



Metallographic Materials

QATM Saphir XL
Automatic Polishing
Machine



Image courtesy of Carl Zeiss Research Microscopy Solutions

Cutting

Mounting

Grinding

Polishing

Microscopes

Image Processing

Hardness Testers

*Portable Analysers
XRF & LIBS*

Weld Analysis

2020

Price List

Abrasive Cut-off Wheels for Laboratory Cutters

Type	Use	Diameters
FES & 3H	For cutting very hard ferrous metals in the range RC60 and above. Resin bonded Al ₂ O ₃	230-400mm
FEM	For cutting tough metals, e.g. ferrous RC40-55 and nickel-based alloys. Resin bonded Al ₂ O ₃	250-432mm
FEH	For cutting softer ferrous metals in the range RC25-40 and case hardened parts. Resin bonded Al ₂ O ₃	250-350mm
F & UF	Superthin and Ultrathin wheels for cutting ferrous metals where final cut surface without burning is essential. Most suitable for cutters with extraction. Rubber bonded Al ₂ O ₃	230-350mm
NF	For cutting non-ferrous metals, aluminium, copper etc. Resin Bonded SiC	250mm

Type	Use	Diameters
FESR	For cutting large ferrous sections, very tough super-alloys and hardened steels. Reinforced for longer life. Resin bonded Al ₂ O ₃	432-508mm
FED	For cutting medium hard, ductile ferrous metals. Resin bonded Al ₂ O ₃	250-300mm
FEVH FEVHR	For cutting thin ferrous metal (e.g.tubes). Resin bonded Al ₂ O ₃ FEVHR - Reinforced for longer life	250mm
T	Superthin wheel for cutting non-ferrous metals and alloys, aluminium, titanium, copper etc. where final cut surface without burning is essential. Most suitable for cutters with extraction. Rubber bonded SiC	250-600mm
T1 & T2	For cutting non-ferrous metals and alloys, aluminium, titanium, copper etc. Resin bonded SiC	250-350mm

All packs contain 10 cutting wheels

Type	Size	Cat no.	
230mm			
FES	230 x 1.7 x 32mm	1099230	£78.50
F	230 x 0.8 x 32mm	109919	£149.00

250mm	Brillant 200, 230, 240 and similar machines		
3H	250 x 1.6 x 32mm	109921	£92.70
FES	250 x 1.5 x 32mm	109821	£92.70
FEM (2HA)	250 x 1.6 x 32mm	109922	£92.70
FED (33H)	250 x 1.6 x 32mm	109923	£92.70
FEH (2H)	250 x 1.5 x 32mm	109924	£92.70
FEVH (H)	250 x 1.6 x 32mm	109927	£92.70
FEVHR (H-R)	250 x 2.0 x 32mm	109927R	£126.00
F	250 x 1.1 x 32mm	109926	£165.00
T1	250 x 1.5 x 32mm	109828	£116.00
T2	250 x 1.6 x 32mm	109928	£122.00
NF	250 x 1.6 x 32mm	109929	£92.70
T	250 x 1.1 x 32mm	109920	£165.00

300mm	Brillant 230, 250.3 and similar machines		
FES	300 x 2.0 x 32mm	109831	£173.00
FEM (2HA)	300 x 2.0 x 32mm	109932	£115.00
FED (33H)	300 x 2.0 x 32mm	109933	£115.00
FEH (2H)	300 x 2.4 x 32mm	109935	£115.00
F	300 x 1.2 x 32mm	109936	£190.00
UF	300 x 0.8 x 32mm	109836	£173.00
T1	300 x 2.0 x 32mm	109838	£173.00
T	300 x 1.2 x 32mm	109930	£190.00

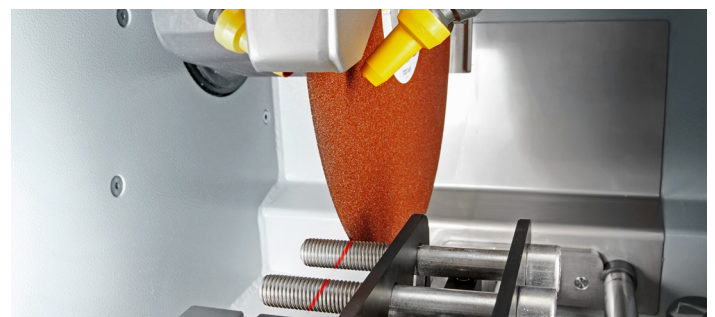
Type	Size	Cat No.	
350mm	Brillant 250.3, 255, 265 and similar machines		
FES	350 x 2.5 x 32mm	109841	£199.00
FEM (2HA)	350 x 2.5 x 32mm	109942	£163.00
FEH	350 x 2.5 x 32mm	109843	£199.00
F	355 x 1.4 x 32mm	109946	£199.00
T1	350 x 2.5 x 32mm	109848	£199.00

400mm	Brillant 255, 265, 275 and similar machines		
FES	406 x 3.2 x 32mm	109952	£237.00
FEM	406 x 3.2 x 32mm	109953	£237.00
T	406 x 1.5 x 32mm	1099408	£270.00

432mm	Brillant 275 and similar machines		
FESR	432 x 3.2 x 32mm	1099432R	£348.00
FEM	432 x 3.2 x 32mm	1099433	£330.00

500mm	Brillant 275, 3D, 285 and similar machines		
FESR	508 x 4.2 x 32mm	1099502R	£418.00
T	500 x 2.4 x 32mm	1099510	£395.00

600mm	Brillant 285, 2000 and similar machines		
T	600 x 4.5 x 60mm	109560	£550.00



Abrasive sectioning

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Superfine Abrasive Cutting Wheels for Laboratory Precision Cutters

Type	Use	Diameters
Type HNF	Superfine wheels for precision cutting of ferrous metals and super-alloys. Rubber bonded Al ₂ O ₃	100-180mm

Type	Use	Diameters
Type T	Superfine wheels for precision cutting of titanium, aluminium and copper alloys. Rubber bonded SiC	150-180mm

All packs contain 5 cutting wheels

Type	Size	Cat no.	Price
100mm	Brillant 220 and similar machines		
HNF	100 x 0.25 x 12.7mm	109915	£47.90
HNF	100 x 0.40 x 12.7mm	109901	£47.90
125mm	Brillant 220 and similar machines		
HNF	125 x 0.45 x 12.7mm	109902	£54.00

Type	Size	Cat no.	Price
150mm	Brillant 220 and similar machines		
HNF	150 x 0.45 x 12.7mm	109903	£58.20
T	150 x 0.45 x 12.7mm	109907	£59.20
180mm	Brillant 220 and similar machines		
HNF	180 x 0.8 x 12.7mm	101720	£63.80
T	180 x 0.8 x 12.7mm	101728	£69.00

Diamond and CBN Cutting Wheels for Laboratory Precision Cutters

Type	Use	Diameters
High Concentration	DIAMOND for use on ferrous metals, medium hard ceramics, spray coatings, MM composites and PC Boards	75-175mm
Low Concentration	DIAMOND for use on hard ceramics, glass and rock	75-175mm
High Concentration	CUBIC BORON NITRIDE (CBN) for rapid cutting of ferrous, nickel and cobalt based alloys	75-175mm

All packs contain 1 cutting wheel

Type	Size	Cat no.	Price
75mm	Brillant 220 and similar machines		
HC Diamond	75 x 0.15 x 12.7mm	100750	£252.00
LC Diamond	75 x 0.15 x 12.7mm	100751	£252.00
HC CBN	75 x 0.15 x 12.7mm	100760	£232.00

100mm	Brillant 220 and similar machines		
HC Diamond	100 x 0.30 x 12.7	101050	£305.00
LC Diamond	100 x 0.30 x 12.7	101051	£305.00
HC CBN	100 x 0.30 x 12.7	101060	£280.00

125mm	Brillant 220 and similar machines		
HC Diamond	125 x 0.40 x 12.7mm	101250	£342.00
LC Diamond	125 x 0.40 x 12.7mm	101251	£342.00
HC CBN	125 x 0.40 x 12.7mm	101260	£305.00

150mm	Brillant 220 and similar machines		
HC Diamond	150 x 0.50 x 12.7mm	101555	£443.00
LC Diamond	150 x 0.50 x 12.7mm	101556	£443.00
HC CBN	150 x 0.50 x 12.7mm	101560	£398.00

175mm	Brillant 220 and similar machines		
HC Diamond	175 x 0.60 x 12.7mm	101850	£535.00
LC Diamond	175 x 0.60 x 12.7mm	101851	£535.00
HC CBN	175 x 0.60 x 12.7mm	101860	£445.00

Diamond Cutting Wheels for Geological and Petrographic Cutters

Type	Use	Diameters
Continuous Rim Metal bonded Diamond	For rocks and petrographic samples	100-350mm

All packs contain 1 cutting wheel

	Size	Cat no.	Price
	100 X 0.40mm	101040	£152.00
	150 x 1.0mm	101540	£168.00
	200 x 1.35mm	102040	£219.00
	250 x 1.35mm	102540	£297.00
	300 x 1.6mm	103040	£467.00
	350 x 1.7mm	103540	£587.00
N.B. PLEASE SPECIFY ARBOUR SIZE WHEN ORDERING			
Petrothin	200 x 1.3 x 25.4	102045	£261.00

Diamond Cutting Wheels General Purpose

Type	Use	Diameters
Continuous Rim Resin Bonded Diamond	For use with standard, single speed metallurgical cutters for very hard materials e.g. tungsten carbides and ceramics	200-350mm

All packs contain 1 cutting wheel

Type	Size	Cat no.	Price
	200 x 1.5 x 32mm	102060	£325.00
	250 x 1.5 x 32mm	102560	£443.00
	300 x 1.5 x 32mm	103060	£510.00
	350 x 1.5 x 32mm	103560	£617.00



Precision Wafering Blades

Accessories for cutting machines

Type	Size	Cat no.	Price
COOL			
Advanced cutting fluid for use in recirculating systems for lubrication and corrosion protection			
	1 litre	109001	£23.00
	5 litre	109005	£81.00

