

CONSUMABLES CATALOG

Optimize your process with Struers consumables



REDUCE YOUR PLANE GRINDING TIME BY 30%

with the new MD-Alto

- ✓ Reduce your preparation time as compared
 with methods using SiC Foils or Papers.
- Experience superior preparation results when working with ductile materials.
- Maximize your reproducibility with consistently high removal.
- Reduce your environmental impact and minimize your waste.



CONSUMABLES CATALOG

Mineralogy

General Purpose

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ANY CONSUMABLE FOR YOUR MATERIAL

As the world's leading materialographic supplier, we provide a full range of materialographic consumables and accessories, covering any type of material. All of our products are designed to ensure that you get outstanding quality, reproducibility, and usability – for efficient preparation and reliable results.

In the Struers Consumables Catalog, you can find consumables and accessories for every area of materialographic preparation:

- Cutting
- Mounting
- · Grinding and Polishing
- Verification
- Accessories

Cutting



Mounting



Grinding/Polishing



Verification



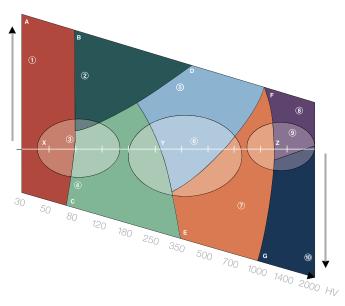


A METHOD FOR ANY MATERIAL

Optimize your process - minimize your waste

Are you looking for perfect results from your true structure? Or perhaps a few artifacts are acceptable as long as they do not disturb your analysis? No matter your preparation goal, we will help you optimize your grinding and polishing process – without over-processing. This means increasing the quality of your specimen up to your goal by eliminating artifacts such as deformation, edge rounding, scratches or pull-outs, while minimizing process waste with fewer, shorter steps.

Find the optimal process for your material based on its hardness and ductility



Find the hardness of your material on the X-axis, then move up or down the Y-axis, depending on its ductility. Learn more and see optimized methods for your material at <u>Struers.com</u>

Take a systematic approach to accurate, reproducible results

Trial and error is neither an accurate nor efficient approach. Based on extensive academic training and hands-on experience, our materialographic experts have developed optimized methods for any material. Simply tell us your preparation goal, and we will customize our standard method to your equipment, requirements and operator capabilities, whether your focus is on quality, safety, speed, or efficiency.

A systematic approach is key to achieving accurate, repeatable results and makes troubleshooting easier. Struers also helps you minimize random errors and maximize your reproducibility. Our high quality consumables deliver the same performance every time and help to absorb sensitivity to changes in conditions. We also provide training in methods and techniques with onsite and online courses.



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CHOOSE A PARTNER, NOT JUST A SUPPLIER

Maximize your uptime with consumables on delivery

Reduce your risk and keep inventory costs down with our robust global supply chain. For fast, reliable delivery, we have distribution centers across the U.S., Japan, China, Germany and Denmark.

Our ISO 9001-certified LEAN production and strict quality control ensure all consumables perform as promised and contribute to a safer workplace. You can also minimize your environmental impact thanks to our ISO 14001 certification for environmental management and commitment to low-carbon shipping.

Get total support – whatever, whenever

Grinding is just one part of the story. Our materialographic experts can help you optimize your end-to-end process through Value Stream Mapping. There are also Struers consumables and equipment for any stage in the process. These are designed to work together so you get the most out of your investment.

In fact, we are here to help you with every aspect of materialography. Whether you need to boost your skills with onsite and online training or maximize your uptime with service and support, we offer a complete solution for ensuring certainty.





CUTTING

Struers Cutting Consumables

Perfect materialographic cutting requires precision without overheating or material deformation, usually combined with speed. Therefore, Struers machines and consumables are designed to work together to control all the parameters of the cutting process, such as cooling, rotational speed, and feed speed. In this way, you get the most out of your investment.

Intelligent Cut-off Wheels

Struers cut-off wheels have a built-in compensation to changing wear characteristics throughout its life. The abrasive density of our wheels varies across the wheel radius, with increasing density toward the center. This results in more constant wear characteristics, which can be converted into less wear and improved control of the cut.

Hexagonal 3D Cut-off Wheels

Struers 3D cut-off wheels have a unique, patented hexagonal surface. The surface of the wheels contributes to a more efficient cooling and helps to eliminate cutting debris buildup. This results in lower heat damage and less time spent in cleaning.

Struers consumables are designed to get the most out of your Struers equipment.





SELECTION GUIDE FOR CUT-OFF WHEELS

Struers offers the market's most comprehensive ranges of purpose-designed cut-off wheels for materialographic sectioning. Our cut-off wheels are thoroughly tested and optimized for use on Struers cut-off machines.

The cut-off wheels are also applicable for other machines in the market with similar specifications.

How to select the correct cut-off wheel:

If the hardness of the material is known, use the table at the top of the page. In the table at the bottom, you will then find the cut-off wheel codes for the specific cutting machines. If the hardness of the material is not known, find a suitable cut-off wheel according to material group in the table below.

- 1. Go upwards on the y-axis of the overview to the right until you find the hardness value of your material.
- 2. Move to the right, until you cross the material group that fits your application. If you only have one material to cut, find the wheel where your material's hardness is placed as close to the middle of the interval as possible. For two or more materials, see if you can find a wheel that covers the whole hardness range.
- 3. Find the number (I-XI) of the material group, and see the table below for the code of the correct wheel for your cut-off machine.



	Abrasive	Bond
•	SiC	Bakelite
	Al203	Bakelite
	CBN	Bakelite
•	Diamond	Bakelite Hard and ductile materials
•	Diamond	Metal Hard and brittle materials
•	Diamond	Metal electroplated Mounted materials, predominately resin

Cut-off machine	Std. wheel size*
Magnutom-500/-5000	508 x 3.5 x 32
Exotom-100/-150	432 x 3.0 x 32
Magnutom-400/-500/-5000	
Axitom-5/400	400 x 3.0 x 32
Axitom-5	350 x 2.5 x 32
Labotom-15	350 x 2,5 x 32
Exotom/Unitom-2/-5/-50	350 x 2,5 x 32
Unitom/Discotom -50/-60/-65/-100	300 x 2,0 x 32
- <u>·</u> ····	250 × 4 5 × 22
Discotom-5/-6/-10/ Labotom-3/-5	250 x 1,5 x 32
Discotom/Labotom	235 x 1,5 x 22
Discoplan-TS	200 x 1,0 x 22

- 1) 406 x 1.8 x 32 2) 350 x 1.5 x 32
- 3) 356 x 1.5 x 32 4) 305 x 1.8 x 32 5) 305 x 1.5 x 32

Precision cut-off machine	Std. wheel size*
Secotom 1/-10/-15/-50-6/-20/-60**	200 x 0.8 x 22
Accutom-10/-100/-5/-50	150 x 0.5 x 12.7
Accutom-2	125 x 0.5 x 12.7
Minitom	125 x 0.5 x 12.7
Wheels with special sizes	100 x 0.3 x 12.7
	75 x 0.15 x 12.7

^{*} Diameter x Width x Bore in mm. ** On Secotom-1 only use M0D20 + B0D2

CUTTING



6) 350 x 1.8 x 32 7) Width = 1.3 8) Width = 1.1 9) Width = 0.8 10) Fiberglass reinforced 11) For hard and ductile materials, Ni-base alloys 12) 3D cut-off wheels

13) Width=0.6 14) Width=0.4 15) For sintered carbides in steel 16) Width = 2.4 17) Width = 3.2 18) Premium cut-off

10S20	10S20	30A20	30A20	50A20	50A20	50A20	B0C20	B0D20	M0D20 ¹³ M1D20 ¹³	E1D20
10S15	10S15	40A15 30A15	40A15 30A15	50A15	50A15	50A15	B0C15	B0D15	M0D15 M1D15	EOD15
30A13	30A13	30A13	30A13	50A13	50A13	50A13	B0C13	B0D13 ¹³	M0D13 ¹⁴ M1D13 ¹⁴	M1D13 ¹⁴
M1D13 ¹⁴	M1D13 ¹⁴	B0C13 ¹³	B0D13 ¹³	M0D13 ¹⁴ M1D13 ¹⁴	M1D13 ¹⁴					
These who	eels can be us	sed on both A	ccutom-2/-5/-	-50 and Secot	om-1/-10/-15	/-50-6/-20/-6	0 for cutting o	of	M0D10 M1D10	M1D10
small spec	cimens where	high precisio	n or minimum	material loss	is required.		J		M0D08 M1D08	M1D08



68A43 - Premium Cut-off Wheel



52A51 - Abrasive Cut-off Wheel



350 mm Abrasive Cut-off Wheels

Cutting Abrasive

	508 mm Abrasive Cut-off Wheels
40009160	Cut-off wheel 10S51 For cutting soft, non-ferrous materials (HV 30-300). Silicon carbide. Resin bond.
	508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009161	Cut-off wheel 30A51 For cutting of medium soft ferrous metals (<hv 300).="" aluminum="" bond.<="" oxide.="" resin="" td=""></hv>
	508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009162	Cut-off wheel 40A51 For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and softer ferrous metals with diameters above 150 mm. Aluminum oxide. Resin bond.
	508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009163	Cut-off wheel 42A51 For cutting of medium hard ferrous metals (HV 200-500), stainless steel and softer ferrous metals with diameters above 150 mm. Aluminum oxide. Resin bond. Fibre reinforced.
	508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009164	Cut-off wheel 50A51 For cutting of hard ferrous metals (HV 450 - 600). Aluminum oxide. Resin bond.
	508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009165	Cut-off wheel 52A51 For cutting of hard ferrous metals (HV 450 - 600). Aluminum oxide. Resin bond. Fibre reinforced.
	508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.
40009166	Cut-off wheel 60A51 For cutting of extra hard ferrous metals (>HV 600). Aluminum oxide. Resin bond.
	508 mm dia. x 3.5 mm x 32 mm dia. 3 pcs.
40009167	Cut-off wheel 62A51 For cutting of very hard ferrous metals (> HV 600). Aluminum oxide. Resin bond. Fibre reinforced.
	508 mm (20") dia. x 3.5 mm x 32 mm dia., 3 pcs.

432 mm Abrasive Cut-off Wheels 40009150 Cut-off Wheel 10S43 For cutting of soft, non-ferrous metals (HV 30 - 300). Silicon carbide. Resin bond. 432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs. 40009170 Cut-off Wheel 20S43

For cutting of very ductile metals (e.g. titanium) (HV 70 - 400). Silicon carbide. Resin bond.

432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.

	432 mm Abrasive Cut-off Wheels
40009151	Cut-off Wheel 30A43 For cutting of medium soft ferrous metals (< HV 300) and for general applications. Aluminum oxide. Resin bond.
40009152	432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs. Cut-off Wheel 40A43
40009132	For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. Aluminum oxide. Resin bond.
	432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009158	Cut-off Wheel 42A43 For cutting of case hardened and medium hard ferrous metals (HV 200 - 700), and for stainless steel. Fibre-reinforced. Aluminum oxide. Resin bond.
	432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009153	Cut-off Wheel 50A43 For cutting of hard ferrous metals (HV 450 - 600). Aluminum oxide. Resin bond.
	432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009154	Cut-off Wheel 52A43 For cutting of hard ferrous metals (HV 450 - 600). Fibre-reinforced. Aluminum oxide. Resin bond.
	432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009174	Cut-off wheel, Premium 58A43 For high volume cutting of hard ferrous metals (HV 450-600). With spiral pattern. Aluminum oxide. Resin bond.
	432 mm (17") dia. x 2.7 mm x 32 mm dia. 5 pcs.
40009155	Cut-off Wheel 60A43 For cutting of extra hard ferrous metals (> HV 600). Aluminum oxide. Resin bond
	432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009156	Cut-off Wheel 62A43 For cutting of extra hard ferrous metals (> HV 600). Fibre-reinforced. Aluminum oxide. Resin bond.
	432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009159	Cut-off Wheel, Hexagonal 66A43 For cutting of extra hard ferrous metals (>HV 600). With 3D hexagon pattern. Aluminum oxide. Resin bond.
	432 mm (17") dia. x 3.0 mm x 32 mm dia. 5 pcs.
40009175	Cut-off wheel, Premium 68A43

40009175 **Cut-off wheel, Premium 68A43**

For high volume cutting of very hard ferrous metals (HV >600). With spiral pattern. Aluminum oxide. Resin bond.

432 mm (17") dia. x 2.7 mm x 32 mm dia. 5 pcs.

400 mm Abrasive Cut-off Wheels

40000104 **Cut-off wheel 10S40**

For cutting of soft, non-ferrous metals (HV 30 - 300). Silicon carbide. Resin bond. 400 mm (16") dia. \times 3.0 mm \times 32 mm dia. 10 pcs.

40000105 **Cut-off wheel 20S40**

For cutting of very ductile metals (e.g. titanium) (HV 70 - 400). Silicon carbide.

400 mm (16") dia. x 3.0 mm x 32 mm dia. 10 pcs.

400 mm Abrasive Cut-off Wheels

40000106 **Cut-off wheel 30A40**

For cutting of medium soft ferrous metals (<HV 300). Aluminum oxide. Resin bond. 400 mm (16") dia. x 3.0 mm x 32 mm dia. 10 pcs.

350 mm Abrasive Cut-off Wheels

40009120 **Cut-off Wheel 10S35**

For cutting of soft, non-ferrous metals (HV 30 - 300) on Unitom (2.775 rpm), Axitom (1.950 rpm) and Labotom-15 (2.350 rpm). Silicon carbide. Resin bond.

350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.

40009121 **Cut-off Wheel 20535**

For cutting of very ductile metals (e.g. titanium) (HV 70 - 400) on Axitom (1.950 rpm) and Labotom-15 (2.350 rpm). Silicon carbide. Resin bond

350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.

40009122 **Cut-off Wheel 30S35**

For cutting of very ductile metals (e.g. titanium) (HV 70 - 400) on Unitom (2.775 rpm). Silicon carbide. Resin bond.

350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.

40009123 **Cut-off Wheel 20A35**

For cutting of soft ferrous metals, steel tubes and small pieces (HV 80 - 400) on Unitom (2.775 rpm) and Axitom (1.950 rpm), and for cutting of medium soft ferrous metals (<HV 300) and for general applications on Axitom (1.950 rpm). Aluminum oxide. Resin bond.

350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.

40009124 **Cut-off Wheel 30A35**

For cutting of soft ferrous metals, steel tubes and small pieces (HV 80 - 400) on Labotom-15 (2.350 rpm). For cutting of medium soft ferrous metals (<HV 300) on Unitom (2.775 rpm). For cutting of medium hard ferrous metals (HV 200 - 500) and stainless steel on Axitom (1.950 rpm). Aluminum oxide. Resin bond.

350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.

40009125 **Cut-off Wheel 40A35**

For cutting of medium soft ferrous metals (<HV 300) on Labotom-15 (2.350 rpm). For cutting of medium hard ferrous metals (HV 200 - 500) and stainless steel on Unitom (2.775 rpm). For cutting of hard ferrous metals (HV 300 - 700) on Axitom (1.950 rpm). Aluminum oxide. Resin bond.

350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.

40009126 **Cut-off Wheel 50A35**

For cutting of medium hard ferrous metals (HV 200 - 500) and stainless steel on Labotom-15 (2.350 rpm). For cutting of hard ferrous metals (HV 300 - 700) on Unitom (2.775 rpm). For cutting of very hard ferrous metals (HV 400 - 800) on Axitom (1.950 rpm). Aluminum oxide. Resin bond.

350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.

40009168 **Cut-off wheel 55A35**

For cutting of hard ferrous metals (HV 300 - 700) on Unitom (2.775 rpm) and for cutting of extra hard ferrous metals (HV 400 - 800) on Axitom (1.950 rpm). Special cut-off wheel for cutting of 3 mm wide slots. Aluminum oxide. Resin bond.

350 mm (14") dia. x 3,0 mm x 32 mm dia. 8 pcs.

	350 mm Abrasive Cut-off Wheels
40009127	Cut-off Wheel, Hexagonal 56A35 For cutting of medium hard ferrous metals (HV 200 - 500) and stainless steel on Labotom-15 (2.350 rpm). For cutting of hard ferrous metals (HV 300 - 700) on Unitom (2.775 rpm). For cutting of very hard ferrous metals (HV 400 - 800) on Axitom (1.950 rpm). With 3-D hexagon pattern. Aluminum oxide. Resin bond.
	350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.
40009172	Cut-off wheel, Premium 58A35 For cutting of hard ferrous metals (HV 300 - 700) on Unitom (2.775 rpm). For cutting of very hard ferrous metals (HV 400 - 800) on Axitom (1.950 rpm). Suitable for high volume cutting. With spiral pattern. Aluminum oxide. Resin bond.
	350 mm (14") dia. x 2.2 mm x 32 mm dia. 10 pcs.
40009128	Cut-off Wheel 60A35 For manual cutting of hard and very hard ferrous metals (HV 300 - 800) on Labotom-15 (2.350 rpm). For cutting of very hard ferrous metals (HV 400 - 800) on Unitom (2.775 rpm). Aluminum oxide. Resin bon.
	350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.
40009129	Cut-off Wheel, Hexagonal 66A35 For manual cutting of hard and very hard ferrous metals (HV 300 - 800) on Labotom-15 (2.350 rpm). For cutting of very hard ferrous metals (HV 400 - 800) on Unitom (2.775 rpm). With 3-D hexagon pattern. Aluminum oxide. Resin bond.
	350 mm (14") dia. x 2.5 mm x 32 mm dia. 10 pcs.
40009173	Cut-off wheel, Premium 68A35 For cutting of very hard ferrous metals (HV 400 - 800) on Unitom (2.775 rpm) and Labotom-15 (2,350 rpm). Suitable for high volume cutting. With spiral pattern. Aluminum oxide. Resin bond.
	350 mm (14") dia. x 2.2 mm x 32 mm dia. 10 pcs.

	300 mm Abrasive Cut-off Wheels
40009140	Cut-off Wheel 10530 For cutting of soft, non-ferrous metals (HV 30 - 300). Silicon carbide. Resin bond.
	300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.
40009141	Cut-off Wheel 20S30 For cutting of very ductile metals (e.g. titanium) (HV 70 - 400). Silicon carbide. Resin bond.
	300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.
40009142	Cut-off Wheel 30A30 For cutting of medium soft ferrous metals (<hv 300)="" aluminum="" and="" applications.="" bond.<="" for="" general="" oxide.="" resin="" td=""></hv>
	300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.
40009143	Cut-off Wheel 40A30 For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. Aluminum oxide. Resin bond.
	300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.
40009144	Cut-off Wheel 50A30 For cutting of hard ferrous metals (HV 450 - 600) and for softer ferrous metals with diameters above 60 mm. Aluminum oxide. Resin bond.
	300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.

Cut-off Wheel 54A25

250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.

	300 mm Abrasive Cut-off Wheels
40009145	Cut-off Wheel 60A30 For cutting of extra hard ferrous metals (>HV 600). Aluminum oxide. Resin bond
	300 mm (12") dia. x 2.0 mm x 32 mm dia. 10 pcs.
40009146	Cut-off Wheel, Hexagonal 66A30 For cutting of extra hard ferrous metals (>HV 600). With 3D hexagon pattern. Aluminum oxide. Resin bond.
	300 mm (12") dia x 2 0 mm x 32 mm dia 10 ncs

250 mm Abrasive Cut-off Wheels **Cut-off Wheel 10S25** 40009101 For cutting of soft, non-ferrous metals (HV 30 - 300). Silicon carbide. Resin bond. 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs. **Cut-off Wheel 20S25** 40009102 For cutting of very ductile metals (e.g. titanium) (HV 70 - 400). Silicon carbide. 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs. 40009103 **Cut-off Wheel 20A25** For cutting of soft ferrous metals, steel tubes and small pieces (HV 80 - 400). Aluminum oxide. Resin bond. 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs. 40009104 **Cut-off Wheel 30A25** For cutting of medium soft ferrous metals (<HV 300) and for general applications. Aluminum oxide. Resin bond. 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs. 40009105 **Cut-off Wheel 33A25** Thin (0.8 mm) cut-off wheel for delicate cutting of medium soft ferrous metals (<HV 300). Aluminum oxide. Resin bond. 250 mm (10") dia. x 0.8 mm x 32 mm dia. 10 pcs. 40009106 **Cut-off Wheel 40A25** For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. Aluminum oxide. Resin bond. 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs. 40009107 **Cut-off Wheel Hexagonal 46A25** For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. With 3D hexagon pattern. Aluminum oxide. Resin bond. 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs. 40009108 **Cut-off Wheel 50A25** For cutting of hard and ductile ferrous metals and Ni-based alloys (HV 450 - 600). Aluminum oxide. Resin bond. 250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.

For cutting of hard ferrous metals (HV 450 – 600) and for softer ferrous metals with diameters above 50 mm (2"). Well suited for manual cutting. Aluminum oxide.

	250 mm Abrasive Cut-off Wheels
40009109	Cut-off Wheel, Hexagonal 56A25 For cutting of hard ferrous metals (HV 450 - 600) and for softer ferrous metals with diameters above 50 mm (2"). With 3D hexagon pattern. Aluminum oxide. Resin bond.
	250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
40009110	Cut-off Wheel 60A25 For cutting of extra hard ferrous metals (>HV 600). Aluminum oxide. Resin bond
	250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
40009111	Cut-off Wheel, Hexagonal 66A25 For cutting of extra hard ferrous metals (>HV 600). With 3D hexagon pattern. Aluminum oxide. Resin bond.
	250 mm (10") dia. x 1.5 mm x 32 mm dia. 10 pcs.
	235 mm Abrasive Cut-off Wheels
40009134	Cut-off Wheel 10S24 For cutting of soft, non-ferrous metals (HV 30 - 300). Silicon carbide. Resin bond.
	235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.
40009135	Cut-off Wheel 20S24 For cutting of very ductile metals (e.g. titanium) (HV 70 - 400). Silicon carbide. Resin bond.
	235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.
40009133	Cut-off Wheel 30A24 For cutting of medium soft ferrous metals (<hv 300)="" aluminum="" and="" applications.="" bond<="" for="" general="" oxide.="" resin="" td=""></hv>
	235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.
40009132	Cut-off Wheel 40A24 For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. Aluminum oxide. Resin bond.
	235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.
40009131	Cut-off Wheel 50A24 For cutting of hard ferrous metals (HV 450 - 600) and for softer ferrous metals with diameters above 50 mm (2"). Aluminum oxide. Resin bond
	235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.
40009130	Cut-off Wheel 60A24 For cutting of extra hard ferrous metals (>HV 600). Aluminum oxide. Resin bond.

