy samples with small or complicated dimensions
- | For delicate sample material, e.g., soft, brittle, fragile, porous, filigree
- | For simultaneous automatic preparation of larger sample quantities
- | For the protection and examination of edge zones with coatings such as nitriding, hard coatings, plasma spray, or paint layers
- | For further processing with semi- or fully automatic grinding and polishing devices, guiding in sample holders of necessary consistent size, i.e., the sample diameter is set.

Generally, samples are mounted after cutting. However, for additional protection, components can also be mounted before the cutting operation. The criteria for choosing hot, cold, or UV mounting in relation to the mounting medium include hardness, abrasion resistance, shrinkage, mounting behavior (e.g., viscosity behavior), and chemical resistance. Additionally, process-related parameters such as mounting duration, sample throughput, and simplicity of the mounting process must be compatible with sample material-dependent parameters such as temperature, pressure, UV resistance, number of samples, size and geometry, porosity, and the analysis objective.

5 questions for choosing the right mounting method and the right mounting material

- 1 Is my component sensitive to pressure or temperature?
- 2 How hard is my material?
- 3 How complex is the geometry of my sample?
- 4 How much time and effort can I invest?
- 5 What are the quality requirements for the preparation?



Selection of the mounting method

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 within a narrow wavelength range and require specially designed equipment.
- | The UV initiators present in the resin 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.

Hot mounting material

High quality and plane parallel mounting

Qprep BAKELIT BLACK / RED / GREEN

- | For standardized routine mounting of soft to medium hard materials

Qprep THERMOPLAST

- | For transparency and target preparation of soft materials

Qprep EPO Black / EPO-Max

- | For particularly hard, corrosion and wear-resistant materials and outstanding edge retention

Cold mounting material

For hard coatings and surfaces

Polyester resin:

Qprep KEM 15 Plus

- | For optimal edge retention and lowest shrinkage, fast curing (25 minutes)

Cold mounting material

For best adhesion and transparency

Epoxy resins:

Qpox 90

- | For low curing temperatures and low viscosity (35°C at RT)

Qpox 94

- | For low curing times and same day preparation (9 h at RT / 3 h at 45°C)

Qpox 92

- | For maximum transparency and hardness (glass clear, 81 Shore D)

UV mounting material

For high sample throughput

UV resins:

Qprep UV 50

- | For fast & safe mounting in ~60 seconds
- | User-friendly, no mixing required!

Qprep UV 55

- | For transparent and low gap mounting in ~10 minutes
- | User-friendly, no mixing required!



Additional resins for routine analysis

Methacrylic resins:

KEM 20

- | For transparent mounting

KEM 30

- | For fast mounting (5 minutes)

KEM 35

- | For hard materials (87 Shore D)

KEM 60

- | Universal application

General Information on Mounting

To avoid the formation of edge gaps between the sample material and the mounting medium, several parameters must be considered:

- I Sample geometry
- I Arrangement of the samples in the mounting mould
- I Preparation of the sample (degreasing, cleaning)
- I Thermal conductivity (and mass) of the sample material:
The risk of gap formation increases the faster the mounting material cools (special caution with filler-free systems and methacrylates).

SAMPLE GEOMETRY

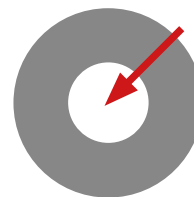
Both the sample geometry and the arrangement of the samples or the distances of the samples to the mounting mould can lead to different results.

Too small distances between the individual samples or to the edge of the mould can cause gap formation and promote crack formation (a distance of about 2-3 mm should be maintained).

Geometry



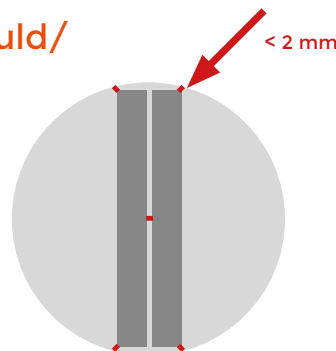
SIMPLE



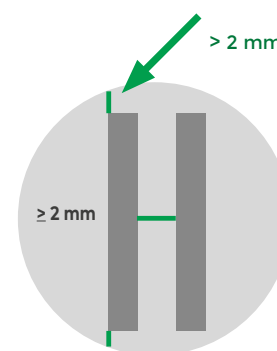
DEMANDING

Distance

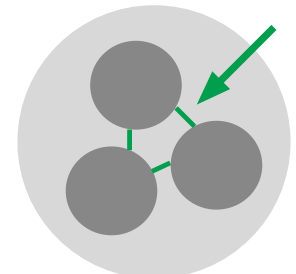
Sample-Mounting mould/
Sample-Sample



WRONG



CORRECT

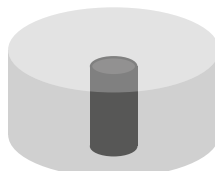


Optimizing process time

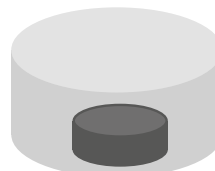
The heating and cooling times during hot mounting are limited by the low thermal conductivity of the mounting materials. To shorten the process time, the heat path through the resin should be minimized, and maximum thermal conductivity to the sample should be ensured. For metallic samples, the times can be significantly reduced by optimizing the amount of mounting material, choosing the smallest mounting diameter, using the correct sample dimensions, and maximizing the contact area with the press cylinder.



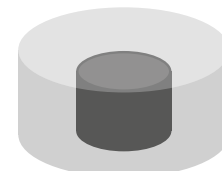
BAD



BAD



BAD

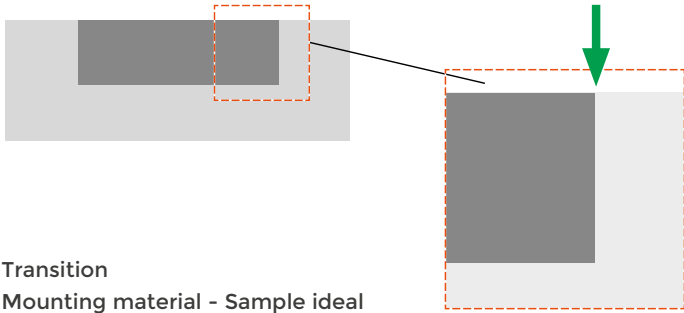


GOOD

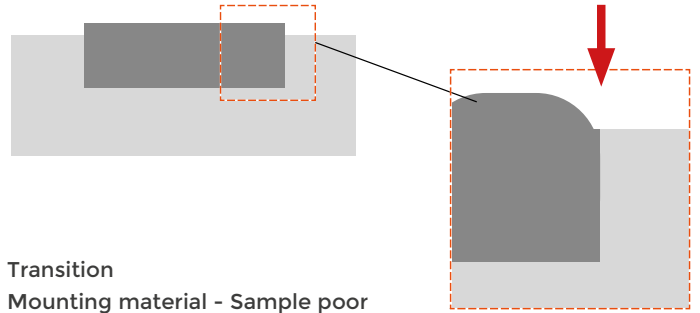
Hardness of mounting material

For a sharp-edged preparation and protected edge areas, it is absolutely critical to consider the correct hardness of the mounting material.

Equal hardness for sample and mounting material

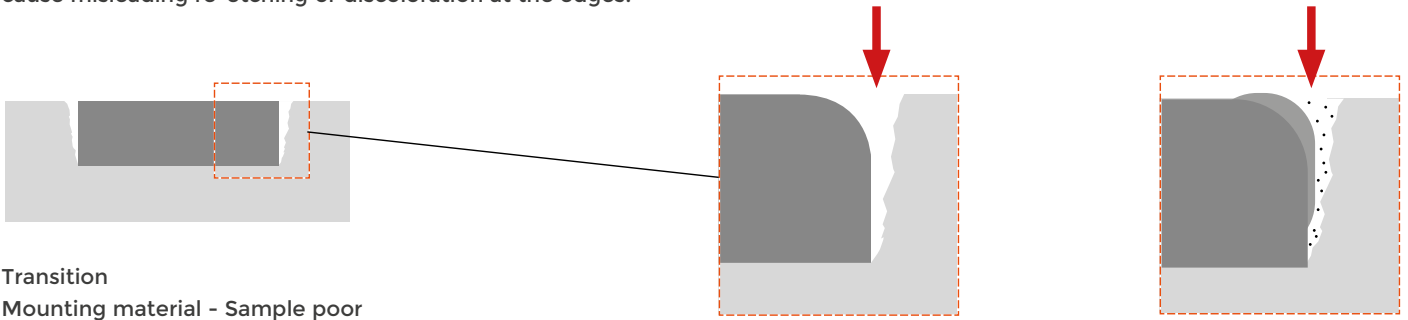


Different hardness for sample and mounting material



Gap-formation

The mounting should be as gap-free as possible. Edge gaps and rounded edges pose the risk of carrying over dirt and grinding or polishing particles, which can deteriorate the preparation result. Additionally, flowing etching agents or cleaning alcohol can often cause misleading re-etching or discoloration at the edges.



Notes

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	90	medium
BAKELIT RED	Routine work, soft to medium-hard materials, good for padding	Phenolic resin/ wood flour	90	medium

Notes

Qprep EPO BLACK

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



LABEL FREE

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
NEW FORMULA!		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. **EPO-MAX is currently our fastest hot mounting material!**



PRODUCT ADVANTAGES

- | Very low gap formation
- | High edge retention and plane-parallelism
- | Easy Cleaning of mould and ram due to low adhesion
- | Contains high contents of 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
- | 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
95017752	1 Pc.	Flat brush, size 20, for cleaning the hot mounting press
95017753	1 Pc.	Pointed angled tweezers, 160 mm, for positioning small samples
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



ACCESSORIES FOR HOT MOUNTING PRESSES

• for Hot Mounting Press Qpress 40

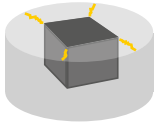
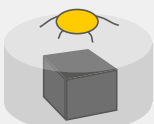
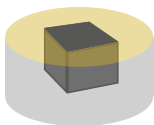

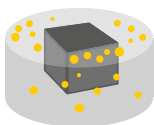
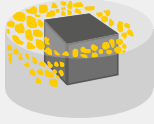
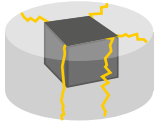

95017793	10 Pcs.	Vacuum cleaner bags for Qpress 40 vacuum cleaner
95017797	1 Pc.	HEPA fine dust filter for Qpress 40 vacuum cleaner
95016887	3 Pcs.	Descaling tablets

• for Hot Mounting Press Qpress 50

95014506	1 Pc.	Filter mat, 230 x 230 mm
95014507	1 Pc.	Particle filter, 250 x 250 x 190 mm, seal on both sides
95016887	3 Pcs.	Descaling tablets