BIOCLEAN			
Bacterial disinfectant - add to coolant recirculation tank monthly to prevent bacterial growth and bad odours			
	1 litre	109008	£26.80

DIALUB			
Advanced cutting oil for use with diamond and CBN blades in precision cutters			
	1 litre	111100	£22.70

DIALUB 2			
Synthetic, water based lubricant for use with diamond and CBN blades in precision cutters			
	1 litre	111101	£22.70

ANTI-FOAM AGENT			
To prevent excessive foaming of coolant fluid in recirculating systems			
	60ml	109009	£11.50

ANTI-CONDENSATION SPRAY			
To prevent window from getting steamed up with water condensation			
	100ml	95008900	£27.30

FILTER BAGS			
For Brillant 265, 275, 285 recircs. each		92008739	£33.00
For Brillant 200, 230, 250 recircs. each		92008741	£31.70
For Brillant 200, 230, 250 plastic recircs. each		95007759	£31.70
For Settling tank, steel, 290 x 150 x 190 each		92005993	£31.70
For Settling tank, steel, 250 x 200 x 155 each		95007760	£31.70

DRESSING STICK			
For use with diamond and CBN blades			
12x12x150mm EA		109002	£19.75



BRILLANT 220
Precision cutting and thin section preparation with Vice 6



BRILLANT 240
Manual/Automatic abrasive cutter with Single Vertical Vice



BRILLANT 285
Automatic abrasive cutter



Preferred Partner

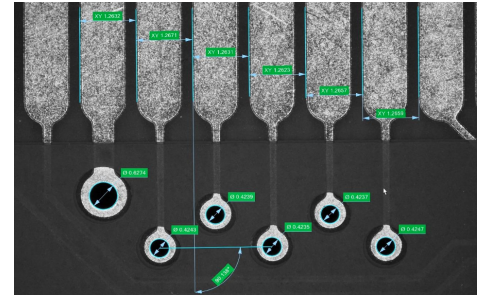


Our Zeiss microscope range covers simple inspection to fully automated solutions, digital systems, confocal & beyond.



ZEISS's brand new ZEN CORE V3 provides the most flexible & integrated imaging solutions available.

From the starter version which is available free of charge to anyone wishing to capture, annotate or measure images through to fully work-flow oriented solutions for materials analysis. Added functionality is now available for GxP Audit trail functionality to CFR 21 part 11



ZEISS NEO Pixel & Intellesis functionalities within ZEN CORE.

ZEISS NEO Pixel provides automatic dimensioning for alike components, thus removing operator error and massively increasing throughput. CAD import & export, automatic reporting & data storage

ZEISS Intellesis takes image analysis to the next level by employing machine learning to help analyse complex or difficult images. Using deep learning and Python to easily create robust and reproducible segmentation results, even for non-experts. You can now train the software once and then Intellesis can segment a batch of hundreds of images automatically. You save time and minimize user bias.

SciAps

INTRODUCING

SciAps new lightweight, narrow bodied XRF Analyser comes in 2 models, the **X550** and **X505**. Weighing less than 1.3kg with a body width of 45mm these units can access restricted test locations with minimum operator fatigue.

Typical ID times are 1-2 seconds with second beam analysis when selected allowing the detection of Al, Mg, Si, S and P. Additional apps are available and the units run on the Android OS which allows for seamless integration and data sharing.



X-550
XRF Analyser



X-505
XRF Analyser



Cold Mounting Systems

KLEER-SET

Polyester resin/hardener system giving glass-clear mounts
Curing time 40 mins.

Pack	Cat no.	Price
KLEER-SET FF Resin and Hardener 1kg	11 10 81	£36.00
KLEER-SET FF Resin and Hardener 5kg	11 10 82	£102.50

TRI-HARD

A 3 part powder/liquid system giving exceptional hardness and low shrinkage for use in exacting applications where specimen edge retention is of paramount importance - Curing time 15 mins.

Pack	Cat no.	Price
TRI-HARD Kit - Regular (Powder, Liquid 1, Liquid 2) 1.5kg 500ml 1000ml	11 10 41	£143.00
TRI-HARD Kit - Large (Powder, Liquid 1, Liquid 2) 6kg 2000ml 4000ml	11 10 49	£550.00

VARI-SET

Acrylic powder/liquid system offered in 2 different hardness levels. Powders can be mixed to obtain intermediate levels of hardness. Minimal shrinkage ensures ultimate edge preparation. Curing time - 10 mins.

Pack	Cat no.	Price
VARISET 10 Powder, soft, clear 1kg	11 10 27	£56.20
VARISET 20 Powder hard, green 1kg	11 10 28	£56.20
VARISET 10/20 Liquid 0.5lt	11 10 29	£26.60

QUICK-SET 2

Acrylic powder/liquid system giving a fast cure time of 5 mins, combining ease of use with minimal shrinkage and low odour.

Pack	Cat no.	Price
QUICK-SET 2 Powder, blue 1kg	11 10 35	£56.20
QUICK-SET 2 Liquid 0.5lt	11 10 36	£26.60

ACRI-KLEER

The most transparent powder/liquid cold mounting system without using a pressure chamber. Curing time 8 mins.

Pack	Cat no.	Price
ACRI-KLEER Powder Clear 1kg	11 10 44	£86.50
ACRI-KLEER Liquid 1lt	11 10 47	£35.00

EPO-SET

Epoxy resin/hardener system. Curing time approx. 6 hours. Low Shrinkage

Pack	Cat no.	Price
EPO-SET Resin 1kg	11 10 61	£51.00
EPO-SET Hardener 250gm	11 10 62	£26.00
EPO-SET Resin 5kg	11 10 63	£216.00
EPO-SET Hardener 1kg	11 10 64	£86.50

EPO-FLO

Low viscosity epoxy resin/hardener system for vacuum infiltration of porous materials. Curing time approx 2.5 hrs at 40°C-50°C
Very low shrinkage

Pack	Cat no.	Price
EPO-FLO Resin 1kg	11 10 65	£58.00
EPO-FLO Hardener 300gm	11 10 66	£34.00
EPO-FLO Resin 3kg	11 10 67	£161.00
EPO-FLO Hardener 1kg	11 10 68	£100.00

Mounting Accessories

Moulds For Cold Mounting**Round** Silicone Rubber

DIA	HEIGHT	Pack	Cat no.	Price
25mm	20mm	1	11 30 01	£9.20
30mm	20mm	1	11 30 02	£9.40
32mm	20mm	1	11 30 03	£9.70
40mm	25mm	1	11 30 05	£11.20
50mm	25mm	1	11 30 06	£16.50

Rectangular Silicone Rubber**LENGTH / WIDTH / HEIGHT**

LENGTH / WIDTH / HEIGHT	Pack	Cat no.	Price
55mm x 30mm x 22mm	1	11 30 10	£18.10
70mm x 40mm x 22mm	1	11 30 11	£24.00
100mm x 50mm x 22mm	1	11 30 12	£35.40

MET-MOULDS

Polypropylene - 2 part

Pack	Cat no.	Price
30mm dia 10	11 30 17	£22.20
1 1/4" diam 10	11 30 18	£22.20
40mm dia 10	11 30 20	£23.30

SILICONE mould release

Pack	Cat no.	Price
Silicone - aerosol 400ml	11 30 23	£18.50
Silicone - grease 100g	11 30 22	£12.40

MIXING CUPS	Graduated	Pack	Cat no.	Price
		100	11 30 30	£19.00

STIRRING STICKS	Wooden	Pack	Cat no.	Price
		500	11 30 32	£15.75

UNICLIPS

Plastic specimen mounting device for holding sheet material, PCBs, wire and small irregular shapes.

Tripod design to minimise interference at the prepared surface

UNICLIP Plastic tripod	Black	100	11 30 43	£25.75
UNICLIP Plastic tripod	Blue	100	11 30 44	£25.75
UNICLIP Plastic tripod	Red	100	11 30 45	£25.75
UNICLIP Plastic tripod	Green	100	11 30 46	£25.75
UNICLIP Plastic tripod	Yellow	100	11 30 47	£25.75

CLAMP SPRING CLIPS

For mounting thin samples

CLAMP Stainless Steel clip	100	11 30 40	£35.50
CLAMP Plastic clip	100	11 30 41	£35.50

SAMPLE IDENTIFICATION LABELS

Self-adhesive labels	200	11 99 11	£5.75
Plain backed labels	200	11 99 12	£6.50



Vacuum impregnation unit

	Pack	Cat no.	Price
Hot Mounting Compounds			
PHENOLIC			
Mounting compounds for general purpose applications, economical in use.			
BAKELITE S - Black			
Black phenolic	2.5kg	11 20 011	£28.00
	25kg	11 20 07	£147.50
BAKELITE R - Red			
Red phenolic	2.5kg	11 20 021	£33.00
	25kg	11 20 08	£256.50
EDGEMOUNT			
Mounting compound for improved edge retention			
Black	2.5kg	11 99 04	£58.60
	25kg	11 99 05	£410.00
CONDUCTO-MOUNT			
Black conductive mounting compound - for SEM			
Black	2.5kg	11 99 01	£78.50
	25kg	11 99 02	£438.00
CONDUCTO-MOUNT 2			
Improved black conductive compound, hard with exceptional edge retention - for SEM			
Black	1kg	11 99 06	£49.90
	2.5kg	11 99 07	£100.00
	25kg	11 99 03	£599.00
CRYSTALLITE			
Resin with minimal shrinkage and high hardness. Can be used as a facing material with Kleer-mount to minimise cost.			
Transparent	1.5kg	11 99 15	£109.00
	15kg	11 99 16	£950.00