For cutting of extra hard ferrous metals (>HV 600). Aluminum oxide. Resin bond. 235 mm (9") dia. x 1.5 mm x 22 mm dia. 10 pcs.

	Dia./CBN Cut-off Wheels
40000096	CBN Cut-off Wheel B0C50 For cutting of extremely hard ferrous metals (HV 500 - 1400). Resin bond, high concentration.
	500 mm (19.7") dia. x 2.3 mm x 32 mm dia.
40000095	Diamond Cut-off Wheel M0D51 For cutting of ceramics (> HV 800) and minerals. Metal bond, high concentration
	508 mm (20") dia. x 3.2 mm x 32 mm dia.
40000094	Diamond Cut-off Wheel B0D51 For cutting of sintered carbides and ceramics (> HV 800). Resin bond.
	508 mm dia. x 2.7 mm x 32 mm dia.

concentration.

305 mm (12") dia. x 1.8 mm x 32 mm dia.

	Dia./CBN Cut-off Wheels
40000077	Diamond Cut-off Wheel M0D35
	For cutting of ceramics (> HV 800) and minerals. Metal bond, high concentration.
	350 mm (14") dia. x 1.5 mm x 32 mm dia.
40000036	Diamond Cut-off Wheel B0D35 For cutting of sintered carbides and ceramics (> HV 800). Resin bond.
	350 mm (14") dia. x 1.5 mm x 32 mm dia.
40000093	Diamond Cut-off Wheel B7D35
	For cutting of drilling tools containing steel and sintered carbides. Resin bond.
	350 mm (14") dia. x 1.8 mm x 32 mm dia.
40000082	Diamond Cut-off Wheel E0D36
	For cutting of mounted specimens and components containing resin or plastic. Electroplated.
	356 mm (14") dia. x 1.5 mm x 32 mm dia.
40000075	Diamond Cut-off Wheel M0D31
	For cutting of ceramics (> HV 800) and minerals. Metal bond, high concentration.
40000035	305 mm (12") dia. x 1.5 mm x 32 mm dia.
40000035	Diamond Cut-off Wheel B0D31 For cutting of sintered carbides and ceramics (> HV 800). Resin bond.
	305 mm (12") dia. x 1.8 mm x 32 mm dia.
40000081	Diamond Cut-off Wheel E0D30
	For cutting of mounted specimens and components containing resin or plastic. Electroplated.
	300 mm (12") dia. x 1.5 mm x 32 mm dia.
40000034	Diamond Cut-off Wheel M0D25 For cutting of ceramics (> HV 800) and minerals. Metal bond, high concentration.
	250 mm (10") dia. x 1.1 mm x 32 mm dia.
40000033	Diamond Cut-off Wheel B0D25
	For cutting of sintered carbides and ceramics (> HV 800). Resin bond
	254 mm (10") dia. x 1.1 mm x 32 mm dia.
40000080	Diamond Cut-off Wheel E0D25
	For cutting of mounted specimens and components containing resin or plastic. Electroplated.
	250 mm (10") dia. x 1.5 mm x 32 mm dia.
40000079	CBN Cut-off Wheel B0C41
	For cutting of extremely hard ferrous metals (HV 500 - 1400). Resin bond, high concentration.
	406 mm (16") dia. x 1.8 mm x 32 mm dia.
40000078	CBN Cut-off Wheel B0C35
	For cutting of extremely hard ferrous metals (HV 500 - 1400). Resin bond, high concentration.
	350 mm (14") dia. x 1.8 mm x 32 mm dia.
40000076	CBN Cut-off Wheel B0C31
	For cutting of extremely hard ferrous metals (HV 500 - 1400). Resin bond, high

	Dia./CBN Cut-off Wheels
40000018	CBN Cut-off Wheel B0C25 For cutting of extremely hard ferrous metals (HV 500 - 1400). Resin bond, high concentration
	252 mm (10") dia. x 1.3 mm x 32 mm dia.
40000029	Diamond Cut-off Wheel M4D20 For manual cutting of minerals and composites with hard phases. For Discoplan-TS, manual cutting table on Secotom-10 or Secotom-1. Metal bond, high concentration
	202 mm (8") dia. x 1.0 mm x 22 mm dia.
40000032	Diamond Cut-off Wheel B4D20 For manual cutting of sintered carbides and ceramics (> HV 800). For Discoplan-TS. Resin bond
	202 mm (8") dia. x 1.1 mm x 22 mm dia.



Cut-off Wheels

Cutting Precision

	200 mm Abrasive Cut-off Wheels
40000092	Cut-off Wheel 10S20 For cutting of soft non-ferrous metals (HV 70 - 400). For Secotom. SiC. Resin bond 200 mm (8") dia. x 0.8 mm x 22 mm dia. 5 pcs.
40000087	Cut-off Wheel 30A20 For cutting of medium hard ferrous metals (< HV 500). For Secotom. Aluminum oxide. Resin bond
	200 mm (8") dia. x 0.8 mm x 22 mm dia. 5 pcs.
40000086	Cut-off Wheel 50A20 For cutting of hard ferrous metals (> HV 500). For Secotom. Aluminum oxide. Resin bond
	200 mm (8") dia. x 0.8 mm x 22 mm dia. 5 pcs.

	Abrasive prec. Cut-off Wheels
40000103	Cut-off Wheel 10S15 For cutting of soft non-ferrous metals (HV 30 - 400). For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5/-2. Silicon Carbide. Resin bond.
	150 mm (6") dia. x 0.5 mm x 12.7 mm dia. 5 pcs.

Abrasive prec. Cut-off Wheels

40000102 **Cut-off Wheel 30A15**

For cutting of medium soft ferrous metals (<HV 300) and for general applications. For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5/-2. Aluminum oxide. Resin bond.

150 mm (6") dia. x 0.5 mm x 12.7 mm dia. 5 pcs.

40000101 Cut-off Wheel 40A15

For cutting of medium hard ferrous metals (HV 200 - 500), stainless steel and general applications. For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5/-2. Aluminum oxide. Resin bond.

150 mm (6") dia. x 0.5 mm x 12.7 mm dia. 5 pcs.

40000100 **Cut-off Wheel 50A15**

For cutting of hard ferrous metals (HV 500 - 800) and for specimens with relatively large dimensions. For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5/-2. Aluminum oxide. Resin bond.

150 mm (6") dia. x 0.5 mm x 12.7 mm dia. 5 pcs.

40000045 **Cut-off Wheel 30A13**

For cutting of medium hard ferrous metals (< HV 500). For Accutom and Secotom. Aluminum oxide. Resin bond.

125 mm (5") dia. x 0.5 mm x 12.7 mm dia. 5 pcs.

40000044 **Cut-off Wheel 50A13**

For cutting of hard ferrous metals (> HV 500). For Accutom and Secotom. Aluminum oxide. Resin bond.

125 mm (5") dia. x 0.5 mm x 12.7 mm dia. 5 pcs.



Diamond precision Cut-off Wheels

	Dia./CBN prec. Cut-off Wheels
10000084	Diamond Cut-off Wheel MOD20
	For cutting of ceramics and minerals (> HV 800). Can

For cutting of ceramics and minerals (> HV 800). Can be used with manual cutting table. For Secotom. Metal bond, high concentration.

203 mm (8") dia. x 0.6 mm x 22 mm dia.

40000072 **Diamond Cut-off Wheel M1D20**

For cutting of hard and brittle materials. Can be used with manual cutting table. For Secotom. Metal bond, low concentration.

203 mm (8") dia. x 0.6 mm x 22 mm dia.

40000083 **Diamond Cut-off Wheel B0D20**

For cutting of sintered carbides and ceramics (> HV 800). For Secotom-1/-10/-15/-50/-6/-20/-60. Resin bond.

203 mm (8") dia. x 0.9 mm x 22 mm dia.

	Dia./CBN prec. Cut-off Wheels
40000090	Diamond Cut-off Wheel E1D20 For cutting of mounted specimens and components containing resin or plastic. For Secotom. Electroplated, single-layer.
	200 mm (8") dia. x 0.8 mm x 22 mm dia.
40000046	Diamond Cut-off Wheel M4D18 For manual cutting of minerals and composites with hard phases. For Accutom-2 and Accutom with manual cutting table. Metal bond, high concentration.
	176 mm (7") dia. x 0.8 mm x 12.7 mm dia.
40000054	Diamond Cut-off Wheel MOD15 For cutting of ceramics and minerals (> HV 800). For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5. Metal bond, high concentration.
	152 mm (6") dia. x 0.4 mm x 12.7 mm dia.
40000068	Diamond Cut-off Wheel M1D15 For cutting of hard and brittle materials. For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5. Metal bond, low concentration.
	152 mm (6") dia. x 0.4 mm x 12.7 mm dia.
40000055	Diamond Cut-off Wheel B0D15 For cutting of sintered carbides and ceramics (> HV 800). For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-10/-50/-5. Resin bond.
	152 mm (6") dia. x 0.8 mm x 12.7 mm dia.
40000089	Diamond Cut-off Wheel E0D15 For cutting of mounted specimens and components containing resin or plastic. For Secotom and Accutom-100/-10/-50/-5. Electroplated, multi-layer.
	150 mm (6") dia. x 0.4 mm x 12.7 mm dia.
40000038	Diamond Cut-off Wheel M0D13 For cutting of ceramics and minerals (> HV 800). For Secotom-10/-15/-50/-6/-20/-60, Accutom-100/-10, Accutom-50/-5, Accutom-2, Accutom and Minitom. Metal bond, high concentration.
	127 mm (5") dia. x 0.4 mm x 12.7 mm dia.
40000071	Diamond Cut-off Wheel M1D13 For cutting of hard and brittle materials. For Minitom, Accutom and Secotom. Metal bond, low concentration. Metal bond, low concentration.
	127 mm (5") dia. x 0.4 mm x 12.7 mm dia.
40000039	Diamond Cut-off Wheel B0D13 For cutting of sintered carbides and ceramics (> HV 800). For Secotom-10/-15/-50/-6/-20/-60, Accutom-100/-10, Accutom-50/-5, Accutom-2, Accutom and Minitom. Resin bond.
	127 mm (5") dia. x 0.6 mm x 12.7 mm dia.
40000043	Diamond Cut-off Wheel M0D10 For precision cutting of ceramics and minerals. For Secotom-10/-15/-50/-6/-20/-60, Accutom-100/-10, Accutom-50/-5, Accutom-2, Accutom and Minitom. Metal bond, high concentration.
	102 mm (4") dia. x 0.3 mm x 12.7 mm dia.
40000070	Diamond Cut-off Wheel M1D10 For cutting of hard and brittle materials. For Minitom, Accutom and Secotom. Metal

bond, low concentration.

102 mm (4") dia. x 0.3 mm x 12.7 mm dia.

	Dia./CBN prec. Cut-off Wheels
40000041	Diamond Cut-off Wheel M0D08 For high precision cutting of very small specimens. Mainly recommended for ceramics and minerals. For Secotom-10/-15/-50/-6/-20/-60, Accutom-100/-10, Accutom-50/-5, Accutom-2 and Accutom. Metal bond, high concentration.
	76 mm (3") dia. x 0.15 mm x 12.7 mm dia.
40000069	Diamond Cut-off Wheel M1D08 For cutting of hard and brittle materials. For Accutom and Secotom. Metal bond, low concentration.
	76 mm (3") dia. x 0.15 mm x 12.7 mm dia.
40000074	CBN Cut-off Wheel B0C20 For cutting of extremely hard ferrous metals (HV 500 - 1400). For Secotom-10/-15/-50/-60/-20/-60. Resin bond, high concentration.
	203 mm (8") dia. x 0.9 mm x 22 mm dia.
40000073	CBN Cut-off Wheel B0C15 For cutting of extremely hard ferrous metals (HV 500 - 1400). For Secotom-10/-15/-50/-6/-20/-60 and Accutom-100/-50/-10/-5 Resin bond, high concentration.
	152 mm (6") dia. x 0.8 mm x 12.7 mm dia.
40000040	CBN Cut-off Wheel B0C13 For cutting of extremely hard ferrous metals (HV 500 - 1400). For Secotom-10/-15/-50/-6/-20/-60, Accutom-100/-10, Accutom-50/-5, Accutom-2, Accutom and Minitom. Resin bond, high concentration.

127 mm (5") dia. x 0.6 mm x 12.7 mm dia.





Cooli Additive

Bandfilter paper

Other Cutting Consumables

	Additive
49900068	Corrozip-Cu Additive for use in recirculation cooling units, in particular for machines which mainly cut copper and copper alloys. The formula protects the machine from corrosion while improving cutting and cooling qualities. Mixed with water. Concentration of the Corrozip-Cu in the cooling fluid 2.7-3.3 %. Not recommended for use with Coolimat-200 bandfilter due to formation of foam.
	1 l Additive for Cooling Systems
49900069	5 l Additive for Cooling Systems
49900072	Cooli Additive Plus High performance cutting additive for recirculation water. Additive to improve cutting and cooling properties and protect the machine from corrosion. Recommended concentration: 4%.
	4 L
49900071	1 L
49900073	Cooli Additive Additive for recirculation water for cutting and grinding. Additive to improve cutting/grinding and cooling properties and protect the machine from corrosion. Recommended concentration: 4%.
49900074	1 L
49900070	Water-free Cutting Fluid For cutting of water-sensitive materials on Accutom-5/-50/-10/-100 or Secotom-10/-15/-50/-6/-20/-60. Special pump tube (Cat. No. 05996921) required on Accutom-10/-100 and Secotom-15/-50/-6/-20/-60. 5 l
49900040***	Unitclean For cleaning of Recirculation Cooling Units to stop attack of micro-organisms and

For cleaning of Recirculation Cooling Units to stop attack of micro-organisms and remove unpleasant odours

1 l

	Others
49900065	Filter tube 100 l Single-use filter tube for static recirculation cooling system. Capacity: 100-200 l tanks. 10 pcs.
	Filter bag for use with 100 l, 150 l and 200 l tanks
06166901	Bandfilter paper Width: 500 mm. For use with Coolimat-200 bandfilter (06161116).

	Others
05766914	Bandfilter paper for use with band filter (057663xx). Width: 45 cm.
	Roll with 90 m
06526901	Width: 500 mm. For use with Coolimat-2000 with bandfilter. Includes 4 x rolls, each length 100 m.
	Filter paper roll
05766915	Paper for Static Filter For use with static filter (05766907).
	For 100 l filter. 100 pcs.
05766916	For use with static filter (05766908).
	For 50 l filter. 100 pcs.
49900060	Filter paper For Accutom-10 and Accutom-100.
	100 pcs.
49900001	Disposable Liners For collecting waste material in recirculation cooling unit (025361xx) with capacity 30 l.
	20 pcs.
49900013	For collecting waste material in recirculation cooling unit, capacity 65 l.
	10 pcs.
49900042	For collecting waste material in 50 l tank (05766906)
	20 pcs.
49900043	For collecting waste material in 100/150 l tank.
	20 pcs.
06166906	Disposable liner for Coolimat collection bin, 10 pcs
49900057	For collecting waste material in 200 l tank (06161X16), 5 pcs.

THREE TIMES AS MANY CUTS

with Cooli Additive Plus

- A safe work environment
 No allergens, free of boric acid
- Pre-dosed bottles
 Ready to use

- Three times as many cuts
 In case-hardened steel
- Up to 30% more cuts
 Optimized for aluminum alloy



MOUNTING

Struers Mounting Consumables

No matter what your application is, you'll find a Struers mounting material that meets your every hot and cold mounting need. Easy dosing, safety, and specimen integrity are a given, as are consistently superior results that help you to achieve an efficient work process.

Hot Mounting

If you need high quality, uniform size, and short process times, our hot mounting solutions are ideal.

Simply place the specimen and mounting material in the mounting press cylinder. To ensure premium mounting performance, we encourage you to use our hot mounting materials with our mounting presses. That's because the machines are designed to control all parameters of the mounting process, such as the cooling and heating cycle and dosing. In that way, you get the most out of your investment.

Cold Mounting

Our cold mounting material protects brittle and fragile specimens during the preparation process, and delivers high quality mounts for microscopic inspection. Struers epoxy range delivers high quality impregnation of your pours specimens without compromising on speed.

Only Struers consumables are designed to get the most out of our Struers equipment.





HOT MOUNTING - SELECTION GUIDE

Resin	ClaroFast	CitoFast	ConduFast
Material	Acrylic	Acrylic with aluminum filler	Acrylic with iron filler
Specific properties	Clear transparent	Very fast mounting. Low process times also when it is used as 'backing' for DuroFast or LevoFast	Electrically conductive
Recommended use	Clear mounts Porous specimens	Fast mounting times For soft materials	Electrolytic polishing
Туре	Thermoplastic	Thermoplastic	Thermoplastic
Shrinkage From 1-3 (1 is best)	• •	• •	• •
Hardness From 1-3 (1 is softest)	••	• •	•
Removal rate	High	High	High
Process parameters*			
Heating temperature (°C)	180	180	180
Quantity (ml)	20	20	20
Heating time (min.)	4	2,5	3,5
Heating pressure (bar)	350	300	250
Cooling time (min.)	6,5	1	1.5
Cooling rate	Low	High	High
Total process time (min.)	10.5	3.5	5
Application / Specific properties	Transparent mounts. Porous specimens.** Surface electrical insulator for ConduFast	For soft materials.* Fast mounting also when used as backing	Electrolytic polishing

³⁰ mm dia. mount with a 45% carbon steel specimen (20 vol%)

^{*} Embedded abrasives can occur in the aluminum filler ** For some materials, using sensitive mode.

DuroFast	LevoFast	PolyFast	MultiFast
Epoxy with mineral filler	Melamine with mineral and glass filler	Bakelite with carbon filler	Bakelite with wood filler
Very low shrinkage. Very low removal rate	Very low shrinkage High removal rate	Very low shrinkage High removal rate	Medium shrinkage Medium removal rate
Excellent edge-retention for hard materials	Excellent edge-retention for soft to medium hard materials	Fast mounting process SEM examination	Routine examination of soft to medium hard materials. Color coding
Thermosetting	Thermosetting	Thermosetting	Thermosetting
•	•	•	• • •
• • •	• • •	• •	• • •
Low	High	High	Medium
180	180	180	180
20	25	20	25
3,5	3,5	3,5	3
325	250	250	250
2	2	5	2
High	High	High	High
5.5	5.5	5	5
For hard materials Excellent edge retention	For soft to medium hard materials. Excellent edge retention	SEM examination	Routine examination of soft to medium hard materials. Suitable as backing

HOT MOUNTING – HOW TO OPTIMIZE THE PROCESS TIME

When specimens are to be mounted in series it is recommended to optimize the heating and cooling times.

One of the factors limiting both the heating and cooling times is the relatively low heat conductivity

of the resins. An efficient way to reduce the process time is to minimize the distance the heat needs to travel through the resin. When mounting metallic pieces (with high heat conductivity), the heating and cooling times may be reduced when:

The amount of resin is optimized:





Choose smallest possible mounting cylinder:





A relatively high instead of a low specimen is mounted:





Good thermal contact between metal and ram is ensured:





When optimizing the time it should be reduced stepwise with intermediate inspection of the mount. Insufficient heating and cooling times will result in artifacts (See: "Trouble Shooting").

ConduFast and ClaroFast

For electrolytical purposes, ClaroFast, although not electrically conductive, can be used in conjunction with ConduFast. By adding a small amount of ClaroFast first, and then completing the required amount with ConduFast, a mount with a conducting body and an insulating preparation surface is formed.

DuroFast, LevoFast and PolyFast with MultiFast or CitoFast

When using the more expensive PolyFast, DuroFast and Levo-Fast, a substantial cost saving can be made by adding only a small amount of the

desired resin to form the preparation surface, then completing the required amount with the less expensive MultiFast. For fast mounting, use CitoFast as a 'backing' resin. Recommended ratio 1:2 (1/3 DuroFast/LevoFast/PolyFast to 2/3 CitoFast).

Mount Release Agent

This is recommended to be applied to the mounting rams as a thin layer before the mounting process begins. This prevents the adhesive qualities of the resins from making it difficult to remove the mounts afterwards.

Distance to Cylinder Wall

The distance between the specimen and the cylinder wall must be a minimum of 3 mm (1/8"), to avoid cracks in the resin. This is especially critical for specimens with sharp corners.

Small Specimens

Small, thin specimens can be supported during the hot mounting process by the use of Struers Fixation clips. Only metal clips should be used for hot mounting.

Clean Specimens

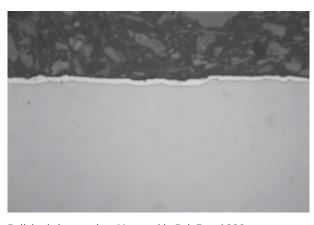
To obtain the best results the specimens must be clean, dry and free from grease. If necessary, clean with alcohol or another suitable degreasing fluid.

Preheating

For porous and/or pressure sensitive specimens, such as minerals, electronic parts etc., it is advantageous to soften the resin by heating, before applying pressure. Preheating is also useful when using thermoplastic resins, particularly ClaroFast.

On CitoPress-15/-30, preheating is available as an automatic programme with the *Sensitive* option. In Sensitive mode, the total heating time is split into two, preheating and heating, where no force is applied during the preheat phase, only during the heating phase.

For metal specimens, we recommend that pressure is applied only for the last minute of the total heating time. If the total heating time is 15 min, preheating should be set to 14 min and 0 bar, and heating to 1 min and 350 bar (ClaroFast).



Polished zinc coating, Mounted in PolyFast 1000 \times

For mounting of PCB, plastics and other poor conductors, add 1 min to the preheating time (15 min, 0 bar).

Temperature Sensitive Specimens

The temperature for the mounting process can be reduced to a minimum of 150°C for all resins. This is useful when dealing with temperature sensitive materials. If the temperature is reduced, the recommended heating time should then be increased.

For very temperature sensitive specimens, hot compression mounting should be avoided. Use Struers cold mounting resins instead.