Qnote TIPS & TRICKS FOR HOT MOUNTING MATERIALS



Problem	Cause	Solution
EDGE CRACKS 	Sharp-edged sample or sample mounted too close to the edge	Round off edges if possible, mount sample at least 3 mm from the edge For epoxy resins: Replace EPO-Max with EPO BLACK
BULGES/ BUBBLE FORMATION 	Cooling time too short Cooling intensity too low Thermal decomposition of the mounting material (internal bubble formation)	Extend cooling time Increase cooling intensity Check cooling water supply Significantly lower target temperature
DULL SURFACE 	Heating/curing time too short	Increase heating time
GAP BETWEEN SAMPLE AND MOUNTING MATERIAL 	Incorrect mounting material Sample too big Sample not cleaned	Use mounting material with lower shrinkage/better adhesion If possible, separate the sample Increase the pressing pressure Clean and degrease the sample Clean the mould
POROSITY 	Temperature too high Not enough mounting material Humidity in mounting material	Lower the heating temperature Increase the amount of mounting material Dry the mounting material at elevated temperatures
INDIVIDUAL GRAINS VISIBLE IN THE MOUNT <i>(THERMOSETS)</i> 	Curing of the mounting material without (sufficient) pressure Curing before applying pressure	Increase the pressure during heating Shorten the pressureless heating phase
INTERNAL CRACKS <i>(THERMOPLAST)</i> 	Heating time too short Cooling intensity too high	Extend the heating time Extend the cooling time Reduce the cooling intensity
„CLOUD FORMATION“ <i>(THERMOPLAST)</i> 	Heating time too short Incomplete melting of the mounting material	Extend the heating time Extend the cooling time Refer to appropriate sample size

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. 50 °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
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 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.



Video:
Mounting with
acrylic resin



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
NEW FORMULA!		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
95011629	500 ml	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.



Video:
Mounting with
acrylic resin



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.



Video:
Mounting with
acrylic resin

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.



Video:
Mounting with
acrylic resin

**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
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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.



Video:
Mounting with
acrylic resin

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
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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.



Video:
Mounting with
epoxy resin

**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

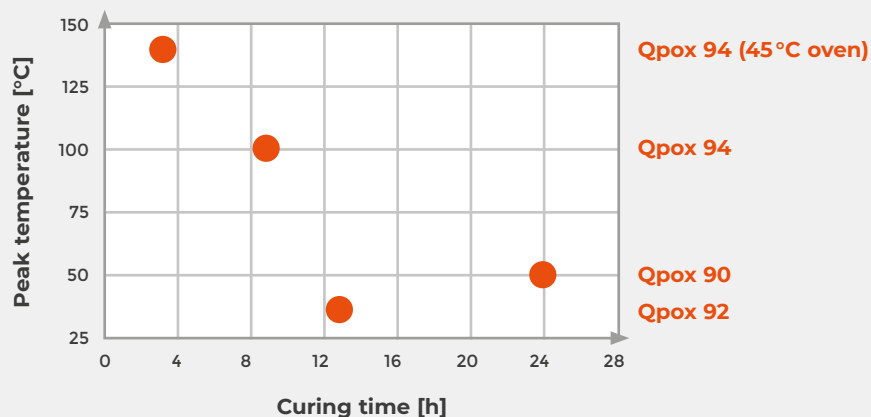
RECOMMENDED APPLICATIONS

- | 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.



Video:
Mounting with
epoxy resin



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
		<ul style="list-style-type: none"> • transparent, suitable for vacuum infiltration • 2-components-system: resin + hardener (2:1 [weight-%])
95017538	1 Set	1 l resin, 500 ml hardener 40 mixing cups, 40 mixing sticks
95017496	1 l	Resin
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 approx. one hour favors the infiltration of porous materials. For optimal curing at RT, the sample can be covered with a mixing cup. 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. Likewise, the final hardness can be increased by slight heating.



Notes

Qnote TIPS & TRICKS FOR COLD MOUNTING MATERIALS



Problem	Cause	Solution
BUBBLE FORMATION ALONG SAMPLE 	Temperature too high during curing Insufficient degassing (epoxy resin) Surface tension Air stirred in	Active cooling/reduce amount of mounting material/cure in layers Clean sample before mounting and degas epoxy resin under vacuum Move sample slightly after pouring the resin Stir mounting material without bubble incorporation
DISCOLORATION (EPOXY RESIN) 	Temperature too high during curing Too much mounting material in relation to the sample	Active cooling/reduce amount of mounting material/cure in layers
AIR INTAKE AT THE EDGE SURFACE (EPOXY RESIN) 	Temperature too high Mounting mould not sealing tightly	Active cooling Use less mounting material Use thick-walled Qprep PTFE moulds
STICKY/RUBBERY SURFACE (EPOXY RESIN) 	Curing temperature insufficient Curing time too short Too much hardener	Mount sample under heat Increase curing time/add "post curing" step Follow recommended ratio
GAP BETWEEN SAMPLE AND MOUNTING MATERIAL 	Wrong mounting material Sample not cleaned Mounting material too hot during curing (epoxy resin)	Use mounting material with less shrinkage/better adhesion Separate sample if possible Clean and degrease sample thoroughly Active cooling/use less mounting material
STRONG SHRINKAGE 	Peak temperature too high Insufficient degassing Insufficient mixing Too much mounting material Processing time („gel time“ / „pot life“) exceeded	Active cooling Sufficient evacuation/degassing in infiltration unit Ensure homogeneous mixture Pour less mounting material Prepare less mounting material/pour faster
POROSITY (POLYESTER & METHACRYLATE) 	Bubble release during reaction Stirred-in bubbles	Cure under pressure (Qprep Pressure) Stir without bubbles (epoxy resin >25 g, <150 g)
GREASY SURFACE (POLYESTER & METHACRYLATE) 	Insufficient mixing of powder and liquid Too much liquid	Stir for at least 30 seconds/stir in powder gradually/let swell for 10-15 seconds after stirring Follow recommended ratio
INHOMOGENEOUS MIXTURE (POLYESTER & METHACRYLATE) 	Curing of mounting material without (sufficient) pressure Curing before applying pressure	Let mixture swell for 10-15 seconds after stirring, briefly stir again Replace powder component due to absorbed ambient moisture
HOLLOW REGIONS (POLYESTER & METHACRYLATE) 	Pouring too quickly Air bubbles stirred in	Pour mounting material slowly over spatula onto the sample Pre-apply small amount of mounting material, place the sample on it, and pour the remaining mounting material Stir without bubbles
NO PLAN PARALLELISM AFTER GRINDING 	Uneven distribution of load during preparation Sample not mounted centrally	Place sample centrally

COLD MOUNTING - TOOLS

The mounting process can be supported by different methods. The properties of the respective sample material and mounting material must be taken into account.

VACUUM PROCEDURES

- Mounting under reduced pressure is only possible with epoxy resins
- Requires a vacuum infiltration unit
- Method is used for the infiltration of porous sample material and for optimization with samples that have thin boreholes, fine pores, or microcracks.

PRESSURE PROCEDURES

- Applying pressure with cold mounting materials leads to gap-free mounting
- Pressure device with compressed air connection required
- Under pressure during curing, bubble formation is suppressed, and methacrylates cure transparently
- Epoxy resins can infiltrate samples even better after vacuum infiltration when pressure is applied

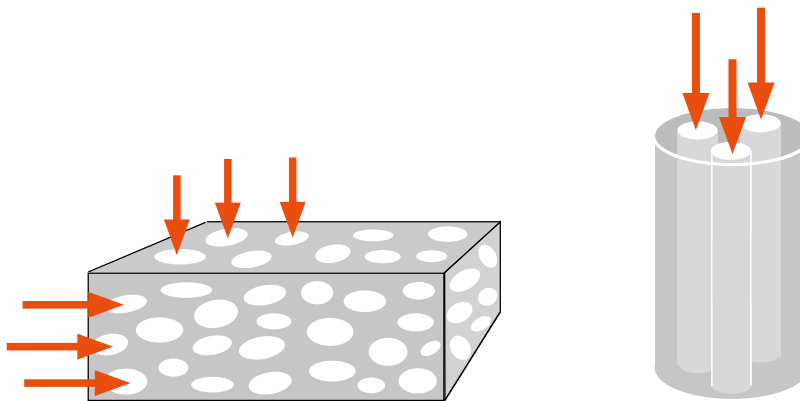


Diagram: Infiltration of porous material or thin boreholes

TIPS & TRICKS VACUUM INFILTRATION

Problem	Solution
Mounting material too brittle/soft	Control resin/hardener ratio
Severe bubble formation in the mounting material and on the surface	Vacuum too long and/or too high; recommendation: 0.6-0.8 bar, approx. 2-3 min
Infiltration incomplete	Evacuate longer

TIPS & TRICKS PRESSURE MOUNTING

Problem	Solution
Bad transparency	Too long mixing time Too late pressure increase Insufficient pressure Incorrect mixing ratio

Qnote

Caution: A vacuum set too high and applied for too long can affect polymerization, leading to uneven curing and thus varying results. The dosage of epoxy resins must be precisely adhered to and should therefore always be measured by weight percentage (e.g., using a laboratory scale).



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

A fast and safe alternative

UV mounting offers a modern solution for sample preparation and is particularly suitable for high sample throughput and routine applications with simple geometries. This method uses UV light to cure special methacrylates and offers numerous advantages over traditional methods.

What is UV mounting?

UV mounting is based on the irradiation of a UV-reactive and one-component mounting medium with UV light (365 nm), enabling fast and controlled curing. Within 60 seconds, the sample is ready for use without pressure or high temperatures.



Vorteile des UV-Einbettens

- No mixing errors and lower emissions:** Single-component, solvent-free systems eliminate mixing errors and reduce harmful emissions.
- Fast curing:** Only 60 seconds compared to 10-20 minutes with traditional systems.
- Lower heat load:** UV mounting methods reach lower temperatures and are ideal for sensitive samples.
- High quality and reproducibility:** Bubble-free, transparent samples without a pressure pot.
- Safety and efficiency:** Modern LED technology and fume extraction make the method safe and easy to use.



Areas of application

UV mounting is particularly suitable for metallic samples, functional ceramics, and soft to medium-hard materials with simple geometries, where no artifact formation due to heat or pressure should occur.

PROPERTIES OF UV MOUNTING MATERIALS

Mounting Material	Recommended Application	Basis	Curing time	Curing temperature	Hardness (Shore D)	Removal rate (grindability)
Qprep UV 50	For standard samples, soft to medium hard materials, targeted preparation	Modified methacrylate	approx. 60 s	approx. 90 °C	83	high
Qprep UV 55	Mounting with lower gap formation of standard samples, soft to medium-hard materials, specimen preparation and surface inspection	Modified methacrylate	8- 10 minutes	approx. 95 °C	83	high

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 $\lambda = 365 \text{ nm}$).