OPAL X-PRESS
Modular Programmable Mounting Press 50mm max



	Pack	Cat no.	Price
DAP-MOUNT			
Diallylphthalate thermosetting resin, glass filled for low shrinkage and good edge retention.			
Blue	1kg	11 20 105	£49.00
	2.5kg	11 20 106	£111.00
	20kg	11 20 107	£735.00
EPO-MOUNT			
Glass filled epoxy resin for the ultimate in edge retention			
Black	1kg	11 20 11	£47.50
	2.5kg	11 20 111	£90.00
	20kg	11 20 112	£595.00
EPO-MOUNT 2			
Epoxy resin for use with poor or damaged moulds for ultimate edge retention			
Black	1kg	11 20 31	£47.50
	2.5kg	11 20 32	£90.00
	25kg	11 20 33	£595.00
EPO-MOUNT 5F			
Fine grained epoxy resin for ultimate edge retention			
Black	1kg	11 20 29	£49.50
	2.5kg	11 20 30	£115.00
	25kg	11 20 37	£815.00
KLEER-MOUNT			
Transparent acrylic resin, used when it is essential to observe specimens through the mounting material			
Transparent	1kg	11 20 21	£37.60
	2.5kg	11 20 95	£71.60
	25kg	11 20 96	£455.00
SPECIMEN PROTECTIVE LACQUER			
Clear lacquer for specimen protection -anti-tarnish			
	400ml	11 30 25	£14.75

Grinding Stones

High Quality Abrasive Grinding Stones for the rapid removal of material on High Speed Grinders

	Pack	Cat no.	Price
Silicon Carbide Grinding stone for non-ferrous metals and titanium, Saphir 375, 350x40x90mm	EA	12 35 71	£292.00
Alumina Grinding stone for ferrous metals and super-alloys Saphir 375 330x40x90mm	EA	12 35 81	£260.00
Alumina Grinding stone for ferrous metals and super-alloys - without plate for Abraplan 350x45x38mm	EA	12 35 83	£250.00
Alumina Grinding stone for ferrous metals and super-alloys - without plate for Prepamatic 200x50x32mm	EA	12 20 81	£133.00

DIAMOND DRESSING TOOLS

for Saphir 375 and other planar grinders

Multiple Diamond - short shank	EA	92006227	£222.00
Multiple Diamond - long shank	EA	92008648	£222.00

DIAMOND CUP GRINDING WHEELS

For Brillant 220 Precision Cutter

Metal bonded, Coarse grit, 150mm dia	EA	92006607	£525.00
Resin bonded, Coarse grit, 180mm dia	EA	12 45 09	£455.00
Resin bonded, Standard grit, 180mm dia	EA	12 45 10	£455.00
Resin bonded, Medium grit, 180mm dia	EA	12 45 11	£455.00
Resin bonded, Fine grit, 180mm dia	EA	12 45 12	£455.00

FOR PETROTHIN

Resin bonded, 203mm dia	EA	12 45 08	£455.00
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SAPHIR 375 Automatic Planar Stone Grinder



MetPrep MAGNO System

The MetPrep MAGNO System allows for abrasive papers, Cameo and Galaxy Diamond abrasive discs, other diamond discs and Polishing cloths to be magnetically attached to the wheel of most grinding/polishing machines.

MAGNOBASE

A magnetic substrate that is stuck to the wheel of a grinder/polisher to allow the use of steel backed discs. Only one is required per wheel.

200mm dia	EA	16 20 15	£18.00
254mm dia	EA	16 25 15	£22.50
305mm dia	EA	16 30 15	£29.00

MAGNOPLANE

A steel disc with one side adhesive coated to attach multiple plain SiC papers; **for use on MAGNOBASE or NANOBASE**

200mm dia	5	13 90 13	£50.00
254mm dia	5	13 90 14	£67.00
305mm dia	5	13 90 16	£82.00

MAGNOPLATE

A plain steel disc to provide a magnetic base for psa backed SiC papers and Polishing Cloths; **for use on MAGNOBASE or NANOBASE**

203mm dia	5	16 20 10	£31.00
254mm dia	5	16 25 10	£41.00
305mm dia	5	16 30 10	£47.50
305mm dia Stainless steel extra thick Magnoplate	EA	95006789	£20.50

Zirconia Series Grinding Discs

Suitable for primary grinding of all materials to remove cutting marks and disturbed layer. The primary advantages of this material are its very long life and cool cutting characteristics when compared to SiC. PSA backed cloth discs **for use on MAGNOPLATES**

DISCS 200mm diameter

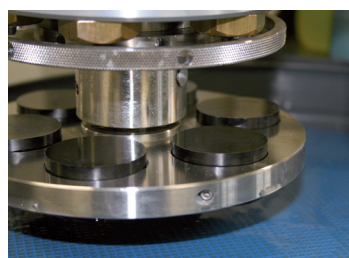
Grit size P60	25	12 20 50	£66.50
Grit size P80	25	12 20 51	£59.80
Grit size P120	25	12 20 53	£59.80

DISCS 250mm diameter

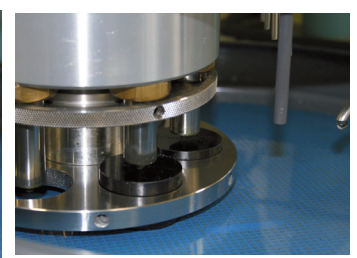
Grit size P60	25	12 25 50	£107.20
Grit size P80	25	12 25 51	£95.70
Grit size P120	25	12 25 53	£95.70

DISCS 300mm diameter

Grit size P60	25	12 30 50	£135.00
Grit size P80	25	12 30 51	£127.00
Grit size P120	25	12 30 53	£127.00



Central Pressure Holder



Individual Pressure Holder

Pack

Cat no.

Price

Galaxy Series

Premium high concentration diamond grinding discs suitable for all grinding and primary polishing of steels, nickel base and titanium alloys.
Steel backed for use on MAGNOBASE or NANOBASE

DISCS 200mm diameter			
Grit size P80-100 Red	EA	9500 5521	£77.00
Grit size P300-320 Green	EA	9500 5522	£64.00
Grit size P500-600 Blue	EA	9500 5523	£62.00
Grit size P1000-1200 Yellow	EA	9500 5524	£62.00
DISCS 250mm diameter			
Grit size P80-100 Red	EA	9500 4310	£88.50
Grit size P300-320 Green	EA	9500 4311	£75.00
Grit size P500-600 Blue	EA	9500 4312	£73.00
Grit size P1000-1200 Yellow	EA	9500 4313	£73.00
DISCS 300mm diameter			
Grit size P80-100 Red	EA	9500 4314	£108.00
Grit size P300-320 Green	EA	9500 4315	£97.00
Grit size P500-600 Blue	EA	9500 4316	£97.00
Grit size P1000-1200 Yellow	EA	9500 4317	£97.00

Cameo Platinum Series

Top Quality diamond grinding discs suitable for primary and fine grinding of ferrous metals and superalloys. Used to replace SiC abrasive papers to maximise efficiency and minimise waste.
Steel backed for use on MAGNOBASE or NANOBASE

DISCS 200mm diameter			
Grit size P80-P100 Black	EA	12 20 00	£70.50
Grit size P120-P150 Blue	EA	12 20 01	£58.00
Grit size P220-P320 Green	EA	12 20 02	£54.50
Grit size P400-P600 Yellow	EA	12 20 03	£54.50
Grit size P1000 Red	EA	12 20 04	£54.50
DISCS 250mm diameter			
Grit size P80-P100 Black	EA	12 25 00	£82.40
Grit size P120-P150 Blue	EA	12 25 01	£68.00
Grit size P220-P320 Green	EA	12 25 02	£65.00
Grit size P400-P600 Yellow	EA	12 25 03	£65.00
Grit size P1000 Red	EA	12 25 04	£65.00
DISCS 300mm diameter			
Grit size P80-P100 Black	EA	12 30 00	£105.00
Grit size P120-P150 Blue	EA	12 30 01	£91.50
Grit size P220-P320 Green	EA	12 30 02	£87.50
Grit size P400-P600 Yellow	EA	12 30 03	£87.50
Grit size P1000 Red	EA	12 30 04	£87.50

MetPrep TECHNICAL DATA SHEETS.

Provide further information about our products.

Find them ON-LINE at:

www.metprep.co.uk/downloads-support/technical-data-sheets

Pack

Cat no.

Price

Cameo Silver & Gold Series

Fine grinding discs that deliver a constant stock removal rate. They can be used to replace many traditional grinding steps from P240 to P1200 where SiC papers are commonly used. This reduces the number of steps in your procedure resulting in considerable cost savings and waste reduction, and optimum flatness is achieved. The matrix pattern optimises the effectiveness of the MetPrep diamond suspension applied by ensuring continuous and even distribution during the grinding process.
Steel backed for use on MAGNOBASE or NANOBASE

CAMEO SILVER			
For Medium Hard to very hard materials, >400HV			
200mm dia	EA	12 20 10	£65.00
250mm dia	EA	12 25 10	£75.00
300mm dia	EA	12 30 10	£85.00

CAMEO GOLD			
For soft ferrous and non-ferrous materials			
200mm dia	EA	12 20 15	£65.00
250mm dia	EA	12 25 15	£75.00
300mm dia	EA	12 30 15	£85.00

IMPORTANT FEATURES

- Cost efficient - one Cameo disc replaces many SiC abrasive papers
- Patented surface profile ensures even stock removal
- The micro pools spread and recycle the diamond suspension which substantially reduces the usage compared with other systems
- The stock removal rates of Cameo discs are unsurpassed, giving short preparation times and a perfectly flat surface
- Cameo Discs can be used on both manual and automatic polishers

Diamond Disc Series

Fixed diamond grinding discs.
Steel backed for use on MAGNOBASE or NANOBASE

Metal bonded diamond grinding discs, raised spot pattern ideal for the grinding of rocks and ceramics, with fast stock removal and long life.

