QATM
QUALITY ASSURED

Premium cut-off wheels
for cut-off machines

Color coded diamond suspensions
with high diamond concentration

Solution Boxes with all necessary
consumables for grinding and polishing,
including preparation instructions

Premium hardness test blocks
(Brinell, Knoop, Rockwell and Vickers)

Qprep

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

# CONSUMABLES 2021

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# SCIENCE FOR SOLIDS

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

As part of the VERDER Group, the business division VERDER SCIENTIFIC sets standards in the development, manufacture and sales of laboratory and analytical equipment.
The instruments are used in the areas of quality control, research and development for sample preparation and analysis of solids.

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# 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 highest quality**
Our innovative cut-off machines, mounting presses, grinders, polishers/electrolytic etchers, as well as hardness testers and analysis systems provide maximum reliability and flexibility. The R&D departments for hard- 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 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:

- **Modern production engineering and high vertical integration**
  Optimum control of every single component of our machines guarantees reliable QATM product quality "made in Germany" and "made in Austria".
- **Application consultation and end-user seminars with individual focus**
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- **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.

**MAMMELZEN / GERMANY**
- Materialography, consumables, manufacture of lab furniture
- Development, manufacturing, assembly
- Training center

**GOLLING / AUSTRIA**
- Hardness testing, Analysis
- Development and assembly
- Training center

# www.qatm.com

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**Online product demo – profit from our new service!**
Are you interested in QATM products from the materialography or hardness testing range? Then you can now have the machines of your choice demonstrated online by our experts at the comfort of your desk! You are also welcome to send us parts for testing or preparation and join us LIVE when our application engineers are processing these parts.

This new online offer is made possible by the uncomplicated Microsoft Teams software which you can easily start on your computer.

**Want to know more?**
Then touch base with your local QATM contact or our customer service to make an appointment or clarify further questions.

# Short delivery times thanks to local manufacturing

Unlike many global companies currently struggling with problems in their international supply chains, we at QATM profit from in-house manufacturing and local suppliers – our products are “made in Germany” resp. “made in Austria”.

We are happy to supply you with all standard machines and spare parts within the usual delivery times.

## 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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MADE IN GERMANY

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# 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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## Disclaimer

- We reserve the right to effect 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.
- All prices are ex works, including packaging.
  QATM price list 2021/E, valid from 1st January 2021 to 31st December 2021.

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# CUTTING


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| Item No. | Unit | Description | | | |
|---|---|---|---|---|---|
| | | **Corundum cut-off wheels for precision cut-off machines** | | | |
| | | **Ø** | **Thickness** | **Arbor Size** | |
| | | **» fine-grained for universal application**<br>**» for materials of higher hardness** | | | |
| 92002643 | 5 Pcs. | 100 mm | 0.25 mm | 12.7 mm | |
| 92002644 | 5 Pcs. | 125 mm | 0.45 mm | 12.7 mm | |
| 92002769 | 5 Pcs. | 150 mm | 0.45 mm | 12.7 mm | |
| | | **» coarse-grained for universal application**<br>**» for materials of lower hardness and mounted samples** | | | |
| 92002645 | 5 Pcs. | 100 mm | 0.4 mm | 12.7 mm | |
| 92002646 | 5 Pcs. | 125 mm | 0.8 mm | 12.7 mm | |
| 92002770 | 5 Pcs. | 150 mm | 0.6 mm | 12.7 mm | |
| 92002647 | 5 Pcs. | 200 mm | 0.8 mm | 12.7 mm | |
| 92004159 | 5 Pcs. | 150 mm | 1 mm | 12.7 mm | |
| 92004998 | 5 Pcs. | 150 mm | 1 mm | 20 mm | (incl. reduction ring 12.7 mm*) |
| 92004155 | 5 Pcs. | 200 mm | 1.5 mm | 12.7 mm | |
| | | * 1 reduction ring 12.7 mm for each order | | | |
| | | **Reduction ring 12.7 mm** | | | |
| 01304330 | 1 Pcs. | 20 mm | | | |
| | | **Diamond cut-off wheels for precision cut-off machines** | | | |
| | | **Ø** | **Thickness** | **Arbor Size** | |
| | | **» for universal application** | | | |
| 92002397 | 1 Pcs. | 76 mm | 0.3 mm | 12.7 mm | |
| 92002401 | 1 Pcs. | 102 mm | 0.3 mm | 12.7 mm | |
| 92002405 | 1 Pcs. | 127 mm | 0.5 mm | 12.7 mm | |
| 92002409 | 1 Pcs. | 152 mm | 0.5 mm | 12.7 mm | |
| | | **» for glass, ceramics, rocks** | | | |
| 92002398 | 1 Pcs. | 76 mm | 0.3 mm | 12.7 mm | |
| 92002402 | 1 Pcs. | 102 mm | 0.3 mm | 12.7 mm | |
| 92002406 | 1 Pcs. | 127 mm | 0.5 mm | 12.7 mm | |
| 92002410 | 1 Pcs. | 152 mm | 0.5 mm | 12.7 mm | |
| 95015121 | 1 Pcs. | 200 mm | 1.0 mm | 12.7 mm | |
| | | **» for hard metals** | | | |
| 92002400 | 1 Pcs. | 76 mm | 0.3 mm | 12.7 mm | |
| 92002404 | 1 Pcs. | 102 mm | 0.3 mm | 12.7 mm | |
| 92002408 | 1 Pcs. | 127 mm | 0.5 mm | 12.7 mm | |
| 92002412 | 1 Pcs. | 152 mm | 0.5 mm | 12.7 mm | |
| | | **» for plastic, rubber on request** | | | |

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Diamond cup grinder** | | | | |
| | | **Ø** | **Thickness** | **Height** | **Arbor Size** | **Bond** |
| | | **» for glass fiber-reinforced boards** | | | | |
| 92008573 | 1 Pcs. | 100 mm | 8 mm | 35 mm | 12.7 mm | galvanic |
| 92006607 | 1 Pcs. | 150 mm | 8 mm | 35 mm | 12.7 mm | galvanic |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | **Diamond cup grinder** | | | | |
| | | **Ø** | **Thickness** | **Arbor Size** | **Bond** | **Grain Size** |
| | | **» for glass, ceramics, rocks, hard metal** | | | | |
| 95015122 | 1 Pcs. | 150 mm | 21.5 mm | 12.7 mm | resin | fine |
| 95015123 | 1 Pcs. | 150 mm | 21.5 mm | 12.7 mm | resin | coarse |

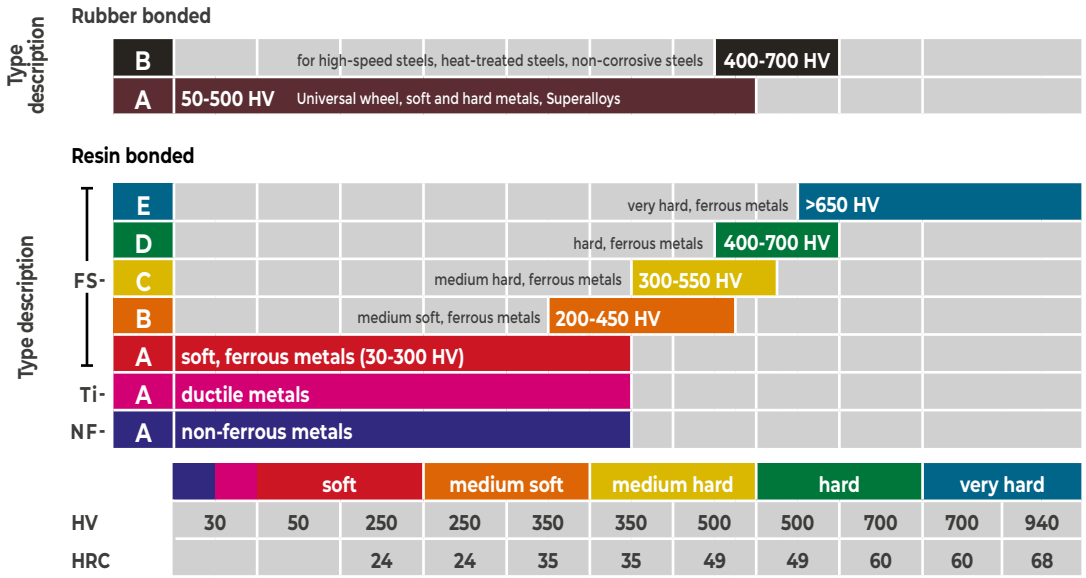
| | | | | | |
|---|---|---|---|---|---|
| | | **CBN cut-off wheels for precision cut-off machines** | | | |
| | | **Ø** | **Thickness** | **Arbor Size** | |
| | | **» for composites and rigid materials** | | | |
| 92002442 | 1 Pcs. | 76 mm | 0.9 mm | 12.7 mm | |
| 92002443 | 1 Pcs. | 102 mm | 0.5 mm | 12.7 mm | |
| 92002444 | 1 Pcs. | 127 mm | 0.5 mm | 12.7 mm | |
| 92002445 | 1 Pcs. | 153 mm | 0.65 mm | 12.7 mm | |
| 92002446 | 1 Pcs. | 178 mm | 0.9 mm | 12.7 mm | |
| 92006419 | 1 Pcs. | 200 mm | 0.5 mm | 12.7 mm | |
| | | **» other diameters on request** | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | **Saw-blade cut-off-wheel** | | | | |
| | | **Ø** | **Thickness** | **Arbor Size** | | |
| | | **» for plastics, non-ferrous metals** | | | | |
| NEW 95009083 | 1 Pcs. | 150 mm | 1.4 mm | 30 mm | (reduction ring 12.7 mm necessary) | |
| 01811035 | 1 Pcs. | Reduction ring 30 mm to 12.7 mm | | | | |

## Machine and blade compatibility

| Cut-off machine | Arbor size | Ø (max.) |
|---|---|---|
| Brillant 220 | 12.7 mm | 203 mm/8" |
| Brillant 230 | 32 mm | 254 mm/10" 305 mm/12" |
| Brillant 255 | 32 mm | 356 mm/14" 406 mm/16" |
| Qcut 150 A (Brillant 210) | 12.7 mm | 203 mm/8" |
| Qcut 250 M (Brillant 200) | 32 mm | 254 mm/10" |
| Qcut 250 A (Brillant 240) | 32 mm | 254 mm/10" |
| Qcut 350 A (Brillant 250) | 32 mm | 305 mm/12" 356 mm/14" |
| Qcut 400 A (Brillant 265) | 32 mm | 356 mm/14" 406 mm/16" |
| Qcut 430 BOT (Brillant 3D) | 32 mm | 432 mm/17" 508 mm/20" |
| Qcut 500 A (Brillant 275) | 32 mm | 432 mm/17" 508 mm/20" |
| Qcut 600 A (Brillant 285) | 32 mm | 508 mm/20" 610 mm/24" |
| Qcut 800 A (Brillant 2000) | 32 mm | 610 mm/24" 813 mm/32" |

## Cut-off wheel selection according to material hardness



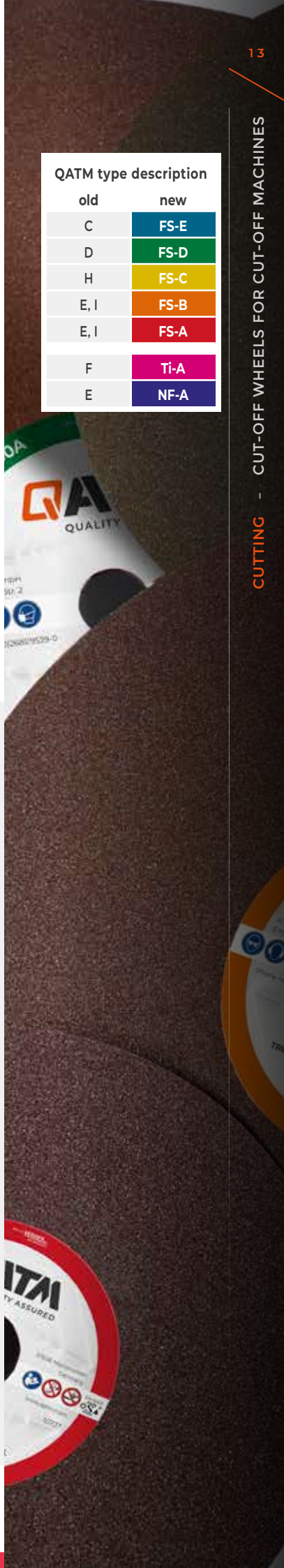

| QATM type description | |
|---|---|
| old | new |
| C | FS-E |
| D | FS-D |
| H | FS-C |
| E, I | FS-B |
| E, I | FS-A |
| F | Ti-A |
| E | NF-A |

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Premium cut-off wheels for cut-off machines** | | | | |
| | | Ø | Thickness | Arbor Size | Bond | Type |
| | | **NF-A - for non-ferrous metals (30-300HV)** | | | | |
| 95012531 | 10 Pcs. | 250 mm | 1.5 mm | 32 mm | SiC / Resin | NF-A, Purple |
| 95012538 | 10 Pcs. | 300 mm | 2.0 mm | 32 mm | SiC / Resin | NF-A, Purple |
| 95012545 | 10 Pcs. | 350 mm | 2.5 mm | 32 mm | SiC / Resin | NF-A, Purple |
| 95012552 | 10 Pcs. | 400 mm | 3.0 mm | 32 mm | SiC / Resin | NF-A, Purple |
| 95012566 | 5 Pcs. | 500 mm | 4.0 mm | 32 mm | SiC / Resin | NF-A, Purple |
| 95012573 | 5 Pcs. | 600 mm | 4.5 mm | 32 mm | SiC / Resin | NF-A, Purple |
| | | **Ti-A - for Titanium and alloys, refractory metals** | | | | |
| 95012530 | 10 Pcs. | 250 mm | 1.5 mm | 32 mm | SiC / Resin | Ti-A, Pink |
| 95012537 | 10 Pcs. | 300 mm | 2.0 mm | 32 mm | SiC / Resin | Ti-A, Pink |
| 95012544 | 10 Pcs. | 350 mm | 2.5 mm | 32 mm | SiC / Resin | Ti-A, Pink |
| 95012551 | 10 Pcs. | 400 mm | 3.0 mm | 32 mm | SiC / Resin | Ti-A, Pink |
| 95012565 | 5 Pcs. | 500 mm | 4.0 mm | 32 mm | SiC / Resin | Ti-A, Pink |
| 95012572 | 5 Pcs. | 600 mm | 4.5 mm | 32 mm | SiC / Resin | Ti-A, Pink |
| | | **FS-A - for soft steel (30-300HV), non-ferrous metals, polymer** | | | | |
| 95012529 | 10 Pcs. | 250 mm | 1.5 mm | 32 mm | Al2O3 / Resin | FS-A, Red |
| 95012536 | 10 Pcs. | 300 mm | 2.0 mm | 32 mm | Al2O3 / Resin | FS-A, Red |
| 95012543 | 10 Pcs. | 350 mm | 2.5 mm | 32 mm | Al2O3 / Resin | FS-A, Red |
| 95012550 | 10 Pcs. | 400 mm | 3.0 mm | 32 mm | Al2O3 / Resin | FS-A, Red |
| 95012564 | 5 Pcs. | 500 mm | 4.0 mm | 32 mm | Al2O3 / Resin | FS-A, Red |
| 95012571 | 5 Pcs. | 600 mm | 4.5 mm | 32 mm | Al2O3 / Resin | FS-A, Red |
| | | **FS-B - for medium soft steel (200-450HV)** | | | | |
| 95012528 | 10 Pcs. | 250 mm | 1.5 mm | 32 mm | Al2O3 / Resin | FS-B, Orange |
| 95012535 | 10 Pcs. | 300 mm | 2.0 mm | 32 mm | Al2O3 / Resin | FS-B, Orange |
| 95012542 | 10 Pcs. | 350 mm | 2.5 mm | 32 mm | Al2O3 / Resin | FS-B, Orange |
| 95012549 | 10 Pcs. | 400 mm | 3.0 mm | 32 mm | Al2O3 / Resin | FS-B, Orange |
| 95012563 | 5 Pcs. | 500 mm | 4.0 mm | 32 mm | Al2O3 / Resin | FS-B, Orange |
| 95012570 | 5 Pcs. | 600 mm | 4.5 mm | 32 mm | Al2O3 / Resin | FS-B, Orange |

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Premium cut-off wheels for cut-off machines** | | | | |
| | | **Ø** | **Thickness** | **Arbor Size** | **Bond** | **Type** |
| | | **FS-C - for medium hard steel (300-550HV), case hardened, nitrided steels** | | | | |
| 95012527 | 10 Pcs. | 250 mm | 1.5 mm | 32 mm | Al2O3 / Resin | FS-C, Yellow |
| 95012534 | 10 Pcs. | 300 mm | 2.2 mm | 32 mm | Al2O3 / Resin | FS-C, Yellow |
| 95012541 | 10 Pcs. | 350 mm | 2.2 mm | 32 mm | Al2O3 / Resin | FS-C, Yellow |
| 95012548 | 10 Pcs. | 400 mm | 3.0 mm | 32 mm | Al2O3 / Resin | FS-C, Yellow |
| 95012562 | 5 Pcs. | 500 mm | 4.0 mm | 32 mm | Al2O3 / Resin | FS-C, Yellow |
| 95012569 | 5 Pcs. | 600 mm | 4.5 mm | 32 mm | Al2O3 / Resin | FS-C, Yellow |
| | | **FS-D - for hard steels (400-700HV), annealed, carburised steels** | | | | |
| 95012526 | 10 Pcs. | 250 mm | 1.5 mm | 32 mm | Al2O3 / Resin | FS-D, Green |
| 95012533 | 10 Pcs. | 300 mm | 2.0 mm | 32 mm | Al2O3 / Resin | FS-D, Green |
| 95012540 | 10 Pcs. | 350 mm | 2.5 mm | 32 mm | Al2O3 / Resin | FS-D, Green |
| 95012547 | 10 Pcs. | 400 mm | 3.0 mm | 32 mm | Al2O3 / Resin | FS-D, Green |
| 95012561 | 5 Pcs. | 500 mm | 4.0 mm | 32 mm | Al2O3 / Resin | FS-D, Green |
| 95012568 | 5 Pcs. | 600 mm | 4.5 mm | 32 mm | Al2O3 / Resin | FS-D, Green |
| | | **FS-E - for very hard steels (>550HV)** | | | | |
| 95012525 | 10 Pcs. | 250 mm | 1.5 mm | 32 mm | Al2O3 / Resin | FS-E, Blue |
| 95012532 | 10 Pcs. | 300 mm | 2.0 mm | 32 mm | Al2O3 / Resin | FS-E, Blue |
| 95012539 | 10 Pcs. | 350 mm | 2.5 mm | 32 mm | Al2O3 / Resin | FS-E, Blue |
| 95012546 | 10 Pcs. | 400 mm | 3.0 mm | 32 mm | Al2O3 / Resin | FS-E, Blue |
| 95012560 | 5 Pcs. | 500 mm | 4.0 mm | 32 mm | Al2O3 / Resin | FS-E, Blue |
| 95012567 | 5 Pcs. | 600 mm | 4.5 mm | 32 mm | Al2O3 / Resin | FS-E, Blue |
| | | **Corundum cut-off wheels for cut-off machines** | | | | |
| | | **Ø** | **Thickness** | **Arbor Size** | **Bond** | **Type** |
| | | **C -Universal wheel for materials of high to very high hardness** | | | | |
| 92001550 | 10 Pcs. | 235 mm | 1.5 mm | 32 mm | Resin | C |
| 92001554 | 10 Pcs. | 250 mm | 1.5 mm | 32 mm | Resin | C |
| 92001558 | 10 Pcs. | 300 mm | 2 mm | 32 mm | Resin | C |
| 92001669 | 10 Pcs. | 350 mm | 2 mm | 32 mm | Resin | C |
| 92001783 | 10 Pcs. | 400 mm | 3 mm | 32 mm | Resin | C |
| | | **D - Universal wheel for medium hard materials, case-hardened steels** | | | | |
| 92001551 | 10 Pcs. | 235 mm | 1.5 mm | 32 mm | Resin | D |
| 92001555 | 10 Pcs. | 250 mm | 1.5 mm | 32 mm | Resin | D |
| 92001559 | 10 Pcs. | 300 mm | 2 mm | 32 mm | Resin | D |
| 92001670 | 10 Pcs. | 350 mm | 2 mm | 32 mm | Resin | D |
| 92001784 | 10 Pcs. | 400 mm | 3 mm | 32 mm | Resin | D |
| | | **E - for soft steels, non-ferrous-materials, plastics** | | | | |
| 92001552 | 10 Pcs. | 235 mm | 1.5 mm | 32 mm | Resin | E |
| 92001556 | 10 Pcs. | 250 mm | 1.5 mm | 32 mm | Resin | E |
| 92001560 | 10 Pcs. | 300 mm | 2 mm | 32 mm | Resin | E |
| 92001671 | 10 Pcs. | 350 mm | 2.2 mm | 32 mm | Resin | E |
| 92001785 | 10 Pcs. | 400 mm | 3 mm | 32 mm | Resin | E |
| | | **F - for titanium and titanium alloys** | | | | |
| 92002417 | 10 Pcs. | 230 mm | 1.5 mm | 32 mm | Resin | F |
| 92002425 | 10 Pcs. | 250 mm | 1.5 mm | 32 mm | Resin | F |
| 92002426 | 10 Pcs. | 300 mm | 2 mm | 32 mm | Resin | F |
| 92002427 | 10 Pcs. | 350 mm | 2.5 mm | 32 mm | Resin | F |
| 92002428 | 10 Pcs. | 400 mm | 3 mm | 32 mm | Resin | F |
| | | **I - for construction steels and cast material** | | | | |
| 92006066 | 10 Pcs. | 250 mm | 1.6 mm | 32 mm | Resin | I |
| 92005863 | 10 Pcs. | 300 mm | 2 mm | 32 mm | Resin | I |
| 92005862 | 10 Pcs. | 350 mm | 2.5 mm | 32 mm | Resin | I |
| 92008504 | 10 Pcs. | 400 mm | 3 mm | 32 mm | Resin | I |

**QATM type description**

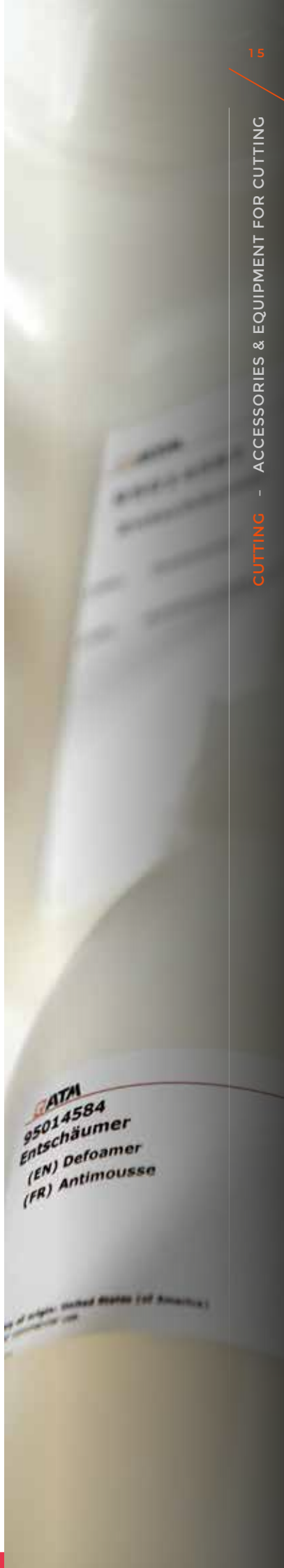
| old | new |
|---|---|
| C | FS-E |
| D | FS-D |
| H | FS-C |
| E, I | FS-B |
| E, I | FS-A |
| F | Ti-A |
| E | NF-A |



| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Corundum cut-off wheels for cut-off machines** | | | | |
| | | **Ø** | **Thickness** | **Arbor Size** | **Bond** | **Type** |
| | | **A - Universal wheel, soft and hard metals, Superalloys** | | | | |
| 92002413 | 10 Pcs. | 229 mm | 0.8 mm | 32 mm | Rubber | A |
| 92002599 | 10 Pcs. | 254 mm | 1 mm | 32 mm | Rubber | A |
| 92002441 | 10 Pcs. | 305 mm | 1 mm | 32 mm | Rubber | A |
| 92002436 | 10 Pcs. | 356 mm | 1.6 mm | 32 mm | Rubber | A |
| 92002439 | 10 Pcs. | 406 mm | 1.6 mm | 32 mm | Rubber | A |
| 92008537 | 10 Pcs. | 500 mm | 2.4 mm | 32 mm | Rubber | A |
| 92004007 | 10 Pcs. | 600 mm | 4.3 mm | 40 mm | Rubber | A |
| | | **B - for high-speed steels, heat-treated steels, non-corrosive steels** | | | | |
| 92002414 | 10 Pcs. | 229 mm | 1.6 mm | 32 mm | Rubber | B |
| 92002600 | 10 Pcs. | 254 mm | 1.6 mm | 32 mm | Rubber | B |
| 92002434 | 10 Pcs. | 305 mm | 1.6 mm | 32 mm | Rubber | B |
| 92002437 | 10 Pcs. | 356 mm | 2.4 mm | 32 mm | Rubber | B |
| 92002440 | 10 Pcs. | 406 mm | 2.4 mm | 32 mm | Rubber | B |
| 92008874 | 10 Pcs. | 500 mm | 3 mm | 32 mm | Rubber | B |
| | | **Diamond cut-off wheels for cut-off machines** | | | | |
| | | **Ø** | **Thickness** | **Arbor Size** | **Bond** | |
| | | **» for ceramic materials** | | | | |
| 92002450 | 1 Pcs. | 230 mm | 1.2 mm | 32 mm | Bronze | |
| 92002452 | 1 Pcs. | 250 mm | 1.2 mm | 32 mm | Bronze | |
| 92002453 | 1 Pcs. | 300 mm | 1.6 mm | 32 mm | Bronze | |
| 95003433 | 1 Pcs. | 350 mm | 1.6 mm | 32 mm | Bronze | |
| 92008751 | 1 Pcs. | 400 mm | 2.4 mm | 32 mm | Bronze | |
| | | **» for hard metals, generally for materials of high hardness** | | | | |
| 92002451 | 1 Pcs. | 250 mm | 1.2 mm | 32 mm | Resin | |
| 92002454 | 1 Pcs. | 300 mm | 1.6 mm | 32 mm | Resin | |
| 95003049 | 1 Pcs. | 350 mm | 1.6 mm | 32 mm | Resin | |
| 95010131 | 1 Pcs. | 400 mm | 1.6 mm | 32 mm | Resin | |
| | | **» for composite materials (hard/soft combinations)** | | | | |
| 95002102 | 1 Pcs. | 250 mm | 1.3 mm | 32 mm | Bronze | |
| 92004719 | 1 Pcs. | 300 mm | 1.3 mm | 32 mm | Bronze | |
| 92008619 | 1 Pcs. | 350 mm | 1.4 mm | 32 mm | Bronze | |
| 95006793 | 1 Pcs. | 400 mm | 1.3 mm | 32 mm | Bronze | |
| | | **» other diameters on request** | | | | |
| | | **CBN cut-off wheels for cut-off machines** | | | | |
| | | **Ø** | **Thickness** | **Arbor Size** | | |
| | | **» for Nickel and Cobald based alloys** | | | | |
| 92002456 | 1 Pcs. | 250 mm | 1.6 mm | 32 mm | | |
| 92002457 | 1 Pcs. | 300 mm | 1.6 mm | 32 mm | | |
| 95005025 | 1 Pcs. | 350 mm | 1.6 mm | 32 mm | | |
| 92004473 | 1 Pcs. | 400 mm | 1.6 mm | 32 mm | | |
| | | **Accessories for cut-off wheels** | | | | |
| | | **Dressing stone** | | | | |
| 92002460 | 1 Pcs. | Dressing stone for diamond cut-off wheels, CBN cut-off wheels and cup wheels | | | | |

| Item No. | Unit | Description |
|---|---|---|
| | | **Anti corrosion coolant** |
| | | **for cut-off machines** |
| | | **» for steel, cast iron, non-ferrous metal** |
| 95014280 | 1 l | concentrate (ratio 1:35) / refractometer: 1.4%/°Bx |
| 95014281 | 5 l | concentrate (ratio 1:35) / refractometer: 1.4%/°Bx |
| 95014282 | 10 l | concentrate (ratio 1:35) / refractometer: 1.4%/°Bx |
| | | **Anti corrosion coolant for polymers and composites** |
| | | **Free of nitride and oil** |
| | | **» optimized for polymers and composites**<br>**» also suitable for steels, non-ferrous metals, ceramics and glasses** |
| 95007864 | 1 l | concentrate, ratio: 1:66 (1.5%) - 1:33 (3%) / refractometer: 2.4%/°Bx |
| | | **ATM-CoolCut, environment- and user-friendly** |
| | | **free of oil, boron, nitride and formaldehyde** |
| | | **» for steel, cast iron, light and non-ferrous metal, glass and ceramics, composites good anti-corrosion protection and cutting properties** |
| 95004145 | 1 l | ATM-CoolCut<br>mixing ratio 1:25 (4%) - 1:12.5 (8%) / refractometer: 2.0%/°Bx |
| 95004146 | 5 l | ATM-CoolCut<br>mixing ratio 1:25 (4%) - 1:12.5 (8%) / refractometer: 2.0%/°Bx |
| 95004147 | 10 l | ATM-CoolCut<br>mixing ratio 1:25 (4%) - 1:12.5 (8%) / refractometer: 2.0%/°Bx |
| | | **Cooling agent additives** |
| | | **ATM-CoolAdd NF** |
| 92006504 | 1 kg | ATM-CoolAdd NF, additive for cutting of hard metals, Cr-steels, copper alloys (prevents dissolution of cobalt or chrome)<br>Mixing concentration in aqueous coolant approx. 0.1 - 0.3% |
| | | **ATM-CoolAdd CU** |
| 95008731 | 1 l | ATM-CoolAdd CU, additive for cutting of non-ferrous materials like Cu and its alloys.<br>Mixing concentration in aqueous coolant approx. 0.05 - 0.2% |
| | | **Defoaming agent** |
| 95014584 | 200 ml | Defoaming agent, additive for water-based coolants<br>Mixing concentration in aqueous coolant approx. 0.005 - 0.05% |
| 95014583 | 1 l | Defoaming agent, additive for water-based coolants<br>Mixing concentration in aqueous coolant approx. 0.005 - 0.05% |
| | | **ATM-PreClean** |
| 92006502 | 1 kg | ATM-PreClean, cleaning concentrate/system cleaner for cirulating cooling units and cutting machines |
| | | **» Download of Safety Data Sheets at www.qatm.com** |

NEW

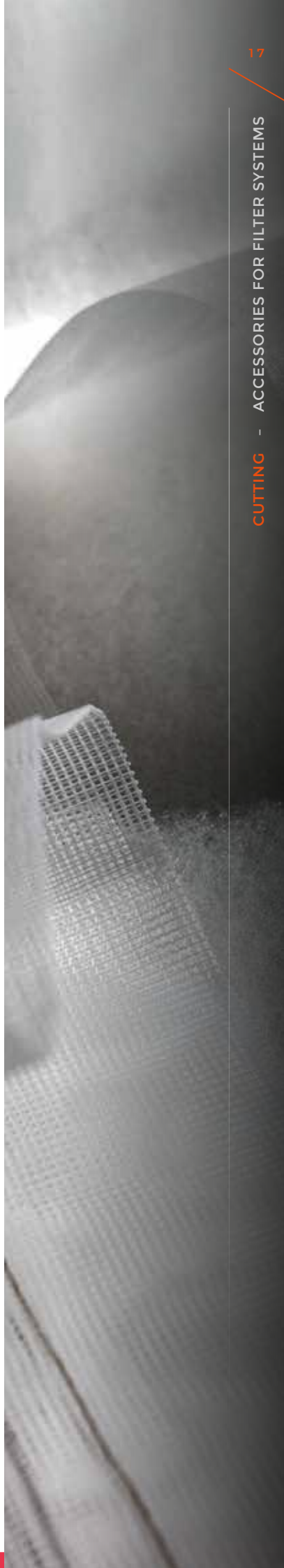



## Info Coolants

Additional informations about the handling and maintenance of coolants are availabe in our "ATM-CoolCut" manual

| Item No. | Unit | Description |
|---|---|---|
| | | **Accessories for maintenance and care of coolants** |
| | | **Maintenance and testing set** |
| 95007866 | 1 Pcs. | 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) |
| | | **» Download of Safety Data Sheets at www.qatm.com** |

| Item No. | Unit | Description | | | |
|---|---|---|---|---|---|
| | | **Filter fleece for belt filter systems** | | | |
| | | | **Length x Width** | | |
| | | **» for belt filter system BFA 165** | | | |
| 92008745 | 1 Pcs. | Filter fleece roll, fine, 100 µm | 100 m x 450 mm | | |
| | | **» for belt filter system BFA 325** | | | |
| 92008744 | 1 Pcs. | Filter fleece roll, coarse, 150 µm | 100 m x 450 mm | | |
| | | **» for belt filter system BFA 285** | | | |
| 92008780 | 1 Pcs. | Filter fleece roll, coarse, 150 µm | 100 m x 710 mm | | |
| | | **» for belt filter system BFA 100/130** | | | |
| 95001696 | 1 Pcs. | Filter fleece roll, coarse, 150 µm | 100 m x 420 mm | | |
| | | **» other sizes on request** | | | |
| | | **Filter fleece mat for recirculation cooling systems** | | | |
| | | | **Length x Width** | | |
| | | **» for Qcut 800 A (Brillant 2000)** | | | |
| 95007753 | 1 Pcs. | Filter fleece mat | 940 x 720 mm | | |
| | | **» for Qcut 600 A (Brillant 285)** | | | |
| 95007761 | 1 Pcs. | Filter fleece mat | 724 x 720 mm | | |
| | | **» for recirculation cooling system 15 Ltr.** | | | |
| 95014816 | 1 Pcs. | Filter fleece mat | 235 x 148 mm | | |
| | | **Filter inserts** | | | |
| | | | **Dimensions** | | |
| | | **» for Brillant 255 / Qcut 400 A (Brillant 265) / Brillant 270 / Qcut 500 A (Brillant 275) / Brillant 280** | | | |
| 92008739 | 1 Pcs. | Filter cloth and fleece | 490 x 290 x 190 mm | 60 µm | |
| 92008740 | 1 Pcs. | Filter cloth and fleece | 490 x 290 x 190 mm | 100 µm | |
| 92008706 | 1 Pcs. | Filter cloth and fleece | 490 x 290 x 190 mm | 800 µm | |
| | | **» for recirculation cooling system 45 Ltr.** | | | |
| 92008741 | 1 Pcs. | Filter cloth and fleece | 290 x 150 x 190 mm | 60 µm | (until year of construction 2012) |
| 92008742 | 1 Pcs. | Filter cloth and fleece | 290 x 150 x 190 mm | 100 µm | (until year of construction 2012) |
| 92008707 | 1 Pcs. | Filter cloth and fleece | 290 x 150 x 190 mm | 800 µm | (until year of construction 2012) |
| 95007759 | 1 Pcs. | Filter cloth and fleece | 250 x 200 x 155 mm | 60 µm | (from year of construction 2013) |
| 95007872 | 1 Pcs. | Filter cloth and fleece | 250 x 200 x 155 mm | 100 µm | (from year of construction 2013) |
| 95008767 | 1 Pcs. | Filter cloth and fleece | 250 x 200 x 155 mm | 800 µm | (from year of construction 2013) |
| | | **» for settling tank** | | | |
| 92005992 | 1 Pcs. | Fleece | 290 x 150 x 190 mm | 40 µm | (until year of construction 2012) |
| 92005993 | 1 Pcs. | Fleece | 290 x 150 x 190 mm | 60 µm | (until year of construction 2012) |
| 95007760 | 1 Pcs. | Fleece | 250 x 200 x 155 mm | 60 µm | (from year of construction 2013) |
| 95008472 | 1 Pcs. | Fleece | 250 x 200 x 155 mm | 100 µm | (from year of construction 2013) |