Video:
UV mounting
with the Qmount

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



Qnote

Always use UV-transparent moulds based on PP or our Qprep Qmould Clear to ensure optimal curing of the samples. Clean the cured samples in an ethanol bath to achieve the highest possible surface quality and remove the sticky residues of the release agent. However, avoid unnecessary long exposure to ethanol. Mount large samples or samples intended for longitudinal sectioning in multiple layers, if necessary. Layer-by-layer pouring of the mounting medium is possible and reduces heat input.



Notes

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.



Video:
UV mounting
with the Qmount



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: 8 - 10 min
- | Hardness (Shore D): 83
- | Removal rate: High

RECOMMENDED APPLICATIONS

- | Highly transparent for targeted preparations
- | Preparation of surface-coated materials with low to medium hardness
- | Gap-free UV mountings of, e.g., weld seams for routine inspection
- | For the examination of fine components, such as coated copper wires
- | Materialographic samples of histological materials, such as bones and teeth



Item No.	Unit	Description
UP TO 70% REDUCED GAP FORMATION COMPARED TO QPREP UV 50		UV MOUNTING MATERIAL QPREP UV 55 Basis: Modified methacrylate <ul style="list-style-type: none"> • transparent • 1-component system
		95017495 1 l All-in-one liquid

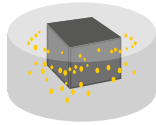
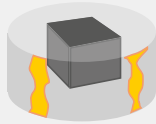
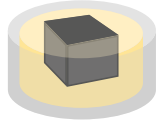
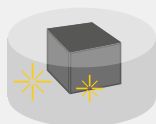

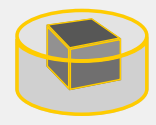
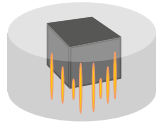
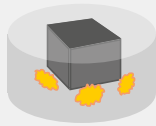
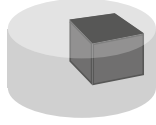
Qnote

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.



Qnote TIPS & TRICKS FOR UV MOUNTING MATERIALS



Problem	Cause	Solution
AIR BUBBLES ALONG THE SAMPLE 	Trapped air bubbles rise Surface tension Stirred air	Active cooling/reducing amount of mounting resin/ curing in layers Clean sample before mounting and degas epoxy resin under vacuum Moving the sample after pouring Mix the mounting resin without bubbles
LIQUID/GELLED AREAS AT THE EDGE 	Insufficient curing in the outer area	Reduce distance from the edge in Qmount Use Qprep PP or Qmould Clear moulds
INSUFFICIENT CURING 	Use of unsuitable moulds Shading by sample UV intensity too inhomogeneous	Use QPREP PP or Qmould Clear moulds Longer exposure time Cure in layers Use lower sample height
STICKY/RUBBERY SURFACE 	If still present after ethanol cleaning: Insufficient irradiation time Swelling due to prolonged ethanol exposure & insufficient curing	Increase exposure time Minimize ethanol exposure For areas not accessible to UV and shading: Use Qprep cold mounting materials
EXCESSIVE GAP FORMATION 	UV resin shrinks excessively Sample not cleaned Mounting material too hot during curing	Use mounting material with less shrinkage (UV 50 -> UV 55) Separate sample if possible Avoid hollow radii Clean and degrease sample Use less mounting material per irradiation cycle
STRONG SHRINKAGE 	Peak-Temperature too high Too much mounting resin	Evacuate/degas in infiltration unit Use less mounting material per irradiation cycle
RISING STREAKS IN THE CENTER OF THE SAMPLE (QPREP UV 50) 	Irradiation intensity too high	Vary irradiation position (on/between LEDs) Use less mounting resin per irradiation cycle
BUBBLES NEAR THE SAMPLE/BACK OF THE MOUNT (QPREP UV 55) 	Irradiation intensity too high incorporated air bubbles	Vary irradiation position (on/between LEDs) Pre-apply a small amount of mounting material, place the sample on the resin, and pour the remaining mounting material Stir without bubbles
NO PLAN PARALLELISM AFTER GRINDING 	Uneven distribution of load during preparation Sample not mounted centrally	Place sample centrally

Qprep Cold and UV 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.



Video:
Qprep mounting
moulds

Qmould Grey, round, without chamfer

- | Two-piece design with practical handles and flexible material for easy removal and demoulding
- | Compatible with epoxy resins, ideal for low-shrinkage resins like Qpox; alternative to silicone moulds

Qmould Clear, round, without chamfer

- | High UV transparency for optimal curing of Qprep UV resins, suitable for UV and acrylic resins
- | Handles facilitate sample placement; direct alternative to PP mounting moulds

Qmould White, round, without chamfer

- | Durable design with resilient material and handles, ideal for high heat
- | Cost-effective alternative to Teflon mounting moulds, suitable for polyester and acrylic resins



PTFE, beveled edge, round

- | Very long service life and shape stability
- | High strength, for particularly flat mountings

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, without chamfer

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

Polyethylene, round, without chamfer

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

Item No.	Unit	Description
COLD AND UV MOUNTING MOULDS		
Qmould Grey, round, without chamfer		
<ul style="list-style-type: none"> • not suitable for UV mounting • with exchangeable bottom 		
95017577	5 Pcs.	Ø 40 mm / H 25 mm
95017578	5 Pcs.	Ø 50 mm / H 25 mm
Qmould Clear, round, without chamfer		
<ul style="list-style-type: none"> • suitable for UV mounting • with exchangeable bottom 		
95017575	5 Pcs.	Ø 40 mm / H 25 mm
95017576	5 Pcs.	Ø 50 mm / H 25 mm

Item No.	Unit	Description
COLD AND UV MOUNTING MOULDS		
Qmould White, round, without chamfer		
<ul style="list-style-type: none"> • not suitable for UV mounting • with exchangeable bottom 		
95017579	5 Pcs.	Ø 40 mm / H 25 mm
95017580	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
95017045	3 Pcs.	Ø 40 mm / H 30 mm
95017046	3 Pcs.	Ø 50 mm / H 30 mm
95017047	3 Pcs.	Ø 70 mm / H 30 mm
Silicon rubber round, beveled edge		
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • 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, without chamfer		
<ul style="list-style-type: none"> • 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. Will be replaced by Qmould Clear 95017575
Polyethylene round, without chamfer		
<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. Will be replaced by Qmould White 95017579
95017040	5 Pcs.	Ø 50 mm / H 25 mm. Will be replaced by Qmould White 95017580