DISCS 200mm			
Grit size 10 micron	EA	14 20 34	£102.00
Grit size 40 micron	EA	14 20 37	£102.00
Grit size 75 micron	EA	14 20 38	£106.00
DISCS 250mm			
Grit size 10 micron	EA	14 25 34	£163.00
Grit size 40 micron	EA	14 25 37	£163.00
Grit size 75 micron	EA	14 25 38	£169.00
DISCS 300mm			
Grit size 10 micron	EA	14 30 34	£234.00
Grit size 40 micron	EA	14 30 37	£234.00
Grit size 75 micron	EA	14 30 38	£240.00

Resin bonded diamond grinding discs, raised spot pattern, ideal for the fine grinding of rocks and ceramics. Steady controlled stock removal. Particularly useful for glassy materials where fine damage can be slowly and carefully removed

DISCS 200mm			
Grit size 3 micron	EA	14 20 42	£82.00
Grit size 9 micron	EA	14 20 44	£82.00
Grit size 30 micron	EA	14 20 46	£82.00
DISCS 250mm			
Grit size 3 micron	EA	14 25 42	£151.00
Grit size 9 micron	EA	14 25 44	£151.00
Grit size 30 micron	EA	14 25 46	£151.00
DISCS 300mm			
Grit size 3 micron	EA	14 30 42	£182.00
Grit size 9 micron	EA	14 30 44	£182.00
Grit size 30 micron	EA	14 30 46	£182.00

Qness and ATM will become QATM in 2020



In 2020 ATM will celebrate 40 years of experience in Materialography, and Qness 10 years in Hardness Testing - highly committed expert teams in Mammelzen (Germany) and Golling (Austria) made it possible to write these unique success stories. Market presence, appreciation and reputation of both companies have reached a level we wouldn't have thought possible all those years ago.

With ATM becoming part of Verder Scientific in 2015 and Qness following in 2018, two of the most innovative and focused companies in the sector are members of the Verder Group. The past two years have shown how well the companies and the products complement each other.

In 2020 a further, huge step will follow: ATM and Qness will merge into one brand to strengthen our international market position.

At the exhibition CONTROL in Stuttgart in May 2020 we will have our first official appearance under the new brand name **"QATM - Quality Assured"**.

As the new name implies, QATM will combine know-how, innovative

ideas and customer support from both locations in Germany and Austria in the best possible way.

MetPrep will benefit from this amalgamation, enabling it to continue from strength to strength in the Materials Testing market.

During 2020 our customers will see the change as the new name, QATM, begins to appear on our materials and hardness testing equipment –

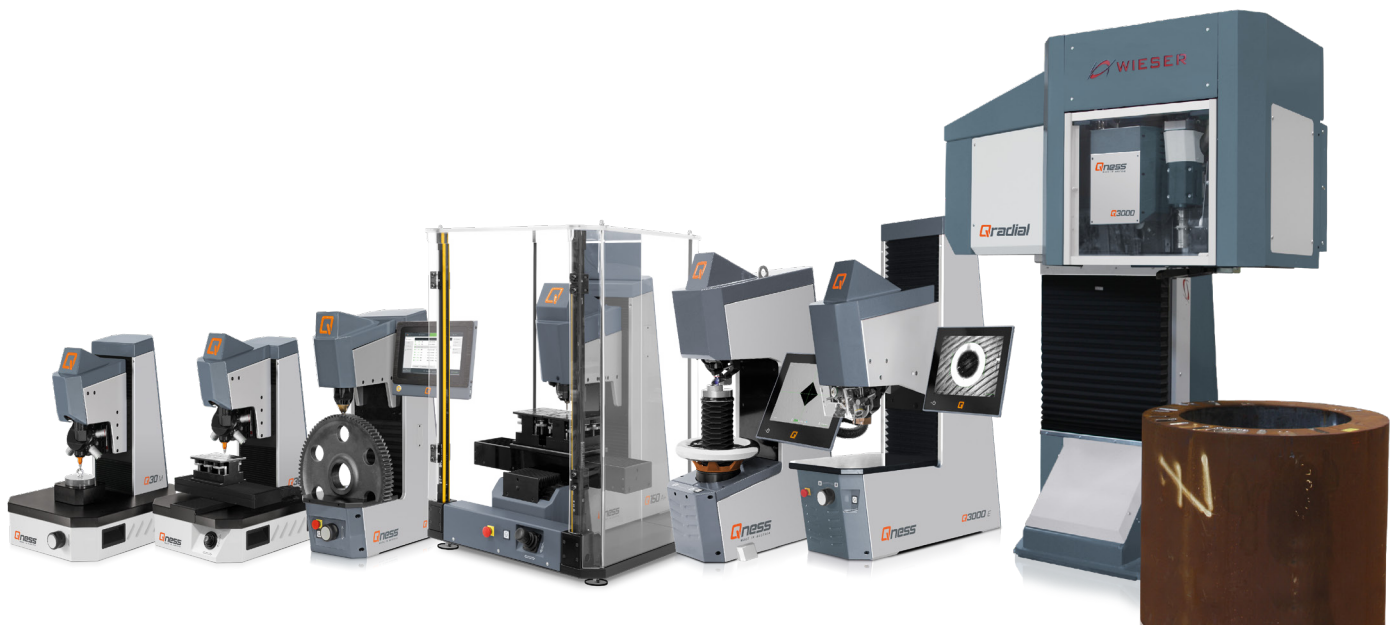
Quality Assured.

An Unrivalled Partnership of Quality Brands





- Cut-off Machines
- Hot mounting press
- Grinding, Polishing, etching
- Consumables
- Accessories and Clamping tools
- Hardness testers
- Analysis software
- System lab
- Customized solutions



GRINDING - ABRASIVE PAPERS

Silicon Carbide Waterproof Abrasive Papers

Pack Cat no. Price

Plain Backed Discs can be used with MAGNOPLANE

DISCS 200mm Dia Plain backed

Grit size P60	100	13 99 00	£46.80
Grit size P80	100	13 99 01	£42.70
Grit size P120	100	13 99 03	£37.90
Grit size P180	100	13 99 05	£33.10
Grit size P240	100	13 99 07	£33.10
Grit size P320	100	13 99 09	£33.10
Grit size P400	100	13 99 10	£33.10
Grit size P600	100	13 99 12	£33.10
Grit size P800	100	13 99 13	£33.10
Grit size P1200	100	13 99 15	£33.10
Grit size P2500	100	13 99 18	£52.60
Grit size P4000	100	13 99 19	£87.60

DISCS 230mm Dia Plain Backed

Grit size P60	100	13 23 00	£59.70
Grit size P80	100	13 23 01	£51.90
Grit size P120	100	13 23 03	£44.50
Grit size P180	100	13 23 05	£40.70
Grit size P240	100	13 23 07	£40.70
Grit size P320	100	13 23 09	£40.70
Grit size P400	100	13 23 10	£40.70
Grit size P600	100	13 23 12	£40.70
Grit size P800	100	13 23 13	£40.70
Grit size P1200	100	13 23 15	£40.70
Grit size P2500	100	13 23 18	£61.40
Grit size P4000	100	13 23 19	£109.70

DISCS 250mm Dia Plain Backed

Grit size P60	100	13 25 00	£75.70
Grit size P80	100	13 25 01	£70.20
Grit size P120	100	13 25 03	£51.90
Grit size P180	100	13 25 05	£48.10
Grit size P240	100	13 25 07	£48.10
Grit size P320	100	13 25 09	£48.10
Grit size P400	100	13 25 10	£48.10
Grit size P600	100	13 25 12	£48.10
Grit size P800	100	13 25 13	£48.10
Grit size P1200	100	13 25 15	£48.10
Grit size P2500	100	13 25 18	£73.60
Grit size P4000	100	13 25 19	£143.00

DISCS 305mm Dia Plain Backed

Grit size P60	100	13 99 30	£100.65
Grit size P80	100	13 99 31	£80.60
Grit size P120	100	13 99 33	£67.60
Grit size P180	100	13 99 35	£61.60
Grit size P220	100	13 99 36	£61.60
Grit size P240	100	13 99 37	£61.60
Grit size P320	100	13 99 39	£61.60
Grit size P400	100	13 99 40	£61.60
Grit size P500	100	13 99 41	£61.60
Grit size P600	100	13 99 42	£61.60
Grit size P800	100	13 99 43	£61.60
Grit size P1000	100	13 99 44	£61.60
Grit size P1200	100	13 99 45	£61.60
Grit size P2400	100	13 99 47	£230.00
Grit size P2500	100	13 99 48	£103.50
Grit size P4000	100	13 99 49	£194.70

ROLLS 76mm x 20m

Grit size P120	EA	13 80 03	£20.60
Grit size P180	EA	13 80 05	£18.20
Grit size P240	EA	13 80 07	£18.20
Grit size P320	EA	13 80 09	£18.20
Grit size P400	EA	13 80 10	£18.20
Grit size P600	EA	13 80 12	£18.20
Grit size P800	EA	13 80 13	£18.20
Grit size P1200	EA	13 80 15	£18.20

Pack Cat no. Price

Adhesive Backed Discs can be used with MAGNOPLATE

DISCS 200mm Dia Adhesive Backed

Grit size P60	100	13 20 50	£74.60
Grit size P80	100	13 20 51	£70.20
Grit size P120	100	13 20 53	£60.60
Grit size P180	100	13 20 55	£54.10
Grit size P240	100	13 20 57	£54.10
Grit size P320	100	13 20 59	£54.10
Grit size P400	100	13 20 60	£54.10
Grit size P600	100	13 20 62	£54.10
Grit size P800	100	13 20 63	£54.10
Grit size P1200	100	13 20 65	£54.10
Grit size P2500	100	13 20 68	£76.20
Grit size P4000	100	13 20 69	£130.00

DISCS 250mm Dia Adhesive Backed

Grit size P60	100	13 25 50	£106.10
Grit size P80	100	13 25 51	£99.30
Grit size P120	100	13 25 53	£86.30
Grit size P180	100	13 25 55	£77.75
Grit size P240	100	13 25 57	£77.75
Grit size P320	100	13 25 59	£77.75
Grit size P400	100	13 25 60	£77.75
Grit size P600	100	13 25 62	£77.75
Grit size P800	100	13 25 63	£77.75
Grit size P1200	100	13 25 65	£77.75
Grit size P2500	100	13 25 68	£114.40
Grit size P4000	100	13 25 69	£153.40

DISCS 305mm Dia Adhesive Backed

Grit size P60	100	13 30 50	£150.80
Grit size P80	100	13 30 51	£140.60
Grit size P120	100	13 30 53	£134.20
Grit size P180	100	13 30 55	£114.70
Grit size P240	100	13 30 57	£114.70
Grit size P320	100	13 30 59	£114.70
Grit size P400	100	13 30 60	£114.70
Grit size P600	100	13 30 62	£114.70
Grit size P800	100	13 30 63	£114.70
Grit size P1200	100	13 30 65	£114.70
Grit size P2500	100	13 30 68	£148.20
Grit size P4000	100	13 30 69	£227.75

Waterproof Abrasive Belts

SILICON CARBIDE cloth belts 100mm x 915mm

Grit size P60	10	13 51 00	£55.20
Grit size P80	10	13 51 01	£52.20
Grit size P120	10	13 51 03	£47.00
Grit size P180	10	13 51 05	£47.00
Grit size P240	10	13 51 07	£47.00
Grit size P400	10	13 51 10	£47.00

ALUMINIUM OXIDE cloth belts 100mm x 915mm

Grit size P60	10	13 99 80	£52.00
Grit size P80	10	13 99 81	£45.75
Grit size P120	10	13 99 83	£43.70
Grit size P180	10	13 99 85	£43.70
Grit size P240	10	13 99 87	£43.70
Grit size P400	10	13 99 90	£43.70

GRIT GRABBERS

Double sided adhesive discs for use with plain backed SiC papers.
Can be used repeatedly.