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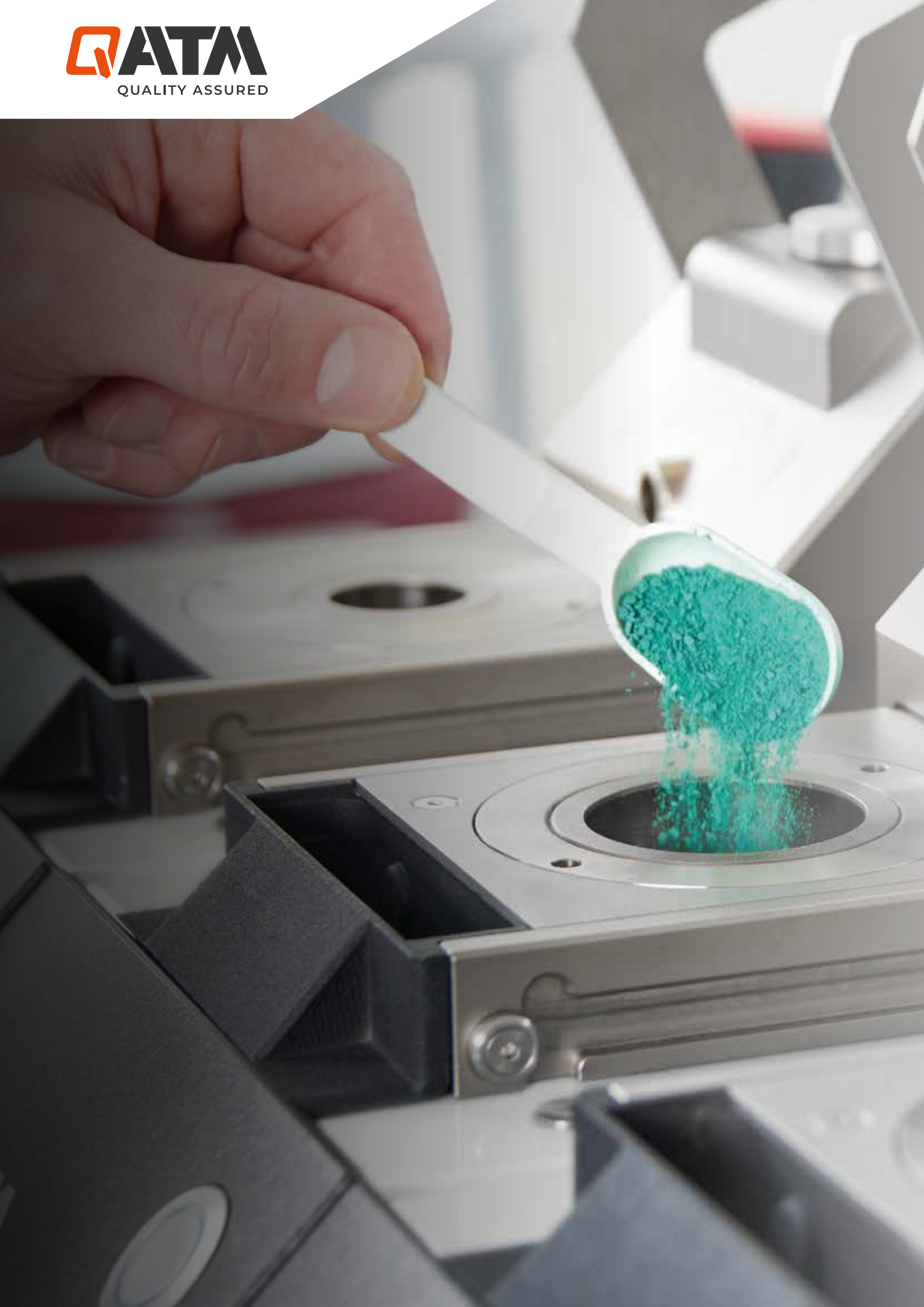

# MOUNTING


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## Properties of hot mounting materials

| Mounting material | Recommended Application | Basis/ Filler | Hardness (Shore D) | Removal rate (grindability) |
|---|---|---|---|---|
| Bakelite (black, red, green) | Routine work, soft to medium-hard materials, good for padding | Phenolic resin/ wood flour | 92 | medium |
| 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 |
| Duroplast blue | High edge retention, edge examination, soft to medium-hard materials, recommended for grinding stones | Phenolic resin/ glass fiber | 92 | low |
| Thermoplast | Transparent mounting, targeted preparation, good for padding, marking | Acrylic resin | 86 | medium |

| Item No. | Unit | Description |
|---|---|---|
| | | **Accessories for hot mounting** |
| | | **Accessories for hot mounting** |
| 92002660 | 90 ml | Silicon paste, anti-stick agent |
| 92002661 | 200 ml | Silicon spray, anti-stick agent |
| 92004441 | 1 Pcs. | Brass brush for cleaning of hot mounting press |
| 92002658 | 1 Pcs. | Funnel for hot mounting material |
| 92002715 | 1 Pcs. | 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 |
| 92002662 | 100 Pcs. | Steel clip for for aligning thin samples in mould |
| 92002663 | 100 Pcs. | Plastic clip for aligning thin samples in mould, transparent |
| 92002707 | 100 Pcs. | Plastic clip for aligning thin samples in mould, black |
| 92002708 | 100 Pcs. | Plastic clip for aligning thin samples in mould, red |
| 92002709 | 100 Pcs. | Plastic clip for aligning thin samples in mould, grey |

| Item No. | Unit | Description |
|---|---|---|
| | | **Hot mounting material** |
| | | **EPO-Max black, epoxy resin, with high edge retention**<br>**» very high hardness, easy cleaning of mould and ram due to low adhesion**<br>**» with mineral filler** |
| 95013811 | 1 kg | EPO-Max black |
| 95013812 | 5 kg | EPO-Max black |
| 95013813 | 10 kg | EPO-Max black |
| | | **Epo black, epoxy resin, with high edge retention**<br>**» very high hardness**<br>**» contains a high proportion of glass and mineral filler** |
| 95011990 | 1 kg | Epo black |
| 95011991 | 5 kg | Epo black |
| 95011992 | 10 kg | Epo black |
| | | **Duroplast blue, diallylphthalate, with high edge retention**<br>**» general purpose and especially for grinding stones**<br>**» high hardness**<br>**» contains a high proportion of glass fiber** |
| 95011999 | 1 kg | Duroplast blue |
| 95012000 | 5 kg | Duroplast blue |
| 95012001 | 10 kg | Duroplast blue |
| | | **Duroplast black, phenolic resin for SEM examinations and electrolytic polishing**<br>**» medium hardness**<br>**» conductive, contains graphite particles** |
| 95011993 | 1 kg | Duroplast black |
| 95011994 | 5 kg | Duroplast black |
| 95011995 | 10 kg | Duroplast black |
| | | **Thermoplast, acrylic resin for transparent mounts**<br>**» ideal for targeted preparations**<br>**» low - medium hardness** |
| 95011996 | 1 kg | Thermoplast |
| 95011997 | 5 kg | Thermoplast |
| 95011998 | 10 kg | Thermoplast |
| | | **Bakelite black, phenolic resin for general purpose**<br>**» medium hardness**<br>**» contains wood powder**<br>**» very convenient material for filling** |
| 95011981 | 1 kg | Bakelite black |
| 95011982 | 5 kg | Bakelite black |
| 95011983 | 10 kg | Bakelite black |
| | | **Bakelite red, phenolic resin for general purpose**<br>**» medium hardness**<br>**» contains wood powder** |
| 95011984 | 1 kg | Bakelite red |
| 95011985 | 5 kg | Bakelite red |
| 95011986 | 10 kg | Bakelite red |
| | | **Bakelite green, phenolic resin for general purpose**<br>**» medium hardness**<br>**» contains wood powder** |
| 95011987 | 1 kg | Bakelite green |
| 95011988 | 5 kg | Bakelite green |
| 95011989 | 10 kg | Bakelite green |

## Properties of cold (castable) mounting materials

| Mounting Material | Recommended Application | Basis/ Filler | Hardness (Shore D) | Removal rate (grindability) |
|---|---|---|---|---|
| KEM 15 plus | With high edge retention, edge examination, medium-hard to hard materials | Methyl-methacrylate/ styrole | 85 | very low |
| KEM 20 | Transparent mounting (pressure vessel), targeted preparation | Methyl-methacrylate | 84 | medium |
| KEM 30 | Semi-transparent mounting (pressure vessel), routine work, soft to medium-hard materials | Methyl-methacrylate | 85 | medium |
| KEM 35 | Minimized gap formation, edge examination, medium-hard to hard materials | Methyl-methacrylate/ ceramic | 87 | very low |
| KEM 60 | Universal usage | Tetrahydrofurfuryl-2-methacrylate / filler mineral | 85 | low |
| KEM 90 | Mounting using vacuum, sensitive and brittle materials | Epoxy resin | 79 | high |

| Item No. | Unit | Description |
|---|---|---|
| | | **Infiltration set** |
| | | **» for cold mounting and hardening using vacuum, recommended for Epoxy resin** |
| Z6510000 | 1 Pcs. | desiccator incl. non-return valve, vacuum pump, hose and pressure gauge |
| | | **Infiltration unit** |
| | | **» for cold mounting, pouring and hardening using vacuum** |
| M6500001 | 1 Pcs. | infiltration unit, 230 V/50 Hz, vacuum pressure 0.8 bar, W 330 x H 270 x D 300 mm (including desiccator with mechanic dosing and vacuum pump, rotating disc for 8 silicon mounting cups Ø 50 mm or 9 PTFE-mounting cups Ø 40 mm, 10 mixing cups) |
| | | **110 V/60 Hz on request** |
| | | **Pressure unit** |
| | | **Pressure equipment for bubble free hardening of methylmethacrylates (e.g. for Technovit 4004, KEM 20), compressed air required** |
| 92002281 | 1 Pcs. | Pressure equipment, dimensions: B340 x W340 x H255 mm |

| Item No. | Unit | Description |
|---|---|---|
| | | **Cold mounting material methacrylate** |
| | | **CT = curing time** |
| | | **KEM 15 plus blue, opaque**<br>**2-component system: powder + liquid (1.5:1 [Vol.-%])**<br>**» with high edge retention, edge examination, medium-hard to hard materials** |
| 95012019 | 1 Pcs. | KEM 15 plus, SET including 1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons |
| 95011628 | 1 kg | KEM 15 plus, powder, blue, opaque, suppressed gap formation, CT: approx. 20 min |
| 95011630 | 10 kg | KEM 15 plus, powder, blue, opaque, suppressed gap formation, CT: approx. 20 min |
| 95011629 | 500 ml | KEM 15 plus, liquid |
| 95011631 | 5 l | KEM 15 plus, liquid |
| | | **KEM 20, transparent (pressure appliance)**<br>**2-component system: powder + liquid (2:1 [Vol.-%])**<br>**» for transparent mounting (pressure vessel), targeted preparation** |
| 95013990 | 1 Pcs. | KEM 20, SET including 1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons |
| 95013939 | 1 kg | KEM 20, powder, transparent, CT: approx. 12 min |
| 95013940 | 5 kg | KEM 20, powder, transparent, CT: approx. 12 min |
| 95013941 | 10 kg | KEM 20, powder, transparent, CT: approx. 12 min |
| 95013942 | 500 ml | KEM 20, liquid |
| 95013943 | 1 l | KEM 20, liquid |
| | | **KEM 30, green, transparent**<br>**2-component system: powder + liquid (2:1 [Vol.-%])**<br>**» for semi-transparent mounting (pressure vessel), routine work, soft to medium-hard materials** |
| 95012021 | 1 Pcs. | KEM 30, SET including 1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons |
| 92004080 | 1 kg | KEM 30, powder, green, transparent, CT: approx. 5 min |
| 92004082 | 5 kg | KEM 30, powder, green, transparent, CT: approx. 5 min |
| 92004081 | 500 ml | KEM 30, liquid |
| 92004083 | 1 l | KEM 30, liquid |
| 92002540 | 2,5 l | KEM 30, liquid |
| | | **KEM 35, light green, opaque, low in gaps**<br>**2-component system: powder + liquid (1.5:1 [Vol.-%])**<br>**» for minimized gap formation, edge examination, medium-hard to very hard materials** |
| 95012022 | 1 Pcs. | KEM 35, SET including 1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons |
| 92002473 | 1 kg | KEM 35, powder, light green, opaque, CT: approx. 12 min |
| 92002474 | 5 kg | KEM 35, powder, light green, opaque, CT: approx. 12 min |
| 92002512 | 10 kg | KEM 35, powder, light green, opaque, CT: approx. 12 min |
| 92002475 | 500 ml | KEM 35, liquid |
| 92002476 | 1 l | KEM 35, liquid |
| 92002477 | 2,5 l | KEM 35, liquid |
| | | **» Download of Safety Data Sheets at www.qatm.com** |

| Item No. | Unit | Description |
|---|---|---|
| | | **Cold mounting material MMA-free** |
| | | **CT = curing time** |
| | | **KEM 60, red**<br>**2-component system (MMA-free): powder + liquid (2:0.9 [weight-%])**<br>**» universal usage** |
| 95014004 | 1 Pcs. | KEM 60, SET including 1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons |
| 95013184 | 1 kg | KEM 60, powder, red, CT approx. 8 - 10 min. |
| 95013185 | 5 kg | KEM 60, powder, red, CT approx. 8 - 10 min. |
| 95013186 | 10 kg | KEM 60, powder, red, CT approx. 8 - 10 min. |
| 95013187 | 500 ml | KEM 60, liquid |
| | | **Cold mounting material epoxy resin** |
| | | **CT = curing time** |
| | | **KEM 90, clear, transparent**<br>**2-components-system: resin + hardener (2:1 [weight-%])**<br>**» suitable for vacuum infiltration e.g. porous materials** |
| 92002484 | 500 ml | KEM 90, resin, clear, transparent, CT: approx. 16 - 24 h |
| 92002485 | 250 ml | KEM 90, hardener |
| | | **Cold mounting material methylmethacrylate** |
| | | **CT = curing time** |
| | | **Technovit 4000 SET white, opaque**<br>**3-component system: powder + fluid 1 + fluid 2 (3:2:1 [Vol.-%])**<br>**» with high edge retention, edge examination, medium hard to hard materials** |
| 92001683 | 1 Pcs. | Technovit 4000 SET (750 g / 500 ml / 250 ml), white, opaque, CT: approx. 8 min |
| 92001684 | 1 Pcs. | Technovit 4000 SET (1.5 kg / 1 Ltr. / 500 ml), white, opaque, CT: approx. 8 min |
| Alternative: **KEM 20** | | **Technovit 4004, transparent**<br>**2-component system: powder + liquid (2:1 [Vol.-%])**<br>**» for transparent embedding (pressure vessell), target preparation** |
| 92001688 | 1 kg | Technovit 4004, powder, transparent (bubble-free in pressure appliance), CT: approx. 12 min |
| 92001689 | 2 kg | Technovit 4004, powder, transparent (bubble-free in pressure appliance), CT: approx. 12 min |
| 92001691 | 500 ml | Technovit 4004, liquid |
| 92001692 | 1 l | Technovit 4004, liquid |
| Alternative: **KEM 30** | | **Technovit 4071, green, transparent**<br>**2-component system: powder + liquid (2:1 [Vol.-%])**<br>**» for semi-transparent embedding, (pressure vessel), routine embedding, medium hard to hard materials** |
| 92001695 | 1 kg | Technovit 4071, powder, green, transparent, CT: approx. 4-6 min |
| 92001696 | 2 kg | Technovit 4071, powder, green, transparent, CT: approx. 4-6 min |
| 92001698 | 500 ml | Technovit 4071, liquid |
| 92001699 | 1 l | Technovit 4071, liquid |
| | | **Technovit 5000, copper-brown**<br>**2-component system: powder + fluid (1.55:1 [Vol.-%])**<br>**» conductive, for SEM examinations** |
| 95004058 | 1 kg | Technovit 5000, powder, copper-brown (bubble-free with pressure vessel), CT: approx. 7 min. |
| 95004059 | 500 ml | Technovit 5000, liquid |
| | | **» Download of Safety Data Sheets at www.qatm.com** |

| Item No. | Unit | Description |
|---|---|---|
| | | **Accessories for cold mounting** |
| 92001715 | 100 Pcs. | Mixing cups, disposable, 180 ml |
| 92004360 | 1 Pcs. | Silicon mixing cup, reusable |
| 92001717 | 100 Pcs. | Mixing sticks (wood) |
| 92002623 | 100 Pcs. | Plastic mounting aid Ø 30 mm, gap 1 mm |
| 92002625 | 100 Pcs. | Plastic mounting aid Ø 30 mm, gap 2 mm |
| 92002624 | 100 Pcs. | Plastic mounting aid Ø 30 mm, gap 3 mm |
| 92002658 | 1 Pcs. | Funnel for hot mounting material |
| 92002715 | 1 Pcs. | 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 |
| 92001779 | 10 Pcs. | Dosing spoon for cold mounting material, 20 ml |
| 92001781 | 10 Pcs. | Dosing spoon for cold mounting material, 13 ml |
| 92002662 | 100 Pcs. | Steel clip for for aligning thin samples in mould |
| 92002663 | 100 Pcs. | Plastic clip for aligning thin samples in mould, transparent |
| 92002707 | 100 Pcs. | Plastic clip for aligning thin samples in mould, black |
| 92002708 | 100 Pcs. | Plastic clip for aligning thin samples in mould, red |
| 92002709 | 100 Pcs. | Plastic clip for aligning thin samples in mould, grey |
| | | **Cold mounting moulds** |
| | | **Silicon rubber round, beveled edge<br>reuseable, not suitable for light curing** |
| 92002511 | 1 Pcs. | Silicon rubber round, Ø 25 mm / H 23 mm |
| 92002504 | 1 Pcs. | Silicon rubber round, Ø 30 mm / H 25 mm |
| 92002505 | 1 Pcs. | Silicon rubber round, Ø 32 mm / H 25 mm |
| 92002506 | 1 Pcs. | Silicon rubber round, Ø 38 mm / H 25 mm |
| 92005567 | 1 Pcs. | Silicon rubber round, Ø 40 mm / H 30 mm |
| 92005568 | 1 Pcs. | Silicon rubber round, Ø 50 mm / H 30 mm |
| | | **Silicon rubber square, beveled edge<br>reuseable, not suitable for light curing** |
| 92002509 | 1 Pcs. | Silicon rubber square, 55 x 30 mm / H 22 mm |
| 92002510 | 1 Pcs. | Silicon rubber square, 70 x 40 mm / H 22 mm |
| | | **Polypropylene round<br>reuseable, for light curing, with exchangeable bottom** |
| 92001719 | 1 Pcs. | Polypropylene round, Ø 25 mm / H 27 mm |
| 92001710 | 1 Pcs. | Polypropylene round, Ø 30 mm / H 27 mm |
| 92001711 | 1 Pcs. | Polypropylene round, Ø 40 mm / H 27 mm |
| | | **Polyethylene round,<br>» reuseable,<br>» with exchangeable bottom** |
| 95016167 | 1 Pcs. | Polyethylene round, Ø 25 mm / H 25 mm |
| 95016168 | 1 Pcs. | Polyethylene round, Ø 30 mm / H 25 mm |
| 95016169 | 1 Pcs. | Polyethylene round, Ø 40 mm / H 25 mm |
| 95011522 | 1 Pcs. | Polyethylene round, Ø 50 mm / H 25 mm |
| | | **PTFE round, beveled edge<br>reuseable, not suitable for light curin, with exchangeable bottom** |
| 92002513 | 1 Pcs. | PTFE round, Ø 25 mm / H 23 mm |
| 92002514 | 1 Pcs. | PTFE round, Ø 30 mm / H 25 mm |
| 92002515 | 1 Pcs. | PTFE round, Ø 32 mm / H 25 mm |
| 92002516 | 1 Pcs. | PTFE round, Ø 38 mm / H 25 mm |
| 92002517 | 1 Pcs. | PTFE round, Ø 40 mm / H 30 mm |
| 92002518 | 1 Pcs. | PTFE round, Ø 50 mm / H 30 mm |
| 92002519 | 1 Pcs. | PTFE round, Ø 70 mm / H 30 mm |

NEW

QUALITY ASSURED

# GRINDING, POLISHING, ETCHING


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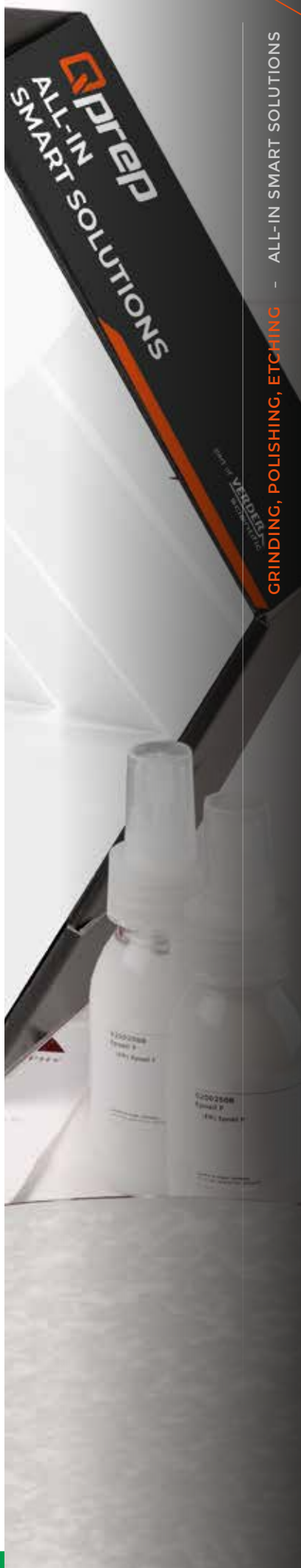
| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Solution Boxes** | | |
| | | **Set of consumables including preparation guide for respective materials** | | |
| | | **Solution Box Al (≥99.7%), wrought Al alloys** | | |
| 95013971 | 1 Pcs. | Solution Box | Ø 200 mm | Al (≥99.7%), wrought Al alloys |
| 95013972 | 1 Pcs. | Solution Box | Ø 250 mm | Al (≥99.7%), wrought Al alloys |
| 95013973 | 1 Pcs. | Solution Box | Ø 300 mm | Al (≥99.7%), wrought Al alloys |
| | | **Aluminum alloys** | | |
| 95013900 | 1 Pcs. | Solution Box | Ø 200 mm | Aluminum alloys |
| 95013883 | 1 Pcs. | Solution Box | Ø 250 mm | Aluminum alloys |
| 95013473 | 1 Pcs. | Solution Box | Ø 300 mm | Aluminum alloys |
| | | **Composites (CFC/GFC)** | | |
| 95013911 | 1 Pcs. | Solution Box | Ø 200 mm | Composites (CFC/GFC) |
| 95013894 | 1 Pcs. | Solution Box | Ø 250 mm | Composites (CFC/GFC) |
| 95013877 | 1 Pcs. | Solution Box | Ø 300 mm | Composites (CFC/GFC) |
| | | **Cast iron (GJS/GJL)** | | |
| 95013915 | 1 Pcs. | Solution Box | Ø 200 mm | Cast iron (GJS/GJL) |
| 95013898 | 1 Pcs. | Solution Box | Ø 250 mm | Cast iron (GJS/GJL) |
| 95013881 | 1 Pcs. | Solution Box | Ø 300 mm | Cast iron (GJS/GJL) |
| | | **Soft to medium-hard steel** | | |
| 95013913 | 1 Pcs. | Solution Box | Ø 200 mm | Soft to medium-hard steel |
| 95013896 | 1 Pcs. | Solution Box | Ø 250 mm | Soft to medium-hard steel |
| 95013879 | 1 Pcs. | Solution Box | Ø 300 mm | Soft to medium-hard steel |
| | | **Medium-hard to hard steel** | | |
| 95013901 | 1 Pcs. | Solution Box | Ø 200 mm | Medium-hard to hard steel |
| 95013884 | 1 Pcs. | Solution Box | Ø 250 mm | Medium-hard to hard steel |
| 95013474 | 1 Pcs. | Solution Box | Ø 300 mm | Medium-hard to hard steel |
| | | **Stainless steel** | | |
| 95013914 | 1 Pcs. | Solution Box | Ø 200 mm | Stainless steel |
| 95013897 | 1 Pcs. | Solution Box | Ø 250 mm | Stainless steel |
| 95013880 | 1 Pcs. | Solution Box | Ø 300 mm | Stainless steel |
| | | **Steel and welded steel (macro)** | | |
| 95013910 | 1 Pcs. | Solution Box | Ø 200 mm | Steel and welded steel (macro) |
| 95013893 | 1 Pcs. | Solution Box | Ø 250 mm | Steel and welded steel (macro) |
| 95013876 | 1 Pcs. | Solution Box | Ø 300 mm | Steel and welded steel (macro) |
| | | **Nitrided steel** | | |
| 95013916 | 1 Pcs. | Solution Box | Ø 200 mm | Nitrided steel |
| 95013899 | 1 Pcs. | Solution Box | Ø 250 mm | Nitrided steel |
| 95013882 | 1 Pcs. | Solution Box | Ø 300 mm | Nitrided steel |
| | | **Ceramics** | | |
| 95013904 | 1 Pcs. | Solution Box | Ø 200 mm | Ceramics |
| 95013887 | 1 Pcs. | Solution Box | Ø 250 mm | Ceramics |
| 95013870 | 1 Pcs. | Solution Box | Ø 300 mm | Ceramics |

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Solution Boxes** | | |
| | | **Set of consumables including preparation guide for respective materials** | | |
| | | **Cobalt based alloy** | | |
| 95013907 | 1 Pcs. | Solution Box | Ø 200 mm | Cobalt based alloy |
| 95013890 | 1 Pcs. | Solution Box | Ø 250 mm | Cobalt based alloy |
| 95013873 | 1 Pcs. | Solution Box | Ø 300 mm | Cobalt based alloy |
| | | **Nickel based alloy** | | |
| 95013974 | 1 Pcs. | Solution Box | Ø 200 mm | Nickel based alloy |
| 95013975 | 1 Pcs. | Solution Box | Ø 250 mm | Nickel based alloy |
| 95013976 | 1 Pcs. | Solution Box | Ø 300 mm | Nickel based alloy |
| | | **Spray coatings (metallic)** | | |
| 95013906 | 1 Pcs. | Solution Box | Ø 200 mm | Spray coatings (metallic) |
| 95013889 | 1 Pcs. | Solution Box | Ø 250 mm | Spray coatings (metallic) |
| 95013872 | 1 Pcs. | Solution Box | Ø 300 mm | Spray coatings (metallic) |
| | | **Magnesium based alloy** | | |
| 95013912 | 1 Pcs. | Solution Box | Ø 200 mm | Magnesium |
| 95013895 | 1 Pcs. | Solution Box | Ø 250 mm | Magnesium |
| 95013878 | 1 Pcs. | Solution Box | Ø 300 mm | Magnesium |
| | | **Circuit board (non assembled)** | | |
| 95013903 | 1 Pcs. | Solution Box | Ø 200 mm | Circuit board (non assembled) |
| 95013886 | 1 Pcs. | Solution Box | Ø 250 mm | Circuit board (non assembled) |
| 95013869 | 1 Pcs. | Solution Box | Ø 300 mm | Circuit board (non assembled) |
| | | **Circuit board (assembled)** | | |
| 95013908 | 1 Pcs. | Solution Box | Ø 200 mm | Circuit board (assembled) |
| 95013891 | 1 Pcs. | Solution Box | Ø 250 mm | Circuit board (assembled) |
| 95013874 | 1 Pcs. | Solution Box | Ø 300 mm | Circuit board (assembled) |
| | | **Copper and copper alloys** | | |
| 95013902 | 1 Pcs. | Solution Box | Ø 200 mm | Copper and copper alloys |
| 95013885 | 1 Pcs. | Solution Box | Ø 250 mm | Copper and copper alloys |
| 95013475 | 1 Pcs. | Solution Box | Ø 300 mm | Copper and copper alloys |
| | | **Titanium (grade 1-4)** | | |
| 95013909 | 1 Pcs. | Solution Box | Ø 200 mm | Titanium (grade 1-4) |
| 95013892 | 1 Pcs. | Solution Box | Ø 250 mm | Titanium (grade 1-4) |
| 95013875 | 1 Pcs. | Solution Box | Ø 300 mm | Titanium (grade 1-4) |
| | | **Titanium alloys** | | |
| 95013905 | 1 Pcs. | Solution Box | Ø 200 mm | Titanium alloys |
| 95013888 | 1 Pcs. | Solution Box | Ø 250 mm | Titanium alloys |
| 95013871 | 1 Pcs. | Solution Box | Ø 300 mm | Titanium alloys |

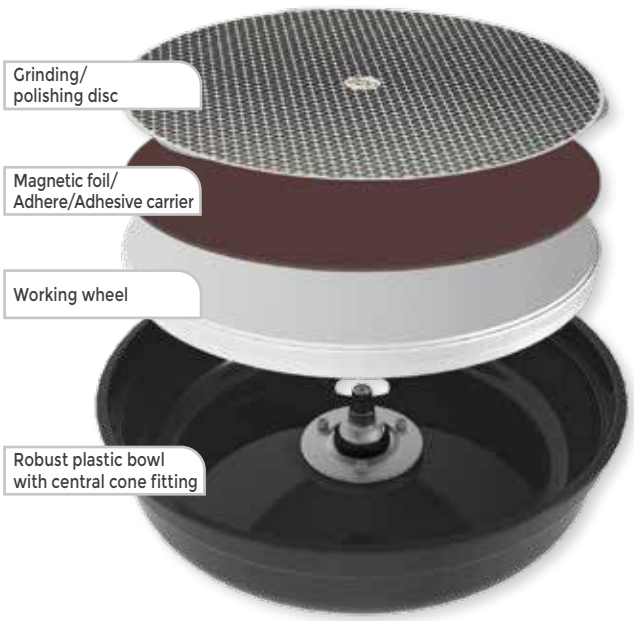


| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Planar grinding stone for Saphir 375** | | | | |
| | | **Usable Thickness** | **Arbor Size** | **Grain Size FEPA-standard** | **Ø** | **Inner Ø** |
| | | **SIC grinding stone<br>» for sintered materials (low- and unalloyed), aluminum, chilled cast iron, copper** | | | | |
| 95002223 | 1 Pcs. | 30 mm | 40 mm | 80 | 350 mm | 90 mm |
| | | **White corundum grinding stone<br>» for tool steel (hardened and not hardened), stainless steel, steel and cast iron** | | | | |
| 95000180 | 1 Pcs. | 30 mm | 40 mm | 100 | 350 mm | 90 mm |
| 95000210 | 1 Pcs. | 30 mm | 40 mm | 150 | 350 mm | 90 mm |
| 95002034 | 1 Pcs. | 30 mm | 40 mm | 180 | 350 mm | 90 mm |
| | | **» inner diameter 120 mm on request** | | | | |
| | | **Multi point dressing diamond<br>» for dressing face grinding stones** | | | | |
| 92008759 | 1 Pcs. | Multi point dressing diamond | | | | |

## Information about grinding stones for planar grinding / practically useable grinding layer thickness

All QATM grinding stones for planar grinding have a metal back, which enlarges the practically useable grinding layer thickness of the grinding stones. Common grinding stones have a practically useable grinding layer thickness of 20 mm, whereas the QATM grinding stones have 32 mm (60% more!).

## Carrier systems for grinding tools



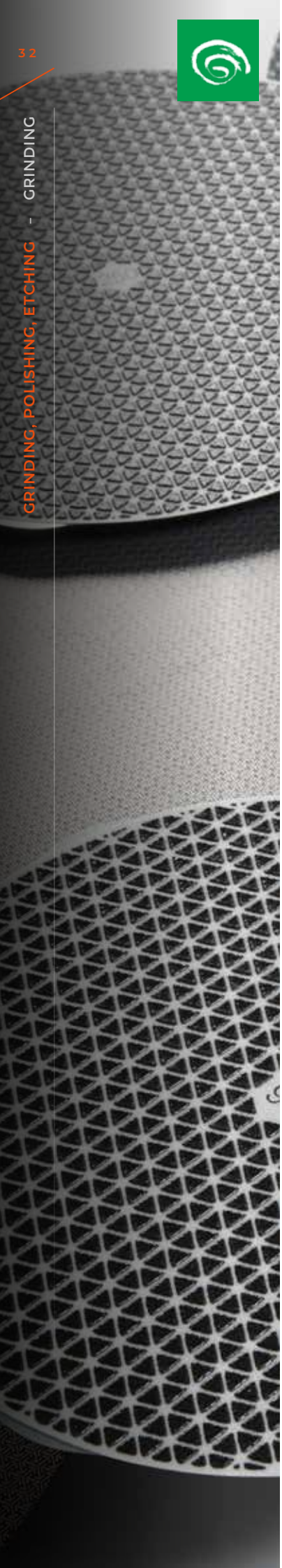
## Info Schleifscheiben

A broad portfoilio of grinding discs with different bonding systems, grain types and grain sizes enables the preparation of various materials. This way you will always find the best solutions for your individual requirements. Due to the hard steel base, extremely plane specimens are produced. The high lifetime of the discs leads to elimination of the constant changing of grinding consumables, offering a more environmentally friendly and time-saving alternative to grinding paper.

POLARIS SIC with silicon carbide abrasive grains is suitable for softer materials such as aluminum, titanium and soft ferrous materials.
POLARIS M and H, QUASAR and GALAXY diamond grinding discs have resin bonds of different hardness. The grit sizes of POLARIS M and H range down to 3 µm, thus polishing steps can be replaced. VEGA is a diamond disc with a metal bond and is particularly suitable for petrographic applications or for planaer grinding of different kinds of materials.