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

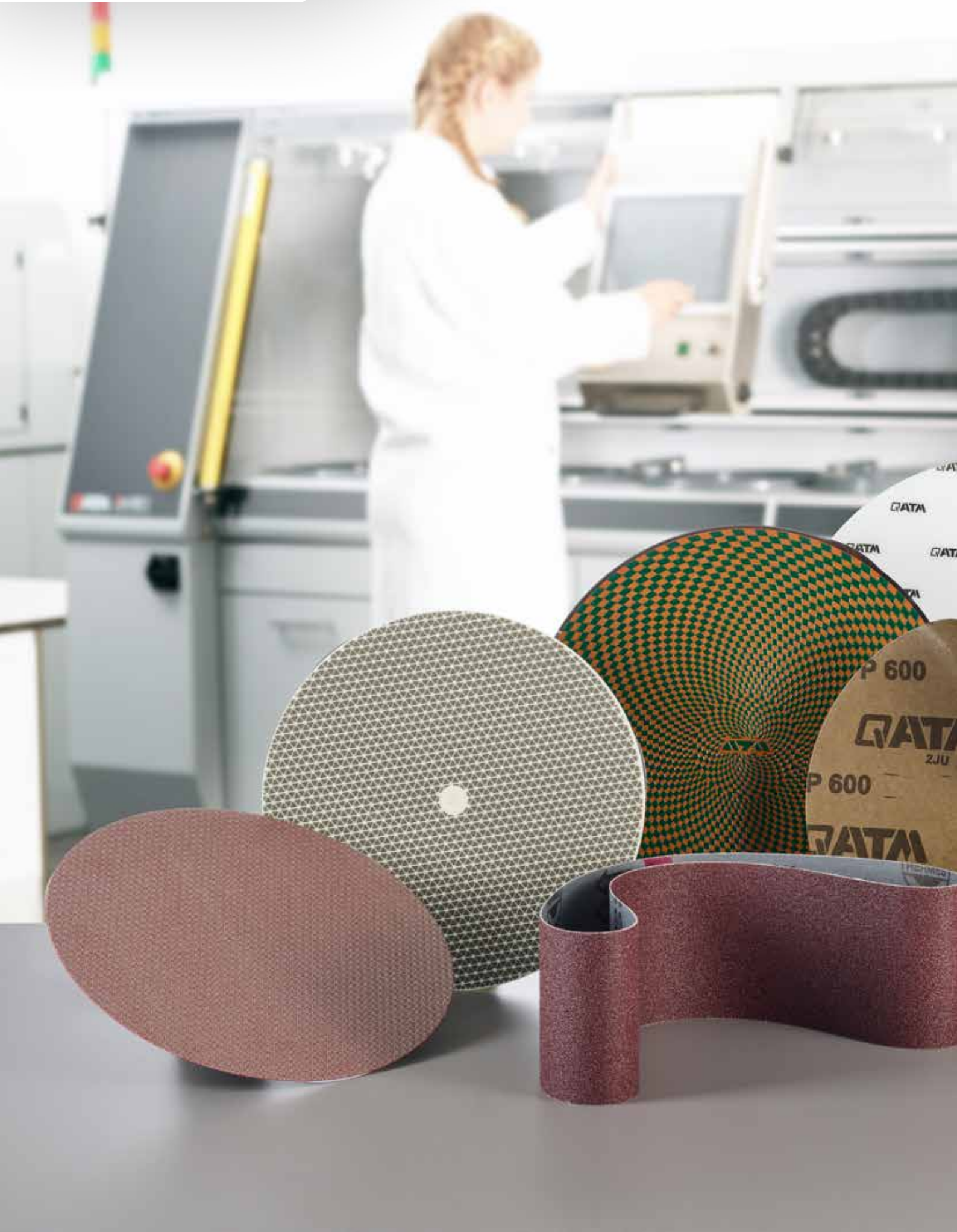
PRODUCT ADVANTAGES

- | 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

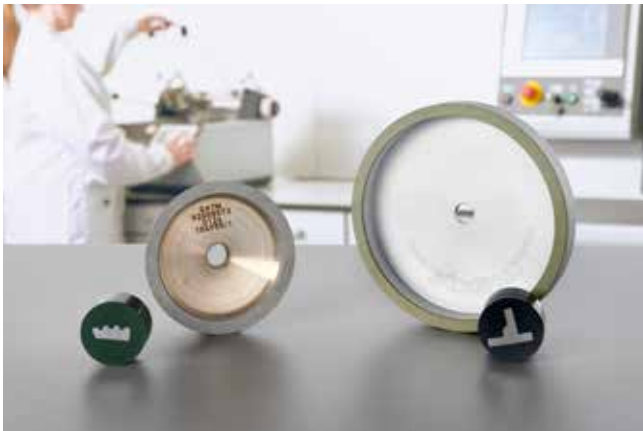
Item No.	Unit	Description				
PLANAR GRINDING STONES FOR QGRIND XL						
		<table border="1"> <thead> <tr> <th>Grain Size FEPA standard</th> <th>Outer Ø</th> <th>Inner Ø</th> <th>Abor Size Ø</th> </tr> </thead> </table>	Grain Size FEPA standard	Outer Ø	Inner Ø	Abor Size Ø
Grain Size FEPA standard	Outer 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				
95017565	1 Pc.	150 356 mm 126 mm 38 mm				
SIC grinding stone • for sintered materials (low- and unalloyed), aluminum, chilled cast iron, copper						
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																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Grain Size FEPA standard</th> <th>Outer Ø</th> <th>Inner Ø</th> <th colspan="2">Arbor Size Ø</th> </tr> </thead> <tbody> <tr> <td colspan="5">White corundum grinding stone</td> </tr> <tr> <td colspan="5">• for tool steel (hardened and not hardened), stainless steel, steel and cast iron</td> </tr> <tr> <td colspan="5">• glued on metal carrier plate</td> </tr> <tr> <td>95000180</td> <td>1 Pc.</td> <td>100</td> <td>350 mm</td> <td>90 mm</td> <td>40 mm</td> </tr> <tr> <td>95000210</td> <td>1 Pc.</td> <td>150</td> <td>350 mm</td> <td>90 mm</td> <td>40 mm</td> </tr> <tr> <td>95002034</td> <td>1 Pc.</td> <td>180</td> <td>350 mm</td> <td>90 mm</td> <td>40 mm</td> </tr> </tbody> </table>						Grain Size FEPA standard	Outer Ø	Inner Ø	Arbor Size Ø		White corundum grinding stone					• for tool steel (hardened and not hardened), stainless steel, steel and cast iron					• glued on metal carrier plate					95000180	1 Pc.	100	350 mm	90 mm	40 mm	95000210	1 Pc.	150	350 mm	90 mm	40 mm	95002034	1 Pc.	180	350 mm	90 mm	40 mm
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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
- | High degree of reproducible 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 allows to find the best solutions for individual requirements. All abrasive elements are deposited on a metal carrier, so they can be directly applied on the QPREP magnetic foil without further tools. The grinding elements have only 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 while maintaining long life times. This contributes 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



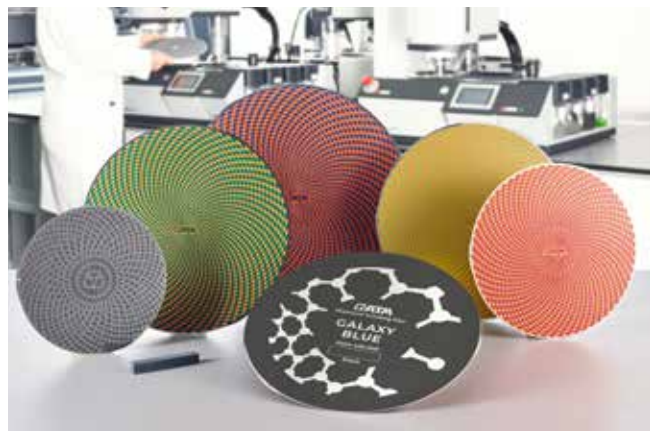
Applying the magnetic foil



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 contain 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.



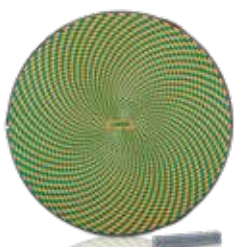
PRODUCT ADVANTAGES

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

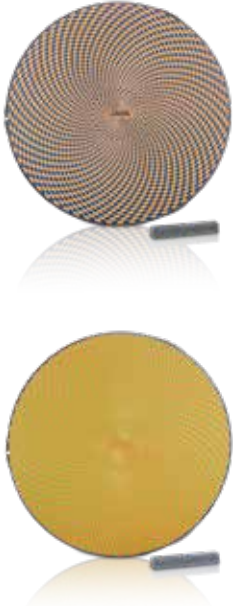
RECOMMENDED APPLICATIONS

- | 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 backside 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 backside of the product is coated with a high-quality non-slip print. The grinding disc is equipped with diamonds bonded in hard synthetic resin. The functional back print provides secure adhesion to the magnetic foil.



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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



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

Notes

Qprep QUASAR diamond grinding disc

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

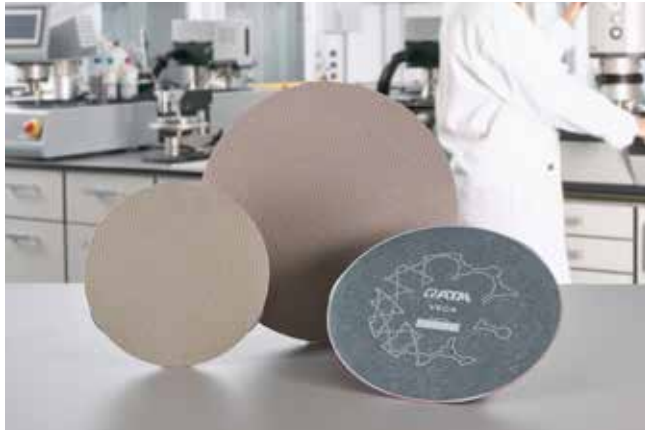


Item No.	Unit	Description	
QUASAR DIAMOND GRINDING DISCS			
		Description	Grain Size
		for hard materials • incl. dressing stone No. (95015076) • Fixation system: Magnetic foil	
		250 mm Ø	
95015006	1 Pc.	QUASAR diamond grinding disc	252 µm
95015007	1 Pc.	QUASAR diamond grinding disc	125 µm
95015008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

Notes

Qprep VEGA diamond grinding disc

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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



Qprep CONTERO fine grinding discs

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



Video:
CONTERO H

CONTERO S: PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

CONTERO H: PRODUCT ADVANTAGES

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

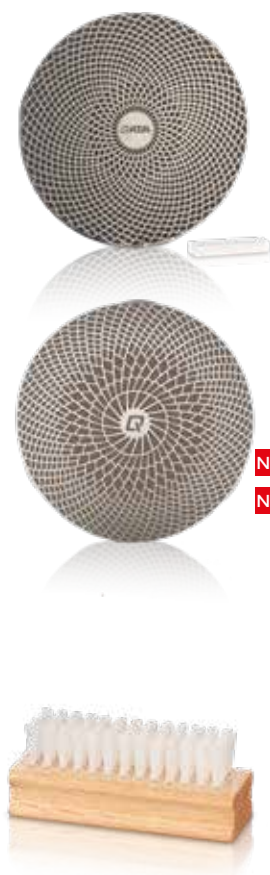
RECOMMENDED APPLICATIONS

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

Item No.	Unit	Description
CONTERO S FINE GRINDING DISCS		
		Description Ø
for soft to medium-hard materials		
• Fixation system: Magnetic foil		
95013194	1 Pc.	Contero S fine grinding disc 250 mm
95013196	1 Pc.	Contero S fine grinding disc 300 mm

CONTERO H FINE GRINDING DISCS			
		Description Ø	
for medium-hard to hard materials			
• Fixation system: Magnetic foil			
NEW	95017605	1 Pc.	Contero H fine grinding disc 250 mm
NEW	95017606	1 Pc.	Contero H 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



Grinding papers and foils

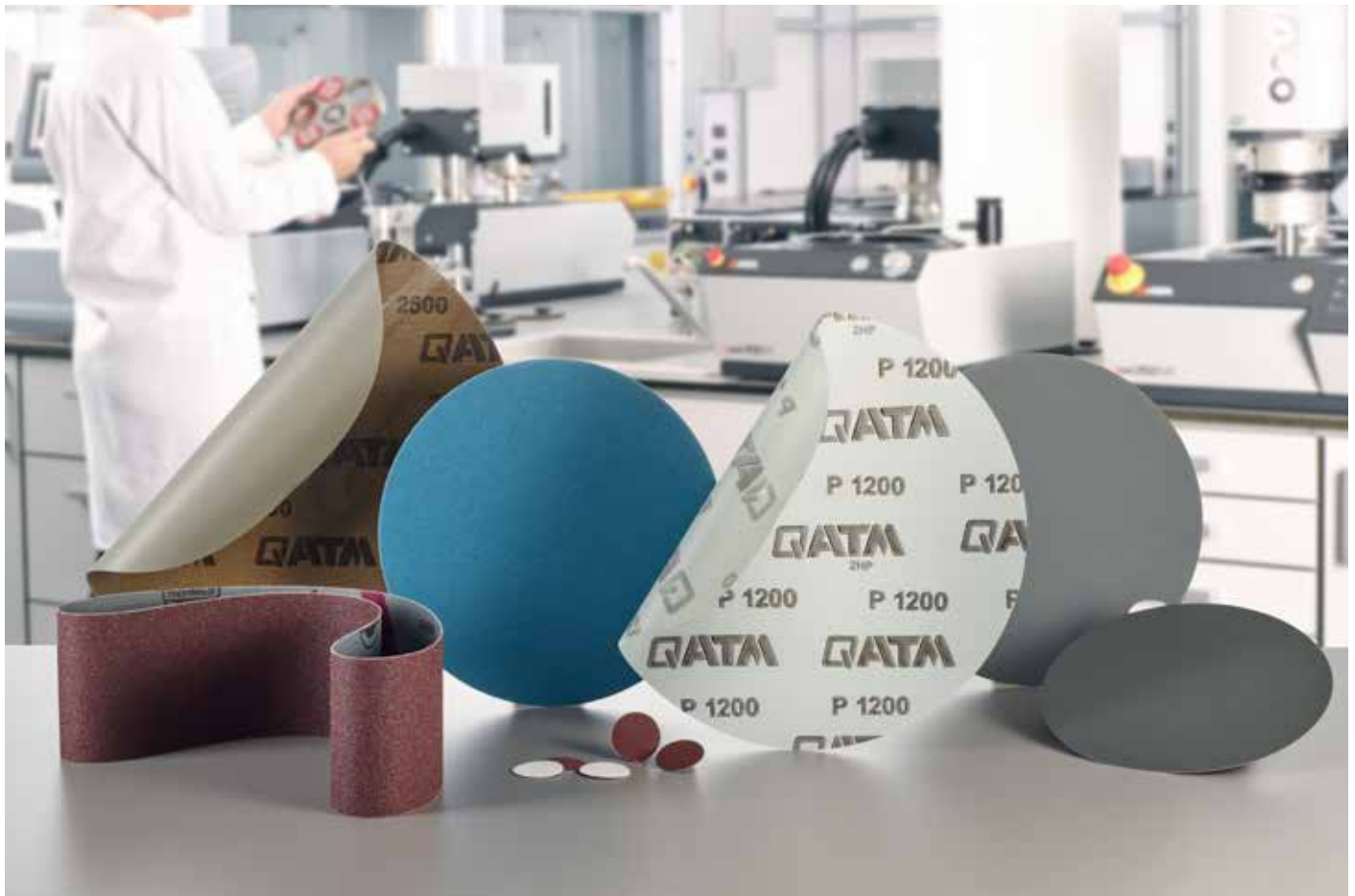
As an alternative to QPREP grinding discs, specimen preparation is also possible using QPREP grinding papers and foils. These differ in the type of carrier material and the possibility of the fixation systems to be used (double-sided adhesive carrier, GALAXY X-Tap, GALAXY Quick-Tap).