Porous Specimens

Thermoplastic resins, (ClaroFast), penetrate into porous specimens. The best results are obtained by initially preheating the resin (see Preheating).

For very porous materials, hot compression mounting should be avoided. Use of Struers epoxy cold mounting resins is recommended.

Pressure Sensitive Specimens

Thermoplastic resins, (ClaroFast), should be used. The best results are obtained by initially preheating the resin (see Pre-heating).

For very pressure sensitive specimens, hot compression mounting should be avoided. Use Struers cold mounting resins instead.

Specimen Removal

It is crucial that the resin and parameters are correctly matched to each individual specimen. Thermoplastic mounts can be reprocessed. Specimens mounted in thermosetting resins cannot be reprocessed. They have to be re-mounted. Damage free removal from the completed mount cannot be guaranteed.

HOT MOUNTING DATA

The heating and cooling times in the tables refer to the following conditions:

- The heating times in the tables refer to the full process time counted from the start of the process and not from when the pre-set temperature is reached.
- The mounting parameters are based on specimens with a volume approx. 20% of the total volume of the mount. If larger specimens are mounted, less resin should be used.
- If smaller specimens or specimens with low heat conductivity are mounted, the heating and cooling times should be increased. It might also be necessary to increase the pressure to avoid pores in the cured mount.

- A higher pressure is recommended with ClaroFast to avoid "cotton ball" effect.
- The amount of resin in the tables has been adjusted to result in a final height of the mounts of approx. 20 mm (0.8").
- If several resins are combined in one mount, use the process parameters for the resin with the longest times. When using CitoFast as 'backing', use the CitoFast process parameters.
 For several, or very complicated specimens, add one min. of heating time.
- The mounting parameters are based on using the Citopress 5/15/30.

Cylinder dia.	Resin		Heating			Cooling		Time
25 mm / 1"	Туре	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	20	4	180	350	6	Low	9.5
	CitoFast	15	2	180	300	1	High	3
	ConduFast	15	3	180	300	1	High	4
	DuroFast	15	3	180	325	2	High	5
	LevoFast	20	3	180	350	1	High	4
	PolyFast	15	3.5	180	325	1.5	High	5
	MultiFast	20	3	180	300	2	High	5

Cylinder dia.	Resin		Heating			Cooling		Time
30 mm	Туре	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	20	4	180	350	6.5	Low	10.5
	CitoFast	25	2.5	180	300	1	High	3.5
	ConduFast	20	3.5	180	250	1.5	High	5
	DuroFast	20	3.5	180	325	2	High	5.5
	LevoFast	25	3.5	180	250	2	High	5.5
	PolyFast	20	3.5	180	250	1.5	High	5
	MultiFast	25	3	180	250	2	High	5

Cylinder dia.	Resin		Heating			Cooling		Time
11/4"	Туре	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	20	4	180	350	6.5	Low	10.5
	CitoFast	25	2.5	180	300	1	High	3.5
	ConduFast	20	3.5	180	250	1.5	High	5
	DuroFast	20	4	180	325	2	High	6
	LevoFast	25	3.5	180	250	2	High	5.5
	PolyFast	20	3.5	180	250	1.5	High	5
	MultiFast	25	3.5	180	250	2	High	5.5

Cylinder dia.	Resin		Heating			Cooling		Time
1½"	Туре	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	30	4	180	350	7	Low	11
	CitoFast	45	3	180	300	1.5	High	4.5
	ConduFast	35	3.5	180	250	2	High	5.5
	DuroFast	35	4.5	180	350	2.5	High	7
	LevoFast	40	4.5	180	250	2	High	6.5
	PolyFast	30	4.5	180	250	2	High	6.5
	MultiFast	40	4.5	180	250	2.5	High	7

Cylinder dia.	Resin		Heating			Cooling		Time
40 mm	Туре	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	35	4	180	350	6.5	Low	10.5
	CitoFast	45	3	180	300	1.5	High	4.5
	ConduFast	40	3.5	180	250	2	High	5.5
	DuroFast	40	4.5	180	350	2.5	High	7
	LevoFast	50	5	180	250	2	High	7
	PolyFast	35	4	180	250	2	High	6
	MultiFast	45	4	180	250	2.5	High	6.5

Cylinder dia.	Resin		Heating			Cooling		Time
50 mm / 2"	Туре	Quantity	Time	Temp.	Pressure	Time	Rate	Total time
		[ml]	[min]	[°C]	[bar]	[min]		[min]
	ClaroFast	55	5	180	250	8.5	Low	13.5
	CitoFast	65	3.5	180	250	2	High	5.5
	ConduFast	65	4	180	250	2	High	6
	DuroFast	70	5.5	180	250	3	High	8.5
	LevoFast	75	6	180	250	3	High	9
	PolyFast	55	5.5	180	250	2	High	7.5
	MultiFast	70	6	180	250	4	High	10

HOT MOUNTING - TROUBLE SHOOTING GUIDE

General Problems

Radial Cracking



Cause: Insufficient distance between specimen edge/corner and cylinder wall, or specimen has sharp corners

Solution: Increase cylinder diameter or reduce specimen size. The distance between the specimen and the cylinder wall must be a minimum of 3 mm to avoid cracks in the resin. This is especially critical for specimens with sharp corners.

Shrinkage



Cause: Incorrect choice of resin.

Solution: Re-mount a

new specimen using a resin with a lower linear shrinkage value.

Blistering



Cause: Insufficient heating time. Solution: Increase heating time, or increase process temperature.

Cause: Overcured surface.

Solution: Decrease process temperature.

Cause: Entrapped gas within mount. **Solution:** Preheat

resin.

Bulging

Cause: Insufficient cooling.
Solution: Increase cooling time.

Porosity

Cause: Excessive temperature. **Solution:** Reduce process temperature.

Voiding within large mounts



Cause: Insufficient heating time. **Solution:** Increase heating time.

Cause: Excessive temperature. Solution: Reduce process temperature.

Cause: Insufficient force/pressure. Increase mounting force/pressure.



Cause: Insufficient heating time. Solution: Increase heating time.

Adhesion between mount and rams



Cause: Insufficient application of mould release agent. Solution: Apply mould release agent. This must always

be applied to the mounting rams as a thin layer before the mounting process begins. This prevents the resins from sticking to the rams and makes it easier to remove the mounts afterwards.

Cause: Insufficient heating time. **Solution:** Increase heating time.

Cause: Excessive force/pressure. Solution: Decrease mounting force/ pressure.

Individual Grains Visible on Mount*



Cause: Resin has cured without force/pressure. **Solution:** Increase force/pressure during heating cycle.

Cause: Insufficient heating time.
Solution: Increase the heating time and/or temperature.

*Thermosetting resins only

ConduFast Problems

Lack of conductivity

Cause: No contact with specimen due to use of an excessive amount of ClaroFast, (refer to Helpful Hints). **Solution:** Re-mount a new specimen using a smaller amount of ClaroFast than before.

Cause: Insufficient heating time Solution: Reinsert the mount in the press and reprocess using an increased heating time.

Metallic particles in resin removed during the electrolytic process



Cause: Insufficient amount of ClaroFast, (refer to Helpful Hints). Solution: Re-mount a new specimen using a larger amount of ClaroFast.

Cause: Excessive grinding time. **Solution:** Re-mount with a new specimen.

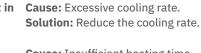
ClaroFast Problems

Internal cracking

Cause: Excessive cooling rate.

Solution: Reduce the cooling rate

"Cottonball" effect in centre of mount





Cause: Insufficient heating time. Solution: Reduce the physical height of the mount, lower the process temperature and increase the heating time.

Cause: Moist resin.

Solution: Dry the resin by exposing the open container to 30-70°C for 2 hours.

LevoFast Problems

The mounts turn dark after preparation

Cause: Insufficient heating time

Solution: Increase heating time and/or temperature



PolyFast and MultiFast Problems

Parts of mount become light or colourless on contact with alcohol Cause: Insufficient heating time.

Solution: Increase heating time and/or temperature



COLD MOUNTING – SELECTION GUIDE FOR ACRYLICS

Material	VersoCit-2	ClaroCit
	00	825555
Curing time	10 min.	20 min.
Shrinkage from 1-4 (1 is best)	***	***
Application	For routine examination	For extraordinarily clear mounts
	Routine examination of soft to medium hard materials	For universal useTarget preparation
Mixing ratio weight recommended	Liquid: 2 parts Powder: 3 parts	Liquid: 6 parts Powder: 10 parts
Mixing ratio volume	Liquid: 1 part Powder: 2 parts	Liquid: 2 parts Powder: 5 parts
Mixing time	30 s	1 ½ min.
Potlife	3 min.	1 ½ min.
Colour	Dull yellowish, partly transparent	Colourless, clear (extremely clear when cured under pressure)
Can be coloured with EpoDye		X
Can be coloured with AcryDye	Х	X
Peak temperature	100 °C / 212 °F	90 °C / 194 °F
Hardness	82 Shore D	85 Shore D

DuroCit-3	LevoCit	ViaFix
	AA	(90)
30 min.	20 min.	20 min.
*	**	***
Fast curing and no shrinkage	Good edge-retention and planeness	For vias and microvias
 For medium hard and hard ferrous metals and other hard materials – including ceramics, carbides etc. For specimens where protection of layers is important e.g. coated specimens Excellent edgeretention and planeness 	 For non-ferrous metals and soft ferrous metals Low shrinkage Low peak temperature 	* Affected by alcohol. When using diamond products or lubricantscontaining alcohol, the surface will be affected and the structure of the polymer beads will appear * Affected by alcohol. When using diamond products or lubricantscontaining alcohol, the surface will be affected and the structure of the polymer beads will appear
Liquid I: 8 parts Liquid II: 4 parts Powder: 14 parts	Liquid: 1 part Powder: 2 parts	Liquid: 9 parts Powder: 11 parts
Liquid I: 10 parts Liquid II: 5 parts Powder: 15 parts	Liquid: 1 part Powder: 2 parts	Liquid: 1 part Powder: 2 parts
1 ½ min.	45 s	30 s
4 min.	1 ½ min.	2 min.
Light yellow	Off-white	Colourless, clear (extremely clear when cured under pressure). Otherwise semi-transparent
		X
X	X	X
138 °C / 280 °F	75 °C / 167 °F	115 °C / 239 °F
85 Shore D	84 Shore D	83 Shore D

COLD MOUNTING - SELECTION GUIDE FOR EPOXIES





Curing time	1 ½ hour in oven at 75 °C / 167 °F ¹)	3 ½ hours in oven at 50 °C / 122 °F
Shrinkage from 1-4 (1 is best)	*	*
Application	For all-round vacuum impregnation	Extremely good adhesion
	Short curing time	• Relative fast curing time
	 Low viscosity 	 Very clear colourless mounts
	Relatively hard after curing	• Cures in oven or Drybox

Mixing ratio weight recommended	Resin: 25 parts Hardener: 7 parts	Resin: 2.5 parts Curing Agent: 1 parts
Mixing ratio volume	Resin: 31 parts Hardener: 10 parts	Resin: 10.5 parts Curing Agent: 5 part
Mixing time	5 min.	3 min.
Potlife	> 60 min.	> 60 min.
Colour	Clear, transparent Refractive index: ND = 1.561	Clear, transparent Refractive index: ND = 1.573
Can be coloured with EpoDye	X	X
Can be coloured with AcryDye		
Peak temperature	170 °C / 338 °F	100 °C / 212 °F
Hardness	85 Shore D	82 Shore D

³⁰ mm dia. mount without specimen at 21 °C / 70 °F)

^{* 40} mm mount, 10% specimen volume, 25 °C / 73 °F ambient temperature, Covered while curing

^{** 30} mm mount, 10% specimen volume, 25 °C / 73 °F ambient temperature, Covered while curing

EpoFix	ProntoFix Standard	ProntoFix Accelerated
Approx. 12 hours	90 min. *	90 min. **
* For vacuum impregnation - low viscosity	For mounting and preparing specimens the same day	* DIAMETER OF CUP (mm) (") *** Ø25 Ø1.00 Ø30 Ø1.25 Ø40 Ø1.50
Can be used on all types of specimens	Suitable for vaccum impregnation	20-52 23-52 23-62 23-62 23-62 24-62 24-62 25-62 27
• Extremely low curing temperature – Very good for heat sensitive	• Excellent adhesion	10.42 80.6 80.6
specimens	 Superior penetration of cracks and pores 	
 Superior penetration of cracks and pores 	and perse	Accelerated Standard curing not system possible in less than 4 hours
• Excellent adhesion		
Resin: 25 parts Hardener: 3 parts	Resin: 20 parts Hardener: 5.3 part	Resin: 20 parts Hardener: 4.2 parts Accelerator: 1.1 parts
Resin: 15 parts Hardener: 2 parts	Resin: 20 parts Hardener: 5.3 part	Resin: 20 parts Hardener: 4.2 parts Accelerator: 1.1 parts
2 min.	1 min.	
30 min.	25 min.	20 min.
Clear, transparent Refractive index: ND = 1.578	Transp	arent, Yellow
Х		X
40 °C / 104 °F	140 °C / 284 °F	150 °C / 302 °F
78 Shore D	83	Shore D

^{***} Use the matrix to find out if the accelerator is recommended. For example if you are mounting with 40 mm cups and the room temperature is between 23-27°, it is recommended to use the ProntoFix accelerator.

COLD MOUNTING - TROUBLE SHOOTING GUIDE

Problem	Cause	Solution
Air bubbles along the sides of the specimen The system creates to many bubbles – generation of excessive heat	Lab temperature > 23°C	 Uncover the mount during curing Use Struers DryBox to increase airflow Use a smaller amount of mounting material Cool down mounting material during mixing If Accelerator is used try to use standard system
	Specimen/ProntoFix volume ratio < 20% < 10% for metallic specimen (Too small specimen)	 Uncover the mounting cup Use Struers DryBox to increase airflow Pour less ProntoFix in the mounting cup If Accelerator is used try to use standard system
	The mount is less than 5mm from the top of the mounting cup	Uncover during curing Use Struers DryBox to increase airflow
	Diameter 50mm	 Fill up only half of the mounting cup If you need a 20mm tall mount, cure in two steps Uncover while curing Use a smaller mounting cup Use Struers DryBox to increase airflow If Accelerator is used try to use standard system
	Insufficient degreasing of specimen	Clean and degrease specimens prior to mounting
	Too active stirring of mixture	· Stir without introducing air into the mixture

Problem	Cause	Solution
High shrinkage	Too high temperature during curing	· Use Struers DryBox to increase airflow
	Insufficient degreasing of specimen	Clean and degrease specimens prior to mounting
	Insufficient mixing of resin and hardener	· Stir mixture thoroughly
	Too large volume of mixture or too long time after stirring before pouring	Mix smaller volumes and pour over specimens immediately after stirring







Problem	Cause	Solution
Sticky or rubbery surface	Lab temperature < 23°C	 Fill up the mounting cup sufficiently Use a bigger mounting cup Use the Struers DryBox to increase temperature If the standard hardener is used, try to use the Accelerator to decrease curing time
The system cures too slowly	Specimen/ProntoFix volume ratio > 20% > 10% for metallic specimen (Too big specimen)	 Use a bigger mounting cup Reduce the size of the specimen Use the Struers DryBox to increase temperature If the standard hardener is used, try to use the Accelerator to decrease curing time
	The mount is more than 5mm from the top of the mounting cup (Too low mount)	 Use the Struers DryBox to increase temperature If the standard hardener is used, try to use the Accelerator to decrease curing time
	Mounting cup diameter 25mm	 Use a Drybox to increase temperature Use a bigger mounting cup If the standard hardener is used, try to use the Accelerator to decrease curing time

Problem	Cause	Solution
Indraft/suction at the	Too high temperature during curing	· Use Struers DryBox to increase airflow
bottom of the specimen	Specimen/ProntoFix volume ratio < 20% < 10% for metallic specimen (Too small specimen)	 Use adequate mounting cup or mount in layers of around 10mm per layer. Wait until the first layer is cured and then cast the next layer

Problem	Cause	Solution
Gap between ProntoFix and specimen	Too high temperature during curing	· Use Struers DryBox to increase airflow
	Insufficient degreasing of specimen	Clean and degrease specimens prior to mounting
	Specimen/ProntoFix volume ratio < 20% < 10% for metallic specimen (Too small specimen)	· Use Struers DryBox to increase airflow
	Too much hardener in relation to resin	· Mix resin and hardener in the correct ratio







ClaroFast

LevoFast

MultiFast Black, Green and Red

Hot Mounting

	ClaroFast
40100055	Clear transparent acrylic hot mounting resin. Thermoplastic.
	1 kg
40100054	7.5 kg
40100053	25 kg

	CitoFast
40100068	For soft materials or to reduce process time especially as backing material for LevoFast or DuroFast.
	1 kg
40100069	7.5 kg

	ConduFast
40100039	Acrylic hot mounting resin with iron filler. Thermoplastic.
	1 kg

	DuroFast
40100044	Black epoxy hot mounting resin with mineral filler, for edge-retention and planeness of hard materials. Thermosetting.
	1 kg
40100045	7.5 kg

	LevoFast
40100057	Light yellow melamine hot mounting resin with mineral and glass filler. Thermosetting.
	1 kg
40100058	7.5 kg

	PolyFast
40100036	Black bakelite hot mounting resin with carbon filler. Thermosetting.
	1 kg
40100037	7.5 kg

	MultiFast Black
40100064	Black bakelite hot mounting resin with wood filler. Thermosetting.
	2.5 kg
40100065	7.5 kg

	MultiFast Black
40100066	25 kg
40100067	75 kg

	MultiFast Green
40100078	Green bakelite hot mounting resin with wood filler. Thermosetting.
	2.5 kg
40100079	7.5 kg
40100080	25 kg
40100081	75 kg

	MultiFast Red
40100074	Red bakelite hot mounting resin with wood filler. Thermosetting.
	2.5 kg
40100075	7.5 kg
40100076	25 kg
40100077	75 kg

	Others
40300043	AntiStick Mould release agent. Stearate powder in applicator.
	8 g





Durocit-3 Kit

ProntoFix

Cold Mounting

	ProntoFix
40200108***	ProntoFix Kit Epoxy cold mounting system for mounting and preparing within the same day. Curing at room temperature. No shrinkage, especially suited for vacuum impregnation. Transparent.
	1 l resin, 275 ml hardener and required consumables
40200109	ProntoFix Resin To be mixed with ProntoFix Hardener. 1 l resin corresponds to 275 ml hardener. If curing time with the ProntoFix Hardener is too long the ProntoFix Accelerator can be added. 1.3 l Resin corresponds to 275 ml hardener plus 70 ml accelerator.

*** Hazadous goods fee per shipment

ProntoFix

40200110*** ProntoFix Hardener

To be mixed with ProntoFix Resin. 500 ml hardener corresponds to 1.8 l resin 500 ml

40200111*** **ProntoFix Accelerator**

To be mixed with ProntoFix Resin and ProntoFix Hardener. To accelerate the ProntoFix system if curing time with the ProntoFix Hardener is too long. 70 ml accelerator must be mixed with 275 ml ProntoFix Hardener. The mixture corresponds to 1.3 l ProntoFix Resin. Empty bottle for premixing Hardener and Accelerator is available.

70 ml

EpoFix

40200029*** **EpoFix Kit**

Epoxy cold mounting system curing at room temperature in about 12 hours, with no shrinkage, especially suited for vacuum impregnation. Transparent.

1 l resin, 130 ml hardener and required consumables

40200030

EpoFix Resin

To be mixed with EpoFix Hardener. 1 l resin corresponds to 130 ml hardener.

1 l

40200031***

EpoFix Hardener

To be mixed with EpoFix Resin. 500 ml hardener corresponds to 4 l resin.

500 ml

SpeciFix

40200049***

SpeciFix-40 Kit

Epoxy cold mounting system curing at elevated temperature (40-60 °C) in about 3.5 hours, with very low shrinkage, suitable for vacuum impregnation. Transparent.

1 l resin, 500 ml curing agent and required consumables

40200051

SpeciFix Resin

To be mixed with SpeciFix-40 Curing Agent. 1 l resin corresponds to 500 ml SpeciFix-40 Curing Agent.

1 l

40200053***

SpeciFix-40 Curing Agent

To be mixed with SpeciFix Resin. 1 l curing agent corresponds to 2 l resin.

CaldoFix

40200084***

CaldoFix-2 Kit

Epoxy cold mounting system, curing within 1½ hours when heated to 75 °C / 167 °F. Very low shrinkage, suitable for vacuum impregnation. Transparent.

1 l resin, 325 ml hardener and required consumables

40200085

CaldoFix-2 Resin

To be mixed with CaldoFix-2 Hardener. 1 l resin corresponds to 325 ml hardener.

1 l

40200086***

CaldoFix-2 Hardener

To be mixed with CaldoFix-2 Resin. 500 ml hardener corresponds to 1.5 liter resin.

500 ml

1 l

	ClaroCit
40200072***	ClaroCit Kit Acrylic cold mounting system for universal use. Provides extremely clear, transparent mounts (especially when cured under pressure).
	800 g powder, 500 ml liquid and required consumables
40200074	ClaroCit Powder To be mixed with ClaroCit liquid. 3 kg powder corresponds to 1.9 l liquid
	3 kg
40200073***	ClaroCit Liquid To be mixed with ClaroCit Powder. 1 l liquid corresponds to 1.6 kg powder. 1 l

	DuroCit
40200095***	DuroCit-3 Kit Acrylic cold mounting system with mineral filler. For excellent edge-retention.
	570 g powder, 300 ml liquid I, 150 ml liquid II and required consumables
40200081	DuroCit Powder To be mixed with DuroCit Liquid I and II. 3 kg Powder corresponds to 1.6 l Liquid I and 0.8 l Liquid II.
	3 kg
40200096***	DuroCit-3 Liquid I To be mixed with DuroCit Powder and DuroCit-3 Liquid II. 1 l Liquid I corresponds to 1.9 kg powder and 0.5 l Liquid II. 1 l
40200097***	DuroCit-3 Liquid II

To be mixed with DuroCit Powder and DuroCit-3 Liquid I. 1 l Liquid II corresponds to 3.8 kg powder and 2 l Liquid I.