All grinding discs have a steel base and can therefore be directly applied on a magnetic working wheel without further tools. To prevent canting during the grinding process, the specimens should be embedded.

| Item No. | Unit | Description | | | |
|---|---|---|---|---|---|
| | | **POLARIS SIC grinding discs** | | | |
| | | **Description** | **Grain** | **Ø** | **Fixation** |
| | | **Grinding disc with silicon carbide abrasives, for softer materials**<br>**» e.g. for soft ferrous materials, aluminum, copper and titanium materials**<br>**» synthetic resin bond**<br>**» long service life**<br>**» high flatness**<br>**» with slip-resistant backing for optimized hold on magnetic working wheel**<br>**» incl. cleaning stone** | | | |
| 95014996 | 1 Pcs. | POLARIS SIC Grinding Disc | P120 | 200 mm | Adhesion carrier/Magnet carrier |
| 95014997 | 1 Pcs. | POLARIS SIC Grinding Disc | P220 | 200 mm | Adhesion carrier/Magnet carrier |
| 95014998 | 1 Pcs. | POLARIS SIC Grinding Disc | P500 | 200 mm | Adhesion carrier/Magnet carrier |
| 95014999 | 1 Pcs. | POLARIS SIC Grinding Disc | P800 | 200 mm | Adhesion carrier/Magnet carrier |
| 95015000 | 1 Pcs. | POLARIS SIC Grinding Disc | P1200 | 200 mm | Adhesion carrier/Magnet carrier |
| 95015021 | 1 Pcs. | POLARIS SIC Grinding Disc | P120 | 250 mm | Adhesion carrier/Magnet carrier |
| 95015022 | 1 Pcs. | POLARIS SIC Grinding Disc | P220 | 250 mm | Adhesion carrier/Magnet carrier |
| 95015023 | 1 Pcs. | POLARIS SIC Grinding Disc | P500 | 250 mm | Adhesion carrier/Magnet carrier |
| 95015024 | 1 Pcs. | POLARIS SIC Grinding Disc | P800 | 250 mm | Adhesion carrier/Magnet carrier |
| 95015025 | 1 Pcs. | POLARIS SIC Grinding Disc | P1200 | 250 mm | Adhesion carrier/Magnet carrier |
| 95015046 | 1 Pcs. | POLARIS SIC Grinding Disc | P120 | 300 mm | Adhesion carrier/Magnet carrier |
| 95015047 | 1 Pcs. | POLARIS SIC Grinding Disc | P220 | 300 mm | Adhesion carrier/Magnet carrier |
| 95015048 | 1 Pcs. | POLARIS SIC Grinding Disc | P500 | 300 mm | Adhesion carrier/Magnet carrier |
| 95015049 | 1 Pcs. | POLARIS SIC Grinding Disc | P800 | 300 mm | Adhesion carrier/Magnet carrier |
| 95015050 | 1 Pcs. | POLARIS SIC Grinding Disc | P1200 | 300 mm | Adhesion carrier/Magnet carrier |
| 95015071 | 1 Pcs. | POLARIS SIC Grinding Disc | P120 | 350 mm | Adhesion carrier/Magnet carrier |
| 95015072 | 1 Pcs. | POLARIS SIC Grinding Disc | P220 | 350 mm | Adhesion carrier/Magnet carrier |
| 95015073 | 1 Pcs. | POLARIS SIC Grinding Disc | P500 | 350 mm | Adhesion carrier/Magnet carrier |
| 95015074 | 1 Pcs. | POLARIS SIC Grinding Disc | P800 | 350 mm | Adhesion carrier/Magnet carrier |
| 95015075 | 1 Pcs. | POLARIS SIC Grinding Disc | P1200 | 350 mm | Adhesion carrier/Magnet carrier |
| | | **» incl. cleaning stone No. 95015077** | | | |



## Range of grinding and polishing systems

| 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 |
| GALAXY | | GREY | RED | GREEN | BLUE | YELLOW | | | > 350 HV |
| FEPA | P60 | P80-100 | P100-120 | P180-320 | P400-600 | P800-1000 | P5000 | | |
| POLARIS SIC | | | | 220 | 500 | 800 1200 | | | < 300 HV |

## Removal rate*

- POLARIS M
- POLARIS H
- QUASAR
- VEGA
- GALAXY
- POLARIS SIC

## Surface quality*

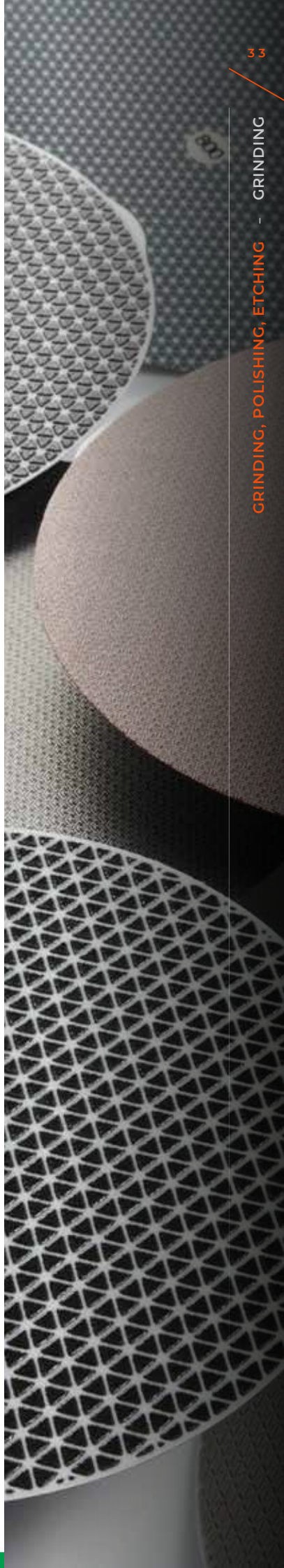
- POLARIS M
- POLARIS H
- QUASAR
- VEGA
- GALAXY
- POLARIS SIC

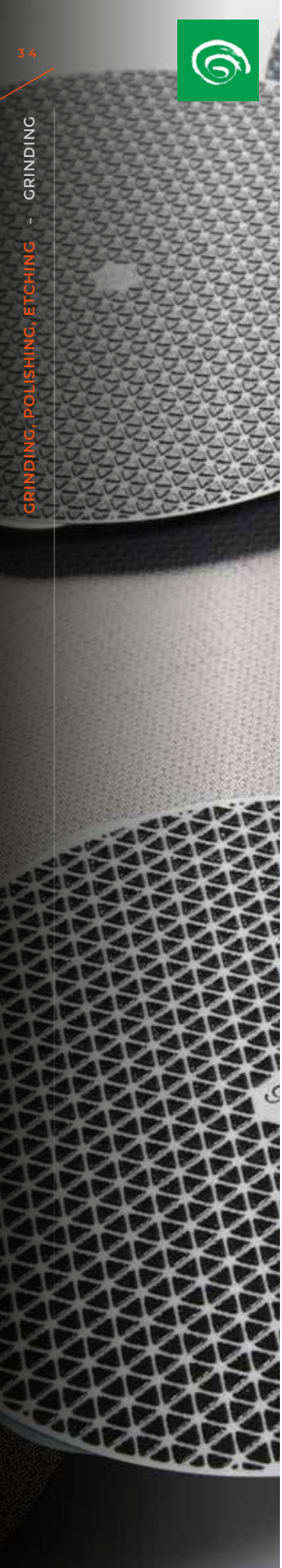
*with newly dressed / cleaned disc and same grit sizes

| Item No. | Unit | Description | | | |
|---|---|---|---|---|---|
| | | **POLARIS M diamond grinding discs** | | | |
| | | **Description** | **Grain Size** | **Ø** | **Fixation** |
| | | **for medium-hard materials**<br>**» for metals, glass, composites and plastics**<br>**» long service life**<br>**» high flatness**<br>**» with slip-resistant backing for optimized hold on magnetic working wheel**<br>**» incl. cleaning stone** | | | |
| 95014991 | 1 Pcs. | POLARIS M Diamond Disc | 60 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014992 | 1 Pcs. | POLARIS M Diamond Disc | 30 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014993 | 1 Pcs. | POLARIS M Diamond Disc | 15 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014994 | 1 Pcs. | POLARIS M Diamond Disc | 6 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014995 | 1 Pcs. | POLARIS M Diamond Disc | 3 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95015016 | 1 Pcs. | POLARIS M Diamond Disc | 60 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015017 | 1 Pcs. | POLARIS M Diamond Disc | 30 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015018 | 1 Pcs. | POLARIS M Diamond Disc | 15 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015019 | 1 Pcs. | POLARIS M Diamond Disc | 6 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015020 | 1 Pcs. | POLARIS M Diamond Disc | 3 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015041 | 1 Pcs. | POLARIS M Diamond Disc | 60 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015042 | 1 Pcs. | POLARIS M Diamond Disc | 30 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015043 | 1 Pcs. | POLARIS M Diamond Disc | 15 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015044 | 1 Pcs. | POLARIS M Diamond Disc | 6 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015045 | 1 Pcs. | POLARIS M Diamond Disc | 3 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015066 | 1 Pcs. | POLARIS M Diamond Disc | 60 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015067 | 1 Pcs. | POLARIS M Diamond Disc | 30 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015068 | 1 Pcs. | POLARIS M Diamond Disc | 15 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015069 | 1 Pcs. | POLARIS M Diamond Disc | 6 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015070 | 1 Pcs. | POLARIS M Diamond Disc | 3 µm | 350 mm | Adhesion carrier/Magnet carrier |
| | | **» incl. cleaning stone No. 95015077** | | | |

| Item No. | Unit | Description | Grain Size | Ø | Fixation |
|---|---|---|---|---|---|
| | | **POLARIS H diamond grinding discs** | | | |
| | | **Description** | | | |
| | | **for hard materials**<br>**» for metals, ceramics, glass, composites and plastics**<br>**» long service life**<br>**» high flatness**<br>**» with slip-resistant backing for optimized hold on magnetic working wheel**<br>**» incl. cleaning stone** | | | |
| 95014985 | 1 Pcs. | POLARIS H Diamond Disc | 125 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014986 | 1 Pcs. | POLARIS H Diamond Disc | 60 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014987 | 1 Pcs. | POLARIS H Diamond Disc | 30 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014988 | 1 Pcs. | POLARIS H Diamond Disc | 15 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014989 | 1 Pcs. | POLARIS H Diamond Disc | 6 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014990 | 1 Pcs. | POLARIS H Diamond Disc | 3 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95015010 | 1 Pcs. | POLARIS H Diamond Disc | 125 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015011 | 1 Pcs. | POLARIS H Diamond Disc | 60 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015012 | 1 Pcs. | POLARIS H Diamond Disc | 30 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015013 | 1 Pcs. | POLARIS H Diamond Disc | 15 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015014 | 1 Pcs. | POLARIS H Diamond Disc | 6 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015015 | 1 Pcs. | POLARIS H Diamond Disc | 3 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015035 | 1 Pcs. | POLARIS H Diamond Disc | 125 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015036 | 1 Pcs. | POLARIS H Diamond Disc | 60 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015037 | 1 Pcs. | POLARIS H Diamond Disc | 30 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015038 | 1 Pcs. | POLARIS H Diamond Disc | 15 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015039 | 1 Pcs. | POLARIS H Diamond Disc | 6 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015040 | 1 Pcs. | POLARIS H Diamond Disc | 3 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015060 | 1 Pcs. | POLARIS H Diamond Disc | 125 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015061 | 1 Pcs. | POLARIS H Diamond Disc | 60 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015062 | 1 Pcs. | POLARIS H Diamond Disc | 30 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015063 | 1 Pcs. | POLARIS H Diamond Disc | 15 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015064 | 1 Pcs. | POLARIS H Diamond Disc | 6 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015065 | 1 Pcs. | POLARIS H Diamond Disc | 3 µm | 350 mm | Adhesion carrier/Magnet carrier |
| | | **» incl. cleaning stone No. 95015077** | | | |

| | Item No. | Unit | Description |
|---|---|---|---|
| | | | **POLARIS Lubricant** |
| | | | **Description** |
| | | | **Lubricant concentrate for POLARIS grinding discs**<br>**» for dilution with water**<br>**» for 21 L Lubricant (mixing ratio 1:20)**<br>**» optimizes surface quality and reduces wear of discs** |
| NEW | 95016363 | 1 L | POLARIS Lubricant, concentrate |





| Item No. | Unit | Description | | | |
|---|---|---|---|---|---|
| | | **QUASAR diamond grinding discs** | | | |
| | | **Description** | **Grain Size** | **Ø** | **Fixation** |
| | | **for hard materials, for levelling and pre-grinding**<br>**» for hard metals and ceramics**<br>**» hard epoxy resin bond**<br>**» very long service life**<br>**» high removal rate**<br>**» high flatness**<br>**» with slip-resistant backing for optimized hold on magnetic working wheel**<br>**» incl. dressing stone** | | | |
| 95014981 | 1 Pcs. | QUASAR Diamond Disc | 252 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014982 | 1 Pcs. | QUASAR Diamond Disc | 125 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014983 | 1 Pcs. | QUASAR Diamond Disc | 91 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95014984 | 1 Pcs. | QUASAR Diamond Disc | 46 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95015006 | 1 Pcs. | QUASAR Diamond Disc | 252 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015007 | 1 Pcs. | QUASAR Diamond Disc | 125 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015008 | 1 Pcs. | QUASAR Diamond Disc | 91 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015009 | 1 Pcs. | QUASAR Diamond Disc | 46 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015031 | 1 Pcs. | QUASAR Diamond Disc | 252 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015032 | 1 Pcs. | QUASAR Diamond Disc | 125 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015033 | 1 Pcs. | QUASAR Diamond Disc | 91 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015034 | 1 Pcs. | QUASAR Diamond Disc | 46 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015056 | 1 Pcs. | QUASAR Diamond Disc | 252 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015057 | 1 Pcs. | QUASAR Diamond Disc | 125 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015058 | 1 Pcs. | QUASAR Diamond Disc | 91 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95015059 | 1 Pcs. | QUASAR Diamond Disc | 46 µm | 350 mm | Adhesion carrier/Magnet carrier |
| | | **» incl. dressing stone No. 95015076** | | | |

| Item No. | Unit | Description | Grain Size | Ø | Fixation |
|---|---|---|---|---|---|
| | | **VEGA diamond grinding discs** | | | |
| | | **Description** | **Grain Size** | **Ø** | **Fixation** |
| | | **for hard materials and levelling**<br>**» for hard ferrous materials and stone (suitable for petrography)**<br>**» nickel bond**<br>**» long service life**<br>**» high removal rate**<br>**» high flatness**<br>**» with slip-resistant backing for optimized hold on magnetic working wheel**<br>**» possible to grind unmounted samples** | | | |
| 95015001 | 1 Pcs. | VEGA Diamond Disc | 125 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95015002 | 1 Pcs. | VEGA Diamond Disc | 75 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95015003 | 1 Pcs. | VEGA Diamond Disc | 54 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95015004 | 1 Pcs. | VEGA Diamond Disc | 25 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95015005 | 1 Pcs. | VEGA Diamond Disc | 10 µm | 200 mm | Adhesion carrier/Magnet carrier |
| 95015026 | 1 Pcs. | VEGA Diamond Disc | 125 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015027 | 1 Pcs. | VEGA Diamond Disc | 75 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015028 | 1 Pcs. | VEGA Diamond Disc | 54 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015029 | 1 Pcs. | VEGA Diamond Disc | 25 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015030 | 1 Pcs. | VEGA Diamond Disc | 10 µm | 250 mm | Adhesion carrier/Magnet carrier |
| 95015051 | 1 Pcs. | VEGA Diamond Disc | 125 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015052 | 1 Pcs. | VEGA Diamond Disc | 75 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015053 | 1 Pcs. | VEGA Diamond Disc | 54 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015054 | 1 Pcs. | VEGA Diamond Disc | 25 µm | 300 mm | Adhesion carrier/Magnet carrier |
| 95015055 | 1 Pcs. | VEGA Diamond Disc | 10 µm | 300 mm | Adhesion carrier/Magnet carrier |
| NEW 95016235 | 1 Pcs. | VEGA Diamond Disc | 125 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95016236 | 1 Pcs. | VEGA Diamond Disc | 75 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95016237 | 1 Pcs. | VEGA Diamond Disc | 54 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95016238 | 1 Pcs. | VEGA Diamond Disc | 25 µm | 350 mm | Adhesion carrier/Magnet carrier |
| 95016239 | 1 Pcs. | VEGA Diamond Disc | 10 µm | 350 mm | Adhesion carrier/Magnet carrier |

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **GALAXY diamond grinding discs** | | |
| | | **Description** | **Ø** | **Fixation** |
| | | **for medium to hard materials**<br>**» planar grinding: grey (P80-100) / red (P100-120)**<br>**» fine grinding: green (P180-320) / blue (P400-600)**<br>**» fine grinding: yellow (P800-1000)**<br>**» resin bond** | | |
| 95005505 | 1 Pcs. | GALAXY Diamond Disc Grey | 200 mm | Adhesion carrier/Magnet carrier |
| 95005521 | 1 Pcs. | GALAXY Diamond Disc Red | 200 mm | Adhesion carrier/Magnet carrier |
| 95005522 | 1 Pcs. | GALAXY Diamond Disc Green | 200 mm | Adhesion carrier/Magnet carrier |
| 95005523 | 1 Pcs. | GALAXY Diamond Disc Blue | 200 mm | Adhesion carrier/Magnet carrier |
| 95005524 | 1 Pcs. | GALAXY Diamond Disc Yellow | 200 mm | Adhesion carrier/Magnet carrier |
| 95004279 | 1 Pcs. | GALAXY Diamond Disc Grey | 250 mm | Adhesion carrier/Magnet carrier |
| 95004310 | 1 Pcs. | GALAXY Diamond Disc Red | 250 mm | Adhesion carrier/Magnet carrier |
| 95004311 | 1 Pcs. | GALAXY Diamond Disc Green | 250 mm | Adhesion carrier/Magnet carrier |
| 95004312 | 1 Pcs. | GALAXY Diamond Disc Blue | 250 mm | Adhesion carrier/Magnet carrier |
| 95004313 | 1 Pcs. | GALAXY Diamond Disc Yellow | 250 mm | Adhesion carrier/Magnet carrier |
| 95004280 | 1 Pcs. | GALAXY Diamond Disc Grey | 300 mm | Adhesion carrier/Magnet carrier |
| 95004314 | 1 Pcs. | GALAXY Diamond Disc Red | 300 mm | Adhesion carrier/Magnet carrier |
| 95004315 | 1 Pcs. | GALAXY Diamond Disc Green | 300 mm | Adhesion carrier/Magnet carrier |
| 95004316 | 1 Pcs. | GALAXY Diamond Disc Blue | 300 mm | Adhesion carrier/Magnet carrier |
| 95004317 | 1 Pcs. | GALAXY Diamond Disc Yellow | 300 mm | Adhesion carrier/Magnet carrier |
| 95013917 | 1 Pcs. | GALAXY Diamond Disc Grey | 350 mm | Adhesion carrier/Magnet carrier |
| 95013918 | 1 Pcs. | GALAXY Diamond Disc Red | 350 mm | Adhesion carrier/Magnet carrier |
| 95013919 | 1 Pcs. | GALAXY Diamond Disc Green | 350 mm | Adhesion carrier/Magnet carrier |
| 95013920 | 1 Pcs. | GALAXY Diamond Disc Blue | 350 mm | Adhesion carrier/Magnet carrier |
| 95013921 | 1 Pcs. | GALAXY Diamond Disc Yellow | 350 mm | Adhesion carrier/Magnet carrier |
| | | **» incl. dressing stone No. 95006603** | | |

| Item No. | Unit | Description | |
|---|---|---|---|
| | | **Galaxy fine grinding disc Contero S** | |
| | | **Description** | **Ø** |
| | | **» pre-polishing and fine grinding disc<br>» for soft to medium materials<br>» high removal rate, high edge sharpness, long service life<br>» recommended diamond grain size 6-15 µm** | |
| 95013192 | 1 Pcs. | GALAXY fine grinding disc Contero S | 200 mm |
| 95013194 | 1 Pcs. | GALAXY fine grinding disc Contero S | 250 mm |
| 95013196 | 1 Pcs. | GALAXY fine grinding disc Contero S | 300 mm |
| 95013922 | 1 Pcs. | GALAXY fine grinding disc Contero S | 350 mm |
| | | **Galaxy fine grinding disc Contero H** | |
| | | **Description** | **Ø** |
| | | **» pre-polishing and fine grinding disc<br>» for medium to hard materials<br>» high removal rate, high edge sharpness, long service life<br>» recommended diamond grain size 6-15 µm** | |
| 95013193 | 1 Pcs. | GALAXY fine grinding disc Contero H | 200 mm |
| 95013195 | 1 Pcs. | GALAXY fine grinding disc Contero H | 250 mm |
| 95013197 | 1 Pcs. | GALAXY fine grinding disc Contero H | 300 mm |
| 95013923 | 1 Pcs. | GALAXY fine grinding disc Contero H | 350 mm |
| | | **Cleaning brushes** | |
| | | **Description** | |
| | | **» for cleaning of ginding and fine grinding discs** | |
| 95016623 | 1 Pcs. | Nylon brush | |

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Diamond grinding foils, metal bond** | | |
| | | **Ø** | **Grain Size** | |
| | | **very long lifetime**<br>**» for planar and fine grinding of samples with medium to very high hardness, esp. rocks, glass, ceramics, silicon** | | |
| 92002289 | 1 Pcs. | 200 mm | 20 µm | self-adhesive |
| 92002292 | 1 Pcs. | 200 mm | 40 µm | self-adhesive |
| 92002293 | 1 Pcs. | 200 mm | 74 µm | self-adhesive |
| 92002294 | 1 Pcs. | 200 mm | 125 µm | self-adhesive |
| 92002301 | 1 Pcs. | 250 mm | 20 µm | self-adhesive |
| 92002299 | 1 Pcs. | 250 mm | 40 µm | self-adhesive |
| 92002298 | 1 Pcs. | 250 mm | 74 µm | self-adhesive |
| 92002297 | 1 Pcs. | 250 mm | 125 µm | self-adhesive |
| 92002296 | 1 Pcs. | 250 mm | 250 µm | self-adhesive |
| 92002308 | 1 Pcs. | 300 mm | 20 µm | self-adhesive |
| 92002306 | 1 Pcs. | 300 mm | 40 µm | self-adhesive |
| 92002305 | 1 Pcs. | 300 mm | 74 µm | self-adhesive |
| 92002304 | 1 Pcs. | 300 mm | 125 µm | self-adhesive |
| 92002303 | 1 Pcs. | 300 mm | 250 µm | self-adhesive |

| | | | | |
|---|---|---|---|---|
| | | **Zirconia aluminum oxide grinding papers for coarse grinding** | | |
| | | **Ø** | **Grain FEPA-Standard** | **Fixation** |
| | | **very high removal rate, long lifetime**<br>**» for planar grinding of larger sample cross sections, spectral analysis** | | |
| 92002374 | 25 Pcs. | 200 mm | P60 | self-adhesive |
| 92002375 | 25 Pcs. | 200 mm | P120 | self-adhesive |
| 92002376 | 25 Pcs. | 200 mm | P180 | self-adhesive |
| 92002382 | 25 Pcs. | 250 mm | P60 | self-adhesive |
| 92002383 | 25 Pcs. | 250 mm | P120 | self-adhesive |
| 92002384 | 25 Pcs. | 250 mm | P180 | self-adhesive |
| 92002386 | 25 Pcs. | 300 mm | P60 | self-adhesive |
| 92002387 | 25 Pcs. | 300 mm | P120 | self-adhesive |
| 92002388 | 25 Pcs. | 300 mm | P180 | self-adhesive |

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Silicon carbide grinding foils** | | |
| | | **Ø** | **Grain FEPA-standard** | |
| | | **» very plane, no rolling up<br>» multiple use, tear-resistant, approved foil thickness<br>» fixation without clamping ring<br>» for all adhesive systems, e.g. adhesive carrier disc** | | |
| 92008594 | 100 Pcs. | 200 mm | P120 | Adhesion carrier/Vacuum system |
| 92008595 | 100 Pcs. | 200 mm | P180 | Adhesion carrier/Vacuum system |
| 95007925 | 100 Pcs. | 200 mm | P240 | Adhesion carrier/Vacuum system |
| 92008592 | 100 Pcs. | 200 mm | P320 | Adhesion carrier/Vacuum system |
| 92008591 | 100 Pcs. | 200 mm | P600 | Adhesion carrier/Vacuum system |
| 95000870 | 100 Pcs. | 200 mm | P800 | Adhesion carrier/Vacuum system |
| 92008596 | 100 Pcs. | 200 mm | P1200 | Adhesion carrier/Vacuum system |
| 95008558 | 100 Pcs. | 200 mm | P2500 | Adhesion carrier/Vacuum system |
| 92008557 | 100 Pcs. | 250 mm | P120 | Adhesion carrier/Vacuum system |
| 92008558 | 100 Pcs. | 250 mm | P180 | Adhesion carrier/Vacuum system |
| 95000899 | 100 Pcs. | 250 mm | P240 | Adhesion carrier/Vacuum system |
| 92006305 | 100 Pcs. | 250 mm | P320 | Adhesion carrier/Vacuum system |
| 92006304 | 100 Pcs. | 250 mm | P600 | Adhesion carrier/Vacuum system |
| 95000900 | 100 Pcs. | 250 mm | P800 | Adhesion carrier/Vacuum system |
| 92008559 | 100 Pcs. | 250 mm | P1200 | Adhesion carrier/Vacuum system |
| 92008639 | 100 Pcs. | 250 mm | P2500 | Adhesion carrier/Vacuum system |
| 92008561 | 100 Pcs. | 300 mm | P120 | Adhesion carrier/Vacuum system |
| 92008658 | 100 Pcs. | 300 mm | P180 | Adhesion carrier/Vacuum system |
| 95000902 | 100 Pcs. | 300 mm | P240 | Adhesion carrier/Vacuum system |
| 92006303 | 100 Pcs. | 300 mm | P320 | Adhesion carrier/Vacuum system |
| 92006302 | 100 Pcs. | 300 mm | P600 | Adhesion carrier/Vacuum system |
| 95000903 | 100 Pcs. | 300 mm | P800 | Adhesion carrier/Vacuum system |
| 92008562 | 100 Pcs. | 300 mm | P1200 | Adhesion carrier/Vacuum system |
| 92008621 | 100 Pcs. | 300 mm | P2500 | Adhesion carrier/Vacuum system |
| 95015187 | 100 Pcs. | 350 mm | P120 | Adhesion carrier/Vacuum system |
| 95015188 | 100 Pcs. | 350 mm | P180 | Adhesion carrier/Vacuum system |
| 95015189 | 100 Pcs. | 350 mm | P240 | Adhesion carrier/Vacuum system |
| 95015190 | 100 Pcs. | 350 mm | P320 | Adhesion carrier/Vacuum system |
| 95015191 | 100 Pcs. | 350 mm | P600 | Adhesion carrier/Vacuum system |
| 95015192 | 100 Pcs. | 350 mm | P800 | Adhesion carrier/Vacuum system |
| 95015193 | 100 Pcs. | 350 mm | P1200 | Adhesion carrier/Vacuum system |
| 95015194 | 100 Pcs. | 350 mm | P2500 | Adhesion carrier/Vacuum system |

| Item No. | Unit | Description |
|---|---|---|
| | | **Adhesion carrier discs, double-sided** |
| | | **Ø** |
| | | **permanent adhesion on both sides, reusable**<br>**» suitable for all fixing systems (standard, magnetic)**<br>**» no adhesive residues** |
| 95003781 | 1 Pcs. | 200 mm |
| 95003607 | 1 Pcs. | 250 mm |
| 95003608 | 1 Pcs. | 300 mm |
| 95014566 | 1 Pcs. | 350 mm |
| | | **» before initial use please remove protective foil on both sides** |

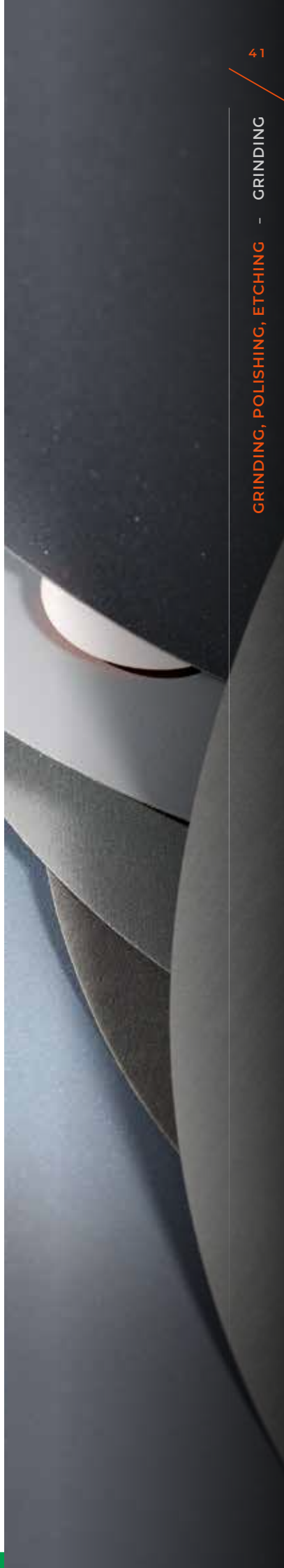
## Information adhesion carrier

The QATM adhere carrier is a universal adapter with nano-active surface. Consequently, a good adhesion combined with easy disassembling of the grinding and polishing discs are guaranteed.
The adhesion carrier is compatible with:
GALAXY grinding and polishing discs, SiC foils, SiC paper (with foiled back), polishing cloths with carrier disc.

| | | | | |
|---|---|---|---|---|
| | | **Alumina grinding foils** | | |
| | | **Ø** | **Grain Size FEPA-standard** | |
| | | **» for all applications, spectral analysis**<br>**» very plane grinding**<br>**» multiple use**<br>**» for all adhesive systems, e.g. adhesive carrier disc** | | |
| 95002894 | 100 Pcs. | 250 mm | P120 | Adhesion carrier/Vacuum system |
| 95002895 | 100 Pcs. | 250 mm | P240 | Adhesion carrier/Vacuum system |
| 95002897 | 100 Pcs. | 250 mm | P400 | Adhesion carrier/Vacuum system |
| 95002898 | 100 Pcs. | 250 mm | P600 | Adhesion carrier/Vacuum system |
| 95002903 | 100 Pcs. | 250 mm | P800 | Adhesion carrier/Vacuum system |
| 95002899 | 100 Pcs. | 250 mm | P1200 | Adhesion carrier/Vacuum system |
| 95003680 | 100 Pcs. | 250 mm | P2500 | Adhesion carrier/Vacuum system |
| 92008672 | 100 Pcs. | 300 mm | P120 | Adhesion carrier/Vacuum system |
| 92008673 | 100 Pcs. | 300 mm | P240 | Adhesion carrier/Vacuum system |
| 92008674 | 100 Pcs. | 300 mm | P400 | Adhesion carrier/Vacuum system |
| 92008675 | 100 Pcs. | 300 mm | P600 | Adhesion carrier/Vacuum system |
| 95003258 | 100 Pcs. | 300 mm | P800 | Adhesion carrier/Vacuum system |
| 92008676 | 100 Pcs. | 300 mm | P1200 | Adhesion carrier/Vacuum system |
| 95003259 | 100 Pcs. | 300 mm | P2500 | Adhesion carrier/Vacuum system |

## Für Verwendung mit Haftträger (Seite 40) geeignet

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Silicon carbide grinding paper, with foil backing** | | |
| | | **Ø** | **Grain FEPA-standard** | |
| | | **» for all adhesive systems e.g. adhesion carrier disc** | | |
| 95011898 | 100 Pcs. | 200 mm | P80 | Adhesion carrier/Vacuum system |
| 95011899 | 100 Pcs. | 200 mm | P120 | Adhesion carrier/Vacuum system |
| 95011900 | 100 Pcs. | 200 mm | P180 | Adhesion carrier/Vacuum system |
| 95011901 | 100 Pcs. | 200 mm | P240 | Adhesion carrier/Vacuum system |
| 95011902 | 100 Pcs. | 200 mm | P320 | Adhesion carrier/Vacuum system |
| 95011903 | 100 Pcs. | 200 mm | P400 | Adhesion carrier/Vacuum system |
| 95011904 | 100 Pcs. | 200 mm | P500 | Adhesion carrier/Vacuum system |
| 95011905 | 100 Pcs. | 200 mm | P600 | Adhesion carrier/Vacuum system |
| 95011906 | 100 Pcs. | 200 mm | P800 | Adhesion carrier/Vacuum system |
| 95011907 | 100 Pcs. | 200 mm | P1000 | Adhesion carrier/Vacuum system |
| 95011908 | 100 Pcs. | 200 mm | P1200 | Adhesion carrier/Vacuum system |
| 95011909 | 100 Pcs. | 200 mm | P2500 | Adhesion carrier/Vacuum system |
| 95011928 | 100 Pcs. | 250 mm | P80 | Adhesion carrier/Vacuum system |
| 95011929 | 100 Pcs. | 250 mm | P120 | Adhesion carrier/Vacuum system |
| 95011930 | 100 Pcs. | 250 mm | P180 | Adhesion carrier/Vacuum system |
| 95011931 | 100 Pcs. | 250 mm | P240 | Adhesion carrier/Vacuum system |
| 95011932 | 100 Pcs. | 250 mm | P320 | Adhesion carrier/Vacuum system |
| 95011933 | 100 Pcs. | 250 mm | P400 | Adhesion carrier/Vacuum system |
| 95011934 | 100 Pcs. | 250 mm | P500 | Adhesion carrier/Vacuum system |
| 95011935 | 100 Pcs. | 250 mm | P600 | Adhesion carrier/Vacuum system |
| 95011936 | 100 Pcs. | 250 mm | P800 | Adhesion carrier/Vacuum system |
| 95011937 | 100 Pcs. | 250 mm | P1000 | Adhesion carrier/Vacuum system |
| 95011938 | 100 Pcs. | 250 mm | P1200 | Adhesion carrier/Vacuum system |
| 95011939 | 100 Pcs. | 250 mm | P2500 | Adhesion carrier/Vacuum system |
| 95011943 | 100 Pcs. | 300 mm | P80 | Adhesion carrier/Vacuum system |
| 95011944 | 100 Pcs. | 300 mm | P120 | Adhesion carrier/Vacuum system |
| 95011945 | 100 Pcs. | 300 mm | P180 | Adhesion carrier/Vacuum system |
| 95011946 | 100 Pcs. | 300 mm | P240 | Adhesion carrier/Vacuum system |
| 95011947 | 100 Pcs. | 300 mm | P320 | Adhesion carrier/Vacuum system |
| 95011948 | 100 Pcs. | 300 mm | P400 | Adhesion carrier/Vacuum system |
| 95011949 | 100 Pcs. | 300 mm | P500 | Adhesion carrier/Vacuum system |
| 95011950 | 100 Pcs. | 300 mm | P600 | Adhesion carrier/Vacuum system |
| 95011951 | 100 Pcs. | 300 mm | P800 | Adhesion carrier/Vacuum system |
| 95011952 | 100 Pcs. | 300 mm | P1000 | Adhesion carrier/Vacuum system |
| 95011953 | 100 Pcs. | 300 mm | P1200 | Adhesion carrier/Vacuum system |
| 95011954 | 100 Pcs. | 300 mm | P2500 | Adhesion carrier/Vacuum system |



Für Verwendung mit Haftträger (Seite 40) geeignet

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Silicon carbide grinding paper, with foil backing** | | |
| | | **Ø** | **Grain FEPA-standard** | |
| | | **» for all adhesive systems e.g. adhesion carrier disc** | | |
| 95014005 | 100 Pcs. | 350 mm | P80 | Adhesion carrier/Vacuum system |
| 95014006 | 100 Pcs. | 350 mm | P120 | Adhesion carrier/Vacuum system |
| 95014007 | 100 Pcs. | 350 mm | P180 | Adhesion carrier/Vacuum system |
| 95014008 | 100 Pcs. | 350 mm | P240 | Adhesion carrier/Vacuum system |
| 95014009 | 100 Pcs. | 350 mm | P320 | Adhesion carrier/Vacuum system |
| 95014010 | 100 Pcs. | 350 mm | P400 | Adhesion carrier/Vacuum system |
| 95014011 | 100 Pcs. | 350 mm | P500 | Adhesion carrier/Vacuum system |
| 95014012 | 100 Pcs. | 350 mm | P600 | Adhesion carrier/Vacuum system |
| 95014013 | 100 Pcs. | 350 mm | P800 | Adhesion carrier/Vacuum system |
| 95014014 | 100 Pcs. | 350 mm | P1000 | Adhesion carrier/Vacuum system |
| 95014015 | 100 Pcs. | 350 mm | P1200 | Adhesion carrier/Vacuum system |
| 95014016 | 100 Pcs. | 350 mm | P2500 | Adhesion carrier/Vacuum system |

Especially suitable for adhere carrier disc (page 40)

| | | Silicon carbide grinding papers | | |
|---|---|---|---|---|
| | | **Ø** | **Grain FEPA-Standard** | **Fixation** |
| | | **» for all kinds of conventional surfaces** | | |
| 92002544 | 100 Pcs. | 200 mm | P80 | self-adhesive |
| 92002545 | 100 Pcs. | 200 mm | P120 | self-adhesive |
| 92002546 | 100 Pcs. | 200 mm | P180 | self-adhesive |
| 92002547 | 100 Pcs. | 200 mm | P240 | self-adhesive |
| 92002548 | 100 Pcs. | 200 mm | P320 | self-adhesive |
| 92002549 | 100 Pcs. | 200 mm | P400 | self-adhesive |
| 92004516 | 100 Pcs. | 200 mm | P600 | self-adhesive |
| 92002550 | 100 Pcs. | 200 mm | P800 | self-adhesive |
| 92002551 | 100 Pcs. | 200 mm | P1000 | self-adhesive |
| 92002638 | 100 Pcs. | 200 mm | P1200 | self-adhesive |
| 92002761 | 100 Pcs. | 200 mm | 2400* | self-adhesive |
| 92004561 | 100 Pcs. | 200 mm | P2500 | self-adhesive |
| 92002762 | 100 Pcs. | 200 mm | 4000* | self-adhesive |

*slurry coated, for a finer surface finish

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Silicon carbide grinding papers** | | |
| | | **Ø** | **Grain FEPA-Standard** | **Fixation** |
| | | **» for all kinds of conventional surfaces** | | |
| 92001633 | 100 Pcs. | 230 mm | P80 | self-adhesive |
| 92001634 | 100 Pcs. | 230 mm | P120 | self-adhesive |
| 92001635 | 100 Pcs. | 230 mm | P180 | self-adhesive |
| 92001636 | 100 Pcs. | 230 mm | P240 | self-adhesive |
| 92001637 | 100 Pcs. | 230 mm | P320 | self-adhesive |
| 92001638 | 100 Pcs. | 230 mm | P400 | self-adhesive |
| 92004517 | 100 Pcs. | 230 mm | P600 | self-adhesive |
| 92001639 | 100 Pcs. | 230 mm | P800 | self-adhesive |
| 92001640 | 100 Pcs. | 230 mm | P1000 | self-adhesive |
| 92001641 | 100 Pcs. | 230 mm | P1200 | self-adhesive |
| 92002862 | 100 Pcs. | 230 mm | 2400* | self-adhesive |
| 92004562 | 100 Pcs. | 230 mm | P2500 | self-adhesive |
| 92002863 | 100 Pcs. | 230 mm | 4000* | self-adhesive |
| | | | | |
| 92001643 | 100 Pcs. | 250 mm | P80 | self-adhesive |
| 92001644 | 100 Pcs. | 250 mm | P120 | self-adhesive |
| 92001645 | 100 Pcs. | 250 mm | P180 | self-adhesive |
| 92004953 | 100 Pcs. | 250 mm | P240 | self-adhesive |
| 92001647 | 100 Pcs. | 250 mm | P320 | self-adhesive |
| 92001648 | 100 Pcs. | 250 mm | P400 | self-adhesive |
| 92001649 | 100 Pcs. | 250 mm | P600 | self-adhesive |
| 92001650 | 100 Pcs. | 250 mm | P800 | self-adhesive |
| 92001651 | 100 Pcs. | 250 mm | P1000 | self-adhesive |
| 92001652 | 100 Pcs. | 250 mm | P1200 | self-adhesive |
| 92002763 | 100 Pcs. | 250 mm | 2400* | self-adhesive |
| 92004563 | 100 Pcs. | 250 mm | P2500 | self-adhesive |
| 92002764 | 100 Pcs. | 250 mm | 4000* | self-adhesive |
| | | | | |
| 92001654 | 100 Pcs. | 300 mm | P80 | self-adhesive |
| 92001655 | 100 Pcs. | 300 mm | P120 | self-adhesive |
| 92001657 | 100 Pcs. | 300 mm | P180 | self-adhesive |
| 92001658 | 100 Pcs. | 300 mm | P240 | self-adhesive |
| 92001659 | 100 Pcs. | 300 mm | P320 | self-adhesive |
| 92001660 | 100 Pcs. | 300 mm | P400 | self-adhesive |
| 92001661 | 100 Pcs. | 300 mm | P600 | self-adhesive |
| 92001662 | 100 Pcs. | 300 mm | P800 | self-adhesive |
| 92001663 | 100 Pcs. | 300 mm | P1000 | self-adhesive |
| 92001664 | 100 Pcs. | 300 mm | P1200 | self-adhesive |
| 92002765 | 100 Pcs. | 300 mm | 2400* | self-adhesive |
| 92004564 | 100 Pcs. | 300 mm | P2500 | self-adhesive |
| 92002766 | 100 Pcs. | 300 mm | 4000* | self-adhesive |