200mm dia	10	13 90 03	£28.00
254mm dia	10	13 90 04	£45.50
305mm dia	10	13 90 06	£57.00
Aerosol Spray Adhesive	400ml	13 90 05	£19.00

INTRODUCING

MetPrep NanoFix System

Premium Application adhesive free grinding

Metprep have introduced our new NanoFix system which uses the latest advances in nano surface technology to bond the abrasive discs without the use of PSA backing. For use with Nanodisc SiC adhesive free grinding papers that have a PET backing which promotes a wrinkle free surface when laid down on the NanoBase.

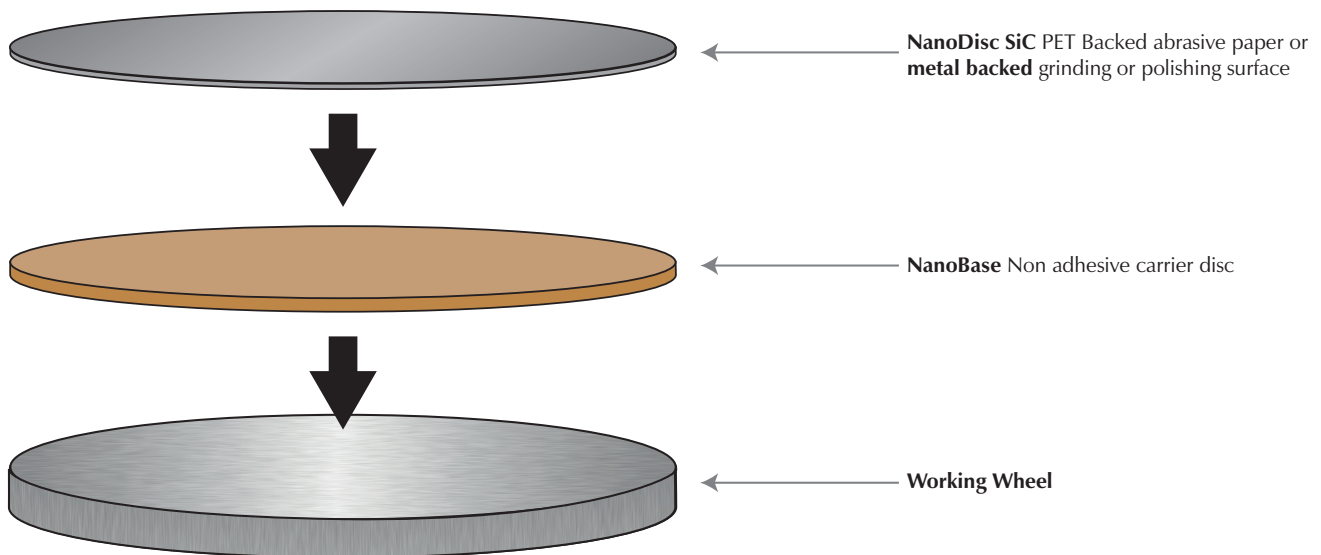
Metal backed grinding and polishing surfaces may also be used. As an adhesive free system each component can be re-used as required. The high-performance NanoDisc abrasive papers may also be used on any similar system that utilises a suitable non-adhesive surface for fixation to the platen. Your existing grinder can easily be adapted to accept the new NanoFix system

The MetPrep NanoFix System comprises:

NanoBase – reusable non-adhesive carrier disc

NanoDisc SiC - PET backed Silicon Carbide Waterproof Abrasive Paper discs

Metal backed Grinding Surfaces and Polishing Cloths



To adopt the MetPrep NanoFix System, the following new items are available:

	Pack	Cat no.	Price
NanoBase – reusable non-adhesive, double sided carrier disc for attachment to a working wheel			
250mm	EA	95003607	139.00
300mm	EA	95003608	164.00
350mm	EA	95014566	249.00

NanoDisc SiC - PET backed Silicon Carbide Waterproof Abrasive Paper discs 250mm dia			
Grit size P120	100	132573	93.00
Grit size P180	100	132575	82.00
Grit size P240	100	132577	82.00
Grit size P320	100	132580	82.00
Grit size P600	100	132582	82.00
Grit size P800	100	132583	82.00
Grit size P1200	100	132585	82.00
Grit size P2500	100	132588	120.00

NanoDisc SiC - PET backed Silicon Carbide Waterproof Abrasive Paper discs 300mm dia			
Grit size P120	100	133073	130.00
Grit size P180	100	133075	112.00
Grit size P240	100	133077	112.00
Grit size P320	100	133080	120.00
Grit size P600	100	133082	120.00
Grit size P800	100	133083	120.00
Grit size P1200	100	133085	120.00
Grit size P2500	100	133088	160.00

NanoDisc SiC - PET backed Silicon Carbide Waterproof Abrasive Paper discs 350mm dia			
Grit size P120	100	134073	181.00
Grit size P180	100	134075	162.00
Grit size P240	100	134077	162.00
Grit size P320	100	134080	162.00
Grit size P600	100	134082	162.00
Grit size P800	100	134083	162.00
Grit size P1200	100	134085	162.00
Grit size P2500	100	134088	225.00

Pack Cat no. Price

Primary Polishing Cloths

ABRACLOTH M A hard coarse weave synthetic material for intermediate grinding and primary polishing. Use with 15 or 9 micron diamond

203mm dia	5	17 20 40	£70.00
254mm dia	5	17 25 40	£96.00
305mm dia	5	17 30 40	£117.00

PLANOCLOTH HM A perforated chemotextile oil, water and alcohol resistant cloth. For rapid stock removal from hard materials producing flat, relief free specimens. 6 micron diamond and larger

203mm dia	5	17 20 62	£99.00
254mm dia	5	17 25 62	£140.00
305mm dia	5	17 30 62	£174.00

PLANOCLOTH M A chemotextile oil, water and alcohol resistant cloth for flat, relief free specimens. 3 micron diamond and larger

203mm dia	5	17 20 61	£57.00
254mm dia	5	17 25 61	£71.00
305mm dia	5	17 30 61	£94.00

NYLAP CLOTH M A hard napless cloth with long life for pre-polishing of all materials. 6-15 micron diamond

203mm dia	5	17 20 50	£55.00
254mm dia	5	17 25 50	£76.00
305mm dia	5	17 30 50	£97.00

DURASILK M For coarse polishing of tough materials, e.g. titanium, superalloys and steels. 3 and 6 micron diamond

203mm dia	5	17 20 52	£50.00
254mm dia	5	17 25 52	£65.00
305mm dia	5	17 30 52	£79.00

Pack Cat no. Price

Final Polishing Cloths

CASHMERE CLOTH M The softest virgin wool cloth specially prepared to produce flat polished surfaces. diamond or oxide abrasives, 15-1 micron

203mm dia	5	17 20 70	£65.00
254mm dia	5	17 25 70	£103.00
305mm dia	5	17 30 70	£115.00

TROUNOIRE M A dense short napped cloth for final polishing. 6-1/4 micron diamond

203mm dia	5	17 20 95	£61.00
254mm dia	5	17 25 95	£95.00
305mm dia	5	17 30 95	£103.00

ALPHACLOTH M A versatile synthetic short nap cloth with fibres bonded to a woven cotton backing. For final polishing with diamond, alumina or silica abrasives, 1 micron or less

203mm dia	5	17 20 94	£50.00
254mm dia	5	17 25 94	£63.00
305mm dia	5	17 30 94	£72.00

MEMPHIS CLOTH M A heavy duty cloth with medium nap for final polishing using diamond, 3 micron or less

203mm dia	5	17 20 96	£51.00
254mm dia	5	17 25 96	£81.00
305mm dia	5	17 30 96	£90.00

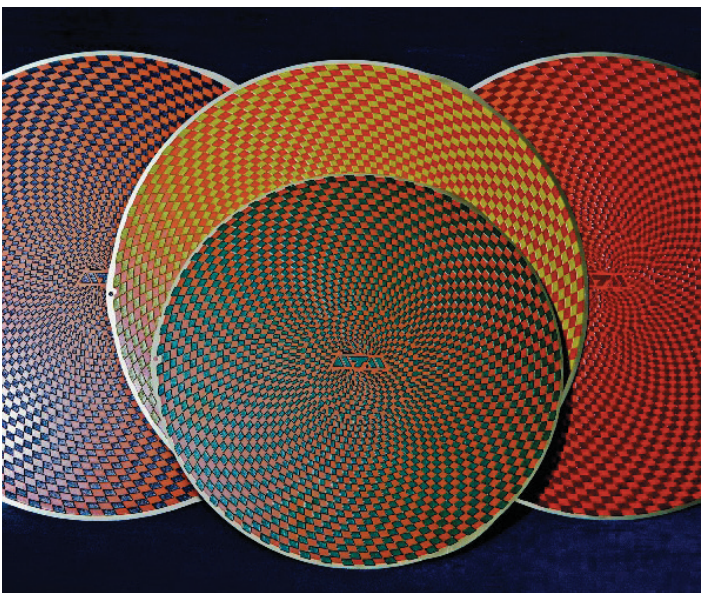
MULTICLOTH M A very short napped soft cloth for final polishing with oxide abrasives, 1 micron or less