1 l

	LevoCit
40200092***	LevoCit Kit Acrylic cold mounting resin with filler optimised for non-ferrous and soft ferrous metals.
	600 g powder, 300 ml liquid and required consumables
40200093	LevoCit Powder To be mixed with LevoCit Liquid. 3 kg powder corresponds to 1.5 l Liquid
	3 kg
40200094***	LevoCit Liquid To be mixed with LevoCit Powder. 1 l liquid corresponds to 2 kg powder.

	VersoCit-2
40200089	VersoCit-2 Kit Acrylic cold mounting system for routine examination of soft to medium hard materials.
	750 g powder, 500 ml liquid and required consumables

*** Hazadous goods fee per shipment

	VersoCit-2
40200090	VersoCit-2 Powder To be mixed with VersoCit-2 Liquid. 3 kg powder corresponds to 2 l liquid. 3 kg
40200091	VersoCit-2 Liquid To be mixed with VersoCit-2 Powder. 1 l liquid corresponds to 1.5 kg powder. 1 l

	ViaFix
40200067***	ViaFix Kit Acrylic cold mounting system for filling of microvias and pores. The clearest mount is obtained by using a pressure chamber.
	570 g powder, 500 ml liquid and required consumables
40200068	ViaFix Powder To be mixed with ViaFix Liquid. 2.5 kg powder corresponds to 2.3 l liquid.
	2.5 kg
40200069***	ViaFix Liquid To be mixed with ViaFix Powder. 1 l liquid corresponds to 1.1 kg powder.
	1



	FixiForm
40300085	Two part polypropylene mounting cup for all Struers cold mounting materials.
	25 mm / 1" dia. 10 pcs.
40300086	30 mm dia. 10 pcs.
40300087	1¼" dia. 10 pcs.
40300088	1½" dia. 10 pcs.
40300089	40 mm dia. 10 pcs.
40300090	50 mm / 2" dia. 10 pcs.

	Flexiform
40300018	Flexible silicone rubber mounting cup for ClaroCit, DuroCit, VersoCit-2, LevoCit and ViaFix.
	25 mm dia. 5 pcs.
40300019	30 mm dia. 5 pcs.
40300020	1¼" dia. 5 pcs.
40300021	1½" dia. 5 pcs.
40300092	40 mm dia. 5 pcs.

	Flexiform
40300082	Silicone rubber mounting cup for mounting to be used especially with acrylic cold mounting resins with which it can be reused many times. It can also be used with epoxy resins. Mounts fit to specimen holder MAXDI, 02606920.
	68 x 37 x 35 mm. 3 pcs.
40300083	Silicone rubber mounting cup for mounting to be used especially with acrylic cold mounting resins with which it can be reused many times. It can also be used with epoxy resins. Mounts fit to specimen holder MAXOT, 02606922
	90 x 50 x 35 mm. 3 pcs.
40300084	Silicone rubber mounting cup for mounting to be used especially with acrylic cold mounting resins with which it can be can be reused many times. It can also be used with epoxy resins.
	120 x 60 x 45 mm. 2 pcs.

	Seriform
40300007	Two parts polypropylene mounting cup with parallel sides for ClaroCit, VersoCit-2 and ViaFix.
	25 mm dia. 10 pcs.
40300008	30 mm dia. 10 pcs.
40300009	40 mm dia. 5 pcs.











MultiClips

Fixation Clips Taper section angle

AcryDye

EpoDye

	Others
40300012	Flangeform Mounting cup with flange. For AccuStop 30.
	30 mm dia. 3 pcs.
40300023	PCB-Coupon Mould Mould for mounting PCB-coupons. Consists of a hard part and a soft part (40300024).
	1 pcs.
40300024	Mould for mounting PCB-coupons. Replacement soft part for 40300023
	1 pcs.
40300027	MultiClips Multiple plastic clip for holding up to 5 small and thin specimens when mounting.
	50 pcs.
40300026	Fixation Clips Metal spring clip for holding small and thin specimens when mounting.
	6 mm dia. 100 pcs.
40300025	9 mm dia. 100 pcs.

	Others				
40300070	Taper Section Angle, Aluminum				
	Aluminum angle for mounting of taper sections.				
400000074	50 pcs.				
40300071	Taper Section Angle, Copper Copper angle for mounting of taper sections				
	50 pcs.				
40300069	Taper Section Angle, Steel Steel angle for mounting of taper sections.				
	50 pcs.				
40300091	ProntoFix Empty Bottle Empty bottle for premixing ProntoFix Hardener and ProntoFix Accelerator				
	1 bottle 500 ml, 1 label				
40300080	Consumables Kit Disposable consumables for CitoVac.				
	100 dispensing tubes and one chamber protector				
40300030	Consumables for Epovac				
	80 polyethylene tubes, 80 mixing cups, 80 stirrers and 2 rubber plugs				
40300032	For mixing of cold mounting systems.				
	400 mixing cups and 400 stirrers				
05696101	Mixer for mixing of Epoxy For optimal mixing of cold mounting epoxies.				
	1 mixer and 1 disposable propeller				
40300072	Disposable Propeller To be used with Struers Mixer (05696101).				
	20 pcs.				
40300081	AcryDye Dye for colouring of acrylic cold mounting resins: ClaroCit, DuroCit, VersoCit-2 and ViaFix.				
	Set with 20 ml of each red, blue and yellow dye				
40300047	Disposable Syringes Syringes for measuring of epoxy resins and hardeners.				
	5 ml. 100 pcs.				
40300048	10 ml. 100 pcs.				
40300049	20 ml. 50 pcs.				
40300002	EpoDye Fluorescent dye for use with EpoFix, ProntoFix, SpeciFix, CaldoFix, ClaroCit and ViaFix. Special filters for microscope required.				
	20 g				
40300076	Silicone Oil Silicone release agent				
	100 ml				



GRINDING

Reproducible Result - Time After Time

Whatever your material and whatever your preparation goal is, discover new opportunities to optimize your grinding process. Struers helps you to achieve a plane specimen and eliminate artifacts as efficiently as possible based on a systematic approach to improve your methods with high quality consumables that add value to your process.

MD-System

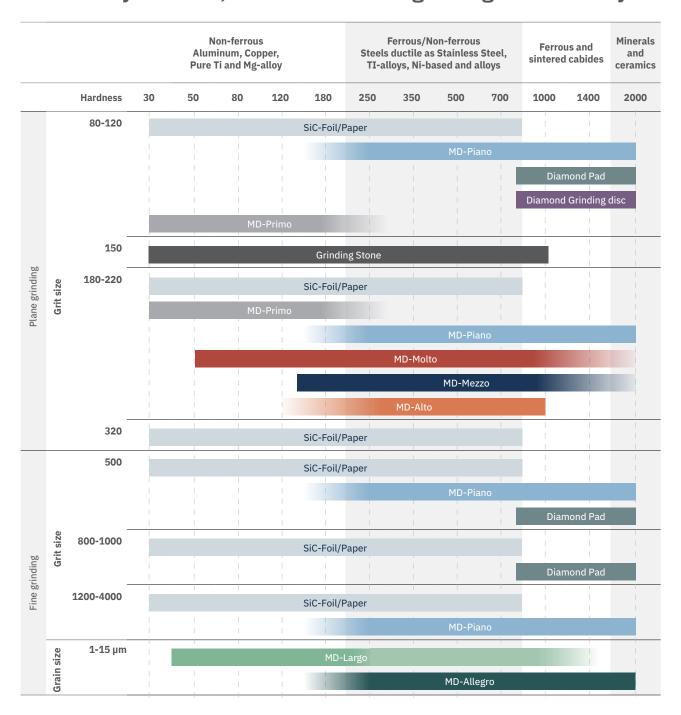
Our advanced MD-System comprises a magnetic supporting disc, combined with metal-backed grinding discs and polishing cloths. Because these grinding discs uniformly remove hard and soft phases in the specimen, you get consistently high material removal rates and maximum flatness. You can also significantly reduce preparation time and costs.

Only Struers consumables are designed to get the most out of Struers equipment.





Whatever your need, there is a Struers grinding solution for you





		Application area	Hardness range	Grinding stone or disc	Grit size (FEPA F)	Abrasive and bond
	•	Non-ferrous metals	40-250 HV	2S27	# 150	Resin bonded silicon carbide
	0	Non-ferrous metals	40-250 HV	2S36	# 150	Resin bonded silicon carbide
	•	Stainless steel and nickel-based alloys	150-500 HV	3A27	# 150	Resin bonded aluminum oxide
lane grinding	0	Stainless steel and nickel-based alloys	150-500 HV	3A36	# 150	Resin bonded aluminum oxide
High removal plane grinding	0	Medium hard ferrous metals	250-700 HV	4A27	# 150	Resin bonded aluminum oxide
	0	Medium hard ferrous metals	250-700 HV	4A36	# 150	Resin bonded aluminum oxide
	0	Hard steels or steels containing many carbides	500-800 HV	6A27	# 150	Resin bonded aluminum oxide
	0	Hard steels or steels containing many carbides	500-800 HV	6A36	# 150	Resin bonded aluminum oxide



Grinding Stones and Diamond Grinding Disc

Cooling media Run-in time pre-dressing needed Maintenance of the surface pre-dressing needed Stone/Disc diameter sizes / Equipment Water None Dressing with diamond dresser (on the equipment) 270 mm / Hexamatic Water None Dressing with diamond dresser (on the equipment) 356 mm / AbraPlan Water None Dressing with diamond dresser (on the equipment) 356 mm / AbraPlan Water None Dressing with diamond dresser (on the equipment) 270 mm / Hexamatic Water None Dressing with diamond dresser (on the equipment) 356 mm / AbraPlan Water None Dressing with diamond dresser (on the equipment) 356 mm / AbraPlan Water None Dressing with diamond dresser (on the equipment) 356 mm / AbraPlan (on the equipment)				
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Water None Dressing with diamond dresser 270 mm / Hexamatic Water None Dressing with diamond dresser 356 mm / AbraPlan Water None Dressing with diamond dresser 270 mm / Hexamatic Water None Dressing with diamond dresser 270 mm / Hexamatic Water None Dressing with diamond dresser (on the equipment) Water None Dressing with diamond dresser 270 mm / AbraPlan Water None Dressing with diamond dresser 270 mm / Hexamatic Water None Dressing with diamond dresser 356 mm / AbraPlan	Water	None		270 mm / Hexamatic
Water None Dressing with diamond dresser 356 mm / AbraPlan (on the equipment) Water None Dressing with diamond dresser 270 mm / Hexamatic (on the equipment) Water None Dressing with diamond dresser (on the equipment) Water None Dressing with diamond dresser (on the equipment) Water None Dressing with diamond dresser 270 mm / AbraPlan 270 mm / Hexamatic (on the equipment)	Water	None		356 mm / AbraPlan
Water None Dressing with diamond dresser (on the equipment) Water None Dressing with diamond dresser (on the equipment) Water None Dressing with diamond dresser (on the equipment) Water None Dressing with diamond dresser (on the equipment) Water None Dressing with diamond dresser (on the equipment) Water None Dressing with diamond dresser (on the equipment)	Water	None		270 mm / Hexamatic
Water None Dressing with diamond dresser (on the equipment) Water None Dressing with diamond dresser (on the equipment) Water None Dressing with diamond dresser 270 mm / Hexamatic (on the equipment)	Water	None		356 mm / AbraPlan
Water None Dressing with diamond dresser 270 mm / Hexamatic (on the equipment) Water None Dressing with diamond dresser 356 mm / AbraPlan	Water	None		270 mm / Hexamatic
(on the equipment) Water None Dressing with diamond dresser 356 mm / AbraPlan	Water	None		356 mm / AbraPlan
	Water	None		270 mm / Hexamatic
	Water	None		356 mm / AbraPlan

		Application area	Hardness range	Grinding stone or disc	Grit size (FEPA F)	Abrasive and bond
rinding		Ceramics and sintered carbides	>800 HV	8D27	# 120	Resin bonded diamonds
High removal plane grinding		Ceramics and sintered carbides	>800 HV	8D36	# 120	Resin bonded diamonds
High rer	(Metal and general applications	250-700 HV	PAMST	# 150	Resin bonded aluminum oxide



Grinding Stones and Diamond Grinding Disc

Cooling media	Run-in time - pre-dressing needed	Maintenance of the surface	Stone/Disc diameter sizes / Equipment
Water	None	Dressing with Aluminum oxide specimens (to be clamped into a specimen holder)	270 mm / Hexamatic
Water	None	Dressing with Aluminum oxide specimens (to be clamped into a specimen holder)	356 mm / AbraPlan
Water	None	Dressing with diamond dresser (on the equipment)	200 mm / Prepamatic & Prepamatic-2

		Application area	Hardness range	MD surface	Finish comparable to SiC Paper or Foil # size (FEPA P)	Abrasive and bond
		Ferrous metals & hard materials	150-2000 HV	MD-Piano (3 grits)	80, 120, 220	Embedded resin bonded diamonds
		Non-ferrous metals and soft materials	40-250 HV	MD-Primo (2 grits)	120, 220	Embedded resin bonded SiC
Plane grinding	•	Stainless steel & nickel-based alloys	120-1000 HV	MD-Alto	220	Resin bonded aluminum oxide
	5	Titanium alloys and hard materials containing titanium	150-2000 HV	MD-Mezzo	220	Embedded resin bonded diamonds
	5	Aluminum alloys and hard materials containing aluminum	50-2000 HV	MD-Molto	220	Embedded resin bonded diamonds
		Ferrous metals & hard materials	150-2000 HV	MD-Piano (2 grits)	500, 1200	Embedded resin bonded diamonds
inding		Materials harder than 150 HV	>150 HV	MD- Allegro	500	Suspension/ spray 15-6 µm
Fine grinding		Ferrous metals & hard materials	150-2000 HV	MD-Piano (2 grits)	2000, 4000	Embedded resin bonded diamonds
		Soft materials & composites with soft matrix	40-1500 HV	MD-Largo	1200	Suspension/ spray 9-3 µm

TECHNICAL DATA MD grinding

Cooling media	Run-in time – pre-dressing needed	Maintenance of the surface	Indicative lifetime per surface (Number of SiC Papers or Foils)	Surface diameter sizes
Water	None	Dressing with sintered alumina stick from time to time	100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Water	None	Dressing with sintered alumina stick from time to time	100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"*
Water	None	None for most materials. Diamond dressing tool available if needed	50	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Water	None	Dressing with sintered alumina stick from time to time	100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Water	None	Dressing with sintered alumina stick from time to time	100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Water	None	Dressing with sintered alumina stick from time to time	100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Lubricant / suspension / All-in-One	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Water	None	Dedicated sintered alumina stick. Dress from time to time.	300	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Lubricant / suspension / All-in-One	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"

	Application area	Hardness range	Surface	Grain sizes available	Abrasive and bond
Plane grinding	Ceramics, sintered carbides and very hard, ferrous metals	>600 HV	Diamond Pad	250 μm	Metal bonded diamonds
Plane	Ceramics, sintered carbides and very hard, ferrous metals	>600 HV	Diamond Pad	125 μm	Metal bonded diamonds
inding	Minerals, ceramics, sintered carbides and very hard ferrous metals	>600 HV	Diamond Pad	40 μm	Metal bonded diamonds
Fine grinding	Minerals, ceramics, sintered carbides and very hard ferrous metals	>600 HV	Diamond Pad	20 μm	Metal bonded diamonds

Adaptor for magnetic disc

Adaptor	Description	Surface diameter sizes
MD-Rondo	Adapter for use with self adhesive consumables on the MD-disc. For easy exchange of consumables.	200 mm / 8" 250 mm / 10" 300 mm / 12"



Diamond Pads – Self adhesive grinding surfaces

Cooling media	Run-in time – pre-dressing needed	Maintenance of the surface	Indicative lifetime per surface (Number of of SiC Paper or Foil)	Surface diameter sizes
Water	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12"
Water	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12"
Water	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12"
Water	None	None	>100	200 mm / 8" 250 mm / 10" 300 mm / 12"

		Application area	Hardness range	Surface	Grain sizes available (FEPA P)
	Silicon Carb	ide Grinding Foil			
Plane grinding		All materials	30 - 800 HV	SiC Foil	80, 120, 180, 220, 320
Fine grinding		All materials	30 - 800 HV	SiC Foil	500, 800, 1000, 1200
Fine g		All materials	30 - 400 HV	SiC Foil	2000, 4000*
	Silicon Carb	oide Grinding Paper			
Plane grinding		All materials	30 - 800 HV	SiC Paper	80, 120, 180, 220, 320
Fine grinding		All materials	30 - 800 HV	SiC Paper	500, 800, 1000, 1200
Fine gr		All materials	30 - 400 HV	SiC Paper	2000, 2400*, 4000*
					*not a part of FEPA P



Silicon Carbide Grinding Foils and Papers

Abbrasive	Backing material	Cooling media	Run-in time – pre-dressing needed	Surface diameter sizes
Adhesive bonded SiC grains	PET foil	Water	None	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Adhesive bonded SiC grains	PET foil	Water	None	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Adhesive bonded SiC grains	PET foil	Water	None	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Adhesive bonded SiC grains	Plain paper	Water	None	200 mm / 8" 230 mm / 9" 250 mm / 10" 305 mm / 12"
Adhesive bonded SiC grains	Plain paper	Water	None	200 mm / 8" 230 mm / 9" 250 mm / 10" 305 mm / 12"
Adhesive bonded SiC grains	Plain paper	Water	None	200 mm / 8" 230 mm / 9" 250 mm / 10" 305 mm / 12"

SiC Foil adaptors

	Adaptor	Description	Surface diameter sizes
MD-Disc	MD-Gekko	Adaptor for use with SiC Foils on the MD-Disc. For easy exchange of consumables	200 mm / 8" 250 mm / 10" 300 mm / 12" 350 mm / 14"
Aluminum preparation disc	Gekko PSA	Self adhesive foil for use with SiC Foils. To be glued onto the Aluminum disc	200 mm / 8" 250 mm / 10" 300 mm / 12"
Wet grinding disc Aluminum disc with retention ring	Cannot be used		

Grit / Grain size comparison

These are guideline values only. Grit sizes are defined as a range and not a single value. FEPA is the Federation of European Producers of Abrasives. ANSI is the American National Standards Institute. Struers grinding paper / foil follows the FEPA P standard while grinding stones and similar follow the Fepa F standard.

Grain size	200 μm	125 µm	82 µm	68 μm	46 μm
FEPA P (Europe)	P80	P120	P180	P220	P320
FEPA F (Europe)	F80	F100	F150	F180	F240
ANSI/UAMA (US)*	#80	#120	#180	#220	#280

^{*} ANSI standard B74.18



Silicon Carbide Grinding Foils and Papers

SiC Paper adaptors

	Adaptor	Description	Surface diameter sizes
MD-Disc	MD-Fuga	Metal disc with an adhesive layer for holding SiC Paper. Ensuring magnetic fixation on MD-Disc. For easy exchange of consumables	200 mm / 8" 250 mm / 10" 300 mm / 12"
Aluminum preparation disc	Adhesive Disc Alma	Double-sided adhesive discs for easy adhesion of SiC paper onto the Aluminum disc	200 mm / 8" 230 mm / 9" 250 mm / 10" 300 mm / 12"
Wet grinding disc Aluminum disc with retention ring	Can be used directly		

30 μm	22 μm	18 µm	15 µm	7 μm	4 μm
P500	P800	P1000	P1200	P2000	P4000
F320	F360	F400	F500	F800	F1200
#320	#360	#400	#500	#800	#1200







Grinding Stones

M0P15 Diamond Cup Wheel

Diamond Grinding Disc

High Removal Plane Grinding

	Grinding Stones
40800005	Grinding Stone PAMST Aluminum oxide grinding stone, for plane grinding of metals on Prepamatic and Prepamatic-2.
	Grit 150. 200 mm (8") dia.
40800177	Grinding stone 6A36 #150 Aluminum oxide grinding stone, for fast plane grinding of very hard steels/steels containing many carbides on AbraPlan and MAPS.
	Grit 150, 356 mm dia.
40800010	Grinding stone 4A36 #150 Aluminum oxide grinding stone, for fast plane grinding of metals >HV 250 on AbraPlan and MAPS.
	Grit 150. 356 mm (14") dia.
40800178	Grinding stone 3A36 #150 Aluminum oxide grinding stone, for fast plane grinding of nickel -based alloys (turbine blades) and stainless steels on AbraPlan and MAPS.
	Grit 150, 356 mm dia.
40800074	Grinding stone 2S36 #150 Silicon carbide grinding stone, for fast plane grinding of non-ferrous metals on AbraPlan and MAPS.
	Grit 150. 356 mm (14") dia.
40800181	Grinding stone 6A27 #150 Aluminum oxide grinding stone, for fast plane grinding of very hard steels/steels containing many carbides on Hexamatic.
	Grit 150, 270 mm dia.
40800179	Grinding stone 4A27 #150 Aluminum oxide grinding stone, for fast plane grinding of metals >HV 250 on Hexamatic.
	Grit 150, 270 mm dia.
40800182	Grinding stone 3A27 #150 Aluminum oxide grinding stone, for fast plane grinding of nickel based alloys (turbine blades) and stainless steels on Hexamatic.
	Grit 150, 270 mm dia.
40800180	Grinding stone 2S27 #150 Silicon carbide grinding stone, for fast plane grinding of non-ferrous metals on Hexamatic.
	Grit 150, 270 mm dia.

	Diamond Grinding Discs
40800202	Diamond grinding disc 8D36 #120 Resin bonded diamond disc, grooved in a square pattern. For plane grinding of ceramics and sintered carbides on AbraPlan and MAPS. Grit 120. 356 mm (14") dia.
40800183	Diamond grinding disc 8D27 #120 Resin bonded diamond grinding disc, for fast plane grinding of ceramics and

Resin bonded diamond grinding disc, for fast plane grinding of ceramics and sintered carbides on Hexamatic.

Grit 120, 270 mm dia.

	Diamond Cup Wheels
40800013	Diamond Cup Wheel M0P15 For grinding of hard, brittle materials on Discoplan-TS. Metal bonded.
	70 μm. 150 mm (6") dia. x 31.75 mm dia.
40800014	Diamond Cup Wheel B0P15 For grinding of hard, ductile materials on Discoplan-TS. Resin bonded.
	35 μm. 150 mm (6") dia. x 31.75 mm dia.