*slurry coated, for a finer surface finish

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Silicon carbide grinding papers** | | |
| | | **Ø** | **Grain FEPA-Standard** | **Fixation** |
| | | **» without adhesive backing**<br>**» suitable with clamping ring, adhesive foil or spray glue** | | |
| 92001810 | 100 Pcs. | 200 mm | P60 | Clamping Ring/Adhesive Foil |
| 92001811 | 100 Pcs. | 200 mm | P80 | Clamping Ring/Adhesive Foil |
| 92001812 | 100 Pcs. | 200 mm | P120 | Clamping Ring/Adhesive Foil |
| 92001813 | 100 Pcs. | 200 mm | P180 | Clamping Ring/Adhesive Foil |
| 92001814 | 100 Pcs. | 200 mm | P240 | Clamping Ring/Adhesive Foil |
| 92001815 | 100 Pcs. | 200 mm | P320 | Clamping Ring/Adhesive Foil |
| 92001816 | 100 Pcs. | 200 mm | P400 | Clamping Ring/Adhesive Foil |
| 92001817 | 100 Pcs. | 200 mm | P500 | Clamping Ring/Adhesive Foil |
| 92001818 | 100 Pcs. | 200 mm | P600 | Clamping Ring/Adhesive Foil |
| 92001819 | 100 Pcs. | 200 mm | P800 | Clamping Ring/Adhesive Foil |
| 92001820 | 100 Pcs. | 200 mm | P1000 | Clamping Ring/Adhesive Foil |
| 92001821 | 100 Pcs. | 200 mm | P1200 | Clamping Ring/Adhesive Foil |
| 92002634 | 100 Pcs. | 200 mm | 2400* | Clamping Ring/Adhesive Foil |
| 92004557 | 100 Pcs. | 200 mm | P2500 | Clamping Ring/Adhesive Foil |
| 92002640 | 100 Pcs. | 200 mm | 4000* | Clamping Ring/Adhesive Foil |
| | | | | |
| 92001567 | 100 Pcs. | 230 mm | P60 | Clamping Ring/Adhesive Foil |
| 92001568 | 100 Pcs. | 230 mm | P80 | Clamping Ring/Adhesive Foil |
| 92001569 | 100 Pcs. | 230 mm | P120 | Clamping Ring/Adhesive Foil |
| 92001570 | 100 Pcs. | 230 mm | P180 | Clamping Ring/Adhesive Foil |
| 92001571 | 100 Pcs. | 230 mm | P240 | Clamping Ring/Adhesive Foil |
| 92001572 | 100 Pcs. | 230 mm | P320 | Clamping Ring/Adhesive Foil |
| 92001573 | 100 Pcs. | 230 mm | P400 | Clamping Ring/Adhesive Foil |
| 92001574 | 100 Pcs. | 230 mm | P500 | Clamping Ring/Adhesive Foil |
| 92001575 | 100 Pcs. | 230 mm | P600 | Clamping Ring/Adhesive Foil |
| 92001576 | 100 Pcs. | 230 mm | P800 | Clamping Ring/Adhesive Foil |
| 92001577 | 100 Pcs. | 230 mm | P1000 | Clamping Ring/Adhesive Foil |
| 92001578 | 100 Pcs. | 230 mm | P1200 | Clamping Ring/Adhesive Foil |
| 92002635 | 100 Pcs. | 230 mm | 2400* | Clamping Ring/Adhesive Foil |
| 92004558 | 100 Pcs. | 230 mm | P2500 | Clamping Ring/Adhesive Foil |
| 92001579 | 100 Pcs. | 230 mm | 4000* | Clamping Ring/Adhesive Foil |

*slurry coated, for a finer surface finish

| | | **Clamping Ring** |
|---|---|---|
| | | **Ø** |
| | | **» made from plastic** |
| 05610228 | 1 Pcs. | 200 mm |
| 05610227 | 1 Pcs. | 230 mm |
| 05610226 | 1 Pcs. | 250 mm |
| 05610225 | 1 Pcs. | 300 mm |

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Silicon carbide grinding papers** | | |
| | | **Ø** | **Grain FEPA-Standard** | **Fixation** |
| | | **» without adhesive backing**<br>**» suitable with clamping ring, adhesive foil or spray glue** | | |
| 92001580 | 100 Pcs. | 250 mm | P60 | Clamping Ring/Adhesive Foil |
| 92001581 | 100 Pcs. | 250 mm | P80 | Clamping Ring/Adhesive Foil |
| 92001582 | 100 Pcs. | 250 mm | P120 | Clamping Ring/Adhesive Foil |
| 92001583 | 100 Pcs. | 250 mm | P180 | Clamping Ring/Adhesive Foil |
| 92002369 | 100 Pcs. | 250 mm | P240 | Clamping Ring/Adhesive Foil |
| 92001585 | 100 Pcs. | 250 mm | P320 | Clamping Ring/Adhesive Foil |
| 92001586 | 100 Pcs. | 250 mm | P400 | Clamping Ring/Adhesive Foil |
| 92001587 | 100 Pcs. | 250 mm | P500 | Clamping Ring/Adhesive Foil |
| 92001588 | 100 Pcs. | 250 mm | P600 | Clamping Ring/Adhesive Foil |
| 92001589 | 100 Pcs. | 250 mm | P800 | Clamping Ring/Adhesive Foil |
| 92001590 | 100 Pcs. | 250 mm | P1000 | Clamping Ring/Adhesive Foil |
| 92001591 | 100 Pcs. | 250 mm | P1200 | Clamping Ring/Adhesive Foil |
| 92002636 | 100 Pcs. | 250 mm | 2400* | Clamping Ring/Adhesive Foil |
| 92004559 | 100 Pcs. | 250 mm | P2500 | Clamping Ring/Adhesive Foil |
| 92001592 | 100 Pcs. | 250 mm | 4000* | Clamping Ring/Adhesive Foil |
| 92001593 | 100 Pcs. | 300 mm | P60 | Clamping Ring/Adhesive Foil |
| 92001594 | 100 Pcs. | 300 mm | P80 | Clamping Ring/Adhesive Foil |
| 92001595 | 100 Pcs. | 300 mm | P120 | Clamping Ring/Adhesive Foil |
| 92001596 | 100 Pcs. | 300 mm | P180 | Clamping Ring/Adhesive Foil |
| 92001597 | 100 Pcs. | 300 mm | P240 | Clamping Ring/Adhesive Foil |
| 92001598 | 100 Pcs. | 300 mm | P320 | Clamping Ring/Adhesive Foil |
| 92001599 | 100 Pcs. | 300 mm | P400 | Clamping Ring/Adhesive Foil |
| 92001600 | 100 Pcs. | 300 mm | P500 | Clamping Ring/Adhesive Foil |
| 92001601 | 100 Pcs. | 300 mm | P600 | Clamping Ring/Adhesive Foil |
| 92001602 | 100 Pcs. | 300 mm | P800 | Clamping Ring/Adhesive Foil |
| 92001603 | 100 Pcs. | 300 mm | P1000 | Clamping Ring/Adhesive Foil |
| 92001604 | 100 Pcs. | 300 mm | P1200 | Clamping Ring/Adhesive Foil |
| 92002637 | 100 Pcs. | 300 mm | 2400* | Clamping Ring/Adhesive Foil |
| 92004560 | 100 Pcs. | 300 mm | P2500 | Clamping Ring/Adhesive Foil |
| 92002154 | 100 Pcs. | 300 mm | 4000* | Clamping Ring/Adhesive Foil |

*slurry coated, for a finer surface finish

| | | **Double-sided adhesive foils** |
|---|---|---|
| | | **Ø** |
| | | **» for grinding papers** |
| 92002522 | 5 Pcs. | 200 mm |
| 92002524 | 5 Pcs. | 250 mm |
| 92002525 | 5 Pcs. | 300 mm |

| Item No. | Unit | Description | |
|---|---|---|---|
| | | **Grinding papers for mobile grinder and polisher** | |
| | | **Ø** | **Grain FEPA-Standard** |
| | | **Corundum grinding papers with hook-and-loop fastener backing** | |
| 92004285 | 100 Pcs. | 30 mm | P60 |
| 92004286 | 100 Pcs. | 30 mm | P180 |
| 92004288 | 100 Pcs. | 30 mm | P240 |
| 92004287 | 100 Pcs. | 30 mm | P320 |
| | | **Silicon grinding papers with adhesive backing** | |
| 92004498 | 100 Pcs. | 30 mm | P400 |
| 92004499 | 100 Pcs. | 30 mm | P600 |
| 92004631 | 100 Pcs. | 30 mm | P1000 |
| | | **» all polishing cloths also available with Ø 30 mm** | |

| Item No. | Unit | Silicon carbide grinding belts | |
|---|---|---|---|
| | | **Dimensions** | **Grain FEPA-standard** |
| | | **Corundum grinding belts, water resistant** | |
| 92002528 | 5 Pcs. | 100 x 920 mm | P80 |
| 92002529 | 5 Pcs. | 100 x 920 mm | P120 |
| 92002530 | 5 Pcs. | 100 x 920 mm | P180 |
| 92002531 | 5 Pcs. | 100 x 920 mm | P240 |
| 92004505 | 5 Pcs. | 100 x 920 mm | P320 |
| 92002953 | 5 Pcs. | 100 x 915 mm | P80 |
| 92002954 | 5 Pcs. | 100 x 915 mm | P120 |
| | | **Silcon carbide grinding belts, water-resistant** | |
| 92002664 | 5 Pcs. | 100 x 915 mm | P80 |
| 92002665 | 5 Pcs. | 100 x 915 mm | P120 |
| 92002666 | 5 Pcs. | 100 x 915 mm | P180 |
| 92002667 | 5 Pcs. | 100 x 915 mm | P240 |
| 92004613 | 5 Pcs. | 100 x 915 mm | P320 |
| 92002394 | 5 Pcs. | 100 x 915 mm | P400 |

| Item No. | Unit | Description | |
|---|---|---|---|
| | | **Dia-COMPLETE Poly, All-In-One diamond suspension, water-based** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **Combined product of diamond suspension and lubricant**<br>**» water-based (ecologically friendly)**<br>**» closely tolerated grain size**<br>**» very high stock removal rate and repeatable results** | |
| 95016022 | 250 ml | 0.25 | polycrystalline |
| 95011833 | 500 ml | 0.25 | polycrystalline |
| 95011839 | 1 l | 0.25 | polycrystalline |
| 95011845 | 2,5 l | 0.25 | polycrystalline |
| 95016023 | 5 l | 0.25 | polycrystalline |
| 95016024 | 10 l | 0.25 | polycrystalline |
| 95015208 | 250 ml | 1 | polycrystalline |
| 95011834 | 500 ml | 1 | polycrystalline |
| 95011840 | 1 l | 1 | polycrystalline |
| 95011846 | 2,5 l | 1 | polycrystalline |
| 95015394 | 5 l | 1 | polycrystalline |
| 95015399 | 10 l | 1 | polycrystalline |
| 95015209 | 250 ml | 3 | polycrystalline |
| 95011835 | 500 ml | 3 | polycrystalline |
| 95011841 | 1 l | 3 | polycrystalline |
| 95011847 | 2,5 l | 3 | polycrystalline |
| 95015395 | 5 l | 3 | polycrystalline |
| 95015400 | 10 l | 3 | polycrystalline |
| 95015210 | 250 ml | 6 | polycrystalline |
| 95011836 | 500 ml | 6 | polycrystalline |
| 95011842 | 1 l | 6 | polycrystalline |
| 95011848 | 2,5 l | 6 | polycrystalline |
| 95015396 | 5 l | 6 | polycrystalline |
| 95015401 | 10 l | 6 | polycrystalline |
| 95015211 | 250 ml | 9 | polycrystalline |
| 95011837 | 500 ml | 9 | polycrystalline |
| 95011843 | 1 l | 9 | polycrystalline |
| 95011849 | 2,5 l | 9 | polycrystalline |
| 95015397 | 5 l | 9 | polycrystalline |
| 95015402 | 10 l | 9 | polycrystalline |
| 95015212 | 250 ml | 15 | polycrystalline |
| 95011838 | 500 ml | 15 | polycrystalline |
| 95011844 | 1 l | 15 | polycrystalline |
| 95011850 | 2,5 l | 15 | polycrystalline |
| 95015398 | 5 l | 15 | polycrystalline |
| 95015403 | 10 l | 15 | polycrystalline |

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Dia-COMPLETE Poly+, All-In-One premium diamond suspension, water-based** | | |
| | | **Grain Size (µm)** | **Grain Type** | |
| | | **Combined product of diamond suspension and lubricant**<br>**» water-based (ecologically friendly)**<br>**» closely tolerated grain size**<br>**» very high diamond concentration**<br>**» very high stock removal rate and repeatable results**<br>**» low viscosity and good surface wettability**<br>**» reduced foam formation** | | |
| 95015302 | 250 ml | 0.1 | polycrystalline | very high diamond concentration |
| 95015303 | 500 ml | 0.1 | polycrystalline | very high diamond concentration |
| 95015304 | 1 l | 0.1 | polycrystalline | very high diamond concentration |
| 95015305 | 2,5 l | 0.1 | polycrystalline | very high diamond concentration |
| 95015306 | 5 l | 0.1 | polycrystalline | very high diamond concentration |
| 95015307 | 10 l | 0.1 | polycrystalline | very high diamond concentration |
| 95015308 | 250 ml | 0.25 | polycrystalline | very high diamond concentration |
| 95015309 | 500 ml | 0.25 | polycrystalline | very high diamond concentration |
| 95015310 | 1 l | 0.25 | polycrystalline | very high diamond concentration |
| 95015311 | 2,5 l | 0.25 | polycrystalline | very high diamond concentration |
| 95015312 | 5 l | 0.25 | polycrystalline | very high diamond concentration |
| 95015313 | 10 l | 0.25 | polycrystalline | very high diamond concentration |
| 95015314 | 250 ml | 1 | polycrystalline | very high diamond concentration |
| 95015315 | 500 ml | 1 | polycrystalline | very high diamond concentration |
| 95015316 | 1 l | 1 | polycrystalline | very high diamond concentration |
| 95015317 | 2,5 l | 1 | polycrystalline | very high diamond concentration |
| 95015318 | 5 l | 1 | polycrystalline | very high diamond concentration |
| 95015319 | 10 l | 1 | polycrystalline | very high diamond concentration |
| 95015320 | 250 ml | 3 | polycrystalline | very high diamond concentration |
| 95015321 | 500 ml | 3 | polycrystalline | very high diamond concentration |
| 95015322 | 1 l | 3 | polycrystalline | very high diamond concentration |
| 95015323 | 2,5 l | 3 | polycrystalline | very high diamond concentration |
| 95015324 | 5 l | 3 | polycrystalline | very high diamond concentration |
| 95015325 | 10 l | 3 | polycrystalline | very high diamond concentration |
| 95015326 | 250 ml | 6 | polycrystalline | very high diamond concentration |
| 95015327 | 500 ml | 6 | polycrystalline | very high diamond concentration |
| 95015328 | 1 l | 6 | polycrystalline | very high diamond concentration |
| 95015329 | 2,5 l | 6 | polycrystalline | very high diamond concentration |
| 95015330 | 5 l | 6 | polycrystalline | very high diamond concentration |
| 95015331 | 10 l | 6 | polycrystalline | very high diamond concentration |
| 95015332 | 250 ml | 9 | polycrystalline | very high diamond concentration |
| 95015333 | 500 ml | 9 | polycrystalline | very high diamond concentration |
| 95015334 | 1 l | 9 | polycrystalline | very high diamond concentration |
| 95015335 | 2,5 l | 9 | polycrystalline | very high diamond concentration |
| 95015336 | 5 l | 9 | polycrystalline | very high diamond concentration |
| 95015337 | 10 l | 9 | polycrystalline | very high diamond concentration |
| 95015338 | 250 ml | 15 | polycrystalline | very high diamond concentration |
| 95015339 | 500 ml | 15 | polycrystalline | very high diamond concentration |
| 95015340 | 1 l | 15 | polycrystalline | very high diamond concentration |
| 95015341 | 2,5 l | 15 | polycrystalline | very high diamond concentration |
| 95015342 | 5 l | 15 | polycrystalline | very high diamond concentration |
| 95015343 | 10 l | 15 | polycrystalline | very high diamond concentration |

| Item No. | Unit | Description | |
|---|---|---|---|
| | | **Dia-COMPLETE Mono, All-In-One diamond suspension, water-based** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **Combined product of diamond suspension and lubricant**<br>**» water-based (ecologically friendly)**<br>**» closely tolerated grain size**<br>**» very high stock removal rate and repeatable results** | |
| 95015213 | 250 ml | 1 | monocrystalline |
| 95011815 | 500 ml | 1 | monocrystalline |
| 95011820 | 1 l | 1 | monocrystalline |
| 95011825 | 2,5 l | 1 | monocrystalline |
| 95015404 | 5 l | 1 | monocrystalline |
| 95015409 | 10 l | 1 | monocrystalline |
| 95015214 | 250 ml | 3 | monocrystalline |
| 95011816 | 500 ml | 3 | monocrystalline |
| 95011821 | 1 l | 3 | monocrystalline |
| 95011826 | 2,5 l | 3 | monocrystalline |
| 95015405 | 5 l | 3 | monocrystalline |
| 95015410 | 10 l | 3 | monocrystalline |
| 95015215 | 250 ml | 6 | monocrystalline |
| 95011817 | 500 ml | 6 | monocrystalline |
| 95011822 | 1 l | 6 | monocrystalline |
| 95011827 | 2,5 l | 6 | monocrystalline |
| 95015406 | 5 l | 6 | monocrystalline |
| 95015411 | 10 l | 6 | monocrystalline |
| 95015216 | 250 ml | 9 | monocrystalline |
| 95011818 | 500 ml | 9 | monocrystalline |
| 95011823 | 1 l | 9 | monocrystalline |
| 95011828 | 2,5 l | 9 | monocrystalline |
| 95015407 | 5 l | 9 | monocrystalline |
| 95015412 | 10 l | 9 | monocrystalline |
| 95015217 | 250 ml | 15 | monocrystalline |
| 95011819 | 500 ml | 15 | monocrystalline |
| 95011824 | 1 l | 15 | monocrystalline |
| 95011829 | 2,5 l | 15 | monocrystalline |
| 95015408 | 5 l | 15 | monocrystalline |
| 95015413 | 10 l | 15 | monocrystalline |
| | | **» Download of Safety Data Sheets at www.qatm.com** | |

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Dia-COMPLETE Mono+, All-In-One premium diamond suspension, water-based** | | |
| | | **Grain Size (µm)** | **Grain Type** | |
| | | **Combined product of diamond suspension and lubricant**<br>**» water-based (ecologically friendly)**<br>**» closely tolerated grain size**<br>**» very high diamond concentration**<br>**» very high stock removal rate and repeatable results**<br>**» low viscosity and good surface wettability**<br>**» reduced foam formation** | | |
| 95015344 | 250 ml | 0.1 | monocrystalline | very high diamond concentration |
| 95015345 | 500 ml | 0.1 | monocrystalline | very high diamond concentration |
| 95015346 | 1 l | 0.1 | monocrystalline | very high diamond concentration |
| 95015347 | 2,5 l | 0.1 | monocrystalline | very high diamond concentration |
| 95015348 | 5 l | 0.1 | monocrystalline | very high diamond concentration |
| 95015349 | 10 l | 0.1 | monocrystalline | very high diamond concentration |
| 95015350 | 250 ml | 0.25 | monocrystalline | very high diamond concentration |
| 95015351 | 500 ml | 0.25 | monocrystalline | very high diamond concentration |
| 95015352 | 1 l | 0.25 | monocrystalline | very high diamond concentration |
| 95015353 | 2,5 l | 0.25 | monocrystalline | very high diamond concentration |
| 95015354 | 5 l | 0.25 | monocrystalline | very high diamond concentration |
| 95015355 | 10 l | 0.25 | monocrystalline | very high diamond concentration |
| 95015356 | 250 ml | 1 | monocrystalline | very high diamond concentration |
| 95015357 | 500 ml | 1 | monocrystalline | very high diamond concentration |
| 95015358 | 1 l | 1 | monocrystalline | very high diamond concentration |
| 95015359 | 2,5 l | 1 | monocrystalline | very high diamond concentration |
| 95015360 | 5 l | 1 | monocrystalline | very high diamond concentration |
| 95015361 | 10 l | 1 | monocrystalline | very high diamond concentration |
| 95015362 | 250 ml | 3 | monocrystalline | very high diamond concentration |
| 95015363 | 500 ml | 3 | monocrystalline | very high diamond concentration |
| 95015364 | 1 l | 3 | monocrystalline | very high diamond concentration |
| 95015365 | 2,5 l | 3 | monocrystalline | very high diamond concentration |
| 95015366 | 5 l | 3 | monocrystalline | very high diamond concentration |
| 95015367 | 10 l | 3 | monocrystalline | very high diamond concentration |
| 95015368 | 250 ml | 6 | monocrystalline | very high diamond concentration |
| 95015369 | 500 ml | 6 | monocrystalline | very high diamond concentration |
| 95015370 | 1 l | 6 | monocrystalline | very high diamond concentration |
| 95015371 | 2,5 l | 6 | monocrystalline | very high diamond concentration |
| 95015372 | 5 l | 6 | monocrystalline | very high diamond concentration |
| 95015373 | 10 l | 6 | monocrystalline | very high diamond concentration |
| 95015374 | 250 ml | 9 | monocrystalline | very high diamond concentration |
| 95015375 | 500 ml | 9 | monocrystalline | very high diamond concentration |
| 95015376 | 1 l | 9 | monocrystalline | very high diamond concentration |
| 95015377 | 2,5 l | 9 | monocrystalline | very high diamond concentration |
| 95015378 | 5 l | 9 | monocrystalline | very high diamond concentration |
| 95015379 | 10 l | 9 | monocrystalline | very high diamond concentration |
| 95015380 | 250 ml | 15 | monocrystalline | very high diamond concentration |
| 95015381 | 500 ml | 15 | monocrystalline | very high diamond concentration |
| 95015382 | 1 l | 15 | monocrystalline | very high diamond concentration |
| 95015383 | 2,5 l | 15 | monocrystalline | very high diamond concentration |
| 95015384 | 5 l | 15 | monocrystalline | very high diamond concentration |
| 95015385 | 10 l | 15 | monocrystalline | very high diamond concentration |

| Item No. | Unit | Description | |
|---|---|---|---|
| | | **Diamond suspension polycrystalline** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **» water-based (ecologically friendly)**<br>**» closely tolerated grain size**<br>**» very high stock removal** | |
| 92002353 | 250 ml | 1 | polycrystalline |
| 95016017 | 500 ml | 1 | polycrystalline |
| 92004798 | 1 l | 1 | polycrystalline |
| 95002761 | 2,5 l | 1 | polycrystalline |
| 95014519 | 5 l | 1 | polycrystalline |
| 95015196 | 10 l | 1 | polycrystalline |
| 92002354 | 250 ml | 3 | polycrystalline |
| 95016018 | 500 ml | 3 | polycrystalline |
| 92004799 | 1 l | 3 | polycrystalline |
| 95002762 | 2,5 l | 3 | polycrystalline |
| 95014520 | 5 l | 3 | polycrystalline |
| 95015199 | 10 l | 3 | polycrystalline |
| 92002355 | 250 ml | 6 | polycrystalline |
| 95016019 | 500 ml | 6 | polycrystalline |
| 92004800 | 1 l | 6 | polycrystalline |
| 95002763 | 2,5 l | 6 | polycrystalline |
| 95014521 | 5 l | 6 | polycrystalline |
| 95015200 | 10 l | 6 | polycrystalline |
| 92002356 | 250 ml | 9 | polycrystalline |
| 95016020 | 500 ml | 9 | polycrystalline |
| 92004801 | 1 l | 9 | polycrystalline |
| 95002764 | 2,5 l | 9 | polycrystalline |
| 95014522 | 5 l | 9 | polycrystalline |
| 95015201 | 10 l | 9 | polycrystalline |
| 92002357 | 250 ml | 15 | polycrystalline |
| 95016021 | 500 ml | 15 | polycrystalline |
| 95005738 | 1 l | 15 | polycrystalline |
| 95002765 | 2,5 l | 15 | polycrystalline |
| 95014523 | 5 l | 15 | polycrystalline |
| 95015202 | 10 l | 15 | polycrystalline |
| | | **» Download of Safety Data Sheets at www.qatm.com** | |

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Premium diamond suspension polycrystalline+** | | |
| | | **Grain Size (µm)** | **Grain Type** | |
| | | **» water-based (ecologically friendly)**<br>**» closely tolerated grain size**<br>**» very high diamond concentration**<br>**» very high stock removal**<br>**» low viscosity and good surface wettability**<br>**» reduced foam formation** | | |
| 95015218 | 250 ml | 0.1 | polycrystalline | very high diamond concentration |
| 95015219 | 500 ml | 0.1 | polycrystalline | very high diamond concentration |
| 95015220 | 1 l | 0.1 | polycrystalline | very high diamond concentration |
| 95015221 | 2,5 l | 0.1 | polycrystalline | very high diamond concentration |
| 95015222 | 5 l | 0.1 | polycrystalline | very high diamond concentration |
| 95015223 | 10 l | 0.1 | polycrystalline | very high diamond concentration |
| 95015224 | 250 ml | 0.25 | polycrystalline | very high diamond concentration |
| 95015225 | 500 ml | 0.25 | polycrystalline | very high diamond concentration |
| 95015226 | 1 l | 0.25 | polycrystalline | very high diamond concentration |
| 95015227 | 2,5 l | 0.25 | polycrystalline | very high diamond concentration |
| 95015228 | 5 l | 0.25 | polycrystalline | very high diamond concentration |
| 95015229 | 10 l | 0.25 | polycrystalline | very high diamond concentration |
| 95015230 | 250 ml | 1 | polycrystalline | very high diamond concentration |
| 95015231 | 500 ml | 1 | polycrystalline | very high diamond concentration |
| 95015232 | 1 l | 1 | polycrystalline | very high diamond concentration |
| 95015233 | 2,5 l | 1 | polycrystalline | very high diamond concentration |
| 95015234 | 5 l | 1 | polycrystalline | very high diamond concentration |
| 95015235 | 10 l | 1 | polycrystalline | very high diamond concentration |
| 95015236 | 250 ml | 3 | polycrystalline | very high diamond concentration |
| 95015237 | 500 ml | 3 | polycrystalline | very high diamond concentration |
| 95015238 | 1 l | 3 | polycrystalline | very high diamond concentration |
| 95015239 | 2,5 l | 3 | polycrystalline | very high diamond concentration |
| 95015240 | 5 l | 3 | polycrystalline | very high diamond concentration |
| 95015241 | 10 l | 3 | polycrystalline | very high diamond concentration |
| 95015242 | 250 ml | 6 | polycrystalline | very high diamond concentration |
| 95015243 | 500 ml | 6 | polycrystalline | very high diamond concentration |
| 95015244 | 1 l | 6 | polycrystalline | very high diamond concentration |
| 95015245 | 2,5 l | 6 | polycrystalline | very high diamond concentration |
| 95015246 | 5 l | 6 | polycrystalline | very high diamond concentration |
| 95015247 | 10 l | 6 | polycrystalline | very high diamond concentration |
| 95015248 | 250 ml | 9 | polycrystalline | very high diamond concentration |
| 95015249 | 500 ml | 9 | polycrystalline | very high diamond concentration |
| 95015250 | 1 l | 9 | polycrystalline | very high diamond concentration |
| 95015251 | 2,5 l | 9 | polycrystalline | very high diamond concentration |
| 95015252 | 5 l | 9 | polycrystalline | very high diamond concentration |
| 95015253 | 10 l | 9 | polycrystalline | very high diamond concentration |
| 95015254 | 250 ml | 15 | polycrystalline | very high diamond concentration |
| 95015255 | 500 ml | 15 | polycrystalline | very high diamond concentration |
| 95015256 | 1 l | 15 | polycrystalline | very high diamond concentration |
| 95015257 | 2,5 l | 15 | polycrystalline | very high diamond concentration |
| 95015258 | 5 l | 15 | polycrystalline | very high diamond concentration |
| 95015259 | 10 l | 15 | polycrystalline | very high diamond concentration |

| Item No. | Unit | Description | |
|---|---|---|---|
| | | **Diamond suspension monocrystalline** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **» water-based (ecologically friendly)**<br>**» closely tolerated grain size**<br>**» very high stock removal rate** | |
| 92002346 | 250 ml | 1 | monocrystalline |
| 95016012 | 500 ml | 1 | monocrystalline |
| 92004791 | 1 l | 1 | monocrystalline |
| 95002755 | 2,5 l | 1 | monocrystalline |
| 95014514 | 5 l | 1 | monocrystalline |
| 95015203 | 10 l | 1 | monocrystalline |
| 92002347 | 250 ml | 3 | monocrystalline |
| 95016013 | 500 ml | 3 | monocrystalline |
| 92004792 | 1 l | 3 | monocrystalline |
| 95002756 | 2,5 l | 3 | monocrystalline |
| 95014515 | 5 l | 3 | monocrystalline |
| 95015204 | 10 l | 3 | monocrystalline |
| 92002348 | 250 ml | 6 | monocrystalline |
| 95016014 | 500 ml | 6 | monocrystalline |
| 92004793 | 1 l | 6 | monocrystalline |
| 95002757 | 2,5 l | 6 | monocrystalline |
| 95014516 | 5 l | 6 | monocrystalline |
| 95015205 | 10 l | 6 | monocrystalline |
| 92002349 | 250 ml | 9 | monocrystalline |
| 95016015 | 500 ml | 9 | monocrystalline |
| 92004794 | 1 l | 9 | monocrystalline |
| 95002758 | 2,5 l | 9 | monocrystalline |
| 95014517 | 5 l | 9 | monocrystalline |
| 95015206 | 10 l | 9 | monocrystalline |
| 92002350 | 250 ml | 15 | monocrystalline |
| 95016016 | 500 ml | 15 | monocrystalline |
| 92004795 | 1 l | 15 | monocrystalline |
| 95002759 | 2,5 l | 15 | monocrystalline |
| 95014518 | 5 l | 15 | monocrystalline |
| 95015207 | 10 l | 15 | monocrystalline |
| | | **» Download of Safety Data Sheets at www.qatm.com** | |

## Color code diamond suspension monocrystalline

| Grain size µm | Color |
|---|---|
| 1 µm | Blue |
| 3 µm | Green |
| 6 µm | Yellow |
| 9 µm | Red |
| 15 µm | Red brown |

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Premium diamond suspension monocrystalline+** | | |
| | | **Grain Size (µm)** | **Grain Type** | |
| | | **» water-based (ecologically friendly)**<br>**» closely tolerated grain size**<br>**» very high diamond concentration**<br>**» very high stock removal rate**<br>**» low viscosity and good surface wettability**<br>**» reduced foam formation** | | |
| 95015260 | 250 ml | 0.1 | monocrystalline | very high diamond concentration |
| 95015261 | 500 ml | 0.1 | monocrystalline | very high diamond concentration |
| 95015262 | 1 l | 0.1 | monocrystalline | very high diamond concentration |
| 95015263 | 2,5 l | 0.1 | monocrystalline | very high diamond concentration |
| 95015264 | 5 l | 0.1 | monocrystalline | very high diamond concentration |
| 95015265 | 10 l | 0.1 | monocrystalline | very high diamond concentration |
| 95015266 | 250 ml | 0.25 | monocrystalline | very high diamond concentration |
| 95015267 | 500 ml | 0.25 | monocrystalline | very high diamond concentration |
| 95015268 | 1 l | 0.25 | monocrystalline | very high diamond concentration |
| 95015269 | 2,5 l | 0.25 | monocrystalline | very high diamond concentration |
| 95015270 | 5 l | 0.25 | monocrystalline | very high diamond concentration |
| 95015271 | 10 l | 0.25 | monocrystalline | very high diamond concentration |
| 95015272 | 250 ml | 1 | monocrystalline | very high diamond concentration |
| 95015273 | 500 ml | 1 | monocrystalline | very high diamond concentration |
| 95015274 | 1 l | 1 | monocrystalline | very high diamond concentration |
| 95015275 | 2,5 l | 1 | monocrystalline | very high diamond concentration |
| 95015276 | 5 l | 1 | monocrystalline | very high diamond concentration |
| 95015277 | 10 l | 1 | monocrystalline | very high diamond concentration |
| 95015278 | 250 ml | 3 | monocrystalline | very high diamond concentration |
| 95015279 | 500 ml | 3 | monocrystalline | very high diamond concentration |
| 95015280 | 1 l | 3 | monocrystalline | very high diamond concentration |
| 95015281 | 2,5 l | 3 | monocrystalline | very high diamond concentration |
| 95015282 | 5 l | 3 | monocrystalline | very high diamond concentration |
| 95015283 | 10 l | 3 | monocrystalline | very high diamond concentration |