203mm dia	5	17 20 92	£50.00
254mm dia	5	17 25 92	£63.00
305mm dia	5	17 30 92	£72.00

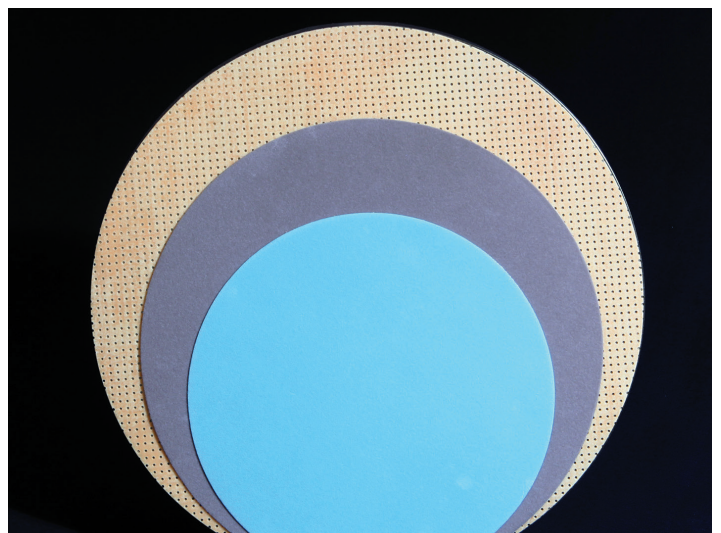
CHEMICLOTH M A black, napless, porous synthetic cloth for chemical/mechanical final polishing, producing a superfine finish with minimal relief. Long life. Colloidal Silica or Alumina suspensions

203mm dia	5	17 20 91	£78.00
254mm dia	5	17 25 91	£112.00
305mm dia	5	17 30 91	£142.00

POLISHING CLOTHS - M SERIES with steel back for use on MAGNOBASE or NANOBASE



Galaxy Diamond Grinding Discs



Polishing Cloths

	Pack	Cat no.	Price
Primary Polishing Cloths			
ABRACLOTH A hard coarse weave synthetic material for intermediate grinding and primary polishing. Use with 15 or 9 micron diamond			
203mm dia	5	16 20 40	£46.50
254mm dia	5	16 25 40	£69.50
305mm dia	5	16 30 40	£81.50

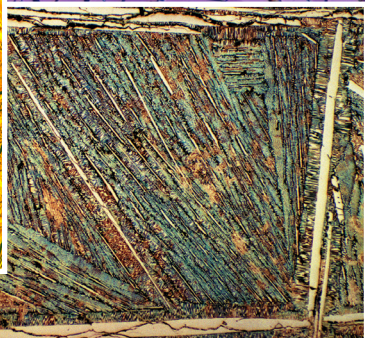
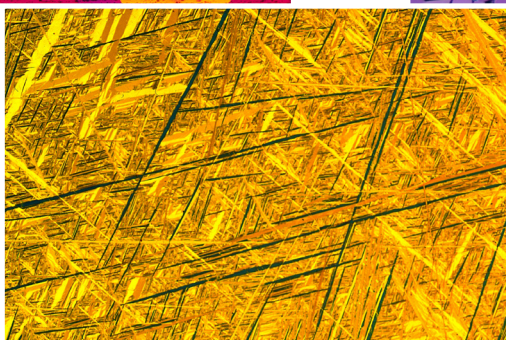
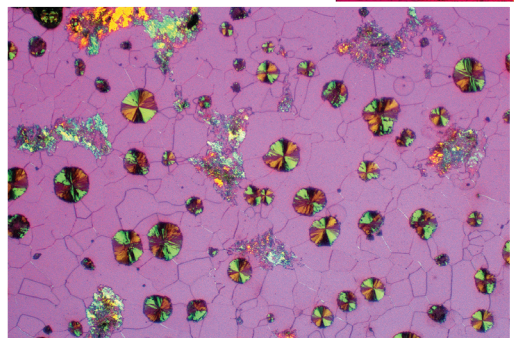
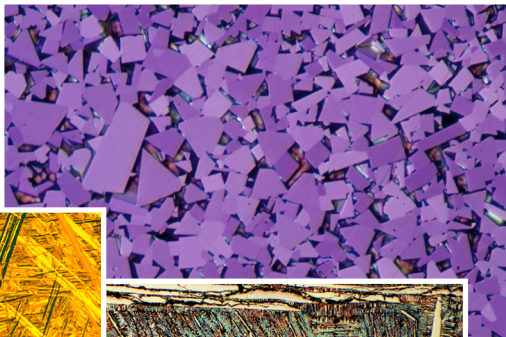
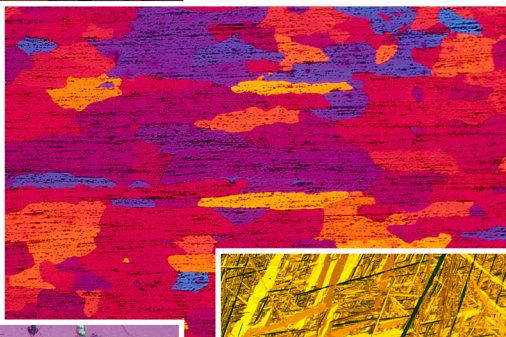
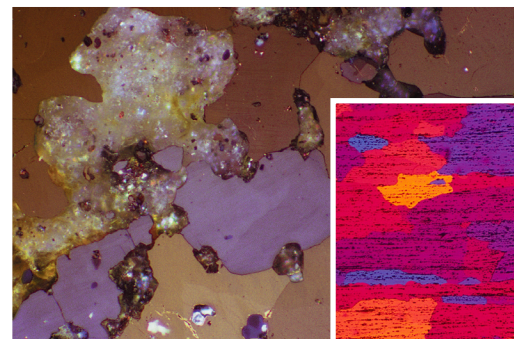
PLANOCLOTH H A perforated chemotextile oil, water and alcohol resistant cloth. For rapid stock removal from hard materials producing flat, relief free specimens. 6 micron diamond and larger			
203mm dia	5	16 20 62	£93.30
254mm dia	5	16 25 62	£125.70
305mm dia	5	16 30 62	£159.00

PLANOCLOTH A chemotextile oil, water and alcohol resistant cloth for flat, relief free specimens. 3 micron diamond and larger			
203mm dia	5	16 20 61	£36.10
254mm dia	5	16 25 61	£52.00
305mm dia	5	16 30 61	£68.50

NYLAP CLOTH A hard napless cloth with long life for pre-polishing of all materials. 6-15 micron diamond			
203mm dia	5	16 20 50	£39.20
254mm dia	5	16 25 50	£55.60
305mm dia	5	16 30 50	£75.70

DURASILK For coarse polishing of tough materials, e.g. titanium, superalloys and steels. 3 and 6 micron diamond			
203mm dia	5	16 20 52	£43.50
254mm dia	5	16 25 52	£53.50
305mm dia	5	16 30 52	£59.50

POLISHING CLOTHS - PSA SERIES with Adhesive backing for use directly on a polishing wheel or on **MAGNOPLATE**



Monocrystalline

DIAMOND compound, water based, in disposable syringes

	Pack	Cat no.	Price
Micron size 1/4 Grey	5g	15 99 02	£11.30
Micron size 1/4 Grey	20g	15 99 04	£35.90
Micron size 1 Blue	5g	15 99 06	£10.40
Micron size 1 Blue	20g	15 99 08	£30.40
Micron size 3 Green	5g	15 99 10	£14.95
Micron size 3 Green	20g	15 99 12	£47.90
Micron size 6 Yellow	5g	15 99 14	£14.95
Micron size 6 Yellow	20g	15 99 16	£47.90
Micron size 9 Red	5g	15 99 18	£21.40
Micron size 9 Red	20g	15 99 20	£65.00
Micron size 15 Brown	5g	15 99 22	£21.40
Micron size 15 Brown	20g	15 99 24	£65.00
Micron size 30 Mahogany	5g	15 99 26	£21.40
Micron size 30 Mahogany	20g	15 99 28	£65.00
Micron size 45 Purple	5g	15 99 30	£21.40
Micron size 45 Purple	20g	15 99 32	£65.00

DIASPRAY - Diamond aerosol, water based, manually pressurised

Micron size 1/4 Grey	250ml	15 42 31	£32.30
Micron size 1 Blue	250ml	15 42 32	£23.90
Micron size 3 Green	250ml	15 42 33	£23.90
Micron size 6 Yellow	250ml	15 42 34	£32.50
Micron size 9 Red	250ml	15 42 35	£32.50
Micron size 15 Brown	250ml	15 42 36	£34.60
Micron size 30 Mahogany	250ml	15 42 37	£34.60
Micron size 45 Purple	250ml	15 42 38	£34.60

DIAMOND Suspensions, water based with trigger spray

Micron size 1/4 Grey	400ml	15 99 44	£49.20
Micron size 1 Blue	400ml	15 99 48	£35.90
Micron size 3 Green	400ml	15 99 52	£35.90
Micron size 6 Yellow	400ml	15 99 56	£49.20
Micron size 9 Red	400ml	15 99 60	£49.20
Micron size 15 Brown	400ml	15 99 64	£52.90
Micron size 30 Mahogany	400ml	15 99 66	£52.90
Micron size 45 Purple	400ml	15 99 68	£52.90
Micron size 90 Clear	400ml	15 99 76	£82.40

DIAMOND Suspensions, water based, refill bottles

Micron size 1/4 Grey	1lt	15 98 44	£99.00
Micron size 1 Blue	1lt	15 98 48	£67.60
Micron size 3 Green	1lt	15 98 52	£67.60
Micron size 6 Yellow	1lt	15 98 56	£99.90
Micron size 9 Red	1lt	15 98 60	£105.80
Micron size 15 Brown	1lt	15 98 64	£105.80
Micron size 30 Mahogany	1lt	15 98 66	£105.80
Micron size 45 Purple	1lt	15 98 68	£105.80