Grinding papers:

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

Grinding foils:

- I Back foil, carrier material foil



Notes

FIXATION SYSTEM FOR GRINDING FOILS AND PAPERS WITH FOIL BACKING

Qprep Adhesive carrier disc

The QPREP adhesive carrier is characterized by a nano-surface, which ensured good adhesion and easy removal of the grinding medium. **Alternative fastening systems:** The GALAXY Quick-Tap is compatible with grinding paper with and without foiled back side. For diameters of 350 mm we recommend the GALAXY X-Tap with self-adhesive grinding paper.



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

Please remove protective foil on both sides before initial use



Applying the adhesive carrier disc



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

Notes

Qprep Silicon carbide grinding foils

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

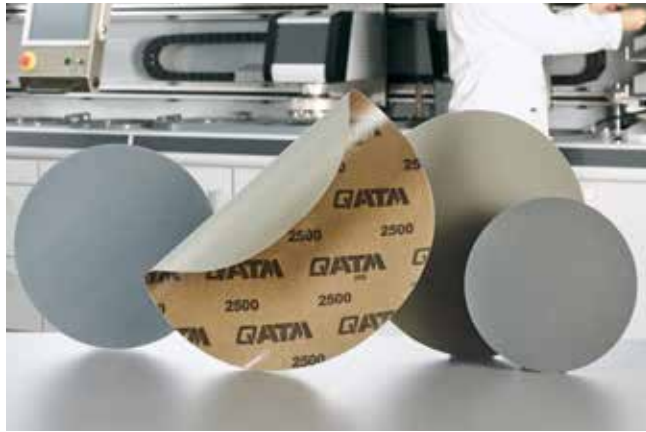
- | All-purpose usage
- | Suitable for planar, pre- and fine grinding steps due to different grain sizes

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

Notes

Qprep Silicon carbide grinding paper with foil backing

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



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
- | Alternatively also available as self-adhesive version or without adhesive/foil backing

Item No.	Unit	Description
SILICON CARBIDE GRINDING PAPER WITH FOIL BACKING		
Grain FEPA standard		
• Fixation system: Adhesive carrier disc		
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
300 mm Ø		
95011943	100 Pcs.	SiC grinding paper with foil backing P80
95011944	100 Pcs.	SiC grinding paper with foil backing P120
95011945	100 Pcs.	SiC grinding paper with foil backing P180
95011946	100 Pcs.	SiC grinding paper with foil backing P240
95011947	100 Pcs.	SiC grinding paper with foil backing P320
95011948	100 Pcs.	SiC grinding paper with foil backing P400
95011949	100 Pcs.	SiC grinding paper with foil backing P500
95011950	100 Pcs.	SiC grinding paper with foil backing P600
95011951	100 Pcs.	SiC grinding paper with foil backing P800
95011952	100 Pcs.	SiC grinding paper with foil backing P1000
95011953	100 Pcs.	SiC grinding paper with foil backing P1200
95011954	100 Pcs.	SiC grinding paper with foil backing P2500



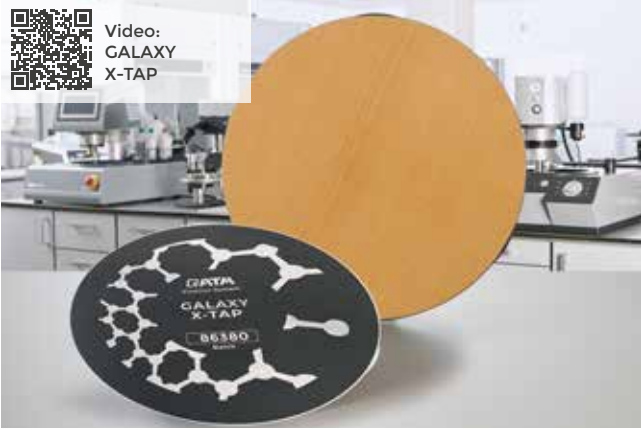
FIXATION SYSTEM FOR SELF-ADHESIVE GRINDING PAPER

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 easily attached thanks to the QPREP magnetic film due to its metal support plate. Like all of our newly developed GALAXY products, the GALAXY X-Tap also comes with our Qprep anti-slip back and thus ensures a secure hold on the QPREP magnetic film.



Video:
GALAXY
X-TAP


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



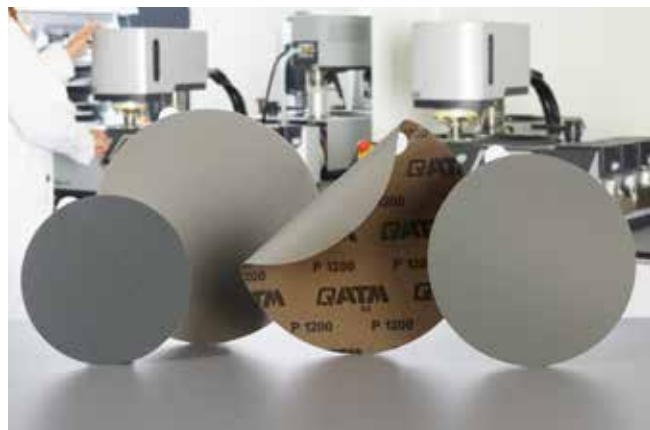
Applying GALAXY X-Tap on magnetic foil



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 / 300 and 350 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
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*
*slurried (uniform orientation of the abrasive particles), for a finer grinding pattern		
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*
*slurried (uniform orientation of the abrasive particles), for a finer grinding pattern		





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*
*slurried (uniform orientation of the abrasive particles), for a finer grinding pattern			
350 mm Ø			
95017771	100 Pcs.	SiC grinding paper	P80
95017772	100 Pcs.	SiC grinding paper	P120
95017773	100 Pcs.	SiC grinding paper	P180
95017774	100 Pcs.	SiC grinding paper	P240
95017775	100 Pcs.	SiC grinding paper	P320
95017776	100 Pcs.	SiC grinding paper	P400
95017777	100 Pcs.	SiC grinding paper	P600
95017778	100 Pcs.	SiC grinding paper	P800
95017779	100 Pcs.	SiC grinding paper	P1000
95017780	100 Pcs.	SiC grinding paper	P1200
95017781	100 Pcs.	SiC grinding paper	P2500

For SiC grinding paper, self-adhesive: If the protective film on the back is not removed, the product can be used like grinding paper with a foil backing. To do this, simply remove the pull tab.



Notes

FIXATION SYSTEM FOR SILICON GRINDING PAPERS WITHOUT ADHESIVE/FOIL BACKING

Qprep GALAXY QUICK-Tap

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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



Applying GALAXY Quick-Tap on magnetic foil



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

Qnote

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



Qprep Silicon carbide grinding papers without adhesive/foil backing

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



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

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

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

*slurried (uniform orientation of the abrasive particles), for a finer grinding pattern





Item No.	Unit	Description
SILICON CARBIDE GRINDING PAPERS WITHOUT ADHESIVE/FOIL BACKING		
Grain FEPA standard		
• Fixation system: GALAXY Quick-Tap or clamping ring		
230 mm Ø		
92001568	100 Pcs.	SiC grinding paper, plain backed P80
92001569	100 Pcs.	SiC grinding paper, plain backed P120
92001570	100 Pcs.	SiC grinding paper, plain backed P180
92001571	100 Pcs.	SiC grinding paper, plain backed P240
92001572	100 Pcs.	SiC grinding paper, plain backed P320
92001573	100 Pcs.	SiC grinding paper, plain backed P400
92001574	100 Pcs.	SiC grinding paper, plain backed P500
92001575	100 Pcs.	SiC grinding paper, plain backed P600
92001576	100 Pcs.	SiC grinding paper, plain backed P800
92001577	100 Pcs.	SiC grinding paper, plain backed P1000
92001578	100 Pcs.	SiC grinding paper, plain backed P1200
92004558	100 Pcs.	SiC grinding paper, plain backed P2500
92001579	100 Pcs.	SiC grinding paper, plain backed 4000*
*slurried (uniform orientation of the abrasive particles), for a finer grinding pattern		
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*
*slurried (uniform orientation of the abrasive particles), for a finer grinding pattern		
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*
*slurried (uniform orientation of the abrasive particles), for a finer grinding pattern		



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.

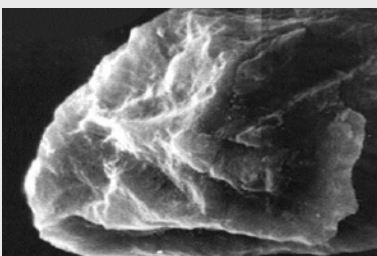
QPREP diamond suspensions are characterized by

- | 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.

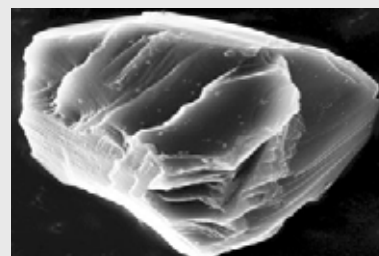
Polycrystalline (industrial) diamonds:

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		
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. In this process, a chemical-mechanical polishing is performed using colloidal silicon dioxide or aluminum oxide. A colloidal suspension is a heterogeneous mixture, in which fine particles are evenly distributed in a liquid, and do not settle. Fine polishing suspensions with colloidal silicon dioxide utilize this stability for effective and gentle polishing, which improves surface quality and consistently delivers high-quality results.