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Premium diamond suspension monocrystalline+** | | |
| | | **Grain Size (µm)** | **Grain Type** | |
| | | **» water-based (ecologically friendly)**<br>**» closely tolerated grain size**<br>**» very high diamond concentration**<br>**» very high stock removal rate**<br>**» low viscosity and good surface wettability**<br>**» reduced foam formation** | | |
| 95015284 | 250 ml | 6 | monocrystalline | very high diamond concentration |
| 95015285 | 500 ml | 6 | monocrystalline | very high diamond concentration |
| 95015286 | 1 l | 6 | monocrystalline | very high diamond concentration |
| 95015287 | 2,5 l | 6 | monocrystalline | very high diamond concentration |
| 95015288 | 5 l | 6 | monocrystalline | very high diamond concentration |
| 95015289 | 10 l | 6 | monocrystalline | very high diamond concentration |
| 95015290 | 250 ml | 9 | monocrystalline | very high diamond concentration |
| 95015291 | 500 ml | 9 | monocrystalline | very high diamond concentration |
| 95015292 | 1 l | 9 | monocrystalline | very high diamond concentration |
| 95015293 | 2,5 l | 9 | monocrystalline | very high diamond concentration |
| 95015294 | 5 l | 9 | monocrystalline | very high diamond concentration |
| 95015295 | 10 l | 9 | monocrystalline | very high diamond concentration |
| 95015296 | 250 ml | 15 | monocrystalline | very high diamond concentration |
| 95015297 | 500 ml | 15 | monocrystalline | very high diamond concentration |
| 95015298 | 1 l | 15 | monocrystalline | very high diamond concentration |
| 95015299 | 2,5 l | 15 | monocrystalline | very high diamond concentration |
| 95015300 | 5 l | 15 | monocrystalline | very high diamond concentration |
| 95015301 | 10 l | 15 | monocrystalline | very high diamond concentration |

| Item No. | Unit | Description | |
|---|---|---|---|
| | | **Diamond suspension (alcohol-based) polycrystalline** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **alcohol-based (ecologically friendly)**<br>**» closely tolerated grain size, high diamond concentration**<br>**» very high stock removal rate** | |
| 95003494 | 1 l | 1 | polycrystalline |
| 95014463 | 5 l | 1 | polycrystalline |
| 95003495 | 1 l | 3 | polycrystalline |
| 95014464 | 5 l | 3 | polycrystalline |
| 95003496 | 1 l | 6 | polycrystalline |
| 95014465 | 5 l | 6 | polycrystalline |
| 95003497 | 1 l | 9 | polycrystalline |
| 95014466 | 5 l | 9 | polycrystalline |
| 95007978 | 1 l | 15 | polycrystalline |
| 95014467 | 5 l | 15 | polycrystalline |
| | | **Diamond suspension (alcohol-based) monocrystalline** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **alcohol-based (ecologically friendly)**<br>**» closely tolerated grain size, high diamond concentration**<br>**» high stock removal rate** | |
| 95003490 | 1 l | 1 | monocrystalline |
| 95014458 | 5 l | 1 | monocrystalline |
| 95003491 | 1 l | 3 | monocrystalline |
| 95014459 | 5 l | 3 | monocrystalline |
| 95003492 | 1 l | 6 | monocrystalline |
| 95014460 | 5 l | 6 | monocrystalline |
| 95003493 | 1 l | 9 | monocrystalline |
| 95014461 | 5 l | 9 | monocrystalline |
| 95007977 | 1 l | 15 | monocrystalline |
| 95014462 | 5 l | 15 | monocrystalline |
| | | **Diamond suspension (oil-based) polycrystalline** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **oil-based**<br>**» closely tolerated grain size, high diamond concentration**<br>**» very high stock removal rate** | |
| 95002792 | 1 l | 1 | polycrystalline |
| 95002793 | 1 l | 3 | polycrystalline |
| 95002794 | 1 l | 6 | polycrystalline |
| 95002795 | 1 l | 9 | polycrystalline |
| 95002976 | 1 l | 15 | polycrystalline |
| | | **Diamond suspension (oil-based) monocrystalline** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **oil-based**<br>**» closely tolerated grain size, high diamond concentration**<br>**» high stock removal rate** | |
| 95002767 | 1 l | 1 | monocrystalline |
| 95002768 | 1 l | 3 | monocrystalline |
| 95002769 | 1 l | 6 | monocrystalline |
| 95002770 | 1 l | 9 | monocrystalline |
| 95002771 | 1 l | 15 | monocrystalline |

| Item No. | Unit | Description | |
|---|---|---|---|
| | | **Diamond spray polycrystalline** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **CFC-free**<br>**» very high diamond concentration**<br>**» closely tolerated grain size**<br>**» very high stock removal rate** | |
| 95016244 | 200 ml | 0.25 | polycrystalline |
| 95016025 | 200 ml | 1 | polycrystalline |
| 95016026 | 200 ml | 3 | polycrystalline |
| 95016027 | 200 ml | 6 | polycrystalline |
| 95016028 | 200 ml | 9 | polycrystalline |
| 95016245 | 200 ml | 15 | polycrystalline |
| | | **Diamond paste polycrystalline** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **Diamond paste, 10 g syringe**<br>**» closely tolerated grain size**<br>**» high diamond concentration**<br>**» very high stock removal rate** | |
| 92002340 | 10 g | 1 | polycrystalline |
| 92002341 | 10 g | 3 | polycrystalline |
| 92002342 | 10 g | 6 | polycrystalline |
| 92002343 | 10 g | 9 | polycrystalline |
| 92002344 | 10 g | 15 | polycrystalline |
| | | **Diamond paste monocrystalline** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **Diamond paste, 10 g syringe**<br>**» closely tolerated grain size**<br>**» high diamond concentration**<br>**» high stock removal rate** | |
| 92002365 | 10 g | 0.25 | monocrystalline |
| 92002333 | 10 g | 1 | monocrystalline |
| 92002316 | 10 g | 3 | monocrystalline |
| 92002335 | 10 g | 6 | monocrystalline |
| 92002336 | 10 g | 9 | monocrystalline |
| 92002337 | 10 g | 15 | monocrystalline |
| | | **Diamond stick monocrystalline** | |
| | | **Grain Size (µm)** | **Grain Type** |
| | | **» Diamond wax**<br>**» to be used with lubricant (water- or alcohol-based)**<br>**» closely tolerated grain size**<br>**» high diamond concentration** | |
| 95015386 | 10 g | 1 | monocrystalline |
| 95015387 | 10 g | 3 | monocrystalline |
| 95015388 | 10 g | 6 | monocrystalline |
| 95015389 | 10 g | 9 | monocristalline |
| 95015390 | 10 g | 15 | monocristalline |
| | | **» Download of Safety Data Sheets at www.qatm.com** | |

| Item No. | Unit | Description |
|---|---|---|
| | | **Diamond lubricant** |
| | | **Color** **Characteristics** |
| | | **additive for diamond suspension/paste** |
| 92005509 | 1 l | Yellow - water-based - ecologically friendly |
| 92004925 | 2,5 l | Yellow - water-based - ecologically friendly |
| 92005510 | 5 l | Yellow - water-based - ecologically friendly |
| 95016174 | 10 l | Yellow - water-based - ecologically friendly |
| 95000901 | 1 l | Blue - alcohol-based - for water-free preparation |
| 95000911 | 2,5 l | Blue - alcohol-based - for water-free preparation |
| 95001194 | 5 l | Blue - alcohol-based - for water-free preparation |
| 95015391 | 1 l | Light blue - alcohol-based - for water-free preparation |
| 95015392 | 5 l | Light blue - alcohol-based - for water-free preparation |
| 95015393 | 10 l | Light blue - alcohol-based - for water-free preparation |
| 95001759 | 1 l | Red - oil-based - for water-free preparation |
| 95001772 | 2,5 l | Red - oil-based - for water-free preparation |
| 95001784 | 5 l | Red - oil-based - for water-free preparation |

NEW

| | | |
|---|---|---|
| | | **Diamond lubrication concentrate** |
| | | **Color** **Characteristics** |
| | | **Additive for diamond suspension/paste** |
| 95016361 | 10 l | Yellow - water-based - for 60 L lubricant, mix with 5 parts of water |
| 95016362 | 1 l | Blue - for alcohol-based lubricant - for 10 L lubricant, mix with 9 parts of ethanol |

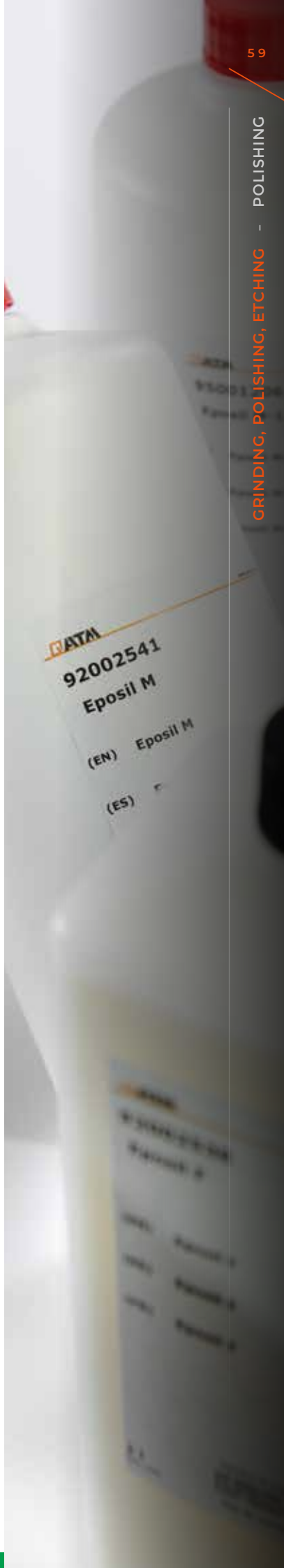
## Information Diamond lubricant

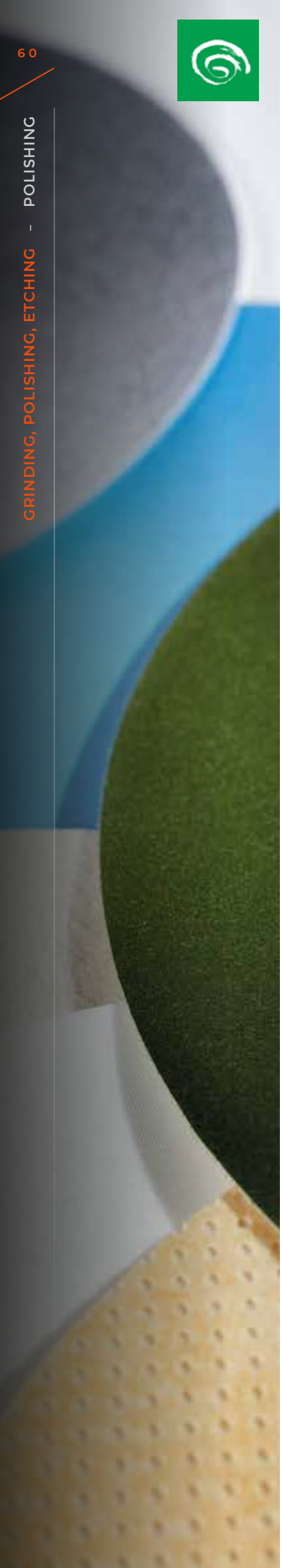
Diamond lubricant can be applied for lubrication and dilution of concentrated diamond suspensions and diamond pastes on a polishing cloth. Additionally, they act as coolant during the polishing process.
When using **Dia-Complete-Suspension** no additional lubricant is needed.

The alcohol-based lubricants **Blue** and **Light Blue** are different in their composition and lubrication properties.

**Lubricant Blue** has a higher viscosity and surface tension. It remains on polishing cloths for a longer time, providing for a long-lasting lubricating effect and lower consumption. High surface qualities can be achieved. **Lubricant Light Blue** has a lower viscosity and surface tension, leading to an optimized wettability of the cloths. Due to the thin lubricating film a higher abrasion rate and therefore shorter polishing times can be achieved. With a high alcohol content, lubricant Light Blue is suited for very corrosion-prone samples. Please note that the lubricant evaporates quickly because of the high alcoholic content.

| Item No. | Unit | Description | | | |
|---|---|---|---|---|---|
| | | **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 | |
| | | **Fine polishing suspensions** | | | |
| | | **Description** | | **Grain Size** | |
| | | **Fine polishing suspension (Al2O3, Sol-Gel suspension)**<br>**» does not crystallize**<br>**» for ferrous materials, polymers, composites, PCB, rocks and minerals** | | | |
| 92002534 | 1 l | Eposal, | pH≈8.0 | 0.06 µm | |
| | | **Colloidal silica**<br>**» for polishing, also mixable with diluted etchant**<br>**» for ferrous and non-ferrous materials, especially 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**<br>**» for titanium, nickel, zinc and its alloys** | | | |
| 95001206 | 1 kg | Eposil M11, | pH≈11 | 0.06 µm | |
| | | **Water-free fine polishing suspension**<br>**» e.g. for magnesium, tin** | | | |
| 95005033 | 1 kg | Etosil E, | pH≈7.0 | 0.06 µm | |
| | | **» Download of Safety Data Sheets at www.qatm.com** | | | |





| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **GALAXY Polishing cloth with metal back** | | |
| | | **Description** | **Ø** | **Fixation** |
| | | **ALPHA – GALAXY Polishing cloth, for magnetic mounting<br>very hard, perforated chemotextile cloth<br>» long lifetime and stock removal<br>» for ceramics, hard metal, steel, cast iron, aluminum, plastic<br>» for pre-polishing<br>» diamond 15/9 µm** | | |
| 95001407 | 5 Pcs. | Alpha | 200 mm | magnetic/adhesive carrier |
| 95001408 | 5 Pcs. | Alpha | 250 mm | magnetic/adhesive carrier |
| 95001409 | 5 Pcs. | Alpha | 300 mm | magnetic/adhesive carrier |
| 95013994 | 5 Pcs. | Alpha | 350 mm | magnetic/adhesive carrier |
| | | **GALAXY Polishing cloth BETA, for magnetic mounting<br>hard synthetic cloth<br>» material with high hardness<br>» steel, cast, iron, hard metal, ceramics<br>» for pre-polishing<br>» diamond 15/9/6 µm** | | |
| 95001410 | 5 Pcs. | Beta | 200 mm | magnetic/adhesive carrier |
| 95001411 | 5 Pcs. | Beta | 250 mm | magnetic/adhesive carrier |
| 95001412 | 5 Pcs. | Beta | 300 mm | magnetic/adhesive carrier |
| 95013995 | 5 Pcs. | Beta | 350 mm | magnetic/adhesive carrier |
| | | **GALAXY Polishing cloth PHI, for magnetic mounting<br>medium hard chemotextile cloth<br>» ferrous and non- ferrous metals, minerals, ceramics, composites<br>» for pre- and final polishing<br>» diamond 9/6/3/1 µm, oxide polishing** | | |
| 95012739 | 5 Pcs. | Phi | 200 mm | magnetic/adhesive carrier |
| 95012740 | 5 Pcs. | Phi | 250 mm | magnetic/adhesive carrier |
| 95012741 | 5 Pcs. | Phi | 300 mm | magnetic/adhesive carrier |
| 95014002 | 5 Pcs. | Phi | 350 mm | magnetic/adhesive carrier |
| | | **GALAXY Polishing cloth DELTA, for magnetic mounting<br>medium hard silk cloth<br>» C-steels, precious metals, coatings, plastics, aluminum<br>» for pre- and intermediate polishing<br>» diamond 9/6/3 µm** | | |
| 95001413 | 5 Pcs. | Delta | 200 mm | magnetic/adhesive carrier |
| 95001414 | 5 Pcs. | Delta | 250 mm | magnetic/adhesive carrier |
| 95001415 | 5 Pcs. | Delta | 300 mm | magnetic/adhesive carrier |
| 95013996 | 5 Pcs. | Delta | 350 mm | magnetic/adhesive carrier |
| | | **GALAXY Polishing cloth SIGMA, for magnetic mounting<br>soft wool cloth<br>» for all materials<br>» for intermediate and final polishing<br>» diamond 9/6/3 µm** | | |
| 95001416 | 5 Pcs. | Sigma | 200 mm | magnetic/adhesive carrier |
| 95001417 | 5 Pcs. | Sigma | 250 mm | magnetic/adhesive carrier |
| 95001418 | 5 Pcs. | Sigma | 300 mm | magnetic/adhesive carrier |
| 95013997 | 5 Pcs. | Sigma | 350 mm | magnetic/adhesive carrier |

| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **GALAXY Polishing cloth with metal back** | | |
| | | **Description** | **Ø** | **Fixation** |
| | | **GALAXY Polishing cloth EPSILON, for magnetic mounting**<br>**» short-napped, soft synthetic cloth**<br>**» for all medium-hard to hard materials**<br>**» for final polishing**<br>**» diamond 3/1 µm** | | |
| 95016240 | 5 Pcs. | Epsilon | 200 mm | magnetic/adhesive carrier |
| 95016241 | 5 Pcs. | Epsilon | 250 mm | magnetic/adhesive carrier |
| 95016242 | 5 Pcs. | Epsilon | 300 mm | magnetic/adhesive carrier |
| 95016243 | 5 Pcs. | Epsilon | 350 mm | magnetic/adhesive carrier |
| | | **GALAXY Polishing cloth IOTA, for magnetic mounting**<br>**short-napped, soft synthetic cloth**<br>**» for all materials, especially hard steels**<br>**» for intermediate and final polishing**<br>**» diamond 3/1 µm** | | |
| 95001419 | 5 Pcs. | Iota | 200 mm | magnetic/adhesive carrier |
| 95001420 | 5 Pcs. | Iota | 250 mm | magnetic/adhesive carrier |
| 95001421 | 5 Pcs. | Iota | 300 mm | magnetic/adhesive carrier |
| 95013998 | 5 Pcs. | Iota | 350 mm | magnetic/adhesive carrier |
| | | **GALAXY Polishing cloth ZETA, for magnetic mounting**<br>**short-napped, soft synthetic cloth**<br>**» for all materials**<br>**» for final polishing**<br>**» Alumina & oxide suspension**<br>**» diamond 3/1 µm** | | |
| 95005776 | 5 Pcs. | Zeta | 200 mm | magnetic/adhesive carrier |
| 95005777 | 5 Pcs. | Zeta | 250 mm | magnetic/adhesive carrier |
| 95005778 | 5 Pcs. | Zeta | 300 mm | magnetic/adhesive carrier |
| 95013999 | 5 Pcs. | Zeta | 350 mm | magnetic/adhesive carrier |
| | | **GALAXY Polishing cloth OMEGA, for magnetic mounting**<br>**soft synthetic cloth (chemically resistant)**<br>**» for all materials**<br>**» for final polishing**<br>**» oxide suspension** | | |
| 95005779 | 5 Pcs. | Omega | 200 mm | magnetic/adhesive carrier |
| 95005780 | 5 Pcs. | Omega | 250 mm | magnetic/adhesive carrier |
| 95005781 | 5 Pcs. | Omega | 300 mm | magnetic/adhesive carrier |
| 95014000 | 5 Pcs. | Omega | 350 mm | magnetic/adhesive carrier |
| | | **GALAXY Polishing cloth LAMBDA, for magnetic mounting**<br>**short-napped, structured synthetic cloth**<br>**» for all materials**<br>**» no suction of large samples**<br>**» for final polishing**<br>**» oxide suspension** | | |
| 95005782 | 5 Pcs. | Lambda | 200 mm | magnetic/adhesive carrier |
| 95005783 | 5 Pcs. | Lambda | 250 mm | magnetic/adhesive carrier |
| 95005784 | 5 Pcs. | Lambda | 300 mm | magnetic/adhesive carrier |
| 95014001 | 5 Pcs. | Lambda | 350 mm | magnetic/adhesive carrier |

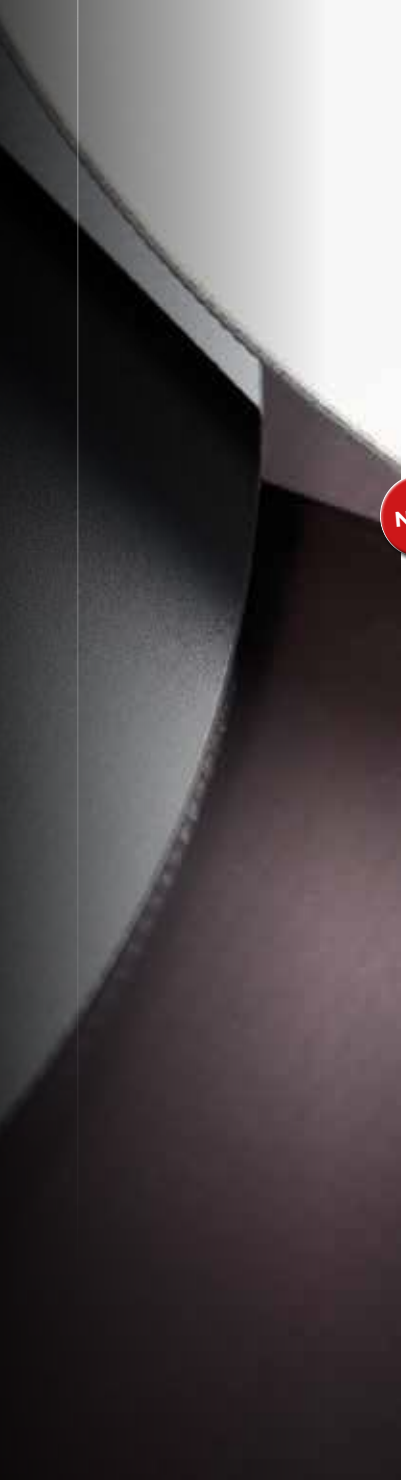
NEW

## Information about GALAXY Polishing cloths

Ready-to-use as polishing cloths are glued onto the metal (stainless steel) carrier. The rigid back ensures optimal edge retention and enhanced reproducibility of the preparation results and prolongs the life time.
The lugs support easy handling when putting the Galaxy discs on or off the magnetic adhesive carrier.

| Item No. | Unit | Description | Ø | Fixation |
|---|---|---|---|---|
| | | **Polishing cloths, self-adhesive** | | |
| | | **Description** | **Ø** | **Fixation** |
| | | **ALPHA – Polishing cloth, self-adhesive**<br>**» very hard, perforated chemotextile cloth**<br>**» long lifetime and stock removal**<br>**» for ceramics, hard metal, steel, cast iron, aluminum, plastic**<br>**» for pre-polishing**<br>**» diamond 15/9 µm** | | |
| 92002555 | 5 Pcs. | Alpha | 200 mm | self-adhesive |
| 92002564 | 5 Pcs. | Alpha | 250 mm | self-adhesive |
| 92002573 | 5 Pcs. | Alpha | 300 mm | self-adhesive |
| 95016029 | 5 Pcs. | Alpha | 350 mm | self-adhesive |
| | | **Polishing cloth BETA**<br>**hard synthetic cloth**<br>**» for material with high hardness**<br>**» for steel, cast, iron, hard metal, ceramics**<br>**» for pre- polishing**<br>**» diamond 15/9/6 µm** | | |
| 95006571 | 5 Pcs. | Beta | 200 mm | self-adhesive |
| 95006572 | 5 Pcs. | Beta | 250 mm | self-adhesive |
| 95006573 | 5 Pcs. | Beta | 300 mm | self-adhesive |
| 95016030 | 5 Pcs. | Beta | 350 mm | self-adhesive |
| | | **Polishing cloth PHI**<br>**medium hard chemotextile cloth**<br>**» ferrous and non- ferrous metals, minerals, ceramics, composites**<br>**» for pre- and final polishing**<br>**» diamond 9/6/3/1 µm, oxide polishing** | | |
| 92005678 | 5 Pcs. | Phi | 200 mm | self-adhesive |
| 92005679 | 5 Pcs. | Phi | 250 mm | self-adhesive |
| 92005680 | 5 Pcs. | Phi | 300 mm | self-adhesive |
| 95016031 | 5 Pcs. | Phi | 350 mm | self-adhesive |
| | | **Polishing cloth GAMMA**<br>**medium hard silk cloth**<br>**» for c-steels, non-ferrous metals, coatings, plastics (GRP, CFC)**<br>**» for pre- and intermediate polishing**<br>**» diamond 9/6/3 µm** | | |
| 92002558 | 5 Pcs. | Gamma | 200 mm | self-adhesive |
| 92002567 | 5 Pcs. | Gamma | 250 mm | self-adhesive |
| 92002576 | 5 Pcs. | Gamma | 300 mm | self-adhesive |
| 95016032 | 5 Pcs. | Gamma | 350 mm | self-adhesive |
| | | **Polishing cloth SIGMA**<br>**soft wool cloth**<br>**» for all materials**<br>**» for pre- and intermediate polishing**<br>**» diamond 9/6/3 µm** | | |
| 92008810 | 5 Pcs. | Sigma | 200 mm | self-adhesive |
| 92008811 | 5 Pcs. | Sigma | 250 mm | self-adhesive |
| 92008812 | 5 Pcs. | Sigma | 300 mm | self-adhesive |
| 95016033 | 5 Pcs. | Sigma | 350 mm | self-adhesive |
| | | **Polishing cloth DELTA**<br>**medium hard silk cloth**<br>**» for C-steels, precious metals, coatings, plastics, aluminum**<br>**» for pre- and intermediate polishing**<br>**» diamond 9/6/3 µm** | | |
| 92008801 | 5 Pcs. | Delta | 200 mm | self-adhesive |
| 92008802 | 5 Pcs. | Delta | 250 mm | self-adhesive |
| 92008803 | 5 Pcs. | Delta | 300 mm | self-adhesive |
| 95016034 | 5 Pcs. | Delta | 350 mm | self-adhesive |

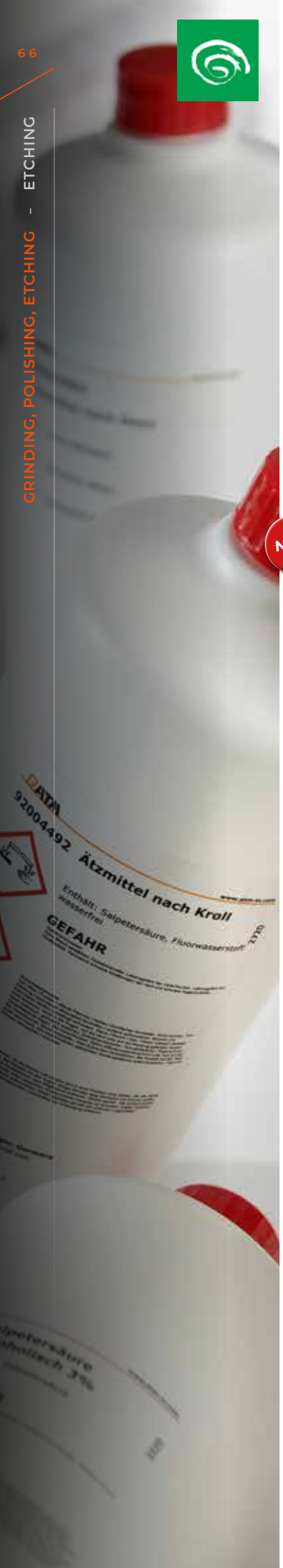
| Item No. | Unit | Description | | |
|---|---|---|---|---|
| | | **Polishing cloths, self-adhesive** | | |
| | | **Description** | **Ø** | **Fixation** |
| | | **Polishing cloth EPSILON**<br>**short-napped, soft synthetic cloth**<br>**» for all materials and very hard materials**<br>**» for final polishing**<br>**» diamond 3/1 µm** | | |
| 92004411 | 5 Pcs. | Epsilon | 200 mm | self-adhesive |
| 92004412 | 5 Pcs. | Epsilon | 250 mm | self-adhesive |
| 92004413 | 5 Pcs. | Epsilon | 300 mm | self-adhesive |
| 95016035 | 5 Pcs. | Epsilon | 350 mm | self-adhesive |
| | | **Polishing cloth IOTA**<br>**short-napped, soft synthetic cloth**<br>**» for all materials, especially hard steels**<br>**» for intermediate and final polishing**<br>**» diamond 3/1 µm** | | |
| 95002393 | 5 Pcs. | Iota | 200 mm | self-adhesive |
| 95002394 | 5 Pcs. | Iota | 250 mm | self-adhesive |
| 95002395 | 5 Pcs. | Iota | 300 mm | self-adhesive |
| 95016036 | 5 Pcs. | Iota | 350 mm | self-adhesive |
| | | **Polishing cloth ZETA**<br>**short-napped, soft synthetic cloth**<br>**» for all materials**<br>**» for final polishing**<br>**» for Alumina & oxide suspension**<br>**» diamond 3/1 µm** | | |
| 92005681 | 5 Pcs. | Zeta | 200 mm | self-adhesive |
| 92005683 | 5 Pcs. | Zeta | 250 mm | self-adhesive |
| 92005684 | 5 Pcs. | Zeta | 300 mm | self-adhesive |
| 95016037 | 5 Pcs. | Zeta | 350 mm | self-adhesive |
| | | **Polishing cloth KAPPA**<br>**soft felt cloth**<br>**» for final polishing**<br>**» for Alumina suspension** | | |
| 92002563 | 5 Pcs. | Kappa | 200 mm | self-adhesive |
| 92002572 | 5 Pcs. | Kappa | 250 mm | self-adhesive |
| 92002581 | 5 Pcs. | Kappa | 300 mm | self-adhesive |
| 95016038 | 5 Pcs. | Kappa | 350 mm | self-adhesive |
| | | **Polishing cloth OMEGA**<br>**soft synthetic cloth (chemical resistant)**<br>**» for all materials**<br>**» for final polishing**<br>**» for oxide suspension** | | |
| 92002562 | 5 Pcs. | Omega | 200 mm | self-adhesive |
| 92002571 | 5 Pcs. | Omega | 250 mm | self-adhesive |
| 92002580 | 5 Pcs. | Omega | 300 mm | self-adhesive |
| 95016039 | 5 Pcs. | Omega | 350 mm | self-adhesive |
| | | **Polishing cloth LAMBDA**<br>**short-napped, structured synthetic cloth**<br>**» for all materials**<br>**» no suction of large samples**<br>**» for final polishing**<br>**» oxide suspension** | | |
| 95003597 | 5 Pcs. | Lambda | 200 mm | self-adhesive |
| 95003598 | 5 Pcs. | Lambda | 250 mm | self-adhesive |
| 95003599 | 5 Pcs. | Lambda | 300 mm | self-adhesive |
| 95016040 | 5 Pcs. | Lambda | 350 mm | self-adhesive |
| | | **» all polishing cloths also available for Saphir 300 (Ø 30 mm)** | | |



| Item No. | Unit | Description | |
|---|---|---|---|
| | | **Polishing cloth carrier discs** | |
| | | Ø | |
| | | » for adhere discs | |
| 05610121 | 1 Pcs. | 200 mm | |
| 05610123 | 1 Pcs. | 250 mm | |
| 05610124 | 1 Pcs. | 300 mm | |
| | | » for magnetic system | |
| 05610206 | 1 Pcs. | 200 mm | |
| 05610208 | 1 Pcs. | 250 mm | |
| 05610209 | 1 Pcs. | 300 mm | |
| | | » other diameter on request | |
| | | **Carrier Plate** | |
| | | Ø | |
| | | » for grinding and polishing robot Qpol 250 BOT (SAPHIR X-Change) | |
| 95005867 | 1 Pcs. | 250 mm | |
| | | **Magnetic foil, standard, self-adhesive** | |
| | | Ø | thickness |
| | | » to apply on working wheel | |
| 92008528 | 1 Pcs. | 200 mm | 1 mm |
| 92005820 | 1 Pcs. | 250 mm | 1 mm |
| 92005822 | 1 Pcs. | 300 mm | 1 mm |
| 95014137 | 1 Pcs. | 350 mm | 1 mm |
| | | » other diameter on request | |
| | | **Magnetic foil, strong adhesion, self-adhesive** | |
| | | Ø | thickness |
| | | » to apply on working wheel | |
| 95016345 | 1 Pcs. | 200 mm | 1 mm |
| 95016346 | 1 Pcs. | 250 mm | 1 mm |
| 95012161 | 1 Pcs. | 300 mm | 1 mm |
| 95014137 | 1 Pcs. | 350 mm | 1 mm |
| 95016298 | 1 Pcs. | 200 mm | 2 mm |
| 95016300 | 1 Pcs. | 250 mm | 2 mm |
| 95016301 | 1 Pcs. | 300 mm | 2 mm |
| 95016302 | 1 Pcs. | 350 mm | 2 mm |
| | | » other diameter on request | |

NEW

| Item No. | Unit | Description |
|---|---|---|
| | | **Electrolytes (consisting of two components; total volume 1 litre)** |
| | | **Description** |
| | | **Electrolyte for stainless steel, aluminum, aluminum alloys and special materials**<br>**» for electrolytic etching/polishing** |
| 92002680 | 1 Pcs. | K1 - Part A, equals 1 litre in combination with Part B |
| 92002980 | 1 Pcs. | K1 - Part B (perchloric acid), equals 1 litre in combination with Part A |
| | | **Electrolyte for titanium** |
| 92003011 | 1 Pcs. | T1 - Part A, equals 1 litre in combination with Part B |
| 92003012 | 1 Pcs. | T1 - Part B (perchloric acid), equals 1 litre in combination with Part A |
| | | **Electrolyte for grey iron** |
| 92003014 | 1 Pcs. | F1 - Part A, equals 1 litre in combination with Part B |
| 92003015 | 1 Pcs. | F1 - Part B (perchloric acid), equals 1 litre in combination with Part A |
| | | **» shipping of hazardous materials will be charged extra**<br>**» Download of Safety Data Sheets at www.qatm.com** |
| | | **Accessories for Qetch 100 M (Kristall 650)** |
| | | **Description** |
| | | **Electrolyte-bottle with screw top** |
| 95003955 | 1 Pcs. | Volume 1 litre |
| | | **Accessories set for Kristall 650 Qetch 100 M (Kristall 650) in suitcase** |
| Z6201001 | 1 Pcs. | Suitcase (single-order No.):<br>» 5 pcs V-ring (Order No.: 95003606)<br>» 1 pc profile ring material, appr. 150 mm (Order No.: 06201052)<br>» 1 pc flexible end piece for profile ring (Order No.: 06201051)<br>» 1 pc tube cutter (Order No.: 95004030)<br>» 10 pcs filter pads Ø 40.5 mm (Order No.: 95003985)<br>» 1 pc dolphin clamp (Order No.: 82000374) |




| Item No. | Unit | Description |
|---|---|---|
| | | **Etchants** |
| | | **Description** |
| | | **Ready-to-use etching solutions for microstructural contrasting** |
| 95014346 | 500 ml | VisiPro-I Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched and tempered steels and case-hardened steels) |
| 95014347 | 1 l | VisiPro-I Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched and tempered steels and case-hardened steels) |
| 95014348 | 500 ml | VisiPro-II Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched, tempered case hardening steels and anti-friction bearing steels) |
| 95014349 | 1 l | VisiPro-II Etchant for visualizing the former austenitic grain boundaries (for quenched or tempered low-alloy quenched, tempered case hardening steels and anti-friction bearing steels) |
| 95006393 | 1 l | Barker reagent (for Aluminum grain boundaries) |
| 92002601 | 1 kg | Heyn Etchant (for steel, phoshorous segregations, macro etching, copper alloys, brass) |
| NEW 95000508 | 500 ml | Copper A, chloride version (for Cu, Cu-alloys, brass and bronze) |
| 92002602 | 1 kg | Adler Etchant (for steel, weldings, macro etching) |
| 92002603 | 1 l | Alcoholic picric acid, 5% Picral (for steel, martensite) |
| 92002597 | 1 l | Alcoholic nitric acid, 3% Nital (for unalloyed and low alloyed steels) |
| 92002596 | 1 l | Alcoholic nitric acid, 1% Nital (for unalloyed and low alloyed steels) |
| 92002605 | 1 kg | V2A Etchant (for austenitic steels), application with approx. 60° |
| 92002606 | 250 g | Additive for V2A-etchant |
| 92002678 | 1 kg | Sodium hydroxide solution (for aluminum alloys) |
| 92004240 | 1 kg | Oberhoffer Etchant (for steel, segregations, flow-lines, macro/micro etching) |
| 92004492 | 1 kg | Kroll Etchant (for aluminum alloys, titanium) |
| 92004493 | 1 kg | Fry Etchant (for steel, macro/micro etching, flow lines) |
| 92004222 | 1 kg | CU2 etching fluid (copper, copper with sulfide and oxide inclusions) |
| 92002750 | 1 kg | Sodium picrate (for cementite detection in steel) |
| 95002313 | 1 l | Kalling 1 Etchant (for martensitic stainless steel) |
| 95002347 | 1 kg | Kalling 2 Etchant (for nickel, nickel alloys, stainless steels, nickel-copper alloys) |
| 95002434 | 1 l | Color etching according to Klemm I (for low carbon steels), stock solution |
| 95002390 | 20 g | Potassium bislufite for Klemm I |
| 95002435 | 1 l | Color etching according to Klemm II (copper, solder joints), stock solution |
| 95002391 | 50 g | Potassium bislufite 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) |
| | | **» shipping of hazardous materials will be charged extra**<br>**» Download of Safety Data Sheets at www.qatm.com** |

# Notes

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# ANALYZING, HARDNESS TESTING


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| Item No. | Unit | Description |
|---|---|---|
| | | **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 Pcs. | Specimen press<br>» for parallel fixation of specimen on microscope slide<br>» comfortable operation with minimal effort<br>» compact, robust and durable<br>» made of aluminum with anodised surface |

| Item No. | Unit | Description | |
|---|---|---|---|
| | | **Iron-carbon-diagram** | |
| | | **Description** | |
| | | **Iron-carbon-diagram** | |
| 92008881 | 1 Pcs. | Standard format | 700 x 700 mm |
| 92008882 | 1 Pcs. | Heavy format | 700 x 700 mm |