DIAMOND Suspensions, oil based with trigger spray

Micron size 1/4 Grey	400ml	15 99 43	£49.20
Micron size 1 Blue	400ml	15 99 47	£35.90
Micron size 3 Green	400ml	15 99 51	£35.90
Micron size 6 Yellow	400ml	15 99 55	£49.20
Micron size 9 Red	400ml	15 99 59	£49.20
Micron size 15 Brown	400ml	15 99 63	£52.90
Micron size 30 Mahogany	400ml	15 99 65	£52.90
Micron size 45 Purple	400ml	15 99 67	£52.90

DIAMET Diamond Suspension - Unique compound formulation, self lubricating for maximum economy, with trigger spray

Micron size 1/4 Grey	500ml	15 99 33	£28.70
Micron size 1 Blue	500ml	15 99 34	£28.70
Micron size 3 Green	500ml	15 99 35	£28.70
Micron size 6 Yellow	500ml	15 99 36	£28.70
Micron size 9 Red	500ml	15 99 37	£28.70
Micron size 15 Brown	500ml	15 99 38	£28.70

Lubricants

MetPrep Diamond Lubricant, water based, Yellow

Aerosol - pump up	250ml	15 50 00	£8.75
Bottle	1lt	15 50 01	£9.80
Bottle	2.5 lt	15 50 02	£21.60

MetPrep Diamond Lubricant, water/oil based, Pink

Bottle	1lt	15 50 12	£14.20
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MetPrep Diamond Lubricant, alcohol based, Blue

Bottle	1lt	15 50 08	£17.50
Bottle	2.5 lt	15 50 09	£30.50

MetPrep Diamond Lubricant, oil based, Red

Bottle	2.5 lt	15 50 04	£22.20
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DISPENSERS

Trigger Spray attachment	EA	15 51 02	£3.60
Pump up refillable aerosol, 250ml	EA	15 51 03	£7.50



METPREP DIAMOND POLISHING MEDIA

MetPrep Materials Safety Data Sheets (MSDS).
Provide further information about our products.

Find them ON-LINE at:
www.metprep.co.uk/downloads-support/sds

	Pack	Cat no.	Price
Polycrystalline			
DIAMOND compound, water based, in disposable syringes			
Micron size 1/4 Grey	10g	15 98 04	£44.80
Micron size 1 Blue	10g	15 98 08	£44.80
Micron size 3 Green	10g	15 98 12	£54.00
Micron size 6 Yellow	10g	15 98 16	£74.80
Micron size 9 Red	10g	15 98 20	£74.80
Micron size 15 Brown	10g	15 98 24	£74.80

DIASPRAY - Diamond aerosol, water based, manually pressurised			
Micron size 1/4 Grey	250ml	15 42 41	£43.80
Micron size 1 Blue	250ml	15 42 42	£43.80
Micron size 3 Green	250ml	15 42 43	£45.90
Micron size 6 Yellow	250ml	15 42 44	£46.90
Micron size 9 Red	250ml	15 42 45	£46.90
Micron size 15 Brown	250ml	15 42 46	£46.90

DIAMOND Suspensions, water based with trigger spray			
Micron size 1/4 Grey	400ml	15 42 61	£65.50
Micron size 1 Blue	400ml	15 42 62	£65.50
Micron size 3 Green	400ml	15 42 63	£68.50
Micron size 6 Yellow	400ml	15 42 64	£70.00
Micron size 9 Red	400ml	15 42 65	£70.00
Micron size 15 Brown	400ml	15 42 66	£70.00

DIAMOND Suspensions, water based, refill bottles			
Micron size 1/4 Grey	1lt	15 41 41	£99.75
Micron size 1 Blue	1lt	15 41 42	£99.75
Micron size 3 Green	1lt	15 41 43	£129.00
Micron size 6 Yellow	1lt	15 41 44	£132.00
Micron size 9 Red	1lt	15 41 45	£132.00
Micron size 15 Brown	1lt	15 41 46	£132.00

POLYMET Suspension - water based, special formula for dramatic reduction in polishing times			
Micron size 1 Blue	400ml	15 98 82	£62.30
Micron size 3 Green	400ml	15 98 83	£65.20
Micron size 6 Yellow	400ml	15 98 84	£66.70
Micron size 9 Red	400ml	15 98 85	£66.70
Micron size 15 Brown	400ml	15 98 86	£66.70



METPREP OXIDE POLISHING MEDIA

	Pack	Cat no.	Price
Polishing Silica			
SILCO Colloidal Silica suspension, high concentration			
Micron size 0.06	1lt	15 99 97	£25.80
Micron size 0.06	5lt	15 99 99	£98.50
Micron size 0.06	25lt	15 99 98	£355.00

OPUS Non crystallising Colloidal Silica suspension, high concentration, suitable for use with automatic peristaltic dosers			
Micron size 0.04	1lt	15 97 80	£36.00
Micron size 0.04	2.5lt	15 97 81	£86.50
Micron size 0.04	5lt	15 97 82	£157.00

Polishing Alumina			
ALPHA - Dry Powder			
Micron size 1.0	500g	15 99 80	£83.40
Micron size 1.0	2.0kg	15 99 81	£320.00
Micron size 0.3	500g	15 99 82	£83.40
Micron size 0.3	2.0kg	15 99 83	£320.00

GAMMA - Dry Powder			
Micron size 0.05	500g	15 99 84	£83.40
Micron size 0.05	2.0kg	15 99 85	£320.00

AQUEOUS Suspensions			
Alpha Micron size 5.0	1lt	15 99 89	£42.80
Alpha Micron size 1.0	1lt	15 99 91	£49.50
Alpha Micron size 0.3	1lt	15 99 93	£49.50
Gamma Micron size 0.05	1lt	15 99 95	£49.50

Silicon Carbide Grit Size Comparison Chart			
Comparison chart illustrating Silicon Carbide grit size and typical size in micrometers			
SiC FEPA European	Average size microns	SiC CAMI USA	Average size microns
P40g	412	40g	428
P80g	197	80g	192
P120g	127	120g	116
P180g	78	180g	78
P240g	58	240g	53
P320g	46		
P400g	35	320g	36
P600g	25	400g	23
P800g	22		
P1000g	18		
P1200g	15	600g	16
P2500g	12	800g	12
		1000g	9
P4000g	6	1200g	6

EVOLution Portable Grinder/Polisher Kit

Controller, 110/120V for 2 x brushless motors (PGEVOLUTION)	
Motor, super-torque, brushless (PGENESKA250T)	
Power cord for PGENESKA250T motor (PGENESKACABLE)	
Handpiece, angle 90 degree (CHC collet) (PGIC390)	
Rubber pad 30mm, 3mm shaft (PGPT030)	
Consumables starter kit (PGMECONS)	
Carry bag for kit (PGBAG)	£2,299.00

EVOLution Accessories & Spare Parts

Motor, super-torque, brushless	PGENESKA250T	£656.00
Power cord for PGENESKA250T motor	PGENESKACABLE	£210.00
Handpiece, angle 90 degree (CHC collet)	PGIC390	£480.00
Handpiece, angle, 45 degree (CHC collet)	PGKC345	£455.00
Handpiece, straight, rapid-chuck (CHH collet)	PGIH300	£350.00
Handpiece, straight, deep holes (CHM collet)	PGMH300	£350.00
Handpiece, torque type (CHG collet)	PGHG210	£350.00
Mini belt sander attachment	PGBS100	£765.00
Extension Element, reduction gear	PGRG01	£530.00
Extension Element	PGCN01	£400.00
Replacement collets 3.0mm	PGCHC3	£99.00
Rubber disc holder, 30mm diameter (Pck of 5)	PGPT030X5	£42.00
Flapper abrasive wheel 60 x 30 x 6mm (pck of 10)	PGPT6030	£58.00

	Pack	Cat no.	Price
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Portable Grinding and Polishing Materials

Grinding Discs , 32mm dia, psa backed			
Grit size P60	100	13 03 00	£24.50
Grit size P120	100	13 03 03	£24.50
Grit size P240	100	13 03 07	£24.50
Grit size P400	100	13 03 10	£24.50
Grit size P600	100	13 03 12	£24.50
Grit size P1200	100	13 03 15	£24.50

Polishing Cloths , 32mm dia, psa backed			
Durasilk, psa	25	16 03 52	£20.80
Trounoire, psa	25	16 03 95	£21.60
Cashmere Cloth, psa	25	16 03 70	£20.50
Planocloth, psa	25	16 03 61	£20.50
Alphacloth, psa	25	16 03 94	£20.50
HS Blue	25	16 03 98	£29.70
HS Green	25	16 03 99	£29.70

DIAMOND compound, water based, in disposable syringes			
Micron size 1 Blue	5g	15 99 06	£10.40
Micron size 6 Yellow	5g	15 99 14	£14.95
Micron size 15 Brown	5g	15 99 22	£21.40
MetPrep Lubricant, Aerosol - pump up	250ml	15 50 00	£8.75

Portable Replicating Materials

Acetate Replica sheet, 35micron	20	AAG255	£21.60
Acetate Replicating tape, 125 micron	19mm x 4.5m	AAG3882	£67.00
Glass slides, 1.0 - 1.2mm (26x76)	50	AAL4244	£15.50
Glass slides, 1.2 - 1.4mm (26x76)	100	19 40 02	£17.50
Microset Cartridge 101RFB	50ml	MC50	£41.00
Microset Replifix Putty - (fast cure)	500g	M121F	£58.00
Microset Cartridge 101RF	265ml	101RF	£119.00
Microset Dispensing gun	EA	DG50	£57.50
Microset Nozzle pack	10	NP10	£15.00
Microset Nozzle pack	50	NP50	£64.00

Ultrasonic Cleaners

Units with timer, variable heater, lid and basket			
MODEL	CAPACITY	TANK SIZE	
U300H	2.5 litres	240L x 140W x 100D	£430.00
U500H	4.5 litres	300L x 150W x 150D	£736.00
QS12	12.5 litres	295L x 245W x 140D	£1,459.00