	Cup Wheels
40800083	Diamond Cup Wheel B0P10 For grinding of hard and ductile materials on Accutom-100 and Accutom-50. Resin bond. Special flange set for cup wheel (06176902 for Accutom-100 or 05016901 for Accutom-50) is required.
	40 μm. 100 mm (4") dia. x 12.7 mm dia.
40800082	Diamond Cup Wheel M0P10 For grinding of hard and brittle materials on Accutom-100 and Accutom-50. Metal bond. Special flange set for cup wheel (06176902 for Accutom-100 or 05016901 for Accutom-50) is required.
	91 μm. 100 mm (4") dia. x 12.7 mm dia.
40800185	40 μm. 100 mm (4") dia. x 12.7 mm dia.
40800184	25 μm. 100 mm (4") dia. x 12.7 mm dia.
40800120	SiC Cup Wheel 10P13 SiC Cup Wheel, for grinding of ductile materials on Accutom-100 and Accutom-50. Resin bond.
	125 μm. 130 mm (5") dia. x 12.7 mm dia.
40800199	Diamond cup wheel M0P15 For grinding of hard and brittle materials on Accutom-100. Metal bond. Special flange set for cup wheel (06176902) is required.
	91 μm. 150 mm (6") dia. x 12.7 mm dia.
40800200	40 μm. 150 mm (6") dia. x 12.7 mm dia.

Petrodisc-M
Disc for one-step fine grinding of materials >HV 150, using diamonds.
230 mm (9") dia.







MD-Mezzo Diamond Grinding Surface



MD-Molto Diamond Grinding Surface

MD Grinding

	MD-Piano
40800121	MD-Piano 80 Resin bonded diamond grinding surface for plane grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 80. For magnetic fixation on MD-disc.
	200 mm (8") dia.
40800122	250 mm (10") dia.
40800123	300 mm (12") dia.
40800124	350 mm (14") dia.
40800125	MD-Piano 120 Resin bonded diamond grinding surface for plane grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 120. For magnetic fixation on MD-disc.
	200 mm (8") dia.
40800126	250 mm (10") dia.
40800127	300 mm (12") dia.
40800128	350 mm (14") dia.
40800129	MD-Piano 220 Resin bonded diamond grinding surface for plane grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 220. For magnetic fixation on MD-disc.
	200 mm (8") dia.
40800130	250 mm (10") dia.
40800131	300 mm (12") dia.
40800132	350 mm (14") dia.
40800133	MD-Piano 500 Resin bonded diamond grinding surface for plane grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 500. For magnetic fixation on MD-disc.
	200 mm (8") dia.
40800134	250 mm (10") dia.
40800135	300 mm (12") dia.
40800136	350 mm (14") dia.
40800137	MD-Piano 1200 Resin bonded diamond grinding surface for fine grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 1200. For magnetic fixation on MD-disc.
40000433	200 mm (8") dia.
40800138	250 mm (10") dia.
40800139	300 mm (12") dia.

	MD-Piano
40800140	350 mm (14") dia.
40800141	MD-Piano 2000 Resin bonded diamond grinding surface for ultra fine grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 2400. For magnetic fixation on MD-disc.
	200 mm (8")
40800142	250 mm (10")
40800143	300 mm (12")
40800144	350 mm (14")
40800145	MD-Piano 4000 Resin bonded diamond grinding surface for ultra fine grinding of materials HV 150 - 2000. Surface finish comparable to SiC-Paper grit 4000. For magnetic fixation on MD-disc.
	200 mm (8")
40800146	250 mm (10")
40800147	300 mm (12")
40800148	350 mm (14")

	MD-Alto
40800204	MD-Alto 180 Resin bonded aluminum oxide grinding surface for plane grinding of ductile materials as stainless steel & nickel-based alloys. Surface finish comparable to SiC-Paper grit 220 (FEPA P). For magnetic fixation on MD-Disc
	200 mm (8") dia. 2 pcs.
40800205	250 mm (10") dia. 2 pcs.
40800206	300 mm (12") dia. 2 pcs.
40800207	350 mm (14") dia. 2 pcs.

	MD-Molto
40800187	MD-Molto 220 Resin bonded diamond grinding surface for plane grinding of Aluminum alloys. Surface finish comparable to SiC Paper/Foil #220. For magnetic fixation on MD-disc.
	200 mm (8") dia.
40800188	250 mm (10") dia.
40800189	300 mm (12") dia.
40800190	350 mm (14") dia.

	MD-Mezzo
40800191	MD-Mezzo 220 Resin bonded diamond grinding surface for plane grinding of titanium alloys. Surface finish comparable to SiC Paper/Foil #220. For magnetic fixation on MD-disc.
	200 mm (8") dia.
40800192	250 mm (10") dia.
40800193	300 mm (12") dia.
40800194	350 mm (14") dia.

	MD-Primo
40800085	MD-Primo 120 Grinding surface for plane grinding of materials HV 40-250. Surface finish comparable to SiC-Paper grit 120. SiC abrasive embedded in a resin bond. For magnetic fixation on MD-disc
	200 mm (8") dia.
40800086	250 mm (10") dia.
40800087	300 mm (12") dia.
40800118	350 mm (14") dia.
40800088	MD-Primo 220 Grinding surface for plane grinding of materials HV 40-250. Surface finish comparable to SiC-Paper grit 220. SiC abrasive embedded in a resin bond. For magnetic fixation on MD-disc
	200 mm (8") dia.
40800089	250 mm (10") dia.
40800090	300 mm (12") dia.

	MD-Allegro
40500134	Maintenance-free composite surface for one-step fine grinding of materials >HV 150, using diamonds. For magnetic fixation on MD-disc.
	200 mm (8") dia. 1 pc.
40500065	200 mm (8") dia. 5 pcs.
40500135	250 mm (10") dia. 1 pc.
40500066	250 mm (10") dia. 5 pcs.
40500136	300 mm (12") dia. 1 pc.
40500067	300 mm (12") dia. 5 pcs.
40500140	350 mm (14") dia. 5 pcs.

	MD-Largo
40500137	Maintenance-free composite surface for one-step fine grinding of materials >HV 40, using diamonds. For ductile materials like non-ferrous metals and stainless steel, but also for brittle materials like ceramics and hard minerals. For magnetic fixation on MD-disc.
	200 mm (8") dia. 1 pc.
40500097	200 mm (8") dia. 5 pcs.
40500138	250 mm (10") dia. 1 pc.
40500098	250 mm (10") dia. 5 pcs.
40500139	300 mm (12") dia. 1 pc.
40500099	300 mm (12") dia. 5 pcs.
40500141	350 mm (14") dia. 5 pcs.

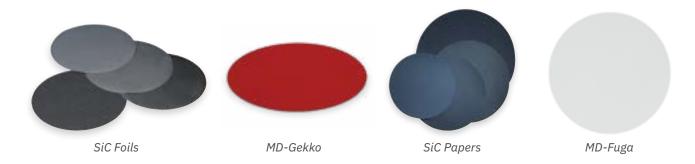


Diamond Pads

	300 mm Diamond Pad
40800037	Diamond Pad Metal bonded diamond grinding pad, for grinding of hard materials (>HV 600). Self-adhesive.
	250 μm. 300 mm (12") dia.
40800038	125 μm. 300 mm (12") dia.
40800039	40 μm. 300 mm (12") dia.
40800040	20 μm. 300 mm (12") dia.

	250 mm Diamond Pad
40800033	Diamond Pad Metal bonded diamond grinding pad, for grinding of hard materials (>HV 600). Self-adhesive.
	250 μm. 250 mm (10") dia.
40800034	125 μm. 250 mm (10") dia.
40800035	40 μm. 250 mm (10") dia.
40800036	20 μm. 250 mm (10") dia.

	200 mm Diamond Pad
40800025	Diamond Pad Metal bonded diamond grinding pad, for grinding of hard materials (>HV 600). Self-adhesive.
	250 μm. 200 mm (8") dia.
40800026	125 μm. 200 mm (8") dia.
40800027	40 μm. 200 mm (8") dia.
40800028	20 μm. 200 mm (8") dia.



Silicon Carbide Grinding Foils and Papers

	350 mm SiC Foil
40400260	SiC Foil For wet grinding of materials (HV 30 – 800). PET foil backing, for use on MD-Gekko or Gekko PSA.
	Grit 80 (US #80). 350 mm (14") dia. 50 pcs.
40400261	Grit 120 (US #120). 350 mm (14") dia. 50 pcs.
40400262	Grit 180 (US #180). 350 mm (14") dia. 50 pcs.
40400263	Grit 220 (US #220). 350 mm (14") dia. 50 pcs.
40400264	Grit 320 (US #280). 350 mm (14") dia. 100 pcs.
40400265	Grit 500 (US #360). 350 mm (14") dia. 100 pcs.
40400266	Grit 800 (US #400). 350 mm (14") dia. 100 pcs.
40400267	Grit 1000 (US #500). 350 mm (14") dia. 100 pcs.
40400268	Grit 1200 (US #600). 350 mm (14") dia. 100 pcs.
40400269	For wet grinding of materials (HV 30 – 400). PET foil backing, for use on MD-Gekko or Gekko PSA.
	Grit 2000 (US #1000). 350 mm (14") dia. 50 pcs.
40400272	For wet grinding of materials (HV 30 – 400). Adhesive backing, for use on MD-Gekko or Gekko PSA.
	Grit 4000 (US #1200). 350 mm (14") dia. 50 pcs.

	300 mm SiC Foil
40400240	SiC Foil For wet grinding of materials (HV 30 – 800). PET foil backing, for use on MD-Gekko or Gekko PSA.
	Grit 80 (US #80). 300 mm (12") dia. 50 pcs.
40400241	Grit 120 (US #120). 300 mm (12") dia. 50 pcs.
40400242	Grit 180 (US #180). 300 mm (12") dia. 50 pcs.
40400243	Grit 220 (US #220). 300 mm (12") dia. 50 pcs.
40400244	Grit 320 (US #280). 300 mm (12") dia. 100 pcs.
40400245	Grit 500 (US #360). 300 mm (12") dia. 100 pcs.
40400246	Grit 800 (US #400). 300 mm (12") dia. 100 pcs.
40400247	Grit 1000 (US #500). 300 mm (12") dia. 100 pcs.
40400248	Grit 1200 (US #600). 300 mm (12") dia. 100 pcs.
40400249	For wet grinding of materials (HV 30 – 400). PET foil backing, for use on MD-Gekko or Gekko PSA.
	Grit 2000 (US #1000). 300 mm (12") dia. 50 pcs.

	300 mm SiC Foil
40400252	For wet grinding of materials (HV 30 – 400). Adhesive backing, for use on MD-Gekko or Gekko PSA.
	Grit 4000 (US #1200). 300 mm (12") dia. 50 pcs.

	250 mm SiC Foil
40400220	SiC Foil For wet grinding of materials (HV 30 – 800). PET foil backing, for use on MD-Gekko or Gekko PSA.
	Grit 80 (US #80). 250 mm (10") dia. 50 pcs.
40400221	Grit 120 (US #120). 250 mm (10") dia. 50 pcs.
40400222	Grit 180 (US #180). 250 mm (10") dia. 50 pcs.
40400223	Grit 220 (US #220). 250 mm (10") dia. 50 pcs.
40400224	Grit 320 (US #320). 250 mm (10") dia. 100 pcs.
40400225	Grit 500 (US #360). 250 mm (10") dia. 100 pcs.
40400226	Grit 800 (US #400). 250 mm (10") dia. 100 pcs.
40400227	Grit 1000 (US #500). 250 mm (10") dia. 100 pcs.
40400228	Grit 1200 (US #600). 250 mm (10") dia. 100 pcs.
40400229	For wet grinding of materials (HV 30 – 400). PET foil backing, for use on MD-Gekko or Gekko PSA.
	Grit 2000 (US #1000). 250 mm (10") dia. 50 pcs.
40400232	For wet grinding of materials (HV 30 – 400). Adhesive backing, for use on MD-Gekko or Gekko PSA.
	Grit 4000 (US #1200). 250 mm (10") dia. 50 pcs.

	200 mm SiC Foil
40400200	SiC Foil For wet grinding of materials (HV 30 – 800). PET foil backing, for use on MD-Gekko or Gekko PSA.
	Grit 80 (US #80). 200 mm (8") dia. 50 pcs.
40400201	Grit 120 (US #120). 200 mm (8") dia. 50 pcs.
40400202	Grit 180 (US #180). 200 mm (8") dia. 50 pcs.
40400203	Grit 220 (US #220). 200 mm (8") dia. 50 pcs.
40400204	Grit 320 (US #280). 200 mm (8") dia. 100 pcs.
40400205	Grit 500 (US #360). 200 mm (8") dia. 100 pcs.
40400206	Grit 800 (US #400). 200 mm (8") dia. 100 pcs.
40400207	Grit 1000 (US #500). 200 mm (8") dia. 100 pcs.
40400208	Grit 1200 (US #600). 200 mm (8") dia. 100 pcs.
40400209	For wet grinding of materials (HV 30 – 400). PET foil backing, for use on MD-Gekko or Gekko PSA.
	Grit 2000 (US #1000). 200 mm (8") dia. 50 pcs.
40400212	For wet grinding of materials (HV 30 – 400). Adhesive backing, for use on MD-Gekko or Gekko PSA.
	Grit 4000 (US #1200). 200 mm (8") dia. 50 pcs.

	MD-Gekko
49900047	MD-Gekko Adapter for use with SiC Foil or self adhesive consumables on the MD-System, for easy removal. For magnetic fixation on MD-Disc.
	200 mm dia. 2 pcs.
49900048	250 mm dia. 2 pcs.
49900049	300 mm dia. 2 pcs.
49900050	350 mm dia. 2 pcs.
49900053	Gekko PSA Self adhesive Gekko Foil for use with SiC Foil or self adhesive consumables. To be glued on an Aluminum disc.
	200 mm dia. 2 pcs.
49900054	250 mm dia. 2 pcs.
49900055	300 mm dia. 2 pcs.

	305 mm SiC Paper
40400062	Silicon Carbide Grinding Paper For wet grinding of materials (HV 30 - 800). Plain back.
	Grit 80 (US #80). 305 mm (12") dia. 50 pcs.
40400063	Grit 120 (US #120). 305 mm (12") dia. 50 pcs.
40400064	Grit 180 (US #180). 305 mm (12") dia. 50 pcs.
40400128	Grit 220 (US #220). 305 mm (12") dia. 50 pcs.
40400032	Grit 320 (US #280). 305 mm (12") dia. 100 pcs.
40400033	Grit 500 (US #360). 305 mm (12") dia. 100 pcs.
40400034	Grit 800 (US #400). 305 mm (12") dia. 100 pcs.
40400035	Grit 1000 (US #500). 305 mm (12") dia. 100 pcs.
40400036	Grit 1200 (US #600). 305 mm (12") dia. 100 pcs.
40400187	For wet grinding of materials (HV 30 - 400). Plain back.
	Grit 2000 (US #1000). 305 mm (12") dia. 50 pcs.
40400037	Grit 2400 (US #1000). 305 mm (12") dia. 50 pcs.
40400038	Grit 4000 (US #1200). 305 mm (12") dia. 50 pcs.

	250 mm SiC Paper
40400065	Silicon Carbide Grinding Paper For wet grinding of materials (HV 30 - 800). Plain back.
	Grit 80 (US #80). 250 mm (10") dia. 50 pcs.
40400066	Grit 120 (US #120). 250 mm (10") dia. 50 pcs.
40400067	Grit 180 (US #180). 250 mm (10") dia. 50 pcs.
40400127	Grit 220 (US #220). 250 mm (10") dia. 50 pcs.
40400069	Grit 320 (US #280). 250 mm (10") dia. 100 pcs.
40400070	Grit 500 (US #360). 250 mm (10") dia. 100 pcs.
40400071	Grit 800 (US #400). 250 mm (10") dia. 100 pcs.
40400072	Grit 1000 (US #500). 250 mm (10") dia. 100 pcs.
40400073	Grit 1200 (US #600). 250 mm (10") dia. 100 pcs.
40400185	For wet grinding of materials (HV 30 - 400). Plain back
	Grit 2000 (US #1000). 250 mm (10") dia. 50 pcs.
40400026	Grit 2400 (US #1000). 250 mm (10") dia. 50 pcs.
40400027	Grit 4000 (US #1200). 250 mm (10") dia. 50 pcs.

	230 mm SiC Paper
40400059	Silicon Carbide Grinding Paper For wet grinding of materials (HV 30 - 800). Plain back
	Grit 80 (US #80). 230 mm (9") dia. 50 pcs.
40400060	Grit 120 (US #120). 230 mm (9") dia. 50 pcs.
40400061	Grit 180 (US #180). 230 mm (9") dia. 50 pcs.
40400126	Grit 220 (US #220). 230 mm (9") dia. 50 pcs.
40400019	Grit 320 (US #280). 230 mm (9") dia. 100 pcs.
40400020	Grit 500 (US #360). 230 mm (9") dia. 100 pcs.
40400021	Grit 800 (US #400). 230 mm (9") dia. 100 pcs.
40400022	Grit 1000 (US #500). 230 mm (9") dia. 100 pcs.
40400023	Grit 1200 (US #600). 230 mm (9") dia. 100 pcs.
40400183	For wet grinding of materials (HV 30 - 400). Plain back
	Grit 2000 (US #1000). 230 mm (9") dia. 50 pcs.
40400024	Grit 2400 (US #1000). 230 mm (9") dia. 50 pcs.
40400025	Grit 4000 (US #1200). 230 mm (9") dia. 50 pcs.

	200 mm SiC Paper
40400056	Silicon Carbide Grinding Paper For wet grinding of materials (HV 30 - 800). Plain back.
	Grit 80 (US #80). 200 mm (8") dia. 50 pcs.
40400057	Grit 120 (US #120). 200 mm (8") dia. 50 pcs.
40400058	Grit 180 (US #180). 200 mm (8") dia. 50 pcs.
40400125	Grit 220 (US #220). 200 mm (8") dia. 50 pcs.
40400008	Grit 320 (US #280). 200 mm (8") dia. 100 pcs.
40400009	Grit 500 (US #360). 200 mm (8") dia. 100 pcs.
40400010	Grit 800 (US #400). 200 mm (8") dia. 100 pcs.
40400011	Grit 1000 (US #500). 200 mm (8") dia. 100 pcs.
40400012	Grit 1200 (US #600). 200 mm (8") dia. 100 pcs.
40400181	For wet grinding of materials (HV 30 - 400). Plain back
	Grit 2000 (US #1000). 200 mm (8") dia. 50 pcs.
40400013	Grit 2400 (US #1000). 200 mm (8") dia. 50 pcs.
40400014	Grit 4000 (US #1200). 200 mm (8") dia. 50 pcs.

MD-Fuga
Metal disc with an adhesive layer for holding plain grinding papers. Can be used repeatedly. For magnetic fixation on MD-Disc
200 mm (8") dia. 5 pcs.
250 mm (10") dia. 5 pcs.
300 mm (12") dia. 5 pcs.

	Adhesives for Grinding Paper
49900006	Adhesive Discs Double-sided adhesive discs for easy adhesion of plain grinding papers on grinding/polishing discs. Can be used repeatedly
	200 mm (8") dia. 10 pcs.
49900007	230 mm (9") dia. 10 pcs.
49900015	250 mm (10") dia. 10 pcs.
49900008	300 mm (12") dia. 10 pcs.

	Other Grinding Paper
40400041	Silicon Carbide Grinding Paper For wet grinding of materials (HV 30 - 800) on Lunn-Major and Lunn-Labor. Roll. Plain back
	Grit 220 (US #220). 18 m x 7.5 cm
40400042	Grit 320 (US #280). 20 m x 7.5 cm
40400043	Grit 500 (US #360). 20 m x 7.5 cm
40400044	Grit 1000 (US #500). 25 m x 7.5 cm



Diamond film

Abrasive Film

	Diamond Film
40400179	For polishing with TriPod polishing fixture. PET foil backing
	0.5 μm. 200 mm (8") dia. 5 pcs.
40400178	1 μm. 200 mm (8") dia. 5 pcs.
40400177	3 μm. 200 mm (8") dia. 5 pcs.
40400176	6 μm. 200 mm (8") dia. 5 pcs.
40400175	9 μm. 200 mm (8") dia. 5 pcs.
40400173	30 μm. 200 mm (8") dia. 5 pcs.

	Aluminum Oxide Film
40400172	For polishing with TriPod polishing fixture. PET foil backing
	0.05 μm. 200 mm (8") dia. 50 pcs.
40400170	0.3 μm. 200 mm (8") dia. 50 pcs.
40400169	1 μm. 200 mm (8") dia. 50 pcs.







Specimen Chair

ViaKit Caps

Electrolyte

Controlled Material Removal

	TargetSystem Consumables
05756914	30 mm dia. Specimen Chair 30 mm dia. adapter for cross-sectioning on TargetMaster. To be inserted into TargetGrip (05756916). Max. specimen size 23 x 20.5 mm. Disposable.
	30 mm dia. 50 pcs.
05756908	40 mm dia. Specimen Chair 40 mm dia. adapter for cross-sectioning on TargetMaster. To be inserted into TargetGrip (05756901). Max. specimen size 29 x 20.5 mm. Disposable.
	40 mm dia. 50 pcs.
05756917	40 mm Elevated Specimen Chair 40 mm Adapter for cross-sectioning (disposable), 50 pcs. External specimen platform for use with TargetX. Max specimen size ca 5x15mm.Use of this specimen chair requires modification of TargetMaster.
05756912	Mould Insert Mould insert for use with 40 mm dia. mount cups.Max specimen size 35 x 20 mm.
	40 mm dia. 50 pcs.
05756907	Resin Barrier Metal labels to be used together with Specimen chair (05756908 and 05756914).
	50 pcs.

	ViaKit/-Basic Consumables
40300056	ViaKit End Caps End caps for use with ViaKit Mounting Rings (40300055). 250 pcs.
40300057	ViaKit Positioning Pins Positioning pins, 1.98 mm dia., length 43 mm. Suitable for use with ViaKit and A ccuStop-40/Flangeform.
	500 pcs.

	Others Dressing
40800045	Diamond Point Diamond point for dressing tool. For Hexamatic, MAPS, AbraPlan-10/-20/-30, Prepamatic and Miniplan. 1 pcs. 5 mm dia.
02606962	Diamond Point Diamond point for dressing tool.Use 40800045 on AbraPlan-10/-20/-30 for best planeness.
	1 pcs. 8 mm dia.