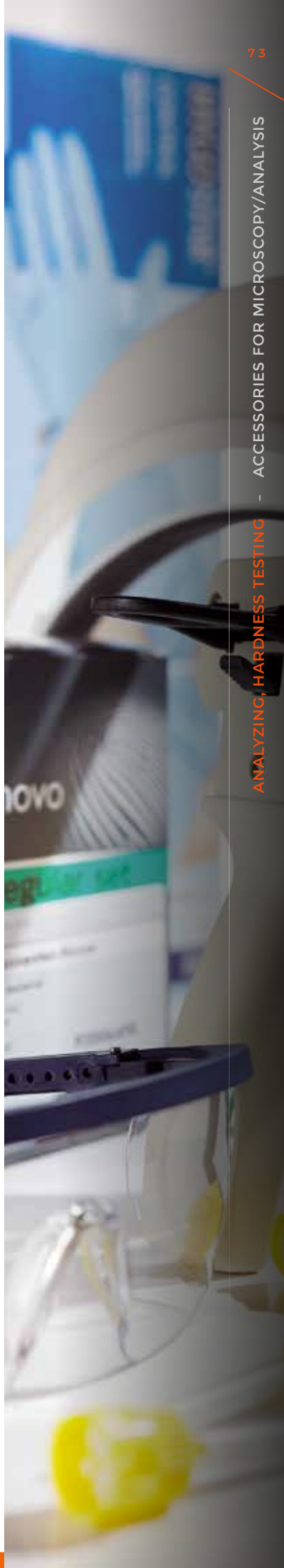
| Item No. | Unit | Description |
|---|---|---|
| | | **Cleaning agents for ultrasonic cleaner** |
| | | **Description** |
| | | **Cleaning concentrate, alkaline**<br>**» for universal use and intensive cleaning**<br>**» use 1 – 5%, pH 10 at 2%, removes oils, fats, silicon oil residues, pigments, ink and proteins** |
| 92002614 | 1 l | Tickopur R 33 |
| | | **Cleaning concentrate with ammonia, mildly alkaline, phosphate free**<br>**» use 5 – 10%, removes oils, fats, waxes, pigments, silicon fats and grime (not suitable for aluminum)** |
| 92002615 | 1 l | Tickopur RW 77 |
| | | **Cleaning aids** |
| | | **Description** |
| 95004662 | 1 l | Ethanol, 99% denatured |
| 95004663 | 5 l | Ethanol, 99% denatured |
| 95004664 | 10 l | Ethanol, 99% denatured |
| 92004510 | 1 l | Aceton, chemically pure |
| | | **Assembly cleaner** |
| | | **Description** |
| | | **» for sample preparation, for replication set, in spray can** |
| 92004376 | 500 ml | Assembly cleaner spray |
| | | **» additional fees can be necessary by shipping of hazardous materials**<br>**» Download of Safety Data Sheets at www.qatm.com** |

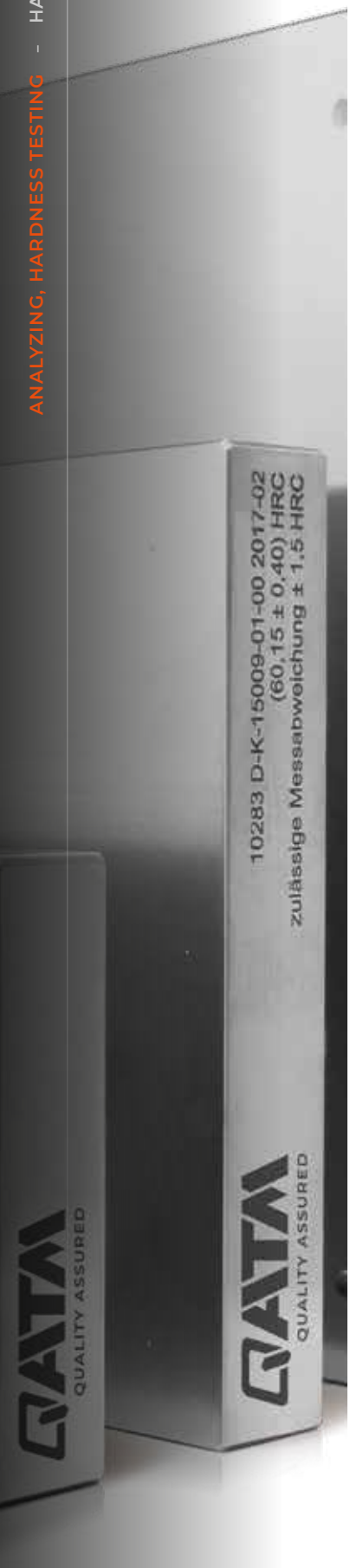
| Item No. | Unit | Description |
|---|---|---|
| | | **Accessories** |
| | | **Description** |
| 92002779 | 100 g | Mounting adhesive 100 g, excellent bonding for metals and ceramics |
| 92002630 | 200 g | Cotton wool |
| 92008773 | 100 Pcs. | Specimen cleaning wipes |
| 92004428 | 300 ml | Sample protection laquer, spray (conservation of samples) |
| 92002629 | 1 Pcs. | Etching bowl, DURAN® glass with cover, heat-resistant, Ø 60/H 40 mm |
| 92002628 | 1 Pcs. | Etching bowl, DURAN® glass with cover, heat-resistant, Ø 80/H 50 mm |
| 92002430 | 1 Pcs. | Etching bowl, DURAN® glass with cover, heat-resistant, Ø 100/H 60 mm |
| 92002626 | 1 Pcs. | Etching bowl, DURAN® glass with cover, heat-resistant, Ø 150/H 80 mm |
| 95012078 | 1 Pcs. | Etching bowl, polyethylene (PE), Ø 90 /H 40 mm |
| 95012079 | 1 Pcs. | Etching bowl, polyethylene (PE), Ø 110/H 55 mm |
| 95012080 | 1 Pcs. | Etching bowl, polyethylene (PE), Ø 110/H 75 mm |
| 95012081 | 1 Pcs. | Etching bowl, polypropylene (PP), Ø 60/H 60 mm |
| 95012082 | 1 Pcs. | Etching bowl, polypropylene (PP), Ø 115/H 70 mm |
| 92008770 | 1 Pcs. | Spray bottle, 250 ml |
| 92002432 | 1 Pcs. | Spray bottle, 500 ml |
| 92004491 | 1 Pcs. | Washing bottle with narrow neck, 500 ml |
| 92004302 | 1 Pcs. | Measuring cylinder, 50 ml |
| 92004303 | 1 Pcs. | Measuring cylinder, 100 ml |
| 92002431 | 1 Pcs. | Crucible Tong, stainless |
| 95008097 | 1 Pcs. | Crucible Tong, stainless with insulated handle |
| 92004265 | 1 Pcs. | Specimen dryer, wall fastening model, with proximity sensor |
| A5810355 | 1 Pcs. | Specimen drying unit for set up on table |

Desiccator cabinet (95012025)

| | | |
|---|---|---|
| | | **Storage of samples** |
| | | **Description** |
| | | **Storage systems for readily prepared samples** |
| 92002898 | 1 Pcs. | Disc cabinet 320 x 320 mm, for discs Ø 300 mm with 6 drawers |
| 92002717 | 1 Pcs. | Disc cabinet, 290 x 290 mm, for discs Ø 200 and 250 mm with 5 drawers |
| 95012025 | 1 Pcs. | Desiccator cabinet 310 x 525 x 375mm |
| 95012026 | 1 Pcs. | Shelf for desiccator cabinet |
| 92002684 | 1 Pcs. | Desiccator, DM 250, with cover and basket, DURAN® clear glass |
| 95002659 | 1 Pcs. | Desiccator, DM 150, with cover and basket, DURAN® clear glass |
| 92002868 | 1 kg | KC-drying pearls, for use with desiccator |
| A7500417 | 1 Pcs. | Sample box, 320 x 320 x 58 mm for 56 Samples Ø 25-32 mm |
| A7500418 | 1 Pcs. | Sample box, 320 x 320 x 58 mm for 25 Samples Ø 38-50 mm |

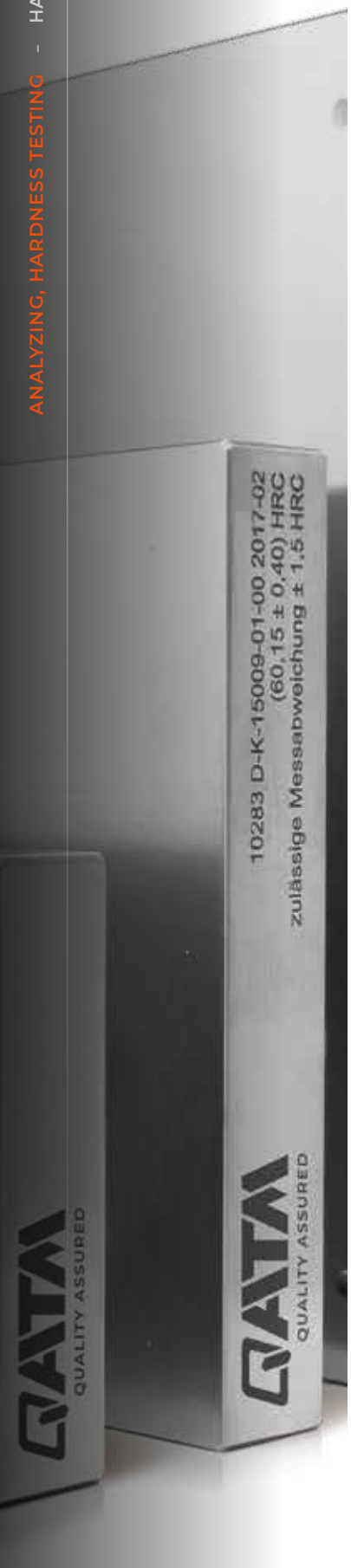
| Item No. | Unit | Description |
|---|---|---|
| | | **Safety equipment for etching** |
| | | **Description** |
| | | **Face protection shield according to DIN EN 166 1 3 - S<br>complete protection of face, unlimited field of view, acids and bases<br>» resistant, robust plastic material, shatterproof, scratch-resistant** |
| 95002951 | 1 Pcs. | Face protection shield |
| | | **Protective laboratory apron<br>» made of PVC, with neck and side bonds, clean edges, without fabrics** |
| 95004848 | 1 Pcs. | 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 |
| | | **Safety goggles conforms to EN 166, length-adjustable** |
| 92005963 | 1 Pcs. | Safety goggles conforms to EN 166 |
| | | **Pane cleaning for fume cupboard** |
| | | **Description** |
| | | **Pane cleaning set in suitcase** |
| Z7510002 | 1 Pcs. | » Pane wiper magnet<br>» 2x 30 pcs. cleaning cloths |
| 95006797 | 1 Pcs. | Pane wiper magnet |
| 95006798 | 30 Pcs. | Cleaning cloths for glass |
| | | **Replication set** |
| | | **Description** |
| | | **Replica system for non-destructive analyzing of microstructures<br>quick cured 2 components compound for applying to surfaces;<br>the cured replica can be removed easily and analysed directly** |
| 92006498 | 2x50 ml | 2-components-compound |
| 92006609 | 1 Pcs. | Dosing gun |
| 92008692 | 48 Pcs. | Mixing tube |
| | | **Precision replication material** |
| | | **Description** |
| | | **Replica system for surface structures (metallic or mineral),<br>for surface roughness inspection (R, Ra)** |
| 95001664 | 900 ml | 2-components-compound standard |
| 95001665 | 900 ml | 2-components-compound soft |





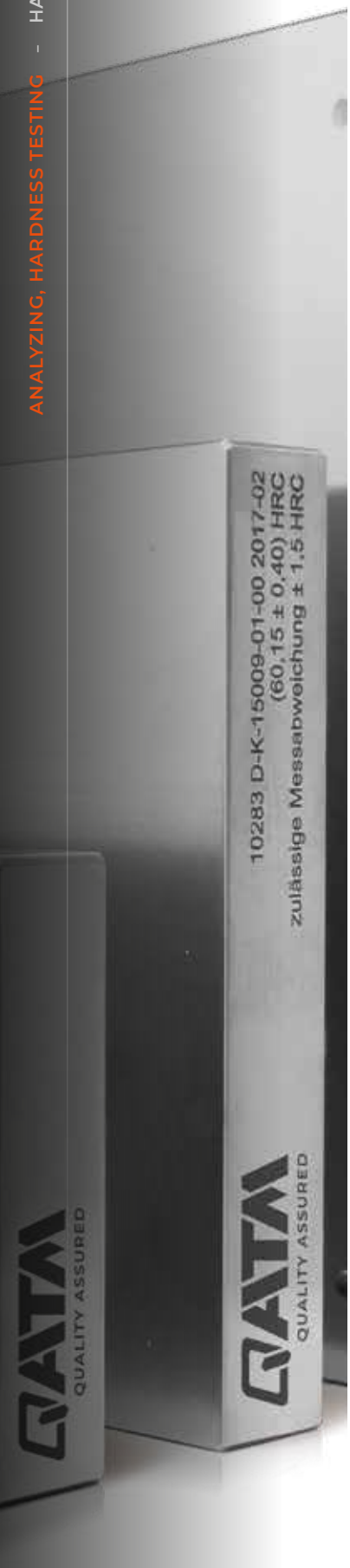

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Brinell hardness test block (DIN EN ISO 6506-3, ASTM E10)** | | | | |
| | | | **HBW** | **Material** | **HW** | **Dimensions (mm)** |
| | | **HBW 10 / 500** | | | | |
| HB1005080A | 1 Pcs. | Brinell | HBW 10/500 | Aluminum | HW approx. 80 | 150x100x16 |
| | | **HBW 10 / 1000** | | | | |
| HB1010080A | 1 Pcs. | Brinell | HBW 10/1000 | Aluminum | HW approx. 80 | 150x100x16 |
| HB1010110A | 1 Pcs. | Brinell | HBW 10/1000 | Aluminum | HW approx. 110 | 150x100x16 |
| HB1010130A | 1 Pcs. | Brinell | HBW 10/1000 | Aluminum | HW approx. 130 | 150x100x16 |
| HB1010170A | 1 Pcs. | Brinell | HBW 10/1000 | Aluminum | HW approx. 170 | 150x100x16 |
| HB1010200A | 1 Pcs. | Brinell | HBW 10/1000 | Steel | HW approx. 200 | 150x100x16 |
| | | **HBW 10 / 1500** | | | | |
| HB1015080A | 1 Pcs. | Brinell | HBW 10/1500 | Aluminum | HW approx. 80 | 150x100x16 |
| HB1015110A | 1 Pcs. | Brinell | HBW 10/1500 | Aluminum | HW approx. 110 | 150x100x16 |
| HB1015130A | 1 Pcs. | Brinell | HBW 10/1500 | Aluminum | HW approx. 130 | 150x100x16 |
| HB1015170A | 1 Pcs. | Brinell | HBW 10/1500 | Aluminum | HW approx. 170 | 150x100x16 |
| HB1015200A | 1 Pcs. | Brinell | HBW 10/1500 | Steel | HW approx. 200 | 150x100x16 |
| HB1015250A | 1 Pcs. | Brinell | HBW 10/1500 | Steel | HW approx. 250 | 150x100x16 |
| HB1015300A | 1 Pcs. | Brinell | HBW 10/1500 | Steel | HW approx. 300 | 150x100x16 |
| | | **HBW 10 / 3000** | | | | |
| HB1030110A | 1 Pcs. | Brinell | HBW 10/3000 | Aluminum | HW approx. 110 | 150x100x16 |
| HB1030130A | 1 Pcs. | Brinell | HBW 10/3000 | Aluminum | HW approx. 130 | 150x100x16 |
| HB1030170A | 1 Pcs. | Brinell | HBW 10/3000 | Aluminum | HW approx. 170 | 150x100x16 |
| HB1030200A | 1 Pcs. | Brinell | HBW 10/3000 | Steel | HW approx. 200 | 150x100x16 |
| HB1030250A | 1 Pcs. | Brinell | HBW 10/3000 | Steel | HW approx. 250 | 150x100x16 |
| HB1030300A | 1 Pcs. | Brinell | HBW 10/3000 | Steel | HW approx. 300 | 150x100x16 |
| HB1030350A | 1 Pcs. | Brinell | HBW 10/3000 | Steel | HW approx. 350 | 150x100x16 |
| HB1030400A | 1 Pcs. | Brinell | HBW 10/3000 | Steel | HW approx. 400 | 150x100x16 |
| HB1030450A | 1 Pcs. | Brinell | HBW 10/3000 | Steel | HW approx. 450 | 150x100x16 |
| HB1030500A | 1 Pcs. | Brinell | HBW 10/3000 | Steel | HW approx. 500 | 150x100x16 |
| HB1030550A | 1 Pcs. | Brinell | HBW 10/3000 | Steel | HW approx. 550 | 150x100x16 |
| HB1030600A | 1 Pcs. | Brinell | HBW 10/3000 | Steel | HW approx. 600 | 150x100x16 |
| HB1030650A | 1 Pcs. | Brinell | HBW 10/3000 | Steel | HW approx. 650 | 150x100x16 |
| | | **HBW 5 / 125** | | | | |
| HB0505080A | 1 Pcs. | Brinell | HBW 5/125 | Aluminum | HW approx. 80 | 150x100x16 |
| | | **HBW 5 / 250** | | | | |
| HB0510080A | 1 Pcs. | Brinell | HBW 5/250 | Aluminum | HW approx. 80 | 150x100x16 |
| HB0510110A | 1 Pcs. | Brinell | HBW 5/250 | Aluminum | HW approx. 110 | 150x100x16 |
| HB0510130A | 1 Pcs. | Brinell | HBW 5/250 | Aluminum | HW approx. 130 | 150x100x16 |
| HB0510170A | 1 Pcs. | Brinell | HBW 5/250 | Aluminum | HW approx. 170 | 150x100x16 |
| HB0510200A | 1 Pcs. | Brinell | HBW 5/250 | Steel | HW approx. 200 | 150x100x16 |
| HB0510450A | 1 Pcs. | Brinell | HBW 5/250 | Steel | HW approx. 450 | 150x100x16 |
| | | **HBW 5 / 750** | | | | |
| HB0530110A | 1 Pcs. | Brinell | HBW 5/750 | Aluminum | HW approx. 110 | 150x100x16 |
| HB0530130A | 1 Pcs. | Brinell | HBW 5/750 | Aluminum | HW approx. 130 | 150x100x16 |
| HB0530170A | 1 Pcs. | Brinell | HBW 5/750 | Aluminum | HW approx. 170 | 150x100x16 |
| HB0530200A | 1 Pcs. | Brinell | HBW 5/750 | Steel | HW approx. 200 | 150x100x16 |
| HB0530250A | 1 Pcs. | Brinell | HBW 5/750 | Steel | HW approx. 250 | 150x100x16 |
| HB0530300A | 1 Pcs. | Brinell | HBW 5/750 | Steel | HW approx. 300 | 150x100x16 |
| HB0530350A | 1 Pcs. | Brinell | HBW 5/750 | Steel | HW approx. 350 | 150x100x16 |
| HB0530400A | 1 Pcs. | Brinell | HBW 5/750 | Steel | HW approx. 400 | 150x100x16 |
| HB0530450A | 1 Pcs. | Brinell | HBW 5/750 | Steel | HW approx. 450 | 150x100x16 |
| HB0530500A | 1 Pcs. | Brinell | HBW 5/750 | Steel | HW approx. 500 | 150x100x16 |
| HB0530550A | 1 Pcs. | Brinell | HBW 5/750 | Steel | HW approx. 550 | 150x100x16 |
| HB0530600A | 1 Pcs. | Brinell | HBW 5/750 | Steel | HW approx. 600 | 150x100x16 |
| HB0530650A | 1 Pcs. | Brinell | HBW 5/750 | Steel | HW approx. 650 | 150x100x16 |

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Brinell hardness test block (DIN EN ISO 6506-3, ASTM E10)** | | | | |
| | | | HBW | Material | HW | Dimensions (mm) |
| | | **HBW 2.5 / 31.25** | | | | |
| HB2505080C | 1 Pcs. | Brinell | HBW 2.5/31.25 | Aluminum | HW approx. 80 | 60x60x16 |
| | | **HBW 2.5 / 62.5** | | | | |
| HB2510080C | 1 Pcs. | Brinell | HBW 2.5/62.5 | Aluminum | HW approx. 80 | 60x60x16 |
| HB2510110C | 1 Pcs. | Brinell | HBW 2.5/62.5 | Aluminum | HW approx. 110 | 60x60x16 |
| HB2510130C | 1 Pcs. | Brinell | HBW 2.5/62.5 | Aluminum | HW approx. 130 | 60x60x16 |
| HB2510170C | 1 Pcs. | Brinell | HBW 2.5/62.5 | Aluminum | HW approx. 170 | 60x60x16 |
| HB2510200C | 1 Pcs. | Brinell | HBW 2.5/62.5 | Steel | HW approx. 200 | 60x60x16 |
| | | **HBW 2.5 / 187.5** | | | | |
| HB2530110C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Aluminum | HW approx. 110 | 60x60x16 |
| HB2530130C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Aluminum | HW approx. 130 | 60x60x16 |
| HB2530170C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Aluminum | HW approx. 170 | 60x60x16 |
| HB2530200C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Steel | HW approx. 200 | 60x60x16 |
| HB2530250C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Steel | HW approx. 250 | 60x60x16 |
| HB2530300C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Steel | HW approx. 300 | 60x60x16 |
| HB2530350C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Steel | HW approx. 350 | 60x60x16 |
| HB2530400C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Steel | HW approx. 400 | 60x60x16 |
| HB2530450C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Steel | HW approx. 450 | 60x60x16 |
| HB2530500C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Steel | HW approx. 500 | 60x60x16 |
| HB2530550C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Steel | HW approx. 550 | 60x60x16 |
| HB2530600C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Steel | HW approx. 600 | 60x60x16 |
| HB2530650C | 1 Pcs. | Brinell | HBW 2.5/187.5 | Steel | HW approx. 650 | 60x60x16 |
| | | **HBW 1 / 5** | | | | |
| HB0105080C | 1 Pcs. | Brinell | HBW 1/5 | Aluminum | HW approx. 80 | 60x60x16 |
| | | **HBW 1 / 10** | | | | |
| HB0110080C | 1 Pcs. | Brinell | HBW 1/10 | Aluminum | HW approx. 80 | 60x60x16 |
| HB0110110C | 1 Pcs. | Brinell | HBW 1/10 | Aluminum | HW approx. 110 | 60x60x16 |
| HB0110130C | 1 Pcs. | Brinell | HBW 1/10 | Aluminum | HW approx. 130 | 60x60x16 |
| HB0110170C | 1 Pcs. | Brinell | HBW 1/10 | Aluminum | HW approx. 170 | 60x60x16 |
| HB0110200C | 1 Pcs. | Brinell | HBW 1/10 | Steel | HW approx. 200 | 60x60x16 |
| | | **HBW 1 / 30** | | | | |
| HB0130110C | 1 Pcs. | Brinell | HBW 1/30 | Aluminum | HW approx. 110 | 60x60x16 |
| HB0130130C | 1 Pcs. | Brinell | HBW 1/30 | Aluminum | HW approx. 130 | 60x60x16 |
| HB0130170C | 1 Pcs. | Brinell | HBW 1/30 | Aluminum | HW approx. 170 | 60x60x16 |
| HB0130200C | 1 Pcs. | Brinell | HBW 1/30 | Steel | HW approx. 200 | 60x60x16 |
| HB0130250C | 1 Pcs. | Brinell | HBW 1/30 | Steel | HW approx. 250 | 60x60x16 |
| HB0130300C | 1 Pcs. | Brinell | HBW 1/30 | Steel | HW approx. 300 | 60x60x16 |
| HB0130350C | 1 Pcs. | Brinell | HBW 1/30 | Steel | HW approx. 350 | 60x60x16 |
| HB0130400C | 1 Pcs. | Brinell | HBW 1/30 | Steel | HW approx. 400 | 60x60x16 |
| HB0130450C | 1 Pcs. | Brinell | HBW 1/30 | Steel | HW approx. 450 | 60x60x16 |
| HB0130500C | 1 Pcs. | Brinell | HBW 1/30 | Steel | HW approx. 500 | 60x60x16 |
| HB0130550C | 1 Pcs. | Brinell | HBW 1/30 | Steel | HW approx. 550 | 60x60x16 |
| HB0130600C | 1 Pcs. | Brinell | HBW 1/30 | Steel | HW approx. 600 | 60x60x16 |
| HB0130650C | 1 Pcs. | Brinell | HBW 1/30 | Steel | HW approx. 650 | 60x60x16 |



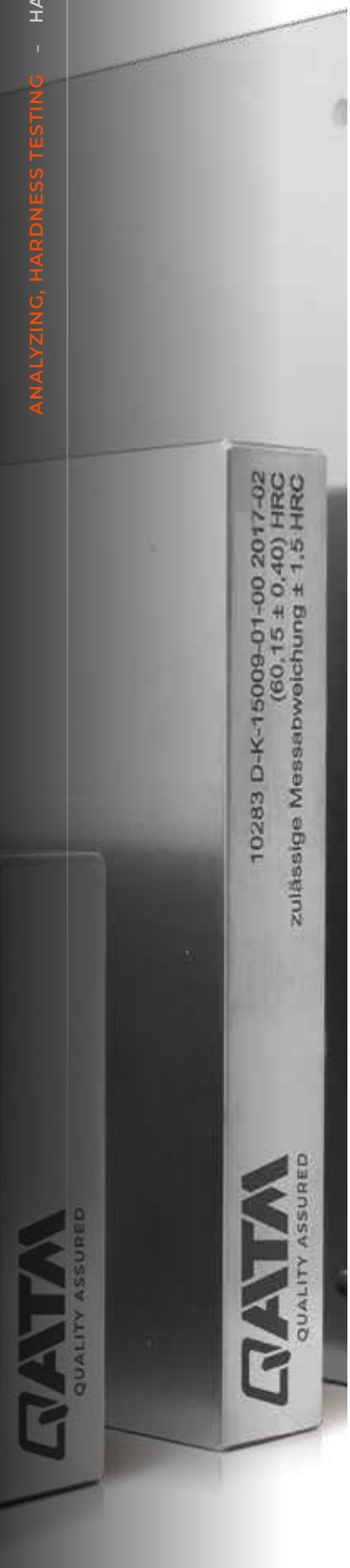

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Knoop hardness test block (DIN EN ISO 4545-3, ASTM E92)** | | | | |
| | | | **HK** | **Material** | **HW** | **Dimensions (mm)** |
| | | **HK 0.01** | | | | |
| HKG010200E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 200 | 30x30x6 |
| HKG010225E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 225 | 30x30x6 |
| HKG010250E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 250 | 30x30x6 |
| HKG010300E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 300 | 30x30x6 |
| HKG010350E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 350 | 30x30x6 |
| HKG010400E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 400 | 30x30x6 |
| HKG010450E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 450 | 30x30x6 |
| HKG010500E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 500 | 30x30x6 |
| HKG010550E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 550 | 30x30x6 |
| HKG010600E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 600 | 30x30x6 |
| HKG010650E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 650 | 30x30x6 |
| HKG010700E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 700 | 30x30x6 |
| HKG010750E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 750 | 30x30x6 |
| HKG010775E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 775 | 30x30x6 |
| HKG010800E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 800 | 30x30x6 |
| HKG010825E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 825 | 30x30x6 |
| HKG010850E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 850 | 30x30x6 |
| HKG010900E | 1 PCS. | Knoop | HK 0.01 | Steel | HW approx. 900 | 30x30x6 |
| | | **HK 0.015** | | | | |
| HKG015200E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 200 | 30x30x6 |
| HKG015225E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 225 | 30x30x6 |
| HKG015250E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 250 | 30x30x6 |
| HKG015300E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 300 | 30x30x6 |
| HKG015350E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 350 | 30x30x6 |
| HKG015400E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 400 | 30x30x6 |
| HKG015450E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 450 | 30x30x6 |
| HKG015500E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 500 | 30x30x6 |
| HKG015550E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 550 | 30x30x6 |
| HKG015600E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 600 | 30x30x6 |
| HKG015650E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 650 | 30x30x6 |
| HKG015700E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 700 | 30x30x6 |
| HKG015750E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 750 | 30x30x6 |
| HKG015775E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 775 | 30x30x6 |
| HKG015800E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 800 | 30x30x6 |
| HKG015825E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 825 | 30x30x6 |
| HKG015850E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 850 | 30x30x6 |
| HKG015900E | 1 PCS. | Knoop | HK 0.015 | Steel | HW approx. 900 | 30x30x6 |
| | | **HK 0.02** | | | | |
| HKG020200E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 200 | 30x30x6 |
| HKG020225E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 225 | 30x30x6 |
| HKG020250E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 250 | 30x30x6 |
| HKG020300E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 300 | 30x30x6 |
| HKG020350E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 350 | 30x30x6 |
| HKG020400E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 400 | 30x30x6 |
| HKG020450E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 450 | 30x30x6 |
| HKG020500E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 500 | 30x30x6 |
| HKG020550E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 550 | 30x30x6 |
| HKG020600E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 600 | 30x30x6 |
| HKG020650E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 650 | 30x30x6 |
| HKG020700E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 700 | 30x30x6 |
| HKG020750E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 750 | 30x30x6 |
| HKG020775E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 775 | 30x30x6 |
| HKG020800E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 800 | 30x30x6 |
| HKG020825E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 825 | 30x30x6 |
| HKG020850E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 850 | 30x30x6 |
| HKG020900E | 1 PCS. | Knoop | HK 0.02 | Steel | HW approx. 900 | 30x30x6 |

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Knoop hardness test block (DIN EN ISO 4545-3, ASTM E92)** | | | | |
| | | | **HK** | **Material** | **HW** | **Dimensions (mm)** |
| | | **HK 0.025** | | | | |
| HKG025200E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 200 | 30x30x6 |
| HKG025225E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 225 | 30x30x6 |
| HKG025250E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 250 | 30x30x6 |
| HKG025300E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 300 | 30x30x6 |
| HKG025350E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 350 | 30x30x6 |
| HKG025400E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 400 | 30x30x6 |
| HKG025450E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 450 | 30x30x6 |
| HKG025500E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 500 | 30x30x6 |
| HKG025550E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 550 | 30x30x6 |
| HKG025600E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 600 | 30x30x6 |
| HKG025650E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 650 | 30x30x6 |
| HKG025700E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 700 | 30x30x6 |
| HKG025750E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 750 | 30x30x6 |
| HKG025775E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 775 | 30x30x6 |
| HKG025800E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 800 | 30x30x6 |
| HKG025825E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 825 | 30x30x6 |
| HKG025850E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 850 | 30x30x6 |
| HKG025900E | 1 PCS. | Knoop | HK 0.025 | Steel | HW approx. 900 | 30x30x6 |
| | | **HK 0.05** | | | | |
| HKG050200E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 200 | 30x30x6 |
| HKG050225E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 225 | 30x30x6 |
| HKG050250E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 250 | 30x30x6 |
| HKG050300E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 300 | 30x30x6 |
| HKG050350E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 350 | 30x30x6 |
| HKG050400E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 400 | 30x30x6 |
| HKG050450E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 450 | 30x30x6 |
| HKG050500E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 500 | 30x30x6 |
| HKG050550E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 550 | 30x30x6 |
| HKG050600E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 600 | 30x30x6 |
| HKG050650E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 650 | 30x30x6 |
| HKG050700E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 700 | 30x30x6 |
| HKG050750E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 750 | 30x30x6 |
| HKG050775E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 775 | 30x30x6 |
| HKG050800E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 800 | 30x30x6 |
| HKG050825E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 825 | 30x30x6 |
| HKG050850E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 850 | 30x30x6 |
| HKG050900E | 1 PCS. | Knoop | HK 0.05 | Steel | HW approx. 900 | 30x30x6 |
| | | **HK 0.1** | | | | |
| HKG100200E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 200 | 30x30x6 |
| HKG100225E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 225 | 30x30x6 |
| HKG100250E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 250 | 30x30x6 |
| HKG100300E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 300 | 30x30x6 |
| HKG100350E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 350 | 30x30x6 |
| HKG100400E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 400 | 30x30x6 |
| HKG100450E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 450 | 30x30x6 |
| HKG100500E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 500 | 30x30x6 |
| HKG100550E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 550 | 30x30x6 |
| HKG100600E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 600 | 30x30x6 |
| HKG100650E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 650 | 30x30x6 |
| HKG100700E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 700 | 30x30x6 |
| HKG100750E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 750 | 30x30x6 |
| HKG100775E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 775 | 30x30x6 |
| HKG100800E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 800 | 30x30x6 |
| HKG100825E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 825 | 30x30x6 |
| HKG100850E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 850 | 30x30x6 |
| HKG100900E | 1 PCS. | Knoop | HK 0.1 | Steel | HW approx. 900 | 30x30x6 |



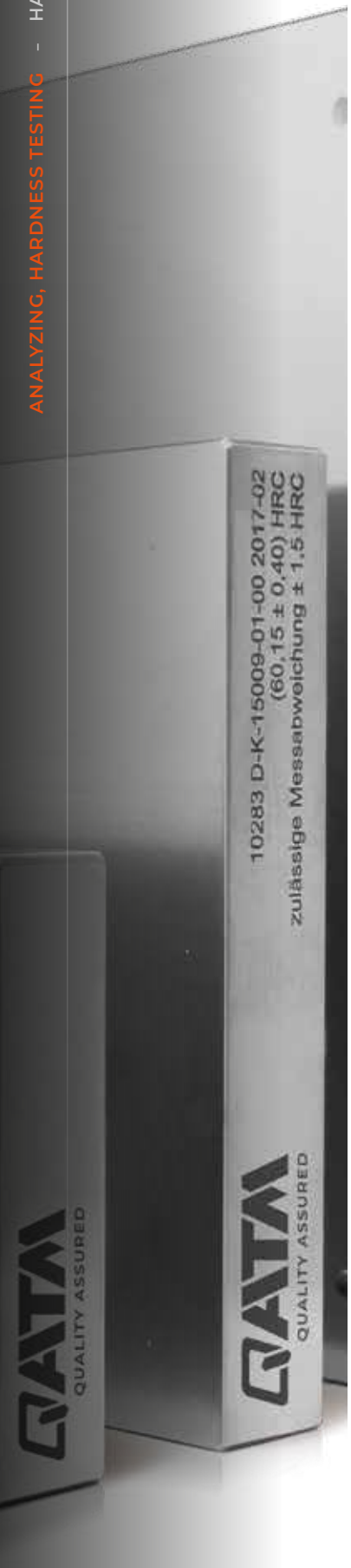

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Knoop hardness test block (DIN EN ISO 4545-3, ASTM E92)** | | | | |
| | | | **HK** | **Material** | **HW** | **Dimensions (mm)** |
| | | **HK 0.2** | | | | |
| HKG200200E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 200 | 30x30x6 |
| HKG200225E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 225 | 30x30x6 |
| HKG200250E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 250 | 30x30x6 |
| HKG200300E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 300 | 30x30x6 |
| HKG200350E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 350 | 30x30x6 |
| HKG200400E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 400 | 30x30x6 |
| HKG200450E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 450 | 30x30x6 |
| HKG200500E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 500 | 30x30x6 |
| HKG200550E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 550 | 30x30x6 |
| HKG200600E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 600 | 30x30x6 |
| HKG200650E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 650 | 30x30x6 |
| HKG200700E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 700 | 30x30x6 |
| HKG200750E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 750 | 30x30x6 |
| HKG200775E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 775 | 30x30x6 |
| HKG200800E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 800 | 30x30x6 |
| HKG200825E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 825 | 30x30x6 |
| HKG200850E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 850 | 30x30x6 |
| HKG200900E | 1 PCS. | Knoop | HK 0.2 | Steel | HW approx. 900 | 30x30x6 |
| | | **HK 0.3** | | | | |
| HKG300200E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 200 | 30x30x6 |
| HKG300225E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 225 | 30x30x6 |
| HKG300250E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 250 | 30x30x6 |
| HKG300300E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 300 | 30x30x6 |
| HKG300350E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 350 | 30x30x6 |
| HKG300400E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 400 | 30x30x6 |
| HKG300450E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 450 | 30x30x6 |
| HKG300500E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 500 | 30x30x6 |
| HKG300550E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 550 | 30x30x6 |
| HKG300600E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 600 | 30x30x6 |
| HKG300650E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 650 | 30x30x6 |
| HKG300700E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 700 | 30x30x6 |
| HKG300750E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 750 | 30x30x6 |
| HKG300775E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 775 | 30x30x6 |
| HKG300800E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 800 | 30x30x6 |
| HKG300825E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 825 | 30x30x6 |
| HKG300850E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 850 | 30x30x6 |
| HKG300900E | 1 PCS. | Knoop | HK 0.3 | Steel | HW approx. 900 | 30x30x6 |
| | | **HK 0.5** | | | | |
| HKG500200E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 200 | 30x30x6 |
| HKG500225E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 225 | 30x30x6 |
| HKG500250E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 250 | 30x30x6 |
| HKG500300E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 300 | 30x30x6 |
| HKG500350E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 350 | 30x30x6 |
| HKG500400E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 400 | 30x30x6 |
| HKG500450E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 450 | 30x30x6 |
| HKG500500E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 500 | 30x30x6 |
| HKG500550E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 550 | 30x30x6 |
| HKG500600E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 600 | 30x30x6 |
| HKG500650E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 650 | 30x30x6 |
| HKG500700E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 700 | 30x30x6 |
| HKG500750E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 750 | 30x30x6 |
| HKG500775E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 775 | 30x30x6 |
| HKG500800E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 800 | 30x30x6 |
| HKG500825E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 825 | 30x30x6 |
| HKG500850E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 850 | 30x30x6 |
| HKG500900E | 1 PCS. | Knoop | HK 0.5 | Steel | HW approx. 900 | 30x30x6 |