PRODUCT ADVANTAGES

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

RECOMMENDED APPLICATIONS

- l Detailed microstructure analysis
- l 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

For a deformation- and relief-free polishing result, choosing the right polishing cloth is crucial. The cloth material and texture (silk, artificial silk, synthetic fibers, wool fabric, felt, flocked or foamed synthetic fabrics) and the resulting impact elasticity play a decisive role in the selection of the suiting polishing cloth. The fastening systems (GALAXY metal disc with magnetic foil or GALAXY X-Tap) also differ, and can influence the polishing result.

The GALAXY polishing cloths, optimized with the QPREP anti-slip backing, withstand high shear forces even under high contact pressures and fully loaded sample holders, ensuring a stable polishing process at all times.

At the beginning of **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 ($3\ \mu\text{m}$ - $0.5\ \mu\text{m}$) or, for the highest demands for analysis, by using fine polishing suspensions (oxide polish $0.1\ \mu\text{m}$ - $0.05\ \mu\text{m}$) or (alumina $1\ \mu\text{m}$ - $0.3\ \mu\text{m}$).

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.



PROPERTIES OF QATM POLISHING CLOTHS

Polishing cloth	Recommended polishing stage	Cloth material & texture	Impact elasticity	Cloth hardness	Recommended grain sizes	Recommended application	Version GALAXY	Version Self-adhesive
ALPHA	Pre-polishing	Laminated chemotextile fabric, perforated	Low	Very hard	15/9 µm	For ceramics, hard metals, cast iron, and aluminum. Particularly long service life, material removal rate, and flatness.	✓	✓
BETA	Pre-polishing	Coated polyester fabric	Low	Hard	15/9/6 µm	Materials with high hardness, steel, cast iron, hard metals, ceramics	✓	✓
DELTA	Pre-polishing	Satin-woven acetate silk	Medium	Medium	9/6/3 µm	For carbon steels, precious metals, coatings, plastics (CFRP, GFRP), aluminum	✓	✓
GAMMA	Pre-and intermediate polishing	Satin-woven acetate silk	Medium	Medium	9/6/3 µm	For carbon steels, non-ferrous metals, coatings, plastics (CFRP, GFRP)	✓	✓
PHI	Pre-, intermediate and end polishing	Synthetic fiber	Medium	Medium	9/6/3/1 µm	For ferrous and non-ferrous metals, minerals, ceramics, composite materials	✓	✗
SIGMA	Intermediate and end polishing	Taffeta-bound wool	High	Soft	6/3/1 µm	For all materials	✓	✓
ETA	End polishing	Short-pile synthetic flock	High	Medium	3/1 µm	For all materials of medium to high hardness	✓	✗
IOTA	Final as well as ultra-fine polishing with fine polishing suspension	Dense and long-pile synthetic flock	Very high	Soft	3/1 µm	For all materials, especially hard materials. Suitable for oxide suspensions	✓	✓
ZETA	Final as well as ultra-fine polishing with fine polishing suspension	Dense and short-pile synthetic flock	Very high	Soft	3/1 µm	For all materials. Suitable for oxide suspensions as well as alumina	✓	✓
KAPPA	Ultra-fine polishing with fine polishing suspension	Thick polishing felt	High	Soft		For all materials. Suitable for alumina	✗	✓
OMEGA	Ultra-fine polishing with fine polishing suspension	Roughened polyurethane, porous	High	Soft		For all materials. Suitable for oxide suspensions (chemically resistant)	✓	✓
LAMBDA	Ultra-fine polishing with fine polishing suspension	Textured polyurethane, porous	High	Soft		For all materials. Suitable for oxide suspensions as well as alumina (chemically resistant)	✓	✗

Notes

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			
		Ø	thickness
Magnetic foil, strong adhesion			
• to apply on working wheel			
95016345	1 Pc.	200 mm	1 mm
95016346	1 Pc.	250 mm	1 mm
95012161	1 Pc.	300 mm	1 mm
95014137	1 Pc.	350 mm	1 mm
Magnetic foil, strongest adhesion			
• to apply on working wheel			
• increased magnetic adhesion by higher material thickness			
95016300	1 Pc.	250 mm	2 mm
95016301	1 Pc.	300 mm	2 mm



Applying the magnetic foil



Placing e.g. a 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.



Video:
GALAXY
Polishing cloths



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

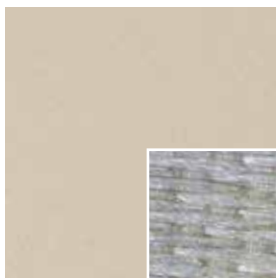
- Suitable for pre-polishing
- Hard synthetic cloth
- Materials with high hardness, steel, grey cast iron, hard metal, ceramics
- For use with diamond grain size: 15/9/6 µm
- Fixation system: Magnetic foil

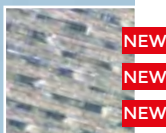
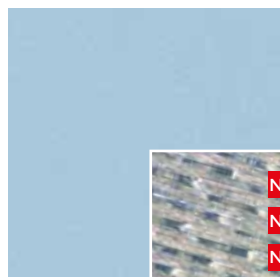
95001410	5 Pcs.	Beta 200 mm
95001411	5 Pcs.	Beta 250 mm
95001412	5 Pcs.	Beta 300 mm
95013995	5 Pcs.	Beta 350 mm

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





NEW

NEW

NEW

Item No.	Unit	Description
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GALAXY POLISHING CLOTH WITH METAL BACK
Description Ø
GAMMA – Polishing cloth

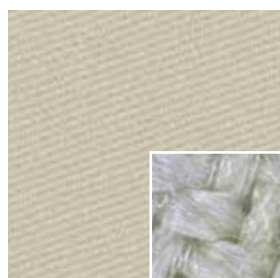
- Suitable for pre- & intermediate polishing
- Medium hard silk cloth
- C-steels, precious metal, coatings, plastics [CFK, GFK],
- For use with diamond grain size: 9/6/3 µm
- Fixation system: Magnetic foil

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


GALAXY – PHI

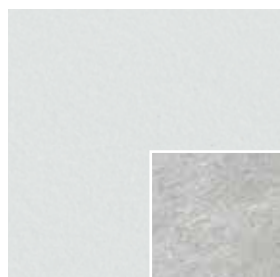
- Suitable for pre-, intermediate-, and end polishing
- Medium hard chemical fiber cloth
- For iron, non-ferrous metals, minerals, ceramics, composite materials
- For use with diamond grain size: 9/6/3/1 µm
- Fixation system: Magnetic foil

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


GALAXY – SIGMA

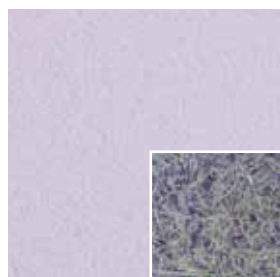
- Suitable for intermediate and end polishing
- Soft wool cloth
- For all materials
- For use with diamond grain size: 6/3/1 µm
- Fixation system: Magnetic foil

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
- Long 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 fastening system offers low impact elasticity and can be easily applied to the QPREP magnetic foil thanks to its metal carrier plate. Like all our newly developed GALAXY products, the GALAXY X-Tap is also equipped with a QPREP anti-slip backing, ensuring a secure hold on the QPREP magnetic foil.



Video:
GALAXY
X-TAP

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

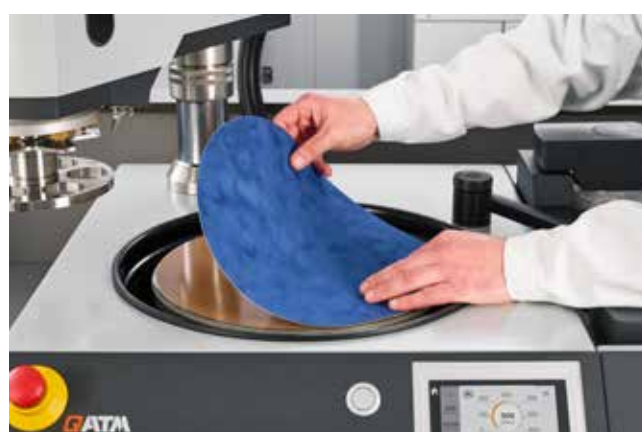
RECOMMENDED APPLICATIONS

- | 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
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POLISHING CLOTHS, SELF-ADHESIVE

Description Ø

ALPHA – Polishing cloth

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

92002564	5 Pcs.	Alpha 250 mm
92002573	5 Pcs.	Alpha 300 mm



BETA – Polishing cloth

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

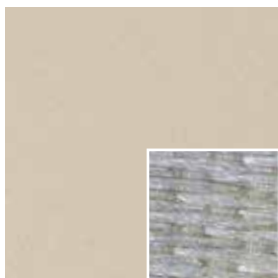
95006572	5 Pcs.	Beta 250 mm
95006573	5 Pcs.	Beta 300 mm

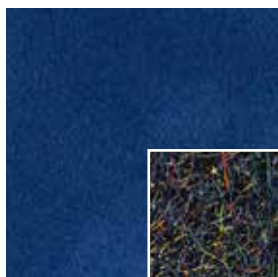
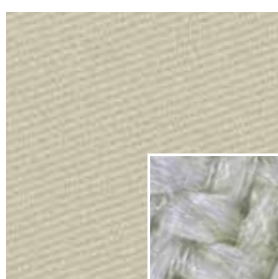


DELTA – Polishing cloth

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

92008802	5 Pcs.	Delta 250 mm
92008803	5 Pcs.	Delta 300 mm





Item No.	Unit	Description
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POLISHING CLOTHS, SELF-ADHESIVE

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: GALAXY X-Tap

92002558	5 Pcs.	Gamma 200 mm
92002567	5 Pcs.	Gamma 250 mm
92002576	5 Pcs.	Gamma 300 mm

SIGMA – Polishing cloth

- 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

- Suitable for end polishing as well as fine polishing with fine polishing suspension
- Long 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

- 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

- 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 Filter inserts for settling tank

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

Qprep Filter cartridges for Qpol 300 BOT

The Qpol 300 BOT grinding and polishing machine automates the entire preparation process, including cleaning the sample holders between preparation steps. The cleaning station is used for fully automatic, multi-stage cleaning of the sample with water, ultrasound and air and optionally with ethanol. The cleaning medium in the ultrasonic tank is cleaned using an integrated recirculating filter system. The filter cartridges of this recirculating filter system are interchangeable and available in different mesh sizes.