	Others Dressing
02606901	Diamond Point Diamond point for dressing tool, For Abraplan.
	1 pcs. 8 mm dia.
40800044	Dressing Stick Aluminum oxide stick for truing and opening of diamond and CBN cut-off wheels, diamond grinding discs and the grinding discs in the MD-System (not for use with MD-Piano 2000/4000).
	1 pcs.
40800186	Dressing Stick Aluminum oxide stick for truing and opening of MD-Piano 2000 and 4000 diamond fine grinding discs.
	Dressing stick MD-Piano 2000/4000
40800203	Dressing specimen Aluminum oxide specimens for truing and opening of diamond grinding discs 8D27 and 8D36. To be clamped in specimen holder 05946906 for Hexamatic or 02606920 for AbraPlan.
	25 x 50 x 32 mm (1" x 2" x 1.25") 6 pcs.
40800240	Diamond dresser Manual diamond dresser for MD-Alto. To retain the removal rate.









Flapper Wheel

Polishing Cloths

Transcopy kit

Non-destructive testing

	Grinding
40800053	Flapper Wheel For coarse grinding with TransPol.
	Grit 80. 40 mm (1½") dia. x 10 mm, shaft 6 mm dia. 5 pcs.
40400049	Silicon Carbide Paper Silicon carbide grinding paper, for grinding on Transpol-2 and Transpol. Self-adhesive.
	Grit 60. 32 mm (1¼") dia. 100 pcs.
40400129	Grit 120. 32 mm (1¼") dia. 100 pcs.
40400130	Grit 240. 32 mm (1¼") dia. 100 pcs.
40400131	Grit 500. 32 mm (1¼") dia. 100 pcs.

	Polishing Cloth
40500040	DP-Dur Cloth for diamond polishing. For use with Transpol. Satin woven silk. Self-adhesive.
	32 mm (1¼") dia. 25 pcs.

	Polishing Cloth
40500041	DP-Mol Cloth for diamond polishing. For use with Transpol. Woven wool. Self-adhesive.
	32 mm (1¼") dia. 25 pcs.
40500042	DP-Nap Cloth for diamond polishing. For use with Transpol. Short synthetic nap. Self-adhesive.
	32 mm (1 ¹ / ₄ ") dia. 25 pcs.
40500043	OP-Felt Cloth for oxide polishing. For use with Transpol. Thick felt. Self-adhesive.
	32 mm (1 ¹ / ₄ ") dia. 25 pcs.
40500145	DP-Dac Cloth for diamond polishing. For Transpol-2 and Transpol. Satin woven acetate. Self-adhesive.
	32 mm (1 ¹ / ₄ ") dia. 25 pcs.
03926904	Polishing Chamber Flexible type. For MoviPol-3 and -5
	50 pcs.

	Silicon Carbide Powder
40701023	For lapping mineralogical or ceramic specimens. To be used on cast iron lapping disc.
	Grit 120 (FEPA F). 500 g
40701024	Grit 220 (FEPA F). 500 g
40701025	Grit 320 (FEPA F). 500 g
40701026	Grit 400 (FEPA F). 500 g
40701027	Grit 600 (FEPA F). 500 g
40701028	Grit 800 (FEPA F). 500 g
40701029	Grit 1000 (FEPA F). 300 g
40701030	Grit 1200 (FEPA F). 300 g

*** Hazadous goods fee per shipment







Silicon Carbide Powder

Eukitt

Cast Iron Disc

Mineralogy

	Glass Slides
80100001	Standard Slides Standard Slides for thin sections, with ground edges. 1.2 - 1.5 mm thick.
	27 x 46 mm. 100 pcs.
40701018	28 x 48 mm. 100 pcs.
40701020	Microcover Glass To be used for covering thin sections.
	24 x 32 mm. 100 pcs.

	Adhesives
41000005	TriPod Wax Removable resin for mounting of specimens on TriPod Specimen Mounts.
	1 stick
41000004***	Eukitt Removable resin for fixation of cover glass on thin sections.

500 ml







Adhesive Tape

Tape Kit

Disposable Bowl Liner

General Purpose

	Others
49900044	Adhesive Tape To be used with specimen holder MAXAD (02606950), MAXSO (02606926), MAXSA (02606928), MAXON (02606927) or MAXAN (02606929). Double-sided adhesive tape in roll.
	38 mm wide. 25 m
49900012***	Protecting Lacquer For protecting the specimen surface
	400 ml. In spray can

	Others
49900027	Cleaner For heavy duty cleaning. Solopol (Krestopol).
	4 tubes of 250 ml
49900000	Concentrated Soap Solution To be used in Hexamatic, Prepamatic, TargetMaster, MAPS and for ultrasonic cleaning.
	11
40900043	Engraver Tip Tungsten carbide tipped point for Engraver.
	1 pc.
40900041	Tape Kit - TenuPol For electrolytic blanking of 3 mm / 2.3 mm specimens to be electrolytically thinned for TenuPol
	1 roll of tape and 1 hole punch
49900052	Disposable Bowl Liner For Tegramin-30 and -25.
	5 pcs.
49900056	For Tegramin-20.
	5 pcs.
49900041	For TegraPol-11, -15 and LaboPol-1, -2, -4, -5, -6.
	5 pcs
49900061	For LaboPol-20.
	5 pcs.
49900062	For LaboPol-30/-60.
	5 pcs.
49900067	For AbraPol-30
	3 pcs.
49900033	Protection caps Plastic caps for cylindrical specimens or mounts.
	25 mm dia. 100 pcs.
49900034	30 mm dia. 100 pcs.
49900035	40 mm dia. 100 pcs.
49900036	50 mm dia. 100 pcs.
49900063	1¼" dia. 100 pcs.

POLISHING

Struers Polishing Consumables

Removing deformation and obtaining a highly reflective surface require different abrasives and polishing cloths with different resiliences. The ideal way to ensure premium polishing performance is to use Struers consumables with our equipment.

That's because each machine and consumable are designed to work together to control all of the parameters of the polishing process – helping you to get the most out of your investment.

Choose your cloth, diamond grain size, and lubricant, depending on the material you're polishing. Whether you're interested in Oxide Polishing or Diamond Polishing, Struers has what you need.

DiaPro Efficiency

DiaPro is a line of diamond suspensions especially developed for extra-high performance and efficiency - reducing preparation times by 30% on average. Each DiaPro suspension has been developed and optimized for a specific surface, delivering exceptional planeness, edge retention, and reproducibility.

Only Struers consumables are designed to get the most out of Struers equipment.





Selection Guide for MD-Polishing Cloth

Cloth	Characteristics	Recommended use	Abrasive range	Resilience	Hardness
MD-Plan	Coated, woven polyester	Fine grinding of soft metals Pre-polishing of hard materials	15 - 3 μm	Very low	Hard
MD-Pan	Impregnated, non-woven technical textile	Fine grinding of soft metals Pre-polishing of hard and brittle materials	15 - 1 μm	Very low	Hard
MD-Sat	Woven acetate	Fine grinding and polishing of ferrous metals, non-ferrous metals, coatings and plastics	9 - 1 μm	Medium	Hard
MD-Dur	Satin woven natural silk	Fine grinding and polishing of ferrous metals, non-ferrous metals, coatings and plastics	9 - 1 μm	Medium	Hard
MD-Dac	Satin woven acetate	Polishing of all materials	9 - 3 μm	Medium	Hard
MD-Mol MD-Mol APS	Taffeta woven 100 % wool	Polishing of ferrous and non-ferrous metals and polymers APS for Automatic Preparation Systems	≤ 3 µm	High	Soft
MD-Plus	Synthetic nap	One step polishing for sintered carbides and steels	≤ 3 µm	High	Soft
MD-Floc	Synthetic nap	Polishing of all materials	≤ 3 µm	Very high	Very soft
MD-Nap	Synthetic short nap	Final polishing of all materials	≤ 1 µm	Very high	Very soft
MD-Chem / MD-Chem NonStick	Porous neoprene	Final polishing of all materials		High	Soft

Metalogram Instructions

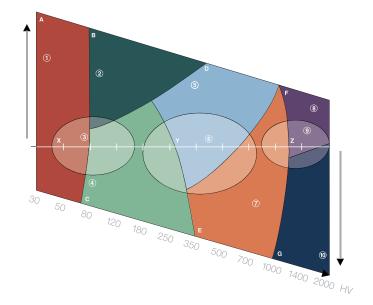
The Metalogram is our way of creating generic methods based on the two parameters, ductility and hardness.

The selection of a preparation method in the Metalogram depends on these two properties:

- Hardness: the easiest attribute to measure but is not sufficient information about a material to find the correct preparation method.
- Ductility: the ability of a material to deform plastically and is far more important. How does a material actually respond to mechanical abrasion? Is it easily deformed, or do we get cracks and pull-outs during preparation?

Description of the Metalogram

The x-axis represents the hardness in Vickers. The values are not shown in a linear way because the variety of preparation methods for softer materials is greater than for hard ones. The shape of the Metalogram results from soft materials generally being more ductile and hard materials usually being more brittle.



Preparation Methods Overview

			Plane	Fine	Diamond	Oxide
			Grinding	Grinding	Polishing	Polishing
Method A Ex. Al 99,5 sand cast		Surfac	ee SiC-Foil (on MD-Gekko)	MD-Largo	MD-Mol	MD-Chem
	500	Abrasi Grit/G		DiaPro Allegro/Largo 9 µm	DiaPro Mol R 3 μm	OP-S NonDry 0.04 μm
Method B Ex. Cu pure		Surfac	e SiC Foil (on MD-Gekko)	MD-Largo	MD-Mol	MD-Chem
		Abrasi Grit/G	,	DiaPro Allegro/Largo 9 µm	DiaPro Mol R 3 μm	OP-S NonDry 0.04 μm
Method C Ex. Cu 58 Zn 42		Surfac	e SiC Foil (on MD-Gekko)	MD-Largo	MD-Dac	MD-Chem
		Abrasi Grit/G		DiaPro Allegro/Largo 9 µm	DiaPro Dac 3 μm	OP-S NonDry 0.04 μm
Method D Ex. Nodular cast iron		Surfac	ce MD-Piano 220	MD-Allegro	MD-Dac	MD-Chem
	00 0	Abrasi Grit/G	,	DiaPro Allegro/Largo 9 µm	DiaPro Dac 3 μm	OP-A 0.02 μm
Method E Ex. White cast iron	The state of	Surfac	e MD-Piano 220	MD-Allegro	MD-Dur	MD-Chem
		Abrasi Grit/G		DiaPro Allegro/Largo 9 µm	DiaPro Dur 3 μm	OP-U NonDry 0.04 μm
Method F Ex. WC in Cu matrix	TO CY	Surfac	e MD-Piano 120	MD-Allegro	MD-Dac	MD-Chem
		Abrasi Grit/G		DiaPro Allegro/Largo 9 µm	DiaPro Dac 3 μm	OP-U NonDry 0.04 μm
Method G Ex. Al ₂ O ₃		Surfac	e MD-Piano 220	MD-Plan		MD-Chem
		Abrasi Grit/G		DiaPro Plan 9 μm		OP-S NonDry 0.04 μm
Method X Ex. MgAl alloy	3	Surfac	e SiC-Foil (on MD-Gekko)	MD-Largo	MD-Mol	
	TO THE	Abrasi Grit/G		DiaPro Allegro/Largo 9 µm	DiaPro Mol R 3 μm	
Method Y Ex. Medium carbon steel		Surfac	e MD-Piano 220	MD-Plan	MD-Floc	
		Abrasi Grit/G		DiaPro Plan 9 μm	DiaPro Floc 3 μm	
Method Z Ex. Sintered carbide with	Control of the Contro	Surfac	e MD-Piano 120	MD-Allegro	MD-Dac	
coatings		Abrasi Grit/G		DiaPro Allegro/Largo 9 µm	DiaPro Dac 3 μm	



MD Polishing Cloths

	MD-Plan
40500086	Polishing cloth for fine grinding of soft metals and pre-polishing of hard materials. Coated woven polyester. For magnetic fixation on MD-Disc
	200 mm (8") dia. 5 pcs.
40500087	250 mm (10") dia. 5 pcs.
40500088	300 mm (12") dia. 5 pcs.
40500147	350 mm (14") dia. 5 pcs.

	MD-Pan
40500157	Polishing cloth for fine grinding of soft metals and pre-polishing of hard and brittle materials. Impregnated non-woven technical textile. For magnetic fixation on MD-Disc.
	200 mm (8") dia. 5 pcs.
40500158	250 mm (10") dia. 5 pcs.
40500159	300 mm (12") dia. 5 pcs.
40500160	350 mm (14") dia. 5 pcs.

	MD-Dur
40500074	Polishing cloth for fine grinding and polishing of ferrous metals, non-ferrous metals, coatings, plastics. Satin woven natural silk. For magnetic fixation on MD-Disc.
	200 mm (8") dia. 5 pcs.
40500075	250 mm (10") dia. 5 pcs.
40500076	300 mm (12") dia. 5 pcs.
40500149	350 mm (14") dia. 5 pcs.

	MD-Dac
40500071	Polishing cloth for polishing of all materials. Is used for diamond with particle size 9 - 3 µm. Satin woven acetate. For magnetic fixation on MD-Disc.
	200 mm (8") dia. 5 pcs.
40500095	250 mm (10") dia. 5 pcs.
40500073	300 mm (12") dia. 5 pcs.
40500150	350 mm (14") dia. 5 pcs.

	MD-Plus
40500089	Polishing cloth for one step polishing of sintered carbides and steels. Synthetic nap. For magnetic fixation on MD-Disc.
	200 mm (8") dia. 5 pcs.
40500090	250 mm (10") dia. 5 pcs.
40500091	300 mm (12") dia. 5 pcs.
40500151	350 mm (14") dia. 5 pcs.
	MD-Mol
40500077	Polishing cloth for polishing of ferrous and non-ferrous metals and polymers. Taffeta woven 100 % wool. For magnetic fixation on MD-Disc.
40500050	200 mm (8") dia. 5 pcs.
40500078	250 mm (10") dia. 5 pcs.
40500079	300 mm (12") dia. 5 pcs.
40500152	350 mm (14") dia. 5 pcs.
	MD-Mol APS
40500155	Polishing cloth to be used on automatic preparation systems for polishing of ferrous and non-ferrous metals and polymers. Taffeta woven 100 % wool. For magnetic fixation on MD-Disc. 300 mm (12") dia. 5 pcs.
40500156	350 mm (14") dia. 5 pcs.
	MD-Nap
40500080	Polishing cloth for final polishing of all materials. Short synthetic nap. For magnetic fixation on MD-Disc.
4050004	200 mm (8") dia. 5 pcs.
40500081	250 mm (10") dia. 5 pcs.
40500082	300 mm (12") dia. 5 pcs.
40500153	350 mm (14") dia. 5 pcs.
	MD-Chem
40500092	Polishing cloth for final polishing of all materials. Porous neoprene. For magnetic fixation on MD-Disc.
	200 mm (8") dia. 5 pcs.
40500093	250 mm (10") dia. 5 pcs.
40500094	300 mm (12") dia. 5 pcs.
40500154	350 mm (14") dia. 5 pcs.
	MD-Chem NonStick
40500410	Polishing cloth for final polishing of all materials. Porous neoprene with grooves to prevent adhesion of large specimens. For magnetic fixation on MD-Disc.

300 mm (12") dia. 5 pcs.

	MD-Floc
40500403	Polishing cloth for polishing of all materials. Synthetic nap. For magnetic fixation on MD-Disc.
	200 mm (8") dia. 5 pcs.
40500404	250 mm (10") dia. 5 pcs.
40500405	300 mm (12") dia. 5 pcs.
40500419	350 mm (14") dia. 5 pcs.

	MD-Sat
40500406	Polishing cloth for fine grinding and polishing of ferrous and non-ferrous metals, coatings and plastics. Is used for diamond with particle size 9 - 3 µm. Woven acetate. For magnetic fixation on MD-Disc.
	200 mm (8") dia. 5 pcs.
40500407	250 mm (10") dia. 5 pcs.
40500408	300 mm (12") dia. 5 pcs.







DP/OP-Polishing Cloths

DP/OP Polishing Cloths

	DP-Plan
40500200	Polishing cloth for fine grinding of soft metals and pre-polishing of hard materials. Is used for diamond with particle size 15 - 3 µm. Coated, woven polyester. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500201	250 mm (10") dia. 5 pcs.
40500202	300 mm (12") dia. 5 pcs.

	DP-Pan
40500161	Polishing cloth for fine grinding of soft metals and pre-polishing of hard and brittle materials. Impregnated non-woven technical textile. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500162	250 mm (10") dia. 5 pcs.
40500163	300 mm (12") dia. 5 pcs.

	DP-Dur
40500208	Polishing cloth for fine grinding and polishing of ferrous and non-ferrous metals, coatings and plastics. Is used for diamond with particle size 9 - 1 µm. Satin woven natural silk. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500209	250 mm (10") dia. 5 pcs.
40500210	300 mm (12") dia. 5 pcs.
	DP-Plus
40500224	Polishing cloth for one step polishing of sintered carbides and steels. Synthetic nap. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500225	250 mm (10") dia. 5 pcs.
40500226	300 mm (12") dia. 5 pcs.
	DP-Mol
40500220	Polishing cloth for polishing of ferrous and non-ferrous metals and polymers. Taffeta woven 100 % wool. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500221	250 mm (10") dia. 5 pcs.
40500222	300 mm (12") dia. 5 pcs.
	DP-Nap
40500232	Polishing cloth for final polishing of all materials. Short synthetic nap. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500233	250 mm (10") dia. 5 pcs.
40500234	300 mm (12") dia. 5 pcs.
	DP-Dac
40500212	Polishing cloth for polishing of all materials. Is used for diamond with particle size 9 - 3 µm. Satin woven acetate. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500213	250 mm (10") dia. 5 pcs.
40500214	300 mm (12") dia. 5 pcs.
	OP-Felt
40500300	Polishing cloth for polishing of farrous and pon-farrous metals. Is used for alumina

	OP-Felt
40500300	Polishing cloth for polishing of ferrous and non-ferrous metals. Is used for alumina with particle size ≤ 9 µm. Thick wool felt. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500301	250 mm (10") dia. 5 pcs.
40500302	300 mm (12") dia. 5 pcs.

	OP-Chem
40500308	Polishing cloth for final polishing of all materials. Is used for oxide polishing with particle size < 1µm. Porous neoprene. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500309	250 mm (10") dia. 5 pcs.
40500310	300 mm (12") dia. 5 pcs.

	DP-Sat
40500216	Polishing cloth for fine grinding and polishing of ferrous and non-ferrous metals, coatings and plastics. Is used for diamond with particle size 9 - 3 µm. Woven acetate. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500217	250 mm (10") dia. 5 pcs.
40500218	300 mm (12") dia. 5 pcs.

	DP-Floc
40500228	Polishing cloth for polishing of all materials. Synthetic nap. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500229	250 mm (10") dia. 5 pcs.
40500230	300 mm (12") dia. 5 pcs.

	OP-Nat
40500304	Polishing cloth for polishing of ferrous metals. Is used for alumina with particle size $\leq 9 \ \mu m$. Woven wool felt. Self-adhesive.
	200 mm (8") dia. 5 pcs.
40500305	250 mm (10") dia. 5 pcs.
40500306	300 mm (12") dia. 5 pcs.

	MD-Rondo
40503000	Adapter disc for application of self-adhesive consumables to MD-Disc.
	200 mm (8") dia. 5 pcs.
40503001	250 mm (10") dia. 5 pcs.
40503002	300 mm (12") dia. 5 pcs.
40503082	350 mm (14") dia. 5 pcs.

AVOID DEFORMATION WHEN PREPARING ALUMINUM AND ALUMINUM ALLOYS

Get recommendations for, how to replace coarse grits and how silicon dioxide suspension can ensure a thorough final polishing.