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Knoop hardness test block (DIN EN ISO 4545-3, ASTM E92)** | | | | |
| | | | HK | Material | HW | Dimensions (mm) |
| | | **HK 1** | | | | |
| HKK001200E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 200 | 30x30x6 |
| HKK001225E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 225 | 30x30x6 |
| HKK001250E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 250 | 30x30x6 |
| HKK001300E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 300 | 30x30x6 |
| HKK001350E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 350 | 30x30x6 |
| HKK001400E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 400 | 30x30x6 |
| HKK001450E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 450 | 30x30x6 |
| HKK001500E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 500 | 30x30x6 |
| HKK001550E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 550 | 30x30x6 |
| HKK001600E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 600 | 30x30x6 |
| HKK001650E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 650 | 30x30x6 |
| HKK001700E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 700 | 30x30x6 |
| HKK001750E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 750 | 30x30x6 |
| HKK001775E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 775 | 30x30x6 |
| HKK001800E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 800 | 30x30x6 |
| HKK001825E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 825 | 30x30x6 |
| HKK001850E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 850 | 30x30x6 |
| HKK001900E | 1 PCS. | Knoop | HK 1 | Steel | HW approx. 900 | 30x30x6 |
| | | **HK 2** | | | | |
| HKK002200E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 200 | 30x30x6 |
| HKK002225E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 225 | 30x30x6 |
| HKK002250E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 250 | 30x30x6 |
| HKK002300E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 300 | 30x30x6 |
| HKK002350E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 350 | 30x30x6 |
| HKK002400E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 400 | 30x30x6 |
| HKK002450E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 450 | 30x30x6 |
| HKK002500E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 500 | 30x30x6 |
| HKK002550E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 550 | 30x30x6 |
| HKK002600E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 600 | 30x30x6 |
| HKK002650E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 650 | 30x30x6 |
| HKK002700E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 700 | 30x30x6 |
| HKK002750E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 750 | 30x30x6 |
| HKK002775E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 775 | 30x30x6 |
| HKK002800E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 800 | 30x30x6 |
| HKK002825E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 825 | 30x30x6 |
| HKK002850E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 850 | 30x30x6 |
| HKK002900E | 1 PCS. | Knoop | HK 2 | Steel | HW approx. 900 | 30x30x6 |



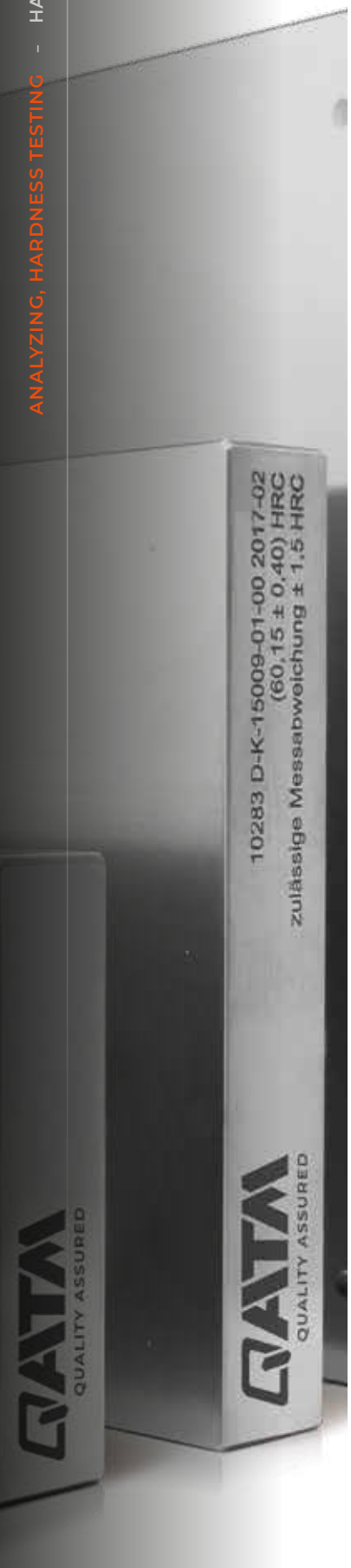

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Rockwell hardness test block (DIN EN ISO 6508-3, ASTM E18)** | | | | |
| | | | **HR** | **Material** | **HW** | **Dimensions (mm)** |
| | | **HRA** | | | | |
| HR0HRA031C | 1 Pcs. | Rockwell | HRA | Aluminum | HW approx. 31 | 60x60x16 |
| HR0HRA042C | 1 Pcs. | Rockwell | HRA | Aluminum | HW approx. 42 | 60x60x16 |
| HR0HRA053C | 1 Pcs. | Rockwell | HRA | Aluminum | HW approx. 53 | 60x60x16 |
| HR0HRA055C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 55 | 60x60x16 |
| HR0HRA059C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 59 | 60x60x16 |
| HR0HRA060C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 60 | 60x60x16 |
| HR0HRA062C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 62 | 60x60x16 |
| HR0HRA063C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 63 | 60x60x16 |
| HR0HRA065C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 65 | 60x60x16 |
| HR0HRA068C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 68 | 60x60x16 |
| HR0HRA070C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 70 | 60x60x16 |
| HR0HRA073C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 73 | 60x60x16 |
| HR0HRA076C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 76 | 60x60x16 |
| HR0HRA078C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 78 | 60x60x16 |
| HR0HRA081C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 81 | 60x60x16 |
| HR0HRA083C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 83 | 60x60x16 |
| HR0HRA084C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 84 | 60x60x16 |
| HR0HRA085C | 1 Pcs. | Rockwell | HRA | Steel | HW approx. 85 | 60x60x16 |
| | | **HRB** | | | | |
| HR0HRB040C | 1 Pcs. | Rockwell | HRB | Aluminum | HW approx. 40 | 60x60x16 |
| HR0HRB065C | 1 Pcs. | Rockwell | HRB | Aluminum | HW approx. 65 | 60x60x16 |
| HR0HRB085C | 1 Pcs. | Rockwell | HRB | Aluminum | HW approx. 85 | 60x60x16 |
| HR0HRB090C | 1 Pcs. | Rockwell | HRB | Steel | HW approx. 90 | 60x60x16 |
| HR0HRB095C | 1 Pcs. | Rockwell | HRB | Steel | HW approx. 95 | 60x60x16 |
| HR0HRB100C | 1 Pcs. | Rockwell | HRB | Steel | HW approx. 100 | 60x60x16 |
| | | **HRC** | | | | |
| HR0HRC020C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 20 | 60x60x16 |
| HR0HRC022C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 22 | 60x60x16 |
| HR0HRC025C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 25 | 60x60x16 |
| HR0HRC030C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 30 | 60x60x16 |
| HR0HRC035C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 35 | 60x60x16 |
| HR0HRC040C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 40 | 60x60x16 |
| HR0HRC045C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 45 | 60x60x16 |
| HR0HRC050C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 50 | 60x60x16 |
| HR0HRC055C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 55 | 60x60x16 |
| HR0HRC060C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 60 | 60x60x16 |
| HR0HRC063C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 63 | 60x60x16 |
| HR0HRC065C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 65 | 60x60x16 |
| HR0HRC067C | 1 Pcs. | Rockwell | HRC | Steel | HW approx. 67 | 60x60x16 |
| | | **HRD** | | | | |
| HR0HRD040C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 40 | 60x60x16 |
| HR0HRD044C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 44 | 60x60x16 |
| HR0HRD048C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 48 | 60x60x16 |
| HR0HRD052C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 52 | 60x60x16 |
| HR0HRD056C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 56 | 60x60x16 |
| HR0HRD060C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 60 | 60x60x16 |
| HR0HRD064C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 64 | 60x60x16 |
| HR0HRD067C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 67 | 60x60x16 |
| HR0HRD071C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 71 | 60x60x16 |
| HR0HRD073C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 73 | 60x60x16 |
| HR0HRD074C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 74 | 60x60x16 |
| HR0HRD077C | 1 Pcs. | Rockwell | HRD | Steel | HW approx. 77 | 60x60x16 |
| | | **HRE** | | | | |
| HR0HRE081C | 1 Pcs. | Rockwell | HRE | Aluminum | HW approx. 81 | 60x60x16 |
| HR0HRE096C | 1 Pcs. | Rockwell | HRE | Aluminum | HW approx. 96 | 60x60x16 |

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Rockwell hardness test block (DIN EN ISO 6508-3, ASTM E18)** | | | | |
| | | | HR | Material | HW | Dimensions (mm) |
| | | **HRG** | | | | |
| HR0HRG032C | 1 Pcs. | Rockwell | HRG | Aluminum | HW approx. 32 | 60x60x16 |
| HR0HRG058C | 1 Pcs. | Rockwell | HRG | Aluminum | HW approx. 58 | 60x60x16 |
| HR0HRG066C | 1 Pcs. | Rockwell | HRG | Steel | HW approx. 66 | 60x60x16 |
| HR0HRG074C | 1 Pcs. | Rockwell | HRG | Steel | HW approx. 74 | 60x60x16 |
| HR0HRG083C | 1 Pcs. | Rockwell | HRG | Steel | HW approx. 83 | 60x60x16 |
| | | **HRK** | | | | |
| HR0HRK056C | 1 Pcs. | Rockwell | HRK | Aluminum | HW approx. 56 | 60x60x16 |
| HR0HRK073C | 1 Pcs. | Rockwell | HRK | Aluminum | HW approx. 73 | 60x60x16 |
| HR0HRK095C | 1 Pcs. | Rockwell | HRK | Aluminum | HW approx. 95 | 60x60x16 |
| HR0HRK099C | 1 Pcs. | Rockwell | HRK | Steel | HW approx. 99 | 60x60x16 |
| | | **HR15N** | | | | |
| HR015N069C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 69 | 60x60x16 |
| HR015N072C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 72 | 60x60x16 |
| HR015N075C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 75 | 60x60x16 |
| HR015N078C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 78 | 60x60x16 |
| HR015N081C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 81 | 60x60x16 |
| HR015N083C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 83 | 60x60x16 |
| HR015N085C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 85 | 60x60x16 |
| HR015N088C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 88 | 60x60x16 |
| HR015N090C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 90 | 60x60x16 |
| HR015N091C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 91 | 60x60x16 |
| HR015N092C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 92 | 60x60x16 |
| HR015N093C | 1 Pcs. | Rockwell | HR15N | Steel | HW approx. 93 | 60x60x16 |
| | | **HR15T** | | | | |
| HR015T073C | 1 Pcs. | Rockwell | HR15T | Aluminum | HW approx. 73 | 60x60x16 |
| HR015T082C | 1 Pcs. | Rockwell | HR15T | Aluminum | HW approx. 82 | 60x60x16 |
| HR015T088C | 1 Pcs. | Rockwell | HR15T | Aluminum | HW approx. 88 | 60x60x16 |
| HR015T090C | 1 Pcs. | Rockwell | HR15T | Steel | HW approx. 90 | 60x60x16 |
| HR015T091C | 1 Pcs. | Rockwell | HR15T | Steel | HW approx. 91 | 60x60x16 |
| HR015T093C | 1 Pcs. | Rockwell | HR15T | Steel | HW approx. 93 | 60x60x16 |
| | | **HR30N** | | | | |
| HR030N041C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 41 | 60x60x16 |
| HR030N046C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 46 | 60x60x16 |
| HR030N050C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 50 | 60x60x16 |
| HR030N055C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 55 | 60x60x16 |
| HR030N059C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 59 | 60x60x16 |
| HR030N064C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 64 | 60x60x16 |
| HR030N068C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 68 | 60x60x16 |
| HR030N073C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 73 | 60x60x16 |
| HR030N077C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 77 | 60x60x16 |
| HR030N080C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 80 | 60x60x16 |
| HR030N082C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 82 | 60x60x16 |
| HR030N083C | 1 Pcs. | Rockwell | HR30N | Steel | HW approx. 83 | 60x60x16 |
| | | **HR30T** | | | | |
| HR030T043C | 1 Pcs. | Rockwell | HR30T | Aluminum | HW approx. 43 | 60x60x16 |
| HR030T060C | 1 Pcs. | Rockwell | HR30T | Aluminum | HW approx. 60 | 60x60x16 |
| HR030T073C | 1 Pcs. | Rockwell | HR30T | Aluminum | HW approx. 73 | 60x60x16 |
| HR030T076C | 1 Pcs. | Rockwell | HR30T | Steel | HW approx. 76 | 60x60x16 |
| HR030T080C | 1 Pcs. | Rockwell | HR30T | Steel | HW approx. 80 | 60x60x16 |



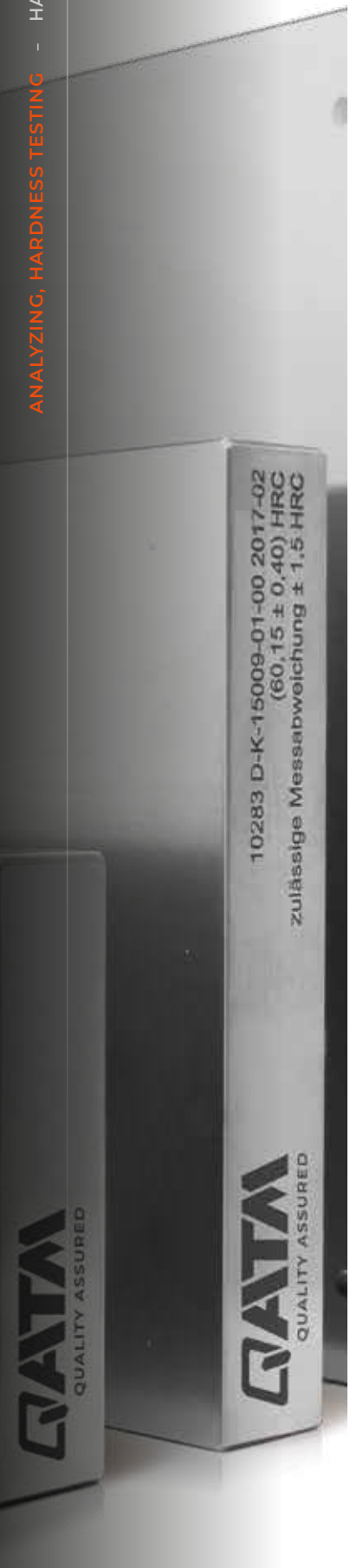

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Rockwell hardness test block (DIN EN ISO 6508-3, ASTM E18)** | | | | |
| | | | **HR** | **Material** | **HW** | **Dimensions (mm)** |
| | | **HR45N** | | | | |
| HR045N019C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 19 | 60x60x16 |
| HR045N025C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 25 | 60x60x16 |
| HR045N031C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 31 | 60x60x16 |
| HR045N037C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 37 | 60x60x16 |
| HR045N043C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 43 | 60x60x16 |
| HR045N049C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 49 | 60x60x16 |
| HR045N055C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 55 | 60x60x16 |
| HR045N061C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 61 | 60x60x16 |
| HR045N066C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 66 | 60x60x16 |
| HR045N070C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 70 | 60x60x16 |
| HR045N072C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 72 | 60x60x16 |
| HR045N074C | 1 Pcs. | Rockwell | HR45N | Steel | HW approx. 74 | 60x60x16 |
| | | **HR45T** | | | | |
| HR045T012C | 1 Pcs. | Rockwell | HR45T | Aluminum | HW approx. 12 | 60x60x16 |
| HR045T038C | 1 Pcs. | Rockwell | HR45T | Aluminum | HW approx. 38 | 60x60x16 |
| HR045T058C | 1 Pcs. | Rockwell | HR45T | Aluminum | HW approx. 58 | 60x60x16 |
| HR045T063C | 1 Pcs. | Rockwell | HR45T | Steel | HW approx. 63 | 60x60x16 |
| HR045T068C | 1 Pcs. | Rockwell | HR45T | Steel | HW approx. 68 | 60x60x16 |

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Vickers hardness test block (DIN EN ISO 6507-3, ASTM E92)** | | | | |
| | | | **HV** | **Material** | **HW** | **Dimensions (mm)** |
| | | **HV 0.015** | | | | |
| HVG015200E | 1 Pcs. | Vickers | HV 0.015 | Steel | HW approx. 200 | 30x30x6 |
| HVG015250E | 1 Pcs. | Vickers | HV 0.015 | Steel | HW approx. 250 | 30x30x6 |
| | | **HV 0.02** | | | | |
| HVG020200E | 1 Pcs. | Vickers | HV 0.02 | Steel | HW approx. 200 | 30x30x6 |
| HVG020250E | 1 Pcs. | Vickers | HV 0.02 | Steel | HW approx. 250 | 30x30x6 |
| HVG020300E | 1 Pcs. | Vickers | HV 0.02 | Steel | HW approx. 300 | 30x30x6 |
| HVG020350E | 1 Pcs. | Vickers | HV 0.02 | Steel | HW approx. 350 | 30x30x6 |
| | | **HV 0.025** | | | | |
| HVG025200E | 1 Pcs. | Vickers | HV 0.025 | Steel | HW approx. 200 | 30x30x6 |
| HVG025250E | 1 Pcs. | Vickers | HV 0.025 | Steel | HW approx. 250 | 30x30x6 |
| HVG025300E | 1 Pcs. | Vickers | HV 0.025 | Steel | HW approx. 300 | 30x30x6 |
| HVG025350E | 1 Pcs. | Vickers | HV 0.025 | Steel | HW approx. 350 | 30x30x6 |
| HVG025400E | 1 Pcs. | Vickers | HV 0.025 | Steel | HW approx. 400 | 30x30x6 |
| HVG025450E | 1 Pcs. | Vickers | HV 0.025 | Steel | HW approx. 450 | 30x30x6 |
| | | **HV 0.05** | | | | |
| HVG050200E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 200 | 30x30x6 |
| HVG050250E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 250 | 30x30x6 |
| HVG050300E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 300 | 30x30x6 |
| HVG050350E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 350 | 30x30x6 |
| HVG050400E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 400 | 30x30x6 |
| HVG050450E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 450 | 30x30x6 |
| HVG050500E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 500 | 30x30x6 |
| HVG050550E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 550 | 30x30x6 |
| HVG050600E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 600 | 30x30x6 |
| HVG050650E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 650 | 30x30x6 |
| HVG050700E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 700 | 30x30x6 |
| HVG050750E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 750 | 30x30x6 |
| HVG050800E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 800 | 30x30x6 |
| HVG050850E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 850 | 30x30x6 |
| HVG050900E | 1 Pcs. | Vickers | HV 0.05 | Steel | HW approx. 900 | 30x30x6 |
| | | **HV 0.1** | | | | |
| HVG100200E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 200 | 30x30x6 |
| HVG100250E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 250 | 30x30x6 |
| HVG100300E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 300 | 30x30x6 |
| HVG100350E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 350 | 30x30x6 |
| HVG100400E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 400 | 30x30x6 |
| HVG100450E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 450 | 30x30x6 |
| HVG100500E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 500 | 30x30x6 |
| HVG100550E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 550 | 30x30x6 |
| HVG100600E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 600 | 30x30x6 |
| HVG100650E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 650 | 30x30x6 |
| HVG100700E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 700 | 30x30x6 |
| HVG100750E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 750 | 30x30x6 |
| HVG100800E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 800 | 30x30x6 |
| HVG100850E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 850 | 30x30x6 |
| HVG100900E | 1 Pcs. | Vickers | HV 0.1 | Steel | HW approx. 900 | 30x30x6 |



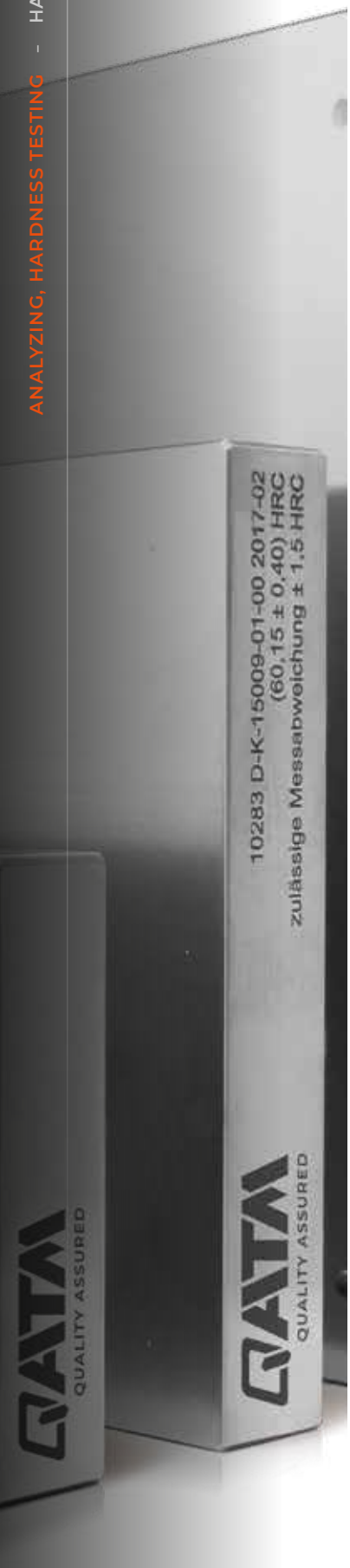

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Vickers hardness test block (DIN EN ISO 6507-3, ASTM E92)** | | | | |
| | | | HV | Material | HW | Dimensions (mm) |
| | | **HV 0.2** | | | | |
| HVG200200E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 200 | 30x30x6 |
| HVG200250E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 250 | 30x30x6 |
| HVG200300E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 300 | 30x30x6 |
| HVG200350E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 350 | 30x30x6 |
| HVG200400E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 400 | 30x30x6 |
| HVG200450E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 450 | 30x30x6 |
| HVG200500E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 500 | 30x30x6 |
| HVG200550E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 550 | 30x30x6 |
| HVG200600E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 600 | 30x30x6 |
| HVG200650E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 650 | 30x30x6 |
| HVG200700E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 700 | 30x30x6 |
| HVG200750E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 750 | 30x30x6 |
| HVG200800E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 800 | 30x30x6 |
| HVG200850E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 850 | 30x30x6 |
| HVG200900E | 1 Pcs. | Vickers | HV 0.2 | Steel | HW approx. 900 | 30x30x6 |
| | | **HV 0.3** | | | | |
| HVG300200E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 200 | 30x30x6 |
| HVG300250E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 250 | 30x30x6 |
| HVG300300E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 300 | 30x30x6 |
| HVG300350E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 350 | 30x30x6 |
| HVG300400E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 400 | 30x30x6 |
| HVG300450E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 450 | 30x30x6 |
| HVG300500E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 500 | 30x30x6 |
| HVG300550E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 550 | 30x30x6 |
| HVG300600E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 600 | 30x30x6 |
| HVG300650E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 650 | 30x30x6 |
| HVG300700E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 700 | 30x30x6 |
| HVG300750E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 750 | 30x30x6 |
| HVG300800E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 800 | 30x30x6 |
| HVG300850E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 850 | 30x30x6 |
| HVG300900E | 1 Pcs. | Vickers | HV 0.3 | Steel | HW approx. 900 | 30x30x6 |
| | | **HV 0.5** | | | | |
| HVG500200E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 200 | 30x30x6 |
| HVG500250E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 250 | 30x30x6 |
| HVG500300E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 300 | 30x30x6 |
| HVG500350E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 350 | 30x30x6 |
| HVG500400E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 400 | 30x30x6 |
| HVG500450E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 450 | 30x30x6 |
| HVG500500E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 500 | 30x30x6 |
| HVG500550E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 550 | 30x30x6 |
| HVG500600E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 600 | 30x30x6 |
| HVG500650E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 650 | 30x30x6 |
| HVG500700E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 700 | 30x30x6 |
| HVG500750E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 750 | 30x30x6 |
| HVG500800E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 800 | 30x30x6 |
| HVG500850E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 850 | 30x30x6 |
| HVG500900E | 1 Pcs. | Vickers | HV 0.5 | Steel | HW approx. 900 | 30x30x6 |

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Vickers hardness test block (DIN EN ISO 6507-3, ASTM E92)** | | | | |
| | | | **HV** | **Material** | **HW** | **Dimensions (mm)** |
| | | **HV 1** | | | | |
| HVK001200E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 200 | 30x30x6 |
| HVK001250E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 250 | 30x30x6 |
| HVK001300E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 300 | 30x30x6 |
| HVK001350E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 350 | 30x30x6 |
| HVK001400E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 400 | 30x30x6 |
| HVK001450E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 450 | 30x30x6 |
| HVK001500E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 500 | 30x30x6 |
| HVK001550E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 550 | 30x30x6 |
| HVK001600E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 600 | 30x30x6 |
| HVK001650E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 650 | 30x30x6 |
| HVK001700E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 700 | 30x30x6 |
| HVK001750E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 750 | 30x30x6 |
| HVK001800E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 800 | 30x30x6 |
| HVK001850E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 850 | 30x30x6 |
| HVK001900E | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 900 | 30x30x6 |
| | | **HV 1** | | | | |
| HVK001080C | 1 Pcs. | Vickers | HV 1 | Aluminum | HW approx. 80 | 60x60x16 |
| HVK001110C | 1 Pcs. | Vickers | HV 1 | Aluminum | HW approx. 110 | 60x60x16 |
| HVK001130C | 1 Pcs. | Vickers | HV 1 | Aluminum | HW approx. 130 | 60x60x16 |
| HVK001170C | 1 Pcs. | Vickers | HV 1 | Aluminum | HW approx. 170 | 60x60x16 |
| HVK001200C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 200 | 60x60x16 |
| HVK001250C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 250 | 60x60x16 |
| HVK001300C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 300 | 60x60x16 |
| HVK001350C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 350 | 60x60x16 |
| HVK001400C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 400 | 60x60x16 |
| HVK001450C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 450 | 60x60x16 |
| HVK001500C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 500 | 60x60x16 |
| HVK001550C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 550 | 60x60x16 |
| HVK001600C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 600 | 60x60x16 |
| HVK001650C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 650 | 60x60x16 |
| HVK001700C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 700 | 60x60x16 |
| HVK001750C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 750 | 60x60x16 |
| HVK001800C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 800 | 60x60x16 |
| HVK001850C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 850 | 60x60x16 |
| HVK001900C | 1 Pcs. | Vickers | HV 1 | Steel | HW approx. 900 | 60x60x16 |




| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Vickers hardness test block (DIN EN ISO 6507-3, ASTM E92)** | | | | |
| | | | **HV** | **Material** | **HW** | **Dimensions (mm)** |
| | | **HV 2** | | | | |
| HVK002200E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 200 | 30x30x6 |
| HVK002250E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 250 | 30x30x6 |
| HVK002300E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 300 | 30x30x6 |
| HVK002350E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 350 | 30x30x6 |
| HVK002400E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 400 | 30x30x6 |
| HVK002450E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 450 | 30x30x6 |
| HVK002500E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 500 | 30x30x6 |
| HVK002550E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 550 | 30x30x6 |
| HVK002600E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 600 | 30x30x6 |
| HVK002650E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 650 | 30x30x6 |
| HVK002700E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 700 | 30x30x6 |
| HVK002750E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 750 | 30x30x6 |
| HVK002800E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 800 | 30x30x6 |
| HVK002850E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 850 | 30x30x6 |
| HVK002900E | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 900 | 30x30x6 |
| | | **HV 2** | | | | |
| HVK002080C | 1 Pcs. | Vickers | HV 2 | Aluminum | HW approx. 80 | 60x60x16 |
| HVK002110C | 1 Pcs. | Vickers | HV 2 | Aluminum | HW approx. 110 | 60x60x16 |
| HVK002130C | 1 Pcs. | Vickers | HV 2 | Aluminum | HW approx. 130 | 60x60x16 |
| HVK002170C | 1 Pcs. | Vickers | HV 2 | Aluminum | HW approx. 170 | 60x60x16 |
| HVK002200C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 200 | 60x60x16 |
| HVK002250C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 250 | 60x60x16 |
| HVK002300C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 300 | 60x60x16 |
| HVK002350C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 350 | 60x60x16 |
| HVK002400C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 400 | 60x60x16 |
| HVK002450C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 450 | 60x60x16 |
| HVK002500C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 500 | 60x60x16 |
| HVK002550C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 550 | 60x60x16 |
| HVK002600C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 600 | 60x60x16 |
| HVK002650C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 650 | 60x60x16 |
| HVK002700C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 700 | 60x60x16 |
| HVK002750C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 750 | 60x60x16 |
| HVK002800C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 800 | 60x60x16 |
| HVK002850C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 850 | 60x60x16 |
| HVK002900C | 1 Pcs. | Vickers | HV 2 | Steel | HW approx. 900 | 60x60x16 |
| | | **HV 3** | | | | |
| HVK003080C | 1 Pcs. | Vickers | HV 3 | Aluminum | HW approx. 80 | 60x60x16 |
| HVK003110C | 1 Pcs. | Vickers | HV 3 | Aluminum | HW approx. 110 | 60x60x16 |
| HVK003130C | 1 Pcs. | Vickers | HV 3 | Aluminum | HW approx. 130 | 60x60x16 |
| HVK003170C | 1 Pcs. | Vickers | HV 3 | Aluminum | HW approx. 170 | 60x60x16 |
| HVK003200C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 200 | 60x60x16 |
| HVK003250C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 250 | 60x60x16 |
| HVK003300C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 300 | 60x60x16 |
| HVK003350C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 350 | 60x60x16 |
| HVK003400C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 400 | 60x60x16 |
| HVK003450C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 450 | 60x60x16 |
| HVK003500C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 500 | 60x60x16 |
| HVK003550C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 550 | 60x60x16 |
| HVK003600C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 600 | 60x60x16 |
| HVK003650C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 650 | 60x60x16 |
| HVK003700C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 700 | 60x60x16 |
| HVK003750C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 750 | 60x60x16 |
| HVK003800C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 800 | 60x60x16 |
| HVK003850C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 850 | 60x60x16 |
| HVK003900C | 1 Pcs. | Vickers | HV 3 | Steel | HW approx. 900 | 60x60x16 |

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Vickers hardness test block (DIN EN ISO 6507-3, ASTM E92)** | | | | |
| | | | HV | Material | HW | Dimensions (mm) |
| | | **HV 5** | | | | |
| HVK005080C | 1 Pcs. | Vickers | HV 5 | Aluminum | HW approx. 80 | 60x60x16 |
| HVK005110C | 1 Pcs. | Vickers | HV 5 | Aluminum | HW approx. 110 | 60x60x16 |
| HVK005130C | 1 Pcs. | Vickers | HV 5 | Aluminum | HW approx. 130 | 60x60x16 |
| HVK005170C | 1 Pcs. | Vickers | HV 5 | Aluminum | HW approx. 170 | 60x60x16 |
| HVK005200C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 200 | 60x60x16 |
| HVK005250C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 250 | 60x60x16 |
| HVK005300C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 300 | 60x60x16 |
| HVK005350C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 350 | 60x60x16 |
| HVK005400C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 400 | 60x60x16 |
| HVK005450C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 450 | 60x60x16 |
| HVK005500C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 500 | 60x60x16 |
| HVK005550C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 550 | 60x60x16 |
| HVK005600C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 600 | 60x60x16 |
| HVK005650C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 650 | 60x60x16 |
| HVK005700C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 700 | 60x60x16 |
| HVK005750C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 750 | 60x60x16 |
| HVK005800C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 800 | 60x60x16 |
| HVK005850C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 850 | 60x60x16 |
| HVK005900C | 1 Pcs. | Vickers | HV 5 | Steel | HW approx. 900 | 60x60x16 |
| | | **HV 10** | | | | |
| HVK010080C | 1 Pcs. | Vickers | HV 10 | Aluminum | HW approx. 80 | 60x60x16 |
| HVK010110C | 1 Pcs. | Vickers | HV 10 | Aluminum | HW approx. 110 | 60x60x16 |
| HVK010130C | 1 Pcs. | Vickers | HV 10 | Aluminum | HW approx. 130 | 60x60x16 |
| HVK010170C | 1 Pcs. | Vickers | HV 10 | Aluminum | HW approx. 170 | 60x60x16 |
| HVK010200C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 200 | 60x60x16 |
| HVK010250C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 250 | 60x60x16 |
| HVK010300C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 300 | 60x60x16 |
| HVK010350C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 350 | 60x60x16 |
| HVK010400C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 400 | 60x60x16 |
| HVK010450C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 450 | 60x60x16 |
| HVK010500C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 500 | 60x60x16 |
| HVK010550C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 550 | 60x60x16 |
| HVK010600C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 600 | 60x60x16 |
| HVK010650C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 650 | 60x60x16 |
| HVK010700C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 700 | 60x60x16 |
| HVK010750C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 750 | 60x60x16 |
| HVK010800C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 800 | 60x60x16 |
| HVK010850C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 850 | 60x60x16 |
| HVK010900C | 1 Pcs. | Vickers | HV 10 | Steel | HW approx. 900 | 60x60x16 |
| | | **HV 20** | | | | |
| HVK020080C | 1 Pcs. | Vickers | HV 20 | Aluminum | HW approx. 80 | 60x60x16 |
| HVK020110C | 1 Pcs. | Vickers | HV 20 | Aluminum | HW approx. 110 | 60x60x16 |
| HVK020130C | 1 Pcs. | Vickers | HV 20 | Aluminum | HW approx. 130 | 60x60x16 |
| HVK020170C | 1 Pcs. | Vickers | HV 20 | Aluminum | HW approx. 170 | 60x60x16 |
| HVK020200C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 200 | 60x60x16 |
| HVK020250C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 250 | 60x60x16 |
| HVK020300C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 300 | 60x60x16 |
| HVK020350C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 350 | 60x60x16 |
| HVK020400C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 400 | 60x60x16 |
| HVK020450C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 450 | 60x60x16 |
| HVK020500C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 500 | 60x60x16 |
| HVK020550C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 550 | 60x60x16 |
| HVK020600C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 600 | 60x60x16 |
| HVK020650C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 650 | 60x60x16 |
| HVK020700C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 700 | 60x60x16 |
| HVK020750C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 750 | 60x60x16 |
| HVK020800C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 800 | 60x60x16 |
| HVK020850C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 850 | 60x60x16 |
| HVK020900C | 1 Pcs. | Vickers | HV 20 | Steel | HW approx. 900 | 60x60x16 |




| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Vickers hardness test block (DIN EN ISO 6507-3, ASTM E92)** | | | | |
| | | | **HV** | **Material** | **HW** | **Dimensions (mm)** |
| | | **HV 30** | | | | |
| HVK030080C | 1 Pcs. | Vickers | HV 30 | Aluminum | HW approx. 80 | 60x60x16 |
| HVK030110C | 1 Pcs. | Vickers | HV 30 | Aluminum | HW approx. 110 | 60x60x16 |
| HVK030130C | 1 Pcs. | Vickers | HV 30 | Aluminum | HW approx. 130 | 60x60x16 |
| HVK030170C | 1 Pcs. | Vickers | HV 30 | Aluminum | HW approx. 170 | 60x60x16 |
| HVK030200C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 200 | 60x60x16 |
| HVK030250C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 250 | 60x60x16 |
| HVK030300C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 300 | 60x60x16 |
| HVK030350C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 350 | 60x60x16 |
| HVK030400C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 400 | 60x60x16 |
| HVK030450C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 450 | 60x60x16 |
| HVK030500C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 500 | 60x60x16 |
| HVK030550C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 550 | 60x60x16 |
| HVK030600C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 600 | 60x60x16 |
| HVK030650C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 650 | 60x60x16 |
| HVK030700C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 700 | 60x60x16 |
| HVK030750C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 750 | 60x60x16 |
| HVK030800C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 800 | 60x60x16 |
| HVK030850C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 850 | 60x60x16 |
| HVK030900C | 1 Pcs. | Vickers | HV 30 | Steel | HW approx. 900 | 60x60x16 |
| | | **HV 50** | | | | |
| HVK050080C | 1 Pcs. | Vickers | HV 50 | Aluminum | HW approx. 80 | 60x60x16 |
| HVK050110C | 1 Pcs. | Vickers | HV 50 | Aluminum | HW approx. 110 | 60x60x16 |
| HVK050130C | 1 Pcs. | Vickers | HV 50 | Aluminum | HW approx. 130 | 60x60x16 |
| HVK050170C | 1 Pcs. | Vickers | HV 50 | Aluminum | HW approx. 170 | 60x60x16 |
| HVK050200C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 200 | 60x60x16 |
| HVK050250C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 250 | 60x60x16 |
| HVK050300C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 300 | 60x60x16 |
| HVK050350C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 350 | 60x60x16 |
| HVK050400C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 400 | 60x60x16 |
| HVK050450C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 450 | 60x60x16 |
| HVK050500C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 500 | 60x60x16 |
| HVK050550C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 550 | 60x60x16 |
| HVK050600C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 600 | 60x60x16 |
| HVK050650C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 650 | 60x60x16 |
| HVK050700C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 700 | 60x60x16 |
| HVK050750C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 750 | 60x60x16 |
| HVK050800C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 800 | 60x60x16 |
| HVK050850C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 850 | 60x60x16 |
| HVK050900C | 1 Pcs. | Vickers | HV 50 | Steel | HW approx. 900 | 60x60x16 |
| | | **HV 100** | | | | |
| HVK100080C | 1 Pcs. | Vickers | HV 100 | Aluminum | HW approx. 80 | 60x60x16 |
| HVK100110C | 1 Pcs. | Vickers | HV 100 | Aluminum | HW approx. 110 | 60x60x16 |
| HVK100130C | 1 Pcs. | Vickers | HV 100 | Aluminum | HW approx. 130 | 60x60x16 |
| HVK100170C | 1 Pcs. | Vickers | HV 100 | Aluminum | HW approx. 170 | 60x60x16 |
| HVK100200C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 200 | 60x60x16 |
| HVK100250C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 250 | 60x60x16 |
| HVK100300C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 300 | 60x60x16 |
| HVK100350C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 350 | 60x60x16 |
| HVK100400C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 400 | 60x60x16 |
| HVK100450C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 450 | 60x60x16 |
| HVK100500C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 500 | 60x60x16 |
| HVK100550C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 550 | 60x60x16 |
| HVK100600C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 600 | 60x60x16 |
| HVK100650C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 650 | 60x60x16 |
| HVK100700C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 700 | 60x60x16 |
| HVK100750C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 750 | 60x60x16 |
| HVK100800C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 800 | 60x60x16 |
| HVK100850C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 850 | 60x60x16 |
| HVK100900C | 1 Pcs. | Vickers | HV 100 | Steel | HW approx. 900 | 60x60x16 |