Item No.	Unit	Description	Filter fineness	Height	Inner-Ø	Outer-Ø
FILTER CARTRIDGES FOR QPOL 300 BOT						
Filter cartridge 5 µm for circulation filter system of the ultrasonic cleaning tank						
92007119	1 Pc.	5 µm	5 µm	248 mm	28 mm	64 mm
Filter cartridge 150 µm for circulation filter system of the ultrasonic cleaning tank						
92007120	1 Pc.	150 µm	150 µm	248 mm	28 mm	62 mm

Notes





Consumables for geology and mineralogy



Qprep Geology and mineralogy



Materialographic sample preparation is an essential step in the qualitative and quantitative analysis of geological and mineralogical samples. Whether you want to analyze rocks, ores, minerals or fossils, you need a reliable and precise method to cut, mount, grind and polish your samples.

With QATM equipment and consumables, you can optimize this process and achieve high-quality results.

Item No.	Unit	Description
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ACCESSORIES FOR GEOLOGY AND MINERALOGY

Description

Bonding jig

- For fixing the thin sections on microscope slides and covering the samples with coverslips
- Special pressure transducers for the simultaneous processing of four samples
- For traditional mounting media and adhesives



95017722	1 Pc.	Bonding jig
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Slides



95017713	50 Pcs.	Slide 48x28 mm, cutted edges, clear
95017714	50 Pcs.	Slide 48x28 mm, ground edges, clear
95017715	50 Pcs.	Slide 48x28 mm, cutted edges, matted
95017716	50 Pcs.	Slide 48x28 mm, ground edges, matted

Coverslip



95017717	100 Pcs.	Coverslip 24x24 mm
95017718	100 Pcs.	Coverslip 24x40 mm



Slide boxes

- For safe storage of 48x28 mm microscope slides, wood, sustainable and durable

95017719	1 Pc.	Slide box for 25 slides, wood
95017720	1 Pc.	Slide box for 50 slides, wood
95017721	1 Pc.	Slide box for 100 slides, wood



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 <ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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.): <ul style="list-style-type: none"> • 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 \varnothing 40.5 mm (Order No.: 95003985) • 1 pc dolphin clamp (Order No.: 82000374)



UP TO 40%
FASTER THAN
VISIPRO-I

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)
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.
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)
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)
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)
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



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
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		
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



Item No.	Unit	Description
SPECIMEN DRYING UNIT		
Description		
Specimen drying unit <ul style="list-style-type: none"> • Hot air blower with push button • Frame made of HPL solid material • Stainless steel tray made of perforated sheet for placing specimens • With underlying water protection mat • Dimensions W x H x D: 350 x 670 x 370 mm 		
A5810355	1 Pc.	Specimen drying unit for set up on table
A5810419	1 Pc.	Specimen drying unit, with wall bracket

ULTRASONIC CLEANING DEVICES		
Description		
Ultrasonic cleaning device 100 Interior approx. W x H x D: 240 x 140 x 100 mm, capacity: 3 liters HF power: 80 W, connection: 230 V/50 Hz (1 Ph/N/PE)		
92002613	1 Pc.	US 100, rotary knob operation
92008794	1 Pc.	DT 100, digital push-button operation
92002609	1 Pc.	Perforated hanging basket
92002632	1 Pc.	Lid VA

Ultrasonic cleaning device 106 Internal diameter/height: 240/130 mm, capacity: 5.6 liters HF power: 120 W, connection: 230 V/50 Hz (1 Ph/N/PE)		
92005839	1 Pc.	US 106, rotary knob operation
95001285	1 Pc.	DT 106, digital push-button operation
92005840	1 Pc.	Perforated hanging basket
92005841	1 Pc.	Lid VA

Additional ultrasonic cleaning devices available upon request

Cleaning concentrate, alkaline <ul style="list-style-type: none"> • 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

CLEANING AIDS		
Description		
<ul style="list-style-type: none"> • 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



Item No.	Unit	Description
ELEKTROGRAVIERGERÄT		
Description		
95006339	1 Pc.	Electric engraving device for marking metal, glass, and plastic with 6 different tips
Z5690032	1 Pc.	Replacement tip set

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 • for parallel fixation of specimen on microscope slide • comfortable operation with minimal effort • compact, robust and durable • made of aluminum with anodised surface





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:



- | **Rockwell**
DIN EN ISO 6508-3 & ASTM E18
- | **Brinell**
DIN EN ISO 6506-3 & ASTM E10
- | **Vickers**
DIN EN ISO 6507-3 & ASTM E92
- | **Knoop**
DIN EN ISO 4545-3 & ASTM E92

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

ADVANTAGES

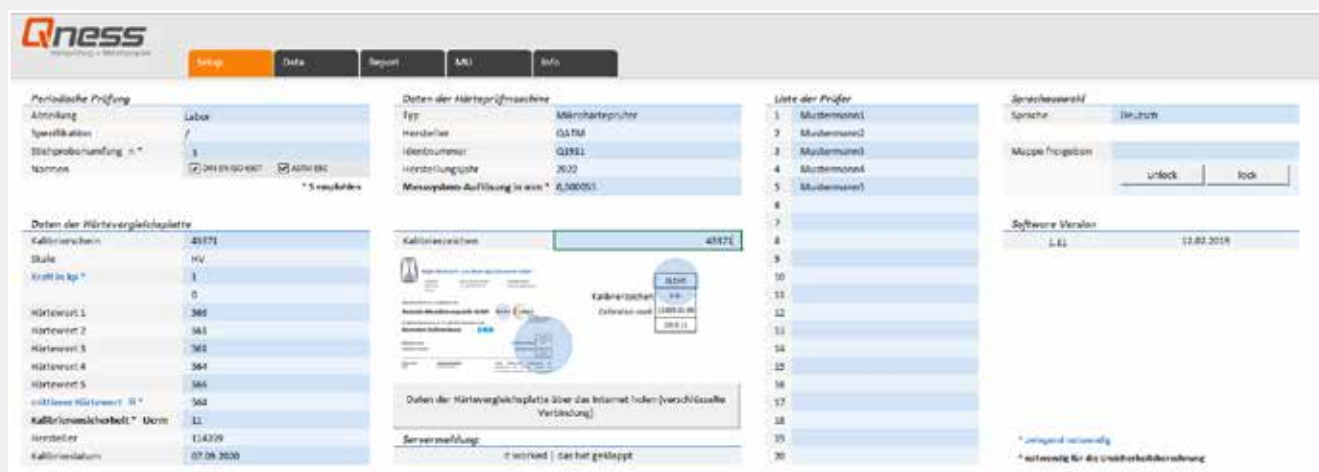
- | DAKS calibration: according to current ISO and ASTM standards
- | Permissible measurement deviation engraved
- | Angular basic shape: optimal for automated periodic testing
- | Easy data insertion into the documentation template
- | Option: engraved grid lines (HHVP9999)
- | Option: multiple calibrations (HHVP2021)

Item No.	Unit	Description
Options		
HHVP9999	1 PC.	Engraved grid lines
HHVP2021	1 Pc.	Multiple calibrations

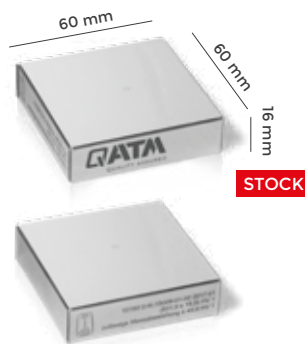
DOCUMENTATION TEMPLATE

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

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



Qprep Hardness test blocks Rockwell

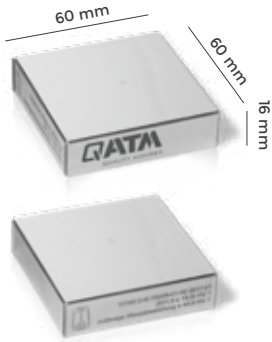


Item No.	Unit	Description
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HARDNESS TEST BLOCKS - ROCKWELL (DIN EN ISO 6508-3 & ASTM E18 CERTIFICATE)

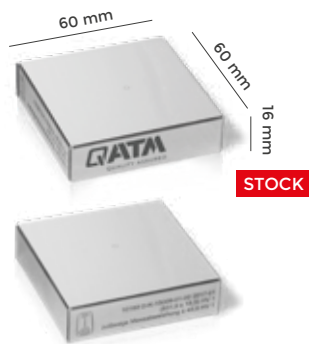
			HR	Material	HW*	Dimensions (mm)
HRA						
	HROHRA029C	1 Pc.	Rockwell	HRA	Aluminum	HW approx. 29 60x60x16
	HROHRA040C	1 Pc.	Rockwell	HRA	Aluminum	HW approx. 40 60x60x16
	HROHRA045C	1 Pc.	Rockwell	HRA	Aluminum	HW approx. 45 60x60x16
	HROHRA053C	1 Pc.	Rockwell	HRA	Aluminum	HW approx. 53 60x60x16
	HROHRA057C	1 Pc.	Rockwell	HRA	Steel	HW approx. 57 60x60x16
STOCK	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						
	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
STOCK	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						
	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
STOCK	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
STOCK	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				
HARDNESS TEST BLOCKS - ROCKWELL (DIN EN ISO 6508-3 & ASTM E18 CERTIFICATE)						
		HR		Material	HW*	Dimensions (mm)
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
STOCK 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

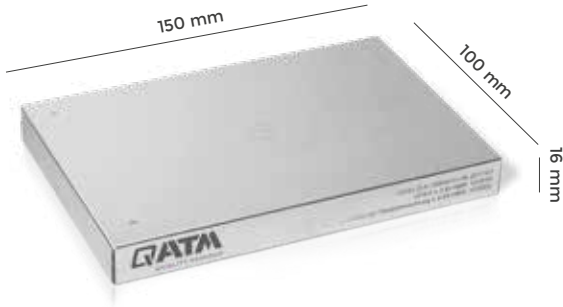
HW* = Hardness value



Item No.	Unit	Description				
HARDNESS TEST BLOCKS - ROCKWELL (DIN EN ISO 6508-3 & ASTM E18 CERTIFICATE)						
		HR	Material	HW*	Dimensions (mm)	
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 Brinell



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

HBW	Material	HW*	Dimensions (mm)
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HBW 10 / 500

HB1005080A	1 Pc.	Brinell HBW 10/500	Aluminum	HW approx. 80	150x100x16
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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