Diamond products

DiaPro

Diamond Products

	DiaPro
40600375	DiaPro Pan 15 μm For high-performance materialographic pre-polishing on MD-Pan and DP-Pan. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication.
	500 ml
40600376	5 l
40600369	DiaPro Allegro/Largo 9 μm For high-performance materialographic fine grinding on MD-Allegro and MD-Largo. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication.
	500 ml
40600370	5 l
40600385	DiaPro Plan 9 μm For high-performance materialographic fine grinding on MD-Plan and DP-Plan. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication.
	500 ml
40600386	5 l
40600377	DiaPro Sat 6 μm For high-performance materialographic polishing on MD-Sat and DP-Sat. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication. 500 ml
40600378	5 l
40600391	DiaPro Largo 3 μm For high-performance materialographic polishing on MD-Largo. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication. 500 ml
40600392	5 l

	DiaPro
40600379	DiaPro Mol B 3 μm For high-performance materialographic polishing of hard materials (>150 HV) on MD-Mol and DP-Mol. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication.
	500 ml
40600380	51
40600393	DiaPro Mol R 3 μm For high-performance materialographic polishing of soft materials (<150 HV) on MD-Mol and DP-Mol. Stable diamond suspension containing a unique mixture of high-performance diamonds and smearing lubricant. Apply DiaPro to achieve the correct level of lubrication.
40400004	500 ml
40600394	5 l
40600395	DiaPro Dur 3 µm For high-performance materialographic polishing on MD-Dur and DP-Dur. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication.
40 (0000 (500 ml
40600396	5 l
40600371	DiaPro Dac 3 µm For high-performance materialographic polishing on MD-Dac and DP-Dac. Stable water-based diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication.
	500 ml
40600372	5 l
40600387	DiaPro Plus 3 μm For high-performance materialographic polishing on MD-Plus and DP-Plus. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication.
	500 ml
40600388	51
40600389	DiaPro Floc 3 μm For high-performance materialographic polishing on MD-Floc and DP-Floc. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication. 500 ml
40600390	5 l
40600390	DiaPro Dur 1 µm For high-performance materialographic polishing on MD-Dur and DP-Dur. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication.
	500 ml
40600382	5 l

	DiaPro
40600373	DiaPro Nap B 1 μm For high-performance materialographic polishing of hard materials (>150 HV) on MD-Nap and DP-Nap. Stable water-based diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication.
	500 ml
40600374	5 l
40600397	DiaPro Nap R 1 μm For high-performance materialographic polishing of soft materials (<150 HV) on MD-Nap and DP-Nap. Stable diamond suspension containing a unique mixture of high-performance diamonds and smearing lubricant. Apply DiaPro to achieve the correct level of lubrication.
	500 ml
40600398	5 l
40600383	DiaPro Nap ¼ μm For high-performance materialographic polishing on MD-Nap and DP-Nap. Stable diamond suspension containing a unique mixture of high-performance diamonds and cooling lubricant. Apply DiaPro to achieve the correct level of lubrication. 500 ml
40600384	5 l









DiaDuo

DP-Spray, M and P

DP-Stick P

DP-Paste P

	DiaDuo
40600036	DiaDuo-2 All-purpose diamond suspension for materialographic fine grinding and polishing. Diamond suspension and cooling lubricant combined into one product. Does not contain solvents.
	1 μm. White. 500 ml
40600041	1 μm. White. 5 l
40600037	3 μm. Blue. 500 ml
40600042	3 μm. Blue. 5 l
40600038	6 μm. Yellow. 500 ml
40600043	6 μm. Yellow. 5 l
40600039	9 μm. Grey. 500 ml
40600044	9 μm. Grey. 5 l
40600040	15 μm. Green. 500 ml
40600045	15 μm. Green. 5 l







DP-Suspension P

DP-Suspension M

DP-Suspension A

	DP-Suspension P
40600229	Stable water-based polycrystalline diamond suspension in pump bottle for manual application. To be used in combination with DP-Lubricants. Lubricants ensure correct cooling and smearing of the material surface.
	1 μm. 125 ml
40600228	3 μm. 125 ml
40600227	6 μm. 125 ml
40600364	High performance diamond product containing exclusively polycrystalline diamonds. Stable suspension, designed for automatic dosing machines.
	0.1 μm. 500 ml
40600363	½ μm. 500 ml
40600297	¼ μm. 2.5 l
40600362	1 μm. 500 ml
40600251	1 μm. 2.5 l
40600342	1 μm. 5 l
40600361	3 μm. 500 ml
40600250	3 μm. 2.5 l
40600341	3 μm. 5 l
40600360	6 μm. 500 ml
40600249	6 μm. 2.5 l
40600340	6 μm. 5 l
40600359	9 μm. 500 ml
40600248	9 μm. 2.5 l
40600339	9 μm. 5 l
40600358	15 μm. 500 ml
40600247	15 μm. 2.5 l

	DP-Suspension M
40600357	High performance diamond product containing monocrystalline diamonds. Stable suspension, designed for automatic dosing machines.
	1 μm. 500 ml
40600256	1 μm. 2.5 l
40600346	1 μm. 5 l
40600356	3 μm. 500 ml
40600255	3 μm. 2.5 l
40600345	3 μm. 5 l
40600355	6 μm. 500 ml
40600254	6 μm. 2.5 l

	DP-Suspension M
40600344	6 μm. 5 l
40600354	9 μm. 500 ml
40600253	9 μm. 2.5 l
40600343	9 μm. 5 l
40600353	15 μm. 500 ml
40600252	15 μm. 2.5 l

	DP-Suspension A
40600352***	High performance diamond product containing polycrystalline diamonds. Alcohol based. Water content < 0.5 % w/w. For highest efficiency in materiallographic polishing of water sensitive materials. Stable suspension.
	$\frac{1}{4}$ µm. 500 ml
40600351***	1 μm. 500 ml
40600350***	3 μm. 500 ml
40600349***	High performance diamond product containing M+ diamonds. Alcohol based. Water content < 0.5 % w/w. For highest efficiency in materiallographic fine grinding and polishing of water sensitive materials. Stable suspension.
	6 μm. 500 ml
40600348***	9 μm. 500 ml
40600347***	15 μm. 500 ml

	DP-Spray P
40600144***	High performance diamond product containing exclusively polycrystalline diamonds. In spray can.
	1/4 μm. 150 ml
40600145***	1 μm. 150 ml
40600146***	3 μm. 150 ml
40600147***	6 μm. 150 ml
40600148***	9 μm. 150 ml
40600149***	15 μm. 150 ml
40600150***	35 μm. 150 ml

	DP-Spray M
40600151***	High performance diamond product containing monocrystalline diamonds. In spray can.
	1 μm. 150 ml
40600152***	3 μm. 150 ml
40600153***	6 μm. 150 ml
40600154***	9 μm. 150 ml
40600155***	15 μm. 150 ml

	DP-Stick P
40600313	Diamond wax in stick applicator. To be used in combination with DP-Lubricants. Lubricants ensure correct cooling and lubricating of the material surface.
	½ μm. 24 g
40600312	1 μm. 24 g
40600311	3 μm. 24 g
40600310	6 μm. 24 g
40600309	9 μm. 24 g
40600308	15 μm. 24 g

	DP-Paste P
40600028	High performance diamond product containing exclusively polycrystalline diamonds. In cartridge.
	½ μm. 10 g
40600027	1 μm. 10 g
40600026	3 μm. 10 g
40600025	6 μm. 10 g
40600024	9 μm. 10 g
40600023	15 μm. 10 g

	DP-Paste M
40600020	High performance diamond product containing monocrystalline diamonds. In cartridge.
	½ μm. 10 g
40600019	1 μm. 10 g
40600018	3 μm. 10 g
40600017	6 μm. 10 g
40600016	9 μm. 10 g
40600015	15 μm. 10 g



DP-Lubricant Green



DP-Lubricant Blue



DP-Lubricant Purple



DP-Lubricant Red



DP-Lubricant Brown



DP-Lubricant Yellow

	DP-Lubricant
40700023	DP-Lubricant Green Cooling and lubricating agent for fine grinding and diamond polishing of most materials. Water based.
	11
40700024	5 l
40700055	10

	DP-Lubricant
40700005***	DP-Lubricant Blue Cooling and lubricating agent for fine grinding and diamond polishing of most materials. Alcohol-based with ethanediol.
	11
40700006***	5 l
40700056***	10 l
40700059***	DP-Lubricant Purple Cooling and lubricating agent for fine grinding and diamond polishing of most materials. Alcohol-based with propylene glycol.
	11
40700060***	5 l
40700061***	10
40700070	DP-Lubricant Red Lubricating agent for fine grinding and diamond polishing of softer materials. Oil in water emulsion.
	11
40700071	51
40700072	10
40700028***	DP-Lubricant Brown Cooling and lubricating agent for fine grinding and diamond polishing of water sensitive materials. Alcohol-based with polyethylene glycol.

40700069*** **DP-Lubricant Yellow**

Lubricating agent for fine grinding and diamond polishing of softer water sensitive materials. Alcohol-based.

1 l

Others
Dosing Gun For dosing a specific amount of all diamond suspensions and lubricants. Non-aerosol pressurized dosing bottle.
500 ml
Pump Bottle For manual dispensing of diamond suspension or lubricant.
150 ml
Squeeze Bottle For manual dosing of diamond suspension or lubricant. 250 ml







OP-S NonDry

OP-S

AP-A Powder

Oxide Polishing

	OP-S NonDry
40700064	Non-drying fumed silica suspension for final polishing. Suitable for mixing with chemical reagents for polishing of resistant materials. Ready to use. For preparing on pure non-ferrous metals the regular OP-S is recommended.
	0.25 μm. 1 l
40700065	0.25 μm. 5 l
	OB-S

	OP-S
40700000	Standard fumed silica suspension for final polishing. Suitable for mixing with chemical reagents for polishing of resistant materials. Ready to use.
	0.25 μm. 1 l
40700001	0.25 μm. 5 l

	OP-U NonDry
40700066	Non-drying colloidal silica suspension for final polishing of all materials. Ready to use.
	0.04 μm. 1 l
40700067	0.04 µm. 5 l

	OP-U
40700002	Standard colloidal silica suspension for final polishing of all materials. Ready to use.
	0.04 μm. 1 l
40700003	0.04 μm. 5 l

	OP-A
40700021	Acidic alumina suspension for final polishing of low- and high-alloy steels, nickel-base alloys and ceramics. Concentrated.
	0.1 μm. 500 ml

	AP-Products
40700049	AP-A Powder Agglomerated alpha alumina powder for polishing. To be mixed with demineralized water before use.
	0.3 μm. 1 kg
40700048	1 μm. 1 kg
40700047	5 μm. 1 kg

	AP-Products
40700041	AP-D Powder Deagglomerated gamma alumina powder for polishing. To be mixed with demineralized water before use.
	0.05 μm. 1 kg
40700040	Deagglomerated alpha alumina powder for polishing. To be mixed with demineralized water before use.
	0.1 μm. 1 kg
40700039	0.3 μm. 1 kg
40700038	1 μm. 1 kg

Electrolytical Preparation

	Electrolytes
40900008***	Electrolyte A2 For electrolytic polishing of steel, stainless steel, Aluminum and Aluminum alloys, nickel alloys, tin and titanium. All-round electrolyte for LectroPol-, Polectrol, TenuPol and Movipol
	1l
40900011***	Electrolyte A3 For electrolytic polishing of molybdenum, titanium, zirconium and vanadium. For LectroPol-, Polectrol, Movipol- and Tenupol
	11
40900032***	Electrolyte D2 Electrolyte for copper and copper alloys. For LectroPol-, Polectrol, Movipol- and Tenupol
	11

AVOID DEFORMATION AND SEVERE SCRATCHES WHEN PREPARING SOFT AND DUCTILE COPPER AND COPPER ALLOYS

Get recommendations for how to avoid mechanical deformation using fine grits, soft cloths, and chemically assisted final polishing.





VERIFICATION

Struers Verification Consumables

Predictable hardness testing quality can only be achieved with confidence by using a hardness tester that is correctly maintained and that has been calibrated according to internationally accredited calibration standards.

Calibration Results

We recommend that you verify the calibration of your equipment on a regular basis, ensuring the reproducibility and reliability of your hardness testing results.





BRINELL TEST BLOCKS – WITH OR WITHOUT CERTIFICATE

The Brinell hardness test is used for larger specimens in materials with a coarse or inhomogeneous grain structure. Before performing the Brinell hardness test, the surface of the specimen must be prepared.

We recommend you verify the calibration of your equipment on a regular basis ensuring reproducibility and reliability of your hardness testing results.

It must be either:

Machined - Ground - Lapped - Polished

Brinell		Hardness	Hardness										
Test method	Load Factor	40	70	100	150	170	200	250					
HBW 1/30				056483002	056483003	056483004	056483005	05648300					
HBW 2.5/187.5	HB30			056482402	056482403	056482404	056482405	05648240					
HBW 5/750	HB30			056481502	056481503	056481504	056481505	05648150					
HBW 10/3000				056481002	056481003	056481004	056481005	05648100					
HBW 1/10		056483100	056483101	056483102	056483103	056483104	056483105						
HBW 2.5/62.5		056482500	056482501	056482502	056482503	056482504	056482505						
HBW 5/250	HB10		056481601	056481602	056481603	056481604	056481605						
HBW 10/1000			056481201	056481202	056481203	056481204	056481205						
HBW 1/5		056483200	056483201	056483202									
HBW 2.5/31.25	HB5	056482600	056482601	056482602									
HBW 5/125	прэ	056482100	056482101	056482102									
HBW 10/500			056481301	056481302									
HBW 1/2.5		056483300											
HBW 2.5/15.625	HB2.5	056482700											
HBW 5/62.5		056482200											

Brinell (Heavy load)

All blocks will be supplied within \pm 15 HB of the nominal value.

Block size: 150 mm x 125 mm x 16 mm thickness.

Brinell (light load)

All blocks will be supplied within ± 15 HB of the nominal value.

Block size: 64 mm diameter x 15 mm thickness.

Add a C for Certificate. Example: : 056481005 without certificate and 056481005C with Certificate included.

Test block material:

Black = Steel

Blue = Aluminum

Please contact your local Struers representative, if you wish to add additional calibration and grid on the test block.



300	350	400	450	500	550	600	650
056483007	056483008	056483009	056483010	056483011	056483012	056483013	056483014
056482407	056482408	056482409	056482410	056482411	056482412	056482413	056482414
056481507	056481508	056481509	056481510	056481511	056481512	056481513	056481514
056481007	056481008	056481009	056481010	056481011	056481012	056481013	056481014

VICKERS TEST BLOCKS – WITH OR WITHOUT CERTIFICATE

The Vickers hardness test is suitable for a wide range of applications, including micro hardness testing. The required surface condition for the Vickers hardness test depends on the load used.

Macro test blocks (loads higher than 1 kgf)

- Surface should be ground

Micro test blocks (loads below or equal to 1 kgf)

- Surface should be mechanically polished or electropolished

Steel and copper

- At least 3 diagonal widths between indentations

Lead, zinc and aluminum

- At least 6 diagonal widths between indentations

We recommend you verify the calibration of your equipment on a regular basis ensuring reproducibility and reliability of your test block results.

Vickers	Hardness												
Test method	40	70	100	150	200	250	300	350	400	450			
HV0.010	056484000	056484001	056484002	056484003	056484005	056484006	056484007	056484008	056484009	056484010			
HV0.025	056484100	056484101	056484102	056484103	056484105	056484106	056484107	056484108	056484109	056484110			
HV0.050	056484200	056484201	056484202	056484203	056484205	056484206	056484207	056484208	056484209	056484210			
HV0.1	056484300	056484301	056484302	056484303	056484305	056484306	056484307	056484308	056484309	056484310			
HV0.2	056484400	056484401	056484402	056484403	056484405	056484406	056484407	056484408	056484409	056484410			
HV0.3	056484500	056484501	056484502	056484503	056484505	056484506	056484507	056484508	056484509	056484510			
HV0.5	056484600	056484601	056484602	056484603	056484605	056484606	056484607	056484608	056484609	056484610			
HV1	056484700	056484701	056484702	056484703	056484705	056484706	056484707	056484708	056484709	056484710			
HV2	056485000	056485001	056485002	056485003	056485005	056485006	056485007	056485008	056485009	056485010			
HV3	056485100	056485101	056485102	056485103	056485105	056485106	056485107	056485108	056485109	056485110			
HV5	056485200	056485201	056485202	056485203	056485205	056485206	056485207	056485208	056485209	056485210			
HV10	056485300	056485301	056485302	056485303	056485305	056485306	056485307	056485308	056485309	056485310			
HV20	056485400	056485401	056485402	056485403	056485405	056485406	056485407	056485408	056485409	056485410			
HV30	056485500	056485501	056485502	056485503	056485505	056485506	056485507	056485508	056485509	056485510			
HV50	056485600	056485601	056485602	056485603	056485605	056485606	056485607	056485608	056485609	056485610			
HV100	056485700	056485701	056485702	056485703	056485705	056485706	056485707	056485708	056485709	056485710			

Vickers, Micro

All blocks will be supplied within ± 25 HV of the nominal value.

Block size: 30 mm diameter x 10 mm thickness.

Vickers, Macro

All blocks will be supplied within \pm 25 HV of the nominal value.

Block size: 64 mm diameter x 15 mm thickness.

Test block material:

Black = Steel
Blue = Aluminum

Please contact your local Struers representative, if you wish to add additional calibration and grid on the test block.



500	550	600	650	700	750	800	850	900	950	1000	1050	1100
056484011	056484012	056484013	056484014	056484015	056484016	056484017	056484018	056484019	056484020	056484021	056484022	056484023
056484111	056484112	056484113	056484114	056484115	056484116	056484117	056484118	056484119	056484120	056484121	056484122	056484123
056484211	056484212	056484213	056484214	056484215	056484216	056484217	056484218	056484219	056484220	056484221	056484222	056484223
056484311	056484312	056484313	056484314	056484315	056484316	056484317	056484318	056484319	056484320	056484321	056484322	056484323
056484411	056484412	056484413	056484414	056484415	056484416	056484417	056484418	056484419	056484420	056484421	056484422	056484423
056484511	056484512	056484513	056484514	056484515	056484516	056484517	056484518	056484519	056484520	056484521	056484522	056484523
056484611	056484612	056484613	056484614	056484615	056484616	056484617	056484618	056484619	056484620	056484621	056484622	056484623
056484711	056484712	056484713	056484714	056484715	056484716	056484717	056484718	056484719	056484720	056484721	056484722	056484723
056485011	056485012	056485013	056485014	056485015	056485016	056485017	056485018	056485019	056485020	056485021	056485022	
056485111	056485112	056485113	056485114	056485115	056485116	056485117	056485118	056485119	056485120	056485121	056485122	
056485211	056485212	056485213	056485214	056485215	056485216	056485217	056485218	056485219	056485220	056485221	056485222	
056485311	056485312	056485313	056485314	056485315	056485316	056485317	056485318	056485319	056485320	056485321	056485322	
056485411	056485412	056485413	056485414	056485415	056485416	056485417	056485418	056485419	056485420	056485421	056485422	
056485511	056485512	056485513	056485514	056485515	056485516	056485517	056485518	056485519	056485520	056485521	056485522	
056485611	056485612	056485613	056485614	056485615	056485616	056485617	056485618	056485619	056485620	056485621	056485622	
056485711	056485712	056485713	056485714	056485715	056485716	056485717	056485718	056485719	056485720	056485721	056485722	

KNOOP TEST BLOCKS – WITH OR WITHOUT CERTIFICATE

The Knoop hardness test is an alternative to the Vickers test in the micro hardness testing range. Before application of the Knoop hardness test, you must prepare the surface of the material to be tested.

The Knoop hardness test is used for micro hardness testing (loads below or equal to 1 kgf) and so the surface of the specimen material should be highly polished or electropolished before testing is performed.

We recommend you verify the calibration of your equipment on a regular basis ensuring reproducibility and reliability of your hardness testing results.

Knoop	Hardness								
Test method	40	70	100	150	200	250	300	350	400
HK0.001	056487000	056487001	056487002	056487003	056487005	056487006	056487007	056487008	056487009
HK0.005	056487100	056487101	056487102	056487103	056487105	056487106	056487107	056487108	056487109
HK0.010	056487200	056487201	056487202	056487203	056487205	056487206	056487207	056487208	056487209
HK0.025	056487300	056487301	056487302	056487303	056487305	056487306	056487307	056487308	056487309
HK0.050	056487400	056487401	056487402	056487403	056487405	056487406	056487407	056487408	056487409
HK0.1	056487500	056487501	056487502	056487503	056487505	056487506	056487507	056487508	056487509
HK0.2	056487600	056487601	056487602	056487603	056487605	056487606	056487607	056487608	056487609
НК0.3	056487700	056487701	056487702	056487703	056487705	056487706	056487707	056487708	056487709
HK0.5	056487800	056487801	056487802	056487803	056487805	056487806	056487807	056487808	056487809
HK1	056487900	056487901	056487902	056487903	056487905	056487906	056487907	056487908	056487909

Knoop

All blocks will be supplied within ± 25 HK of the nominal value.

Block size: 30 mm diameter x 10 mm thickness.

Add a C for Certificate. Example: 056487005 without certificate and 056487005C with Certificate included.

Test block material:

Black = Steel

Blue = Aluminum

Please contact your local Struers representative, if you wish to add additional calibration and grid on the test block.



450	500	550	600	650	700	750	800	850	900	950	1000
056487010	056487011	056487012	056487013	056487014	056487015	056487016	056487017	056487018	056487019	056487020	056487021
056487110	056487111	056487112	056487113	056487114	056487115	056487116	056487117	056487118	056487119	056487120	056487121
056487210	056487211	056487212	056487213	056487214	056487215	056487216	056487217	056487218	056487219	056487220	056487221
056487310	056487311	056487312	056487313	056487314	056487315	056487316	056487317	056487318	056487319	056487320	056487321
056487410	056487411	056487412	056487413	056487414	056487415	056487416	056487417	056487418	056487419	056487420	056487421
056487510	056487511	056487512	056487513	056487514	056487515	056487516	056487517	056487518	056487519	056487520	056487521
056487610	056487611	056487612	056487613	056487614	056487615	056487616	056487617	056487618	056487619	056487620	056487621
056487710	056487711	056487712	056487713	056487714	056487715	056487716	056487717	056487718	056487719	056487720	056487721
056487810	056487811	056487812	056487813	056487814	056487815	056487816	056487817	056487818	056487819	056487820	056487821
056487910	056487911	056487912	056487913	056487914	056487915	056487916	056487917	056487918	056487919	056487920	056487921

ROCKWELL TEST BLOCKS – WITH OR WITHOUT CERTIFICATE

Rockwell	Regular Scal	es							
Test Method	Hardness								
HRC	20	25	30	35	40	45	50	55	60
	056486000 60	056486001 63	056486002 65	056486003 68	056486004 70	056486005 73	056486006 76	056486007 78	056486008 81
HRA	056486020	056486021	056486022	056486023	056486024	056486025	056486026	056486027	056486028
HRA	22 056486140	26 056486141	31 056486142	35 056486143	40 056486144	45 056486145	47 056486146	50 056486147	53 056486148
HRD	40 056486040	44 056486041	48 056486042	52 056486043	56 056486044	60 056486045	64 056486046	67 056486047	71 056486048
HRB	20 056486120	30 056486121	40 056486122	50 056486123	60 056486124	70 056486125	75 056486126	80 056486127	85 056486128
HRE	75 056486160	81 056486161	87 056486162	93 056486163	100 056486164				
HRF	74 056486170	80 056486171	86 056486172	91 056486173	97 056486174	100 056486175			
HRG	33 056486182	41 056486183	49 056486184	58 056486185	66 056486186	74 056486187	83 056486188		
HRH	94 056486190	98 056486191							
HRK	47 056486201	56 056486202	65 056486203	73 056486204	81 056486205	86 056486206	91 056486207	95 056486208	99 056486209
HRL	92 056486280	118 056486281	123 056486282	000400204	000400200	000400200	000400207	000400200	000400207
HRM	67 056486290	107 056486291	118 056486292						
HRP	86 056486300	94 056486301	112 056486302						
HRR	105 056486310	123 056486311	126 056486312						
HRS	115 056486320	117 056486321	123 056486322						
HRV	107 056486330	109 056486331	120 056486332						
Rockwell	Superficial S	cales	-					-	
Test Method	Hardness								
HR15N	72 056486061	75 056486062	78 056486063	81 056486064	83 056486065	85 056486066	88 056486067	90 056486068	91 056486069
HR30N	46	50	55	59	64	68	73	77	80
	056486081 25	056486082 31	056486083 37	056486084 43	056486085 49	056486086 55	056486087 61	056486088 66	056486089 70
HR45N	056486101	056486102	056486103	056486104	056486105	056486106	056486107	056486108	056486109
HR15T	67 056486220	70 056486221	73 056486222	77 056486223	80 056486224	83 056486225	85 056486226	86 056486227	88 056486228
HR30T	29 056486240	36 056486241	43 056486242	49 056486243	56 056486244	63 056486245	66 056486246	69 056486247	73 056486248
HR45T	12 056486261	22 056486262	32 056486263	43 056486264	48 056486265	53 056486266	58 056486267	63 056486268	68 056486269
HR15W	84 056486340	87 056486341	94 056486342						
HR30W	67 056486350	73 056486351	87 056486352						
HR45W	50 056486360	59 056486361	80 056486362						
HR15X	92 056486370	93 056486371	96 056486372						
HR30X	82 056486380	84 056486381	92 056486382						
HR45X	72 056486390	76 056486391	85 056486392						
HR15Y	95 056486400	96 056486401	98 056486402						
	90	91	95						
HR30Y	056486410	056486411	056486412						

63	65	67	68	69	70
056486009	056486010	056486011	056486012	056486013	056486014
83	84	85			
056486029	056486030	056486031			
55 056486149	59 056486150	62 056486151			
73	74	77			
056486049	056486050	056486051			
90	95	100			
056486129	056486130	056486131			



The Rockwell hardness test is a fast method, making it ideal for quick hardness testing. Rockwell hardness testing do not use optical measurement meaning specimen reflectiveness is not needed. Rockwell hardness testing can therefore be used on non-prepared surfaces

We recommend you verify the calibration of your equipment on a regular basis ensuring reproducibility and reliability of your hardness testing results.