| Item No. | Unit | Description | | | | |
|---|---|---|---|---|---|---|
| | | **Test diamonds Makro** | | | | |
| | | **Description** | | **Length** | **Ø** | |
| QER28000EA | 1 Pcs. | Test diamond Rockwell | | 28 mm | 6.5 mm | with DAkkS/ASTM Certificate |
| QER28400EA | 1 Pcs. | Test diamond Rockwell | | 28 mm | 3.8 mm | with DAkkS/ASTM Certificate |
| QEV28000EA | 1 Pcs. | Test diamond Vickers | ≥HV0.01 | 28 mm | 6.5 mm | with DAkkS/ASTM Certificate |
| QEV28000EZ | 1 Pcs. | Test diamond Vickers | ≥HV5 | 28 mm | 6.5 mm | with DAkkS Certificate |
| QEK28000EA | 1 Pcs. | Test diamond Knoop | | 28 mm | 6.5 mm | with DAkkS/ASTM Certificate |
| | | **Ball holders with pressed-in ball - Makro** | | | | |
| | | **Description** | | | | |
| QEB28010EA | 1 Pcs. | Ball holders with 1 mm ball, pressed-in | | | | with DAkkS/ASTM Certificate |
| QEB28025EA | 1 Pcs. | Ball holders with 2.5 mm ball, pressed-in | | | | with DAkkS/ASTM Certificate |
| QEB28050EA | 1 Pcs. | Ball holders with 5 mm ball, pressed-in | | | | with DAkkS/ASTM Certificate |
| QEB28100EA | 1 Pcs. | Ball holders with 10 mm ball, pressed-in | | | | with DAkkS/ASTM Certificate |
| QEB28116EA | 1 Pcs. | Ball holders with 1/16" ball, pressed-in | | | | with DAkkS/ASTM Certificate |
| QEB28108EA | 1 Pcs. | Ball holders with 1/8" ball, pressed-in | | | | with DAkkS/ASTM Certificate |
| QEB28104EA | 1 Pcs. | Ball holders with 1/4" ball, pressed-in | | | | with DAkkS/ASTM Certificate |
| QEB28102EA | 1 Pcs. | Ball holders with 1/2" ball, pressed-in | | | | with DAkkS/ASTM Certificate |
| | | **Ball holders with exchangeable ball - Makro** | | | | |
| | | **Description** | | | | |
| QEB28025AA | 1 Pcs. | Ball holders with 2.5 mm ball - exchangeable | | | | with DAkkS/ASTM Certificate |
| QEB28050AA | 1 Pcs. | Ball holders with 5 mm ball - exchangeable | | | | with DAkkS/ASTM Certificate |
| QEB28100AA | 1 Pcs. | Ball holders with 10 mm ball - exchangeable | | | | with DAkkS/ASTM Certificate |
| QEB28108AA | 1 Pcs. | Ball holders with 1/8" ball - exchangeable | | | | with DAkkS/ASTM Certificate |
| QEB28104AA | 1 Pcs. | Ball holders with 1/4" ball - exchangeable | | | | with DAkkS/ASTM Certificate |
| QEB28102AA | 1 Pcs. | Ball holders with 1/2" ball - exchangeable | | | | with DAkkS/ASTM Certificate |
| | | **Carbide balls for ball holders with exchangeable ball - Makro** | | | | |
| | | **Description** | | | | |
| QKG010025A | 1 Pcs. | Carbide balls 2.5 mm | | | | with DAkkS/ASTM Certificate |
| QKG010050A | 1 Pcs. | Carbide balls 5 mm | | | | with DAkkS/ASTM Certificate |
| QKG010100A | 1 Pcs. | Carbide balls 10 mm | | | | with DAkkS/ASTM Certificate |
| QKG011108A | 1 Pcs. | Carbide balls 1/8" | | | | with DAkkS/ASTM Certificate |
| QKG011104A | 1 Pcs. | Carbide balls 1/4" | | | | with DAkkS/ASTM Certificate |
| QKG011102A | 1 Pcs. | Carbide balls 1/2" | | | | with DAkkS/ASTM Certificate |
| | | **Test diamonds Mikro** | | | | |
| | | **Description** | | | | |
| QEV05000EA | 1 Pcs. | Indenter Vickers | | | | with DAkkS/ASTM Certificate |
| QEK05000EA | 1 Pcs. | Indenter Knoop | | | | with DAkkS/ASTM Certificate |
| QEB05010EA | 1 Pcs. | Ball holder with 1 mm ball, pressed-in | | | | with DAkkS/ASTM Certificate |
| QEB05025EA | 1 Pcs. | Ball holder with 2.5 mm ball, pressed-in | | | | with DAkkS/ASTM Certificate |
| QEB05050EA | 1 Pcs. | Ball holder with 5 mm ball, pressed-in | | | | with DAkkS/ASTM Certificate |
| | | **Poster of hardness comparison table** | | | | |
| | | **Description** | | | | |
| QVV0061 | 1 Pcs. | Poster of hardness comparison table, German | | | | |
| QVV0062 | 1 Pcs. | Poster of hardness comparison table, English | | | | |

# Notes

# Notes

# ATM Qness GmbH, Mammelzen & Golling, General Terms and Conditions of Business and Delivery

**1. General remarks**

1.1 Deliveries and services are performed exclusively on the basis of the following General Terms and Conditions of Delivery. They form a component of all contracts entered into and also apply to all future business relationships, even if they are not expressly agreed again.

1.2 The Customer acknowledges these General Terms and Conditions when it places an order, and no later than upon acceptance of the delivery or service.

1.3 Any contrary terms and conditions or divergent counter-confirmations from the Customer will have no binding effect on us, even if we do not expressly object to them. They require our express written acknowledgement to take legal effect.

1.4 Any addenda, amendments or ancillary agreements require our written confirmation to take legal effect. The same applies to the revocation of the written form requirement.

**2. Offer and conclusion of contract**

2.1 Catalogues, promotional brochures, price lists, cost estimates and offers are subject to confirmation and non-binding. All documents in this respect, such as drawings, typical analyses, dimensional data etc. are to be treated as approximate unless expressly designated as binding. We reserve our right of ownership and copyright to catalogues, drawings, cost estimates and other documents; and they may not be made available to third parties.

2.2 The Customer is liable for the correctness and completeness of specified dimensions and Customer samples as well as the correctness of documents to be provided by it, which include drawings, instructions, samples and the like as well as other information that affects the suitability of the items ordered for the intended application. The Customer is further liable for any infringement of third-party patent rights or intellectual property rights arising from the use of these documents. In that respect the Customer will indemnify us against any liability claims brought by third parties. We are not obliged to check whether the execution of any documents provided to us in this capacity infringes any third-party rights.

2.3 Material samples or Customer samples are to be delivered to us by the Customer free of charge. We may destroy any material samples submitted unless an express request for their return is made at the time of their delivery or within four weeks of us receiving them. The party submitting the material samples is liable for all risks associated with their transportation, storage and processing. This applies in particular to any damage that the material sample causes itself or in combination with any substances with which it comes into contact (toxic, corrosive, explosive materials), unless liability under clause 10.1 applies. We will invoice the analysis of material samples on the basis of the effective applicable hourly rates. If the analysis leads to a sale, the analysis costs will be offset against the purchase price.

2.4 The contract will only come into force when we provide written confirmation of the order and in accordance with the content of this confirmation, or upon acceptance of the delivery by the Customer. If no written confirmation is made, our delivery notes or invoices will additionally serve as order confirmations.

2.5 We reserve the right to make technical modifications to the subject matter of the contract during the delivery period, including after issue of the order confirmation, provided this is reasonable for the Customer balanced against our interests in the modification. The same applies to standard industry variations in weights and measures.

2.6 Spoken promises by and arrangements with our employees shall only bind us to the extent that these have been confirmed by us.

**3. Deliveries**

3.1 The delivery times set out in the order confirmations are non-binding, approximate information. They are only binding if we have expressly designated them as binding.

3.2 The delivery period commences with the date of the written order confirmation; if, at this time, there are any outstanding issues requiring clarification, the delivery period only commences after all such issues have been clarified. If advance payments have been agreed, the delivery period does not start until receipt of the first payment.

3.3 The delivery period will be deemed to have been complied with if the item to be delivered has left our plant or readiness for dispatch has been communicated before or on the date of expiry of the agreed delivery period.

3.4 In justified exceptional cases, and in particular for operational reasons, part deliveries and part services may be performed subject to advance notice. These will be invoiced separately.

3.5 We will not be liable for any delays to deliveries and services due to force majeure or other events over which we have no influence and for which evidence that they affect the completion or delivery of the subject matter of the delivery can be adduced – these include strike, lock-out, official directives, material shortages, non-availability or non-deliverability of goods etc. – including such circumstances affecting our own suppliers, even where binding periods and dates have been agreed and also during any period of default. We will notify the Customer of the commencement and termination of such hindrances without undue delay. In the event of temporary impairments, we are entitled to postpone the deliveries or services for the duration of the hindrance plus a reasonable lead time. Should performance become permanently impossible, we have the right to withdraw from unfulfilled part of the contract in full or part. The Customer may demand a declaration from us as to whether we intend to withdraw from the contract or deliver within a reasonable period. If we do not provide such a declaration and the Customer feels that it is unreasonable to expect it to accept delivery due to the delay, the Customer may withdraw from the contract.

3.6 The Customer bears sole responsibility for the suitability of the installation location for the supplied goods, for procurement of all necessary permits and for compliance with all planning, building and company regulations as well as for the preparation of the installation location, including the erection of any necessary foundations and the performance of all preliminary work necessary for the delivery and assembly or installation of the goods. The Customer also bears sole responsibility for the availability of the installation location with the necessary lifting and installation tools.

3.7 Our performance is subject to correct and timely delivery to us by our suppliers at all times. This reservation regarding correct and timely delivery by our suppliers is subject to the proviso that we entered into a corresponding covering transaction in good time and/or we are not responsible for the delayed delivery by our suppliers.

3.8 If we are responsible for not meeting agreed binding deadlines or dates, or we are in default of delivery/service, the Customer is entitled to withdraw from the contract after the expiry of an appropriate grace period; any further obligation to pay compensation is governed under clause 10 of these General Terms and Conditions.

3.9 If the Customer is in default in acceptance, we are entitled to demand compensation for non-performance in the amount of 15% of the agreed order value, without prejudice to the option to prove a greater loss. This is subject to an appropriate grace period being set along with a notice of potential rejection and subsequent withdrawal from the contract. For its part, the Customer reserves the right to provide evidence that no loss was sustained, or that the loss was substantially lower. In the case of Customer-specific products and/or systems, the loss is in principle the contract value less any advance payments made. The option to provide evidence of a higher or lower loss is reserved.

**4. Shipping and transfer of risk**

4.1 The place of performance for delivery is the location of our respective dispatching plant (INCO terms as amended from time to time: FCA dispatching plant).

4.2 Shipping is always performed at the Customer's own risk, including where partial shipments are made or we are rendering other services such as payment of shipping costs or carriage.

4.3 In the absence of any specific instructions, packaging and the selection of the transport route and means of transport is at our discretion. If the goods are accepted by the rail company, postal service, freight carrier or other transport company with no objections, this serves as a confirmation that the packaging is in a flawless condition on dispatch and excludes any liability on our part for any damage or loss incurred en route due to improper packaging or loading, unless we are subject to strict liability for intentional misconduct or gross negligence.

4.4 The risk of accidental destruction or accidental deterioration of the goods passes to the Customer no later than at the point of handover of the goods to the haulier, the railways or other freight carrier, and no later than on dispatch from our warehouse or, in the case of direct delivery, on dispatch from our dispatching plant – e.g. also for CPT and CIP transactions. If the goods are to be collected by the Customer, the risk passes to the Customer on issue of the notification informing the Customer that the goods are ready for collection.

4.5 Any goods accepted prior to dispatch are deemed delivered pursuant to the agreed terms.

4.6 If dispatch or acceptance is delayed at the Customer's request or for reasons for which it is at fault, the risk of accidental destruction or accidental deterioration passes to the Customer on the date when we communicate the first and initial notification of readiness for dispatch or notification of acceptance in writing or verbally. In this case we are entitled to charge storage costs of 1.0% of the invoice amount for each month of the delivery delay, starting one month after notification of readiness for dispatch. The Customer reserves the right to furnish proof that no costs were sustained, or that the costs were substantially lower.

4.7 In the event of a delay in acceptance by the Customer, we may assert our right under clause 3.9 or freely dispose of the item or items for delivery and supply an equivalent item or items at the contract terms instead

4.8 We are entitled to insure the transport risk and invoice these costs to the Customer unless the Customer instructs otherwise in writing.

**5. Prices and payment terms**

5.1 Prices are quoted on a strictly net basis ex works or ex warehouse – also net of the costs of packaging, insurance, export/import or other supplementary costs – and exclusive of VAT at the applicable rate.

5.2 If the conclusion of the contract and the date of delivery are more than four months apart, we may invoice the prices applicable on the date of delivery, unless otherwise agreed. If this is more than a minimal price increase, the Customer may withdraw from the contract.

5.3 Increase of wages, procurement prices, freight costs, taxes, charges or other costs that result in price increases between the conclusion of the contract and delivery, or the emergence of equivalent new, unforeseen costs, entitle us to adjust the purchase price accordingly to the extent permissible by law.

5.4 After conclusion of the contract we are entitled to request a deposit of a reasonable amount. In the case of Customer-specific systems/apparatus, this will be at least 50% of the contract value.

5.5 In the absence of any other express agreement, payment will fall due on receipt of the invoice. Payments are to be made strictly net no later than 30 days after the invoice date. For Customer-specific systems/apparatus at least 50% of the order value will fall due with the request for a deposit. The rest will be invoiced on issue of the notification of readiness for delivery and is payable immediately.

5.6 In the case of default we are entitled to charge interest at the level of interest for commercial loans calculated by our company bank, and no less than interest of 5 percentage points above the base rate applicable on the day on which the event of default commenced (EURIBOR). The Customer reserves the right to provide evidence that no loss was sustained, or that the loss was substantially lower. We reserve the right to assert further claims for damages resulting from delayed payment.

5.7 All of our receivables are payable immediately including where bills of exchange or cheques have been presented, if the terms of payment are breached without justification or we become aware of a substantial deterioration in the Customer's asset position after the contract is concluded. We are entitled to perform any deliveries and services outstanding at that point only against advance payment(s) or security deposit(s) or to reduce or cancel any assured commercial loans. If no advance payment(s) or security deposit(s) have been made on expiry of a reasonable grace period, we are entitled to withdraw fully or partly from the contract. In such a case we expressly reserve the right to assert claims for any expenditure incurred unnecessarily, loss of profits and other losses.

5.8 The Customer is only entitled to assert a right of set-off or retention, including in claims for defects or counterclaims, if the counterclaims are undisputed or established at law.

**6. Commissioning Customer-specific systems/apparatus**

6.1 Compliance with the agreed service features is always inspected at the place of manufacture.

6.2 If our services include assembly and commissioning, the Customer is required to prepare all installations, facilities and/or other factors necessary for the assembly of the system and its proper commissioning in full and in good time unless these preparatory tasks are included in our scope of services under an express written agreement. In this respect the duties set out at clause 3.6 also apply.

6.3 The provision at 6.2 notwithstanding, the Customer will be liable for the following during assembly and commissioning:

a) that our employees can commence their work as soon after their arrival as possible and can perform their tasks expeditiously during regular working hours and, if we deem such to be necessary, also outside regular working hours;
b) all statutory stipulations and safety regulations are complied with and the necessary facilities for the performance of the installation work are available;
c) the access routes to the installation location are suitable for deliveries to be performed;
d) the planned location for the assembly and operation of the system is suitable;
e) the necessary lockable storage facilities for material, tools and other accessories are available and accessible;
f) other auxiliary personnel, additional standard tools, industrial auxiliary materials (e.g. fuel, oils and lubricants, cleaning and other incidentals, gas, water, electricity, compressed air, heating, light etc.) and the Customer's standard measuring and test equipment are available promptly and at no charge;
g) the goods and products delivered by us for the assembly are at the correct location at the beginning of and during the assembly work.

6.4 The Customer bears sole liability for the risk of a breach of the duties set out at clause 6.3.

**7. Retention of title**

7.1 We reserve title to all goods supplied by us until the Customer has settled all claims arising under the business relationship, including any future claims from contracts entered into at the same time or subsequently, from any current account balance as well as until the absolute release from any contingent liabilities entered into in the Customer's interest.

7.2 The Customer must handle and store any goods subject to the retention of title with care and perform any standard inspection, servicing and maintenance work required at its own expense. The Customer may neither pledge the goods subject to the retention of title nor transfer them by way of security during the period of retention of title. Any access to the goods subject to the retention of title by third parties, for example by way of pledging or confiscation, as well as any damage or destruction must be reported to us in writing without undue delay.

7.3 If the Customer acts in a manner that is in breach of contract, in particular in the case of delayed payment of securitised claims, we are entitled to repossess the goods subject to the retention of title. Such repossession only represents a withdrawal from the contract if we confirm this in writing. Following repossession we are entitled to sell the goods and the proceeds will be set off against the Customer's liabilities after deduction of reasonable sales expenses.

7.4 a) The Customer is entitled and authorised to sell the goods subject to the retention of title in the course of ordinary business, which does not include what is known as the cheque-bill-of-exchange procedure. If the Customer is in default in respect of payments arising under the business relationship with us, we may forbid that the goods be sold on. If the Customer allows its purchaser delayed payment of the purchase price, it may only sell the goods on if it, too, retains title to the goods sold.

b) The Customer hereby assigns to us the purchase price claims or other claims for consideration accruing to it against its purchaser under the selling-on of the goods or other selling business including all ancillary rights. These serve as security to the same extent as the goods subject to the retention of title. The Customer is only entitled and authorised to sell on or otherwise dispose over the goods subject to the retention of title if it has been established that the claims arising thereunder are transferred to us, and in particular that no prohibition on assignment exists between the Customer and its purchaser.

c) If the Customer sells the goods subject to the retention of title along with other goods not supplied by us, the assignment of the claim from the sale only applies to the level of the invoice value of the respective goods subject to the retention of title sold. Where goods in which we have a co-ownership share are sold, the claim will be assigned to the value of this co-ownership share. If the assigned claim is included in a current account, the Customer hereby assigns to us a proportion of the balance corresponding to this claim – including a corresponding share of the closing balance – from the current account. If an interim balance is drawn up and it is agreed for this to be carried forward, the claim accruing to us per se under the foregoing provision is to be treated as if assigned to us for the purposes of the next balance.

d) The Customer is authorised to collect the claims assigned to us until we revoke such authorisation. We may not exercise this right of revocation as long as the Customer fulfils its payment obligations under the business relationship with us and provided we do not become aware of any circumstances which might substantially reduce the Customer's creditworthiness. If the prerequisites for exercising the right of revocation apply, we may request that the Customer assign to us any claims for surrender vis-à-vis its purchaser or notify us of the assigned claims and their debtors, provide all information necessary for collecting these claims, hand to us the associated paperwork and notify the debtors of the assignment. Additionally, we are authorised to give notice of the assignment to the debtors.

7.5 The Customer is entitled to process the goods subject to the retention of title in the ordinary course of its business, provided it is not in default of payment. Where the goods subject to the retention of title are processed or remodelled, we will be deemed the manufacturer of the newly created goods without being subject to any obligations. The processed or remodelled goods are deemed goods subject to the retention of title as set out at clause 7.1. Where the Customer processes the goods subject to the retention of title in combination with other items not belonging to us, we acquire co-ownership in the new item in the proportion of the value of the goods subject to the retention of title to the total value of the other items used; the time of processing is authoritative. If the goods subject to the retention of title are mixed, blended or combined with other items, and as a consequence our ownership of the goods subject to the retention of title is extinguished, the Customer hereby transfers to us the rights of ownership of the mixed or combined items accruing to it, or of the unified item in the proportion of the value of the goods subject to the retention of title to the total values of the other mixed, blended or combined items; the time at which the event occurs is authoritative. The Customer will also store the items co-owned by us under the foregoing provisions at no cost to us. The co-ownership shares arising under this clause are subject to the provisions of the whole of clause 7. in the context of goods subject to the retention of title.

7.6 At our request the Customer is obliged to provide information on the whereabouts of the goods subject to the retention of title at any time and on any claims arising from the selling-on of the goods or other further disposal.

7.7 Should the value of the existing security assigned to us exceed the secured claims by a total of more than 10%, we are obliged, if requested by the Customer, to release securities of our choosing to the same level.

7.8 If the retention of title set out in the foregoing provisions is not legally valid under the law of the country in which the goods subject to the retention of title are located, such security as most closely resembles this and is allowed under the law of this country will be deemed agreed. If the Customer is required to act in this context, the Customer is required to perform such acts at our request.

**8. Warranty**

8.1 The Customer must inspect the delivered goods upon receipt, and no later than within ten working days, for defects and, if agreed, to examine any guaranteed characteristics and report any identified defects without undue delay, and no later than within a further five working days. Where goods are delivered, the goods must be inspected immediately on receipt in respect of transport and packaging damage as well as variations in terms of quantity and dimensions. Any variations must be noted on the bill of lading or delivery note. Concealed defects must be reported in writing as soon as they are discovered. If the Customer fails to report defects within the stipulated time, the goods will be deemed defect-free and contractually compliant. In terms of quality, only our description of services in the order confirmation or the manufacturer's product description is deemed agreed. Public statements, testimonials or advertisements do not count as contractually binding information about the quality of the goods. Any deviations from an instruction manual, specification or other functionality described in the contract will only be recognised as a defect if they result in a substantial impairment of use. We must be notified of any returns in advance.

The rectification of defects caused by normal wear and tear, other influences or operator error are excluded from the warranty unless covered by binding statutory claims. The same applies to any defects arising that are attributable to a modification of the goods not performed by us. We provide no warranty that the products supplied correspond to the Customer's specific application scenarios, or work together with other of the Customer's goods, or other manufacturers' goods, without failure or impairment. We accept no liability for advisory obligations. Consequently, any liability for assisted calculations, recommendations, suggested solutions etc. which are dependent on the Customer's systems or relate thereto is excluded.

8.2 The Customer has a right to subsequent performance for defective products by way of rectification of the defect or delivery of a defect-free replacement item at our discretion. If subsequent performance is unsuccessful, the Customer may choose to demand either a reduction in the consideration or the rescission of the contract. In the event of a minor contractual breach, in particular minor defects, the Customer will have no right of rescission. If the Customer exercises its right to rescission following unsuccessful subsequent performance, it has no additional claim to compensation due to the defect. If the Customer brings any claims for compensation following unsuccessful subsequent performance, the Customer will retain the goods if it is reasonable for it to do so. The claim for compensation is limited to the difference between the purchase price and the value of the defective goods. This does not apply if we breached the contract in bad faith. We may choose whether to render the subsequent performance at the place of installation or at our head office. If the subsequent performance is rendered at the place of installation, the Customer must provide our representative with unrestricted access to the purchased item both as regards time and place of access. Clause 6.3 applies in this respect. The Customer may further demand that warranty work is only performed during the regular business hours for the respective location. If the Customer requests that we perform warranty work outside our regular business hours, the Customer must pay any additional costs.

8.3 In the event of third party products, our liability is limited to the assignment of the warranty claims against our own supplier accruing to us. The warranty period is limited accordingly to the term that we are granted by our own supplier.

8.4 Warranty claims will expire within 24 months from the transfer of risk or the acceptance of the service. The warranty period relates to goods deployed in a laboratory that operates a single shift. If multiple shifts are worked, this period will be reduced accordingly to a minimum of twelve months. For customer-specific systems/apparatus, as well as for repairs and spare parts the warranty period is limited to twelve months.

8.5 The foregoing paragraphs contain the full extent of the warranty for our products and goods. Any further liability is governed solely by the provisions in clause 10. of these General Terms and Conditions.

8.6 The Customer is liable for the proper disposal of the supplied goods after the cessation of use in accordance with statutory provisions and at its own expense. The Customer will relieve the supplier of the statutory duties to take back old appliances and associated third party claims. If the Customer passes the supplied goods on to commercial third parties, it must impose on that party a contractual duty to properly dispose of the goods after the cessation of use in accordance with the statutory provisions and at that party's expense and to impose a corresponding obligation on any further parties to which the goods pass. If the Customer fails to do so when passing goods to a third party, it is obliged to take back the goods at its expense after the cessation of use and to properly dispose of them in accordance with the statutory provisions. The manufacturer's claim for the Customer to take on the goods and relieve it from its obligations will not expire until two years after the Customer ultimately ceases to use the appliance. The two-year period during which expiry is postponed begins no earlier than upon written notification by the Customer to the manufacturer regarding the cessation of use.

**9. Software**

9.1 The warranty for software is based on the above provisions in clause 8 with the following modifications: We will provide a warranty for the compliance of the software provided to the purchaser with our program specifications provided the software was installed on the systems envisaged by us in accordance with our stipulations. The warranty only covers software defects that can be readily reproduced. We undertake to rectify all non-insubstantial defects affecting usage in accordance with the contract; however, we reserve the right to select the method of rectification (installation of an improved software version or instructions on working around the defect).

9.2 The Customer is granted a non-exclusive and non-transferrable usage right over programs and associated documentation that are required for proper and internal use of the delivered product. The purchaser will accrue no further rights to programs and documentation, and in particular we will remain the copyright holder. The Customer is not permitted to provide third parties with access to programs, documentation and any subsequent amendments, or to copy, otherwise reproduce, decompile, disassemble or reverse-engineer such without our prior written consent.

**10. Liability**

10.1 We accept liability for any losses attributable to wilful misconduct or gross negligence on the part of our statutory representatives or vicarious agents or where contractually assured warranties or qualities of the goods that are intended to safeguard the Customer against atypical risks of loss are missing. In the case of ordinary negligence, we will only accept liability if material contractual duties are breached or if insurance cover is in place, and this will be limited to loss that was foreseeable at the time when the contract was entered into. No liability will be accepted for any further consequential losses. In particular, liability for any direct or indirect loss of any kind other than that set out here, including consequential loss, loss of use, income or profits and futile expenditure, additional expenditure and third-party claims is expressly ruled out, including in cases of negligence.

10.2 Liability is excluded in the case of defects caused by external factors such voltage fluctuations, improper installation, wear and tear, operation and use/ maintenance/ changes to the goods by the Customer or third parties commissioned by the Customer, irrespective of the legal grounds.

10.3 In the absence of agreements to the contrary, any fixed compensation claims will be limited to a maximum of 5% of the purchase price.

10.4 The above limitations of liability have no bearing on any claims brought by the Customer under product liability legislation. Furthermore, the limitations on liability do not apply to personal injury, damage to health or death of the Customer or its vicarious agents and other third parties attributable to us.

**11. Intellectual property rights and copyright**

11.1 The products, all specifications, drawings, descriptions and illustrations are protected by intellectual property rights by the seller and subject to an obligation of confidentiality, unless they have been or will be published by the seller. The buyer will not disclose this information to anyone, except for the purpose of using the products in the course of its business.

11.2 The sale of the products does not bestow on the purchaser any rights or licences under any patent, industrial design or copyright, except for non-exclusive use of the product in the course of its own business.

11.3 If a third party brings a justified claim against the Customer due to the breach of an intellectual property right or copyright (hereinafter referred to as Protective Rights) due to the goods supplied by us or the contractually compliant use thereof, we will only be liable to the Customer subject to the following conditions:

- We will choose, at our expense, either to obtain a usage right for the goods, to modify the goods such that the Protective Right is not infringed or replace the goods. If this is not possible at reasonable terms, we will take the goods back and refund the purchase price.
- The obligations set out above shall only apply if the Customer notifies us of any claims brought by third parties in writing and without undue delay, does not acknowledge a breach of the Protective Rights to the third party and reserves all defensive measures and settlement negotiations for us. Should the Customer cease to utilise the product owing to loss mitigation or other significant reasons, the Customer will point out to the third party that the cessation of utilisation is no acknowledgement of any infringement of any Protective Rights.

11.4 If the use of the product causes a breach of a patent, industrial design or copyright and if this breach is based on designs, specifications or instructions made by the purchaser, on the operation of the system by the purchaser in which the products are included, or manufacturing processes applied thereto, the purchaser will defend the claim, which must be notified to it without undue delay, at its own expense or to settle the claim by mutual agreement and to reimburse all losses and costs incurred by the seller as a result of such breach. This also applies if the infringement of the Protective Right is caused by an unforeseeable application on the part of the buyer or due to the products being modified or deployed with products not supplied by us. Any further claims against us will not be acknowledged. This does not apply e.g. where mandatory liability exists due to product liability, wilful misconduct, gross negligence or the infringement of material contractual obligations. The Customer also retains the right to withdraw from the contract under the foregoing provisions.

**12. Closing provisions**

12.1 The place of jurisdiction for all disputes in transactions with merchants is the court responsible for Salzburg (location Golling) or Altenkirchen (location Mammelzen). This also applies to lawsuits against bills of exchange and checks. However, we reserve the right to bring a claim against the Customer at any other place of jurisdiction permitted by law. The contract is subject to Austrian (Golling site) and German (Mammelzen site) law. The UN Convention on Contracts for the International Sale of Goods (CISG) does not apply.

12.2 The Customer may only transfer the rights and obligations arising under this contract to third parties with our written consent. Such consent is not required if the assignment is made in the course of an effective extended retention of title that the Customer has agreed with a third party under the provisions of clause 7.

12.3 If individual provisions of these terms and conditions or parts thereof become invalid, this will have no bearing on the validity of the remaining provisions. An invalid provision of these terms and conditions will be replaced by a valid provision that most closely corresponds to the commercial intent of the invalid provision.

# Notes

# Expiry date of consumables

| | Product | Expiry date |
|---|---|---|
| | | Years |
| **Cutting** | Abrasive cut-off wheels | 2 |
| | CBN cut-off wheels | 2 |
| | Diamond blades | 2 |
| | Cup grinder | 2 |
| | Coolant | 2 |
| | Additives for coolants | 2 |
| | Filter fleece & filter bags | 2 |
| **Hot Mounting** | Bakelite | 2 |
| | EPO-Max | 2 |
| | EPO black | 2 |
| | Duroplast | 2 |
| | Thermoplast | 2 |
| **Cold Mounting** | Methacrylate z.B. KEM 15+, 20, 30, 35, 60 | 1 |
| | Epoxy resin KEM 90 | 1 |
| | Mounting moulds | 2 |
| | Releasing agent | 2 |
| **Grinding/Polishing** | Grinding wheels | 2 |
| | GALAXY Diamond grinding discs | 2 |
| | SiC grinding foils | 1 |
| | SiC grinding paper without self-adhesive back/ with foil back | 2 |
| | SiC grinding paper self-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 |

## Remarks

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

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

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

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

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

This might influence the functionality over time.

**The expiry date starts from shipping date.**

Complaints are checked by our quality management and application team.

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

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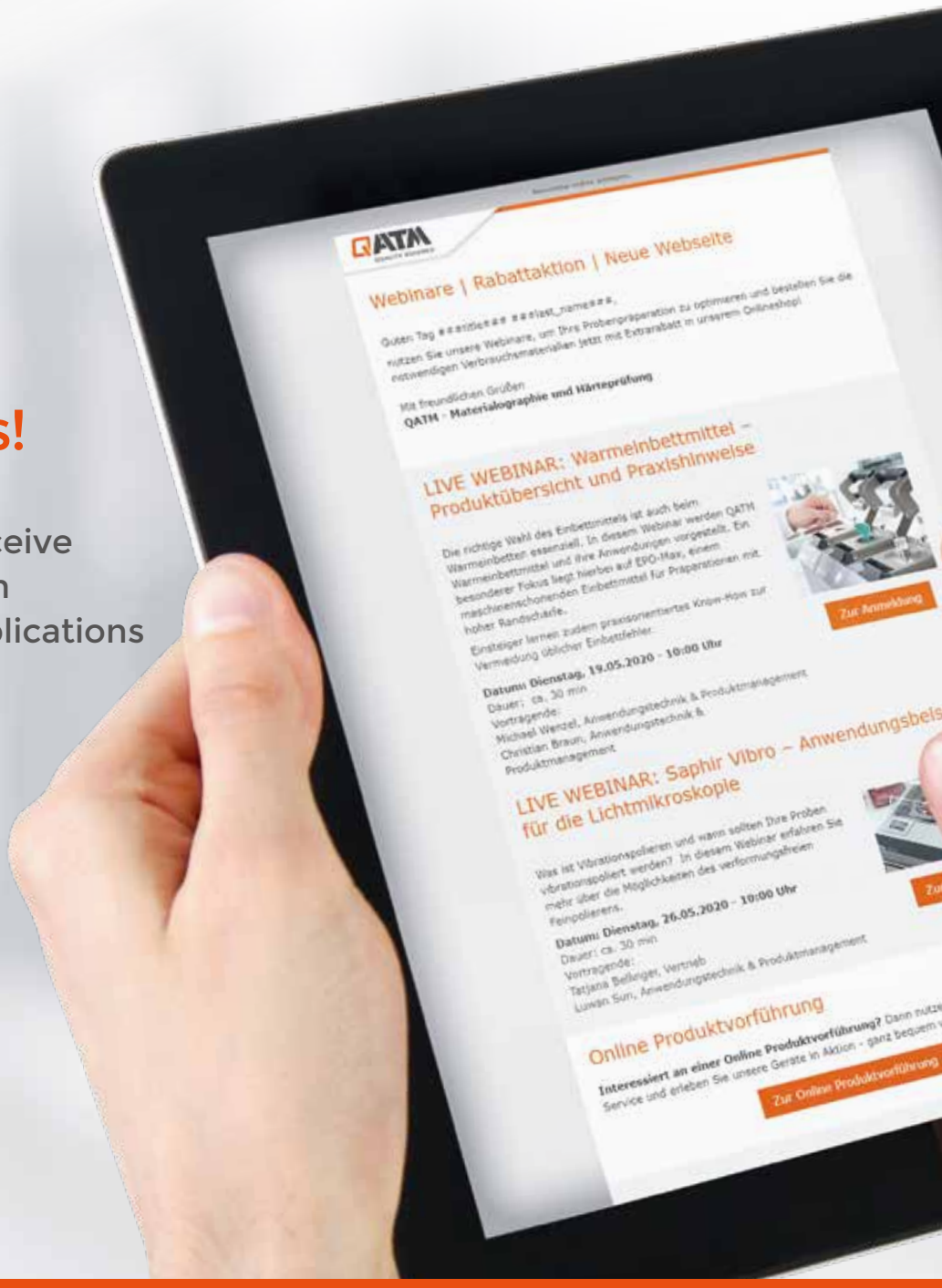


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