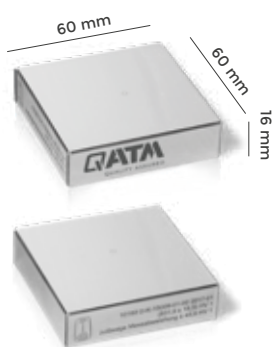
HB1030110A	1 Pc.	Brinell HBW 10/3000	Aluminum	HW approx. 110	150x100x16
HB1030130A	1 Pc.	Brinell HBW 10/3000	Aluminum	HW approx. 130	150x100x16
HB1030170A	1 Pc.	Brinell HBW 10/3000	Aluminum	HW approx. 170	150x100x16
HB1030200A	1 Pc.	Brinell HBW 10/3000	Steel	HW approx. 200	150x100x16
HB1030250A	1 Pc.	Brinell HBW 10/3000	Steel	HW approx. 250	150x100x16
STOCK 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
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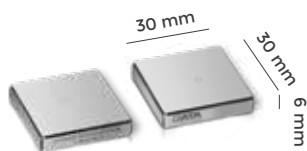
HW* = Hardness value

Item No.	Unit	Description	HBW	Material	HW*	Dimensions (mm)
HARDNESS TEST BLOCKS - BRINELL (DIN EN ISO 6506-3 & ASTM E10 CERTIFICATE)						
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	
STOCK	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

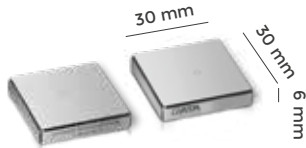
Qprep Hardness test blocks Vickers



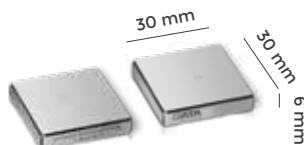
Item No.	Unit	Description			
HARDNESS TEST BLOCKS - VICKERS (DIN EN ISO 6507-3 & ASTM E92 CERTIFICATE)					
		HV	Material	HW*	Dimensions (mm)
HV 0.01					
HVG010200E	1 Pc.	Vickers HV 0.010	Steel	HW approx. 200	30x30x6
HV 0.015					
HVG015200E	1 Pc.	Vickers HV 0.015	Steel	HW approx. 200	30x30x6
HVG015250E	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
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
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

HW* = Hardness value

Item No.	Unit	Description	HV	Material	HW*	Dimensions (mm)
HARDNESS TEST BLOCKS - VICKERS (DIN EN ISO 6507-3 & ASTM E92 CERTIFICATE)						
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	
STOCK 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	
STOCK 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


STOCK
STOCK

Item No.	Unit	Description
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**HARDNESS TEST BLOCKS - VICKERS
(DIN EN ISO 6507-3 & ASTM E92 CERTIFICATE)**

HV	Material	HW*	Dimensions (mm)
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HV 0.5

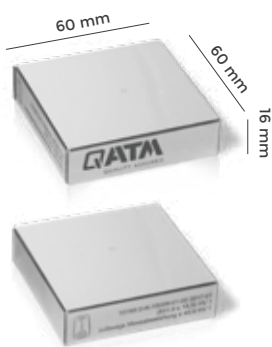
HVG500200E	1 Pc.	Vickers HV 0.5	Steel	HW approx. 200	30x30x6
HVG500250E	1 Pc.	Vickers HV 0.5	Steel	HW approx. 250	30x30x6
HVG500300E	1 Pc.	Vickers HV 0.5	Steel	HW approx. 300	30x30x6
HVG500350E	1 Pc.	Vickers HV 0.5	Steel	HW approx. 350	30x30x6
HVG500400E	1 Pc.	Vickers HV 0.5	Steel	HW approx. 400	30x30x6
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

STOCK
STOCK
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 CERTIFICATE)**

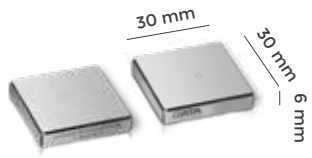
HV	Material	HW*	Dimensions (mm)
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HV 2

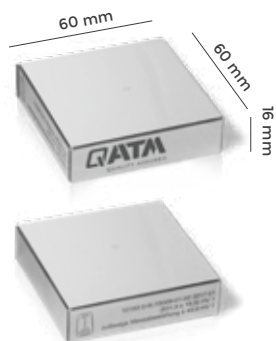
HVK002200E	1 Pc.	Vickers HV 2	Steel	HW approx. 200	30x30x6
HVK002250E	1 Pc.	Vickers HV 2	Steel	HW approx. 250	30x30x6
HVK002300E	1 Pc.	Vickers HV 2	Steel	HW approx. 300	30x30x6
HVK002350E	1 Pc.	Vickers HV 2	Steel	HW approx. 350	30x30x6
HVK002400E	1 Pc.	Vickers HV 2	Steel	HW approx. 400	30x30x6
HVK002450E	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
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HARDNESS TEST BLOCKS - VICKERS (DIN EN ISO 6507-3 & ASTM E92 CERTIFICATE)

HV	Material	HW*	Dimensions (mm)
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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

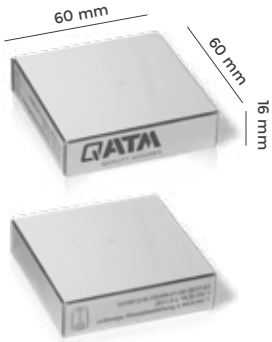
HV 5

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 CERTIFICATE)



HV	Material	HW*	Dimensions (mm)
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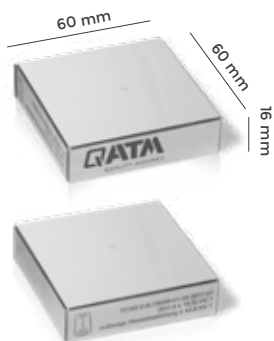
HV 10

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
STOCK 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
STOCK 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
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HARDNESS TEST BLOCKS - VICKERS (DIN EN ISO 6507-3 & ASTM E92 CERTIFICATE)

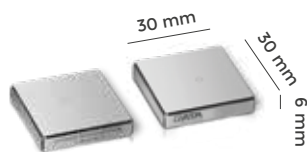
			HV	Material	HW*	Dimensions (mm)
HV 30						
HVK030080C	1 Pc.	Vickers	HV 30	Aluminum	HW approx. 80	60x60x16
HVK030110C	1 Pc.	Vickers	HV 30	Aluminum	HW approx. 110	60x60x16
HVK030130C	1 Pc.	Vickers	HV 30	Aluminum	HW approx. 130	60x60x16
HVK030170C	1 Pc.	Vickers	HV 30	Aluminum	HW approx. 170	60x60x16
HVK030200C	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 Hardness test blocks Knoop

HARDNESS TESTING - HARDNESS TEST BLOCKS



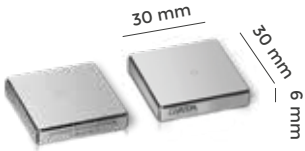
Item No.	Unit	Description
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HARDNESS TEST BLOCKS - KNOOP (DIN EN ISO 4545-3 & ASTM E92 CERTIFICATE)

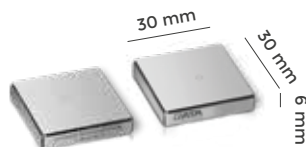
			HK	Material	HW*	Dimensions (mm)
HK 0.01						
HKG010200E	1 Pc.	Knoop	HK 0.01	Steel	HW approx. 200	30x30x6
HKG010250E	1 Pc.	Knoop	HK 0.01	Steel	HW approx. 250	30x30x6
HKG010300E	1 Pc.	Knoop	HK 0.01	Steel	HW approx. 300	30x30x6
HKG010350E	1 Pc.	Knoop	HK 0.01	Steel	HW approx. 350	30x30x6
HK 0.015						
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	HK	Material	HW*	Dimensions (mm)
HARDNESS TEST BLOCKS - KNOOP (DIN EN ISO 4545-3 & ASTM E92 CERTIFICATE)						
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



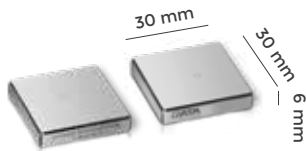
Item No.	Unit	Description
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HARDNESS TEST BLOCKS - KNOOP (DIN EN ISO 4545-3 & ASTM E92 CERTIFICATE)

			HK	Material	HW*	Dimensions (mm)
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	HK	Material	HW*	Dimensions (mm)
HARDNESS TEST BLOCKS - KNOOP (DIN EN ISO 4545-3 & ASTM E92 CERTIFICATE)						
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 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 MACRO		
		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 \geq HV0.01 28 mm 6.5 mm
QEV28000EZ	1 Pc.	Test diamond Vickers \geq HV5 28 mm 6.5 mm only with DAkkS Certificate
QEK28000EA	1 Pc.	Test diamond Knoop 28 mm 6.5 mm
BALL HOLDERS WITH PRESSED-IN BALL - MACRO		
		Description
• with DAkkS/ASTM Certificate		
QEB28010EA	1 Pc.	Ball holder with 1 mm ball, pressed-in
QEB28025EA	1 Pc.	Ball holder with 2.5 mm ball, pressed-in
QEB28050EA	1 Pc.	Ball holder with 5 mm ball, pressed-in
QEB28100EA	1 Pc.	Ball holder with 10 mm ball, pressed-in
QEB28116EA	1 Pc.	Ball holder with 1/16" ball, pressed-in
QEB28108EA	1 Pc.	Ball holder with 1/8" ball, pressed-in
QEB28104EA	1 Pc.	Ball holder with 1/4" ball, pressed-in
QEB28102EA	1 Pc.	Ball holder with 1/2" ball, pressed-in
BALL HOLDERS WITH EXCHANGEABLE BALL - MACRO		
		Description
• with DAkkS/ASTM Certificate		
QEB28025AA	1 Pc.	Ball holder with 2.5 mm ball - exchangeable
QEB28050AA	1 Pc.	Ball holder with 5 mm ball - exchangeable
QEB28100AA	1 Pc.	Ball holder with 10 mm ball - exchangeable
QEB28108AA	1 Pc.	Ball holder with 1/8" ball - exchangeable
QEB28104AA	1 Pc.	Ball holder with 1/4" ball - exchangeable
QEB28102AA	1 Pc.	Ball holder with 1/2" ball - exchangeable

Remarks

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

Reaching the suggested use by date does not cause a loss of the functionality of the products. Consequently, they can continue being used.

To ensure full functionality of the products, a **proper storage** is essential. The products need to be reliably protected against humidity and temperature fluctuations.

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 product data sheets.

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 suggested "use by date" starts on shipping date.

Complaints are checked by our quality management and application team.

Our general terms and conditions remain unaffected by these notes.

Suggested use by date of consumables

Remarks	Product	Suggested use by date
		Years
Cutting	Abrasive cut-off wheels	2
	CBN cut-off wheels	2
	Diamond blades	2
	Cup grinder	2
	Coolant	1
	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-adhesiUnits	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





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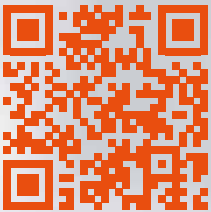
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