92	93	
056486070	056486071	
82	83	
056486090	056486091	
72	74	
056486110	056486111	
90	91	93
056486229	056486230	056486231
76	80	

056486249 056486250

Rockwell

Test blocks HRC, HRA, HRD, HR15N, HR30N, HR45N will be supplied within ± 2 HR of the nominal value.

All other blocks will be supplied within \pm 4 HR of the nominal value. Block size: 64 mm diameter x 15 mm thickness.

Add a C for Certificate. Example: 056486004 without certificate and 056486004C with Certificate included.

Test block material:

Black = Steel

Blue = Aluminum

Please contact your local Struers representative, if you wish to add additional calibration and grid on the test block.

ACCESSORIES

Struers offers a wide variety of tools and accessories, all developed with one principal purpose: to provide easier handling and more accurate specimen preparation.

In this section you will find accessories for:

- Cutting Clamping tools
- Mounting
- Grinding and polishing
- Automatic cleaning
- Non-destructive testing
- Hardness testing Indenters

Only Struers accessories are designed to get the most out of Struers equipment.







For 12 mm T-slots



Bolt clamping tool

Cutting

0	
	Clamping Tools
05036915	Vertical Clamping Tool For clamping irregularly shaped workpieces on the cutting table. Suitable for all machines with 8 mm T-slots.Clamping height is adjustable up to 58 mm. Complete with operating key and one flat clamping shoe.
	For 8 mm T-slots
05116905	For clamping irregularly shaped workpieces on the cutting table. Suitable for all machines with 10 mm T-slots.Clamping height is adjustable up to 58 mm. Complete with operating key and one flat clamping shoe.
	For 10 mm T-slots
05046904	For clamping irregularly shaped workpieces on the cutting table. Suitable for all machines with 12 mm T-slots.Clamping height is adjustable up to 105 mm. Complete with operating key and one flat clamping shoe.
	For 12 mm T-slots
05116910	Riser Block For elevating vertical clamping tool (05116905) when clamping high workpieces. To increase the clamping height by 60 mm.
	For 10 mm T-slots
05046905	For elevating vertical clamping tool (05046904) when clamping high workpieces. To increase the clamping height by 74 mm.
	For 12 mm T-slots
05116911	Swivel Shoes Set of 4 multi-shaped swivel shoes for vertical clamping tool (05046904, 05116905 or 05036915).
05046906	Arm Extension For extending arm of Vertical Clamping Tool(05036915, 05046904 and 05116905).
05876906	Turntable clamping tool 0-90 degree turntable for angular cutting. For use with various 12 mm T-slot clamping tools. Table height 42 mm. Table size 220 x 205 mm.
	For 12 mm T-slots
06316919	Clamping set tool kit 10 mm Universal tools for T-slot type cutting tablesFor supporting and clamping of irregular shaped work pieces.
	For 10 mm T-slots
06316920	Clamping set tool kit 12 mm Universal tools for T-slot type cutting tablesFor supporting and clamping of irregular shaped work pieces.

	Clamping Tools
06316901	Adjustable support for cylindrical parts Can be used for both longitudinal and cross sections. Easy to move and position on the cutting table. Can be adjusted for all different diameters.
	For 10-12 mm T-slots
06316913	Quick Clamping Tool For securing the workpiece close to the cut-off wheel. Complete with backstop. Easily exchangeable jaws can be ordered separately.
	Right. For 8 mm T-slots. Jaw movement 50 mm
06316915	Right. For 10 mm T-slots. Jaw movement 50 mm
06316912	Left. For 10 mm T-slots. Jaw movement 50 mm
06316916	Right. For 12 mm T-slots. Jaw movement 60 mm
06316914	Left. For 12 mm T-slots. Jaw movement 60 mm
06316918	Quick Clamping Tool with short stroke For securing the workpiece on the right side of the cut-off wheel. Suitable for all machines with 10 mm T-slots. Complete with backstop. Jaw movement: 12 mm. Jaw height: 58 mm.
	Right. For 10 mm T-slots
06316917	Left. For 10 mm T-slots
06316921	Low Quick Clamping Tool For retaining the workpiece on the right side of the cut-off wheel. Suitable for all machines with 10 mm T-slots. Complete with backstop. Jaw movement: 50 mm. Jaw height: 42 mm
	For 10 mm T-Slots
06316922	Vertical Quick Clamping Tool For securing the workpiece on the left side of the cut-off wheel. Suitable for Labotom-5/-15, Discotom-10 and Discotom-100. Max height of workpiece: 50 mm.
	For 10 mm T-Slots
06316907	Base plate clamping tool Designed to clamp small or odd-sized workpieces close to the cut-off wheel. Complete with tools for installation in T-slots and grooved jaws. Prism (06316929), Extended (06316927) and Rubber Coated (06316911) jaws available as accessories.
	Right. For 8 mm T-slots. Jaw movement 60 mm
06316906	Right. For 10 mm T-slots. Jaw movement 125 mm
06316905	Left. For 10 mm T-slots. Jaw movement 125 mm
06316909	Right. For 12 mm T-slots. Jaw movement 240 mm
06316908	Left. For 12 mm T-slots. Jaw movement 250 mm
06316926	Bolt clamping tool For longitudinal sectioning of bolts and fasteners. With ruler for easy positioning of the workpiece. Suitable for Secotom-15/-50/-20/-60. Clamping range 4-22 mm diameter. A tungsten carbide guide prevents the cut-off wheel from moving to the either side. Including screws, 3 pcs. 1 mm and 3 pcs. 0.5 mm shims.
	For 8 mm T-slots
06316904	Pinch-reduction clamping tool Tool that reduces pinching of the cut-off wheel when cutting workpieces with internal stress. Complete set with two jaw blocks (left+right), back stops and spanners.
	For 10 mm T-slots

For 12 mm T-slots

06316903

	Clamping Tools
05046912	Chain Spanner For clamping irregularly shaped workpieces. Complete with anchor block and operating key.
	For 12 mm T-slots





EasyDoser

Wupty

Hot Mounting

	Dosing Units for Hot Mounting
05796902	EasyDoser Manual dosing unit for hot mounting presses. For Struers 1 kg hot mounting resins.

Cold Mounting

	Cold Mounting Accessories
05696901	Wupty Tool for pressing mounts out of FixiForm. Wupty can only be used with FixiForm, as we use the handles to secure it while pressing the mount out.

Grinding and Polishing Equipment

	Acc. For LaboPol-20/-30/-60
06206924	Wet Grinding Disc with cone Aluminum disc with retention ring. For use on LaboPol-20 with plain back silicon carbide paper. With cone for easy replacement.
	200 mm (8") dia.
06206932	Aluminum, cone-type disc with retention ring. For use on LaboPol-30/-60 with plain back silicon carbide paper.
	230 mm dia.
06206918	250 mm (10") dia.
06206919	305 mm (12") dia.
06206917	Cast iron disc for mineralogy, ø300 mm Concentrically grooved, cone-type disc for lapping mineralogical specimens on LaboPol-30/-60 (06336127/06346127). Made of special SiC-resistant cast iron alloy.

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	Acc. for Tegramin
06086401	MD-Disc with cone MD-Disc for use on Tegramin-20 and LaboPol-20. With cone for easy replacement.
	200 mm (8") dia.
06086402	MD-Disc for use on Tegramin-25 and LaboPol-30/-60. With cone for easy replacement.
	250 mm (10") dia.
06086403	MD-Disc for use on Tegramin-30 and LaboPol-30/-60. With cone for easy replacement.
	300 mm (12") dia.
06086404	Aluminum disc with cone Aluminum disc for use on Tegramin-20 and LaboPol-20. With cone for easy replacement.
	200 mm (8") dia.
06086405	Aluminum disc for use on Tegramin-25 and LaboPol-30/-60. With cone for easy replacement.
	250 mm (10") dia.
06086406	Aluminum disc for use on Tegramin-30 and LaboPol-30/-60. With cone for easy replacement.
	300 mm (12") dia.







MD-Disc with cone

MD-Disc with driving pins

Wet Grinding Disc with driving pins

	MD-Disc
02426920	MD-Disc with driving pins Magnetic fixation disc for MD-System products.
	200 mm (8") dia.
02426919	250 mm (10") dia.
02426918	300 mm (12") dia.
02426933	350 mm (14") dia.
	Grinding/polishing Discs
02426935	Wet Grinding Disc with driving pins Aluminum disc with retention ring. For use with plain back silicon carbide paper.
	200 mm (8") dia.
02426936	230 mm (9") dia.
02426915	250 mm (10") dia.
02426909	305 mm (12") dia.
03756902	Aluminum Disc with driving Pins For use with adhesive backed consumables.
	200 mm (8") dia.
02426907	250 mm (10") dia.
02426906	300 mm (12") dia.

10 pcs.

	Grinding/polishing Discs
40800113	Magnetic Foil To be attached on standard Aluminum preparation disc to transform it into a magnetic disc for the MD-System. Self-adhesive.
	200 mm (8") dia.
40800114	250 mm (10") dia.
40800115	300 mm (12") dia.
	Automatic Cleaning
06236920	Levelling tool Levelling tool for adjusting retention rings on individual specimens for Lavamin.
	For round specimens from 25 - 50 mm dia.
06236921	Applicator for retention rings To apply and adjust retention rings for use with Lavamin.
	For specimens 25 mm / 1" dia.
06236922	For specimens 30 mm / 1½" dia.
06236923	For specimens 40 mm / 1½" dia.
06236924	For specimens 50 mm / 2" dia.
06236910	Retention Rings To retain individual specimens in specimen mover plates for cleaning in Lavamin. 15 pcs.
	For specimens 25 mm / 1" dia.
06236911	For specimens 30 mm / 1½" dia.
06236912	For specimens 40 mm / 1½" dia.
06236913	For specimens 50 mm / 2" dia.
06236925	Rubber mat To keep small and light specimens in place, for Tegramin-25, TegraForce and RotoForce specimen mover plates. For use with Lavamin.
	For 140 mm dia. specimen mover plates
06236926	To keep small and light specimens in place, for Tegramin-30 specimen mover plates. For use with Lavamin.
	For 160 mm dia. specimen mover plates
	TriPod
04386921	Parallel Section Specimen Mounts 12.5 mm stainless steel specimen mount for TriPod Polishing Fixture-P (04386201).
	10 pcs.
04386922	12.5 mm Aluminum specimen mount for TriPod Polishing Fixture-P (04386201).
	10 pcs.
04386923	Cross Section Specimen Mounts 12.5 mm stainless steel specimen mount for TriPod Polishing Fixture-X (04386202).

12.5 mm Aluminum specimen mount for TriPod Polishing Fixture-X (04386202).





Case

Dispensing Gun

	TriPod
04386925	TriPod Supports Teflon feet for support of TriPod Polishing Fixture-X/-P. 04386202 or 04386201.
	2 pcs.

	Others NDT
40900065	Dispensing Gun Hand-operated dispensing gun for RepliSet.
	For 265 ml cartridges
40900066	For 50 ml cartridges
40900067	Case Aluminum carrying case for transporting the 50 ml RepliSet system. Foam rubber inserts have room for all necessities for field applications: 1 Dispensing gun, 5 new cartridges and 2 cartridges in use, 2 x 35 pcs. static-mixing nozzles, nozzle tips, backing paper, cleaning fluid and finished replicas. The content is ordered separately.
	L x d x h = 445 x 155 x 330 mm

CONNECT WITH US AND BE THE FIRST TO HEAR

Get to know us better and let us share our more than 143 years of expertise in materialographic surface preparation and analysis. Stay updated with news and insights from Struers, with specialist insights, tips and tricks, news on products, courses, and webinars. All of this is specifically designed for you to improve your own materialographic skill set.









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SIGN UP FOR OUR NEWSLETTER



Indenters

Hardness Testing

Ø3 mm shaft

	Indenters
06709101	Rockwell diamond indenter With accredited certificate acc. to ASTM & ISO.For Duramin-100/-150/-160/-170/-600/-650.
	Ø6.35 mm shaft
06709102	Rockwell ball indenter, 1/16" With accredited certificate acc. to ASTM & ISO. For Duramin-100/-150/-160/-170/-600/-650.
	Ø6.35 mm shaft
06709103	Rockwell ball indenter, 1/8" With accredited certificate acc. to ASTM & ISO. For Duramin-100/-150/-160/-170/-600/-650.
	Ø6.35 mm shaft
06709104	Rockwell ball indenter, 1/4" With accredited certificate acc. to ASTM & ISO. For Duramin-100/-150/-160/-170/-600/-650.
	Ø6.35 mm shaft
06709105	Rockwell ball indenter, 1/2" With accredited certificate acc. to ASTM & ISO. For Duramin-100/-150/-160/-170/-600/-650.
	Ø6.35 mm shaft
06709110	Brinell indenter, 1 mm With accredited certificate acc. to ASTM & ISO. For Duram in-100/-160/-170/-600/-650/-3000.
	Ø6.35 mm shaft
06709111	Brinell indenter, 2.5 mm With accredited certificate acc. to ASTM & ISO. For Duram in-100/-160/-170/-600/-650/-3000.
	Ø6.35 mm shaft
06709112	Brinell indenter, 5 mm With accredited certificate acc. to ASTM & ISO. For Duram in-100/-160/-170/-600/-650/-3000.
	Ø6.35 mm shaft
06709113	Brinell exchangeable indenter, 10 mm With accredited certificate acc. to ASTM & ISO. For Duram in-100/-160/-170/-600/-650/-3000.
	Ø6.35 mm shaft
06709114	Brinell indenter, 1 mm With accredited certificate acc. to ASTM & ISO. For Duramin-4/-40/-100.

	Indenters
06709115	Brinell indenter, 2.5 mm With accredited certificate acc. to ASTM & ISO. For Duramin-4/-40/-100.
	Ø3 mm shaft
06709121	Vickers indenter With accredited certificate acc. to ASTM & ISO.For Duramin-4/-40/-100.
	Ø3 mm shaft
06709120	Vickers indenter, ≥HV1 With accredited certificate acc. to ASTM & ISO.For Duramin-100/-600/-650.
	Ø6.35 mm shaft
06709130	Knoop indenter With accredited certificate acc. to ASTM & ISO. For Duramin-4/-40/-100.
	Ø3 mm shaft
06709131	Knoop Indenter ø6,35mm With accredited certificate acc. to ASTM & ISO.For Duramin-100/-600/-650.
	Shaft size Ø6,35mm







MD-Concert Concertino

MD-Storage Cabinet

Table unit

Lab Furniture

	Laboratory Furniture
05306101	MD-Concert Storage cabinet for 9 MD preparation surfaces in 300 mm (12"), 250 mm (10") or 200 mm (8") dia.
05306102	MD-Concertino Storage cabinet for 7 MD preparation surfaces in 200 mm (8") dia.
05666001	Storage Cabinet MEDCU For 10 MD preparation surfaces in 350 mm (14") dia.
	235 x 380 x 395 mm (h x w x d)
06266101	Table unit For Discotom and Labotom cut-off machines. With compartment for recirculation cooling unit, drawer for tools and shelves for cut-off wheels.
	Width: 930 mm, depth: 950 mm, height: 800 mm.
06266901	Extension for table unit Can be mounted on both right and left hand side.
	Width: 400 mm, depth 950 mm

General Equipment

	Engraver
00146121	For marking of specimens. Complete with 2 different engraving needles.
	1 x 110 V / 50-60 Hz
00146133	1 x 220 V / 50-60 Hz

Cooling Systems

	Advanced Cooling System
05766933	XL Filter bag Replacement filter bag for repeated use with the filter tray.
	Replacement filter bag
05766928	Filter bag Filter bag for use with 50 l tank (05766906) and 100 l tank (05766905), requires 05766927 for use with 100 l tank. Reusable sieve. Stainless steel
	For use with 50 l tank



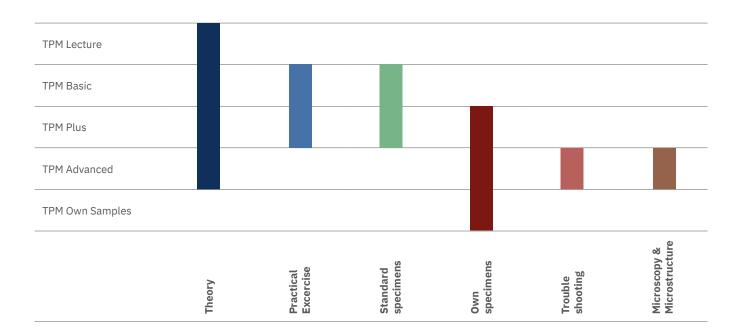
MATERIALOGRAPHIC TRAINING COURSES

In our materialographic training courses, we combine theoretical understanding of the materialographic process with a practical approach, focusing on choosing and using suitable solutions and techniques.

To support the requirements of specimen preparation and examination, we also offer specific courses on hardness testing and microscopy. Our TPM (The Professional Materialographer) training courses cover the entire materialographic process, from cutting to specimen analysis and verification.

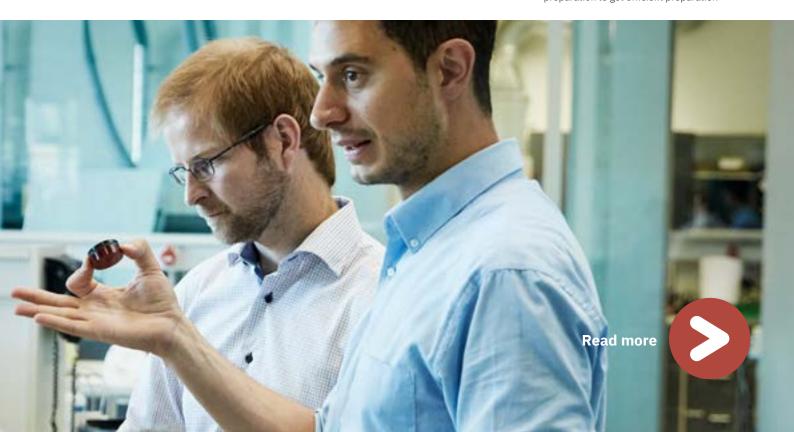
Customized training, including specific processes or materials, can be arranged. Also training of lab teams in their own facilities is offered.





- Theory
- Increased theoretical knowledge base
- Input to optimize materialographic process
- Tools to select consumables
- Practical Excercise
- See your own tasks in a new perspective
- Application of the latest theories in a practical context
- Introduction to how to save time and increase safety with the latest techniques
- StandardSpecimens
- Experience with hands-on preparation
- Application of selection guides for method selection
- Introduction to changes for method optimization

- Own specimens
- New timesaving and quality improving method to implement in your own lab
 - Solve relevant problems appearing in your own lab
 - Start using new unrevealed features on your own equipment that will assist preparation
- Troubleshooting
- Prepared to address future problems
- Independent and fast problem solving on your own
- Less trial and error, more systematic and straight to the point in problem solving
- Microscopy & Microstructure
- Identify preparation artefacts quickly and resolve them
- Use your own microscope better
- Integrate microscopy as an active part of preparation to get efficient preparation



HOW-TO VIDEOS ON HARDNESS TESTING



CAN YOU GET EVEN BETTER?

New applications are emerging that help quality control departments deliver greater certainty, with shorter lead times, and better documentation.

Can you improve your quality control?

Industries are accelerating. Production times are getting shorter, production lines are moving faster, and companies are looking to drive down costs wherever they can. For quality control departments, this means running shorter lead times and making faster changeovers between products – while delivering even better certainty and documentation. This is where Struers can help.

As the world's leading expert in materialographic solutions, we help companies like yours to improve product quality across the entire product life cycle, from R&D to quality control and failure analysis.

Where Can You Improve?

Materialographic preparation involves many different processes, and it can be difficult to keep an eye on all of the factors that define quality, efficiency, and effectiveness.

Our industry experts can help you to:

- Speed up your preparation processes
- Reduce the time spent waiting for specimens
- Decrease rework
- Improve accuracy
- Reduce time spent on alignment and handling
- · Reduce your dependency on specific skills
- Improve your health and safety processes

A Tailored Solution

Of course, we understand that every quality control department is different. So, we work closely with you to analyze your current setup and look for areas to improve. From rethinking your entire process flow to minor process adjustments, we can help you to improve your reliability and repeatability, while increasing your speed and reducing your costs.

Contact your local Struers office to learn how we can help you, or find out more at www.struers.com







Ensuring certainty

Materialographic preparation and testing demands consistent, reproducible results. These come not only from your laboratory process, operators and equipment, but from your supply chain and your partner. We call this ensuring certainty. And as the global market leader in materialographic solutions, Struers is committed to ensuring certainty by helping you meet every one of these needs.

High quality design and engineering of equipment and consumables are only part of the story. As a Struers customer you can also ensure certainty through our unique knowledge base, robust global supply chain, and expert service and applications support – where and when you need it.

www.struers.com