	Pack	Cat no.	Price
Ultraclean 1 Ultrasonic cleaning fluid concentrate, suitable for ferrous materials			
	1 lt	18 00 02	£19.30
	5 lt	18 00 03	£82.00

Ultraclean 2 Ultrasonic cleaning fluid concentrate, suitable for non-ferrous materials e.g. aluminium, copper etc.			
	1 lt	18 00 04	£19.30

Vacuum and Pressure Impregnation Units

MULTI-POUR Vacuum Impregnation unit with indexing moulds (8off), 2 pouring stations and vacuum pump			
	EA	M6500001	£2,460.00

SINGLE-POUR , Vacuum Impregnation unit and vacuum pump			
	EA	CA9117	£1,185.00

TECHNOMAT Pressure Chamber for use with CRYSTAL-KLEER mounting compound to produce glass-clear mounts			
	EA	11 30 50	£685.00

Laboratory Compressor

BAMBI Compressor, Oil free, Ultra low noise 340h x 400w x 330d (mm)			
	EA	PT5	£635.00

Specimen Driers

Specimen Drier , Bench Mounted	EA	A5810355	£712.00
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Specimen Levelling Press for Microscopy

Specimen Levelling Press for levelling specimens, with height control of prepared surface for upright microscopes.	EA	19 99 04	£335.00
Glass Slides (extra thick) for use with the Specimen Levelling Press	10	19 04 05	£29.00
Plasticene for use with the Specimen Levelling Press	500g	19 04 01	£9.90

Miscellaneous Accessories

Fastener Vice - Miniature vice for small samples such as fasteners for longitudinal sectioning	EA	C10050	£335.00
Lens Tissue , for microscope lens and sample cleaning, 100x150mm	4 pks of 25	19 04 02	£40.00
Electric Engraver with metal point for micro-sample identification	EA	19 00 00	£81.00
Cotton Wool for etch swabbing and micro-cleaning	500g	19 99 01	£8.35
Vinyl Gloves , disposable	100	19 99 05	£19.60
Selvyt Cloth Squares with bound edges 250mmx250mm	10	16 99 99	£42.00
Specimen Protective Lacquer for coating specimens to prevent tarnish	400ml	11 30 25	£14.75

Vickers Reference Hardness Blocks

NOMINAL VICKERS REFERENCE HARDNESS BLOCK VALUES

40, 70, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, **£430.00**
600, 650, 700, 750, 800, 850, 900, 950.

Standard Loads (kg) available HV2, HV3, HV5, HV10, HV20, HV30, HV50, HV100.

Additional UKAS Load Calibrations for individual block **£263.00**

UKAS Recalibrations of existing blocks (Pass or Fail) **£263.00**

All blocks are supplied with UKAS Certification to BS EN ISO 6507-3 and ASTM E92

Block size 64mm diameter x 15mm thickness

NOMINAL LOW FORCE VICKERS & MICRO VICKERS REFERENCE HARDNESS BLOCK VALUES

40, 70, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, **£575.00**
600, 650, 700, 750, 800, 850, 900, 950.

Low force loads (kg) available HV1, HV0.5, HV0.3, HV0.2, HV0.1, HV0.050, HV0.025, HV0.010.

Additional UKAS Load Calibrations for individual block **£357.00**

UKAS Recalibrations of existing blocks (Pass or Fail) **£357.00**

All blocks are supplied with UKAS Certification to BS EN ISO 6507-3.

Calibrations to ASTM E384 by request only.

Block size 30mm diameter x 10mm thickness

Knoop Reference Hardness Blocks

NOMINAL LOW FORCE KNOOP & MICRO KNOOP REFERENCE HARDNESS BLOCK VALUES

40, 70, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, **£575.00**
600, 650, 700, 750, 800, 850, 900, 950.

Low force loads (kg) available HK1, HK0.5, HK0.3, HK0.2, HK0.1, HK0.050, HK0.025, HK0.010.

Additional Load Calibrations for individual block **£357.00**

Recalibrations of existing blocks (Pass or Fail) **£357.00**

All blocks are supplied with a traceable laboratory certificate to ASTM E384

Block size 30mm diameter x 10mm thickness

Vickers & Knoop Macro/Micro Testing Indenters

INDENTOR TYPE AND REFERENCE NUMBERS	UKAS Certified	No Certificate
MACRO VICKERS		
STANDARD TYPES: V1 002, V1 006, V1 016, V1 017, V1 018, V1 019, V1 020.	£398.00	£345.00
Repair of Macro Vickers Indenters (all types)	£349.00	£315.00
UKAS Certification of Macro Vickers Indenters all types (Pass or Fail)	£298.00	
MICRO VICKERS		
STANDARD TYPES: VI 009, VI 012, VI 013, VI 014.	£545.00	£503.00
NON STANDARD: VI 010, VI 024.	£614.00	£575.00
Repair of Micro Vickers Indenters (all types)	£380.00	£345.00
UKAS Certification of Micro Vickers Indenters all types (Pass or Fail)	£307.00	
MACRO KNOOP		
TYPES KI 007, KI 008, KI 009.	£398.00	£345.00
Repair of Macro Knoop Indenters (all types)	£349.00	£315.00
UKAS Certification of Macro Knoop Indenters all types (Pass or Fail)	£298.00	
MICRO KNOOP		
TYPES KI 002, KI 003, KI 004, KI 005,	£545.00	£503.00
Repair of Micro Knoop Indenters (all types)	£380.00	£345.00
UKAS Certification of Micro Knoop Indenters all types (Pass or Fail)	£307.00	

Rockwell & Superficial Reference Hardness Blocks

SCALE	NOMINAL REFERENCE BLOCK VALUES	PRICE
HRC	20, 25, 30, 35, 40, 45, 50, 55, 60, 63, 65, 67.	£227.00
HRA	60, 63, 65, 68, 70, 73, 76, 78, 81, 83, 84, 85.	£227.00
HRD	40, 44, 48, 52, 56, 60, 64, 67, 71, 73, 74, 77.	£227.00
HR15N	69, 72, 75, 78, 81, 83, 85, 88, 90, 91, 92, 93.	£227.00
HR30N	41, 46, 50, 55, 59, 64, 68, 73, 77, 80, 82, 83.	£227.00
HR45N	19, 25, 31, 37, 43, 49, 55, 61, 66, 70, 72, 74.	£227.00
Additional UKAS Scale Calibrations for individual block		£194.00
UKAS Recalibrations of existing blocks (Pass or Fail)		£194.00
All blocks are supplied with UKAS Certification to BS EN ISO 6508-3 and ASTM E18 Block size 64mm diameter x 15mm thickness		
All above blocks will be supplied within +/-2 Rockwell points of the nominal value		

SCALE	NOMINAL REFERENCE BLOCK VALUES	
HRB	20, 30, 40, 50, 60, 70, 75, 80, 85, 90, 95, 100.	£227.00
HRA	22, 26, 31, 35, 40, 45, 47, 50, 53, 55, 59, 62.	£227.00
HRE	75, 81, 87, 93, 100.	£227.00
HRF	74, 80, 86, 91, 97, 100.	£227.00
HRG	3, 18, 33, 41, 49, 58, 66, 74, 83.	£227.00
HRH	94, 98.	£227.00
HRK	38, 47, 56, 65, 73, 81, 86, 91, 95, 99.	£227.00
HR15T	67, 70, 73, 77, 80, 83, 85, 86, 88, 90, 91, 93.	£227.00
HR30T	29, 36, 43, 49, 56, 63, 66, 69, 73, 76, 80, 83.	£227.00
HR45T	2, 12, 22, 32, 43, 48, 53, 58, 63, 68, 73.	£227.00

Additional UKAS Scale Calibrations for individual block **£194.00**
UKAS Recalibrations of existing blocks (Pass or Fail) **£194.00**

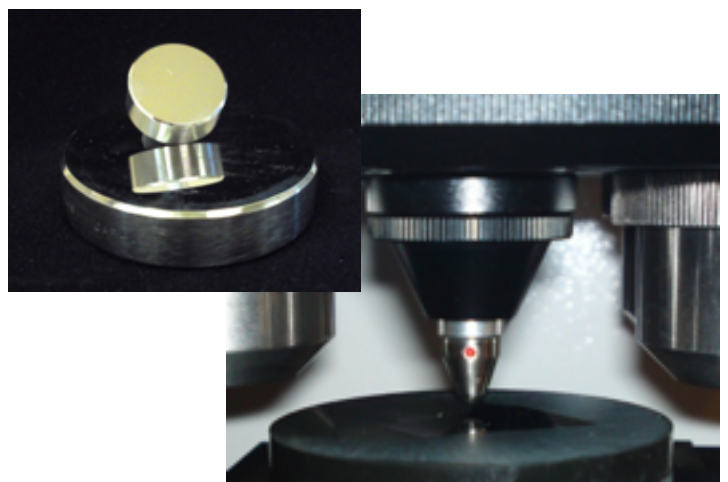
All blocks are supplied with UKAS Certification to BS EN ISO 6508-3 and ASTM E18

All reference block scales using 1/16" or 1/8" diameter balls are supplied calibrated as standard using a steel ball. E.g. HRB (S). The same scales can also be supplied using a carbide ball E.g. HRB (W) on request only. Block size 64mm diameter x 15mm thickness

All above blocks will be supplied within +/-4 Rockwell points of nominal value

Rockwell Testing Indenters

INDENTOR TYPE AND REFERENCE NUMBERS	UKAS Certified	No Certificate
ROCKWELL		
STANDARD TYPES: RI 001, RI 002, RI 003, RI 004, RI 005, RI 006, RI 007, RI 009, RI 012, RI 013, RI 014, RI 019, RI 020, RI 036.	£307.00	£270.00
NON-STANDARD: RI 034 RI 002 RI 003 RI 004	£390.00	£345.00
Repair of Rockwell Indenters (all types)	£256.00	£227.00
UKAS Certification of Rockwell Indenters all types (Pass or Fail)	£201.00	
All UKAS certified Rockwell Indenters will be supplied with a UKAS Certificate to BS EN ISO 6508-2 and ASTM E18		



INTRODUCING

Metprep WeldCheck Pro

Our integrated, focus-free, weld inspection system allows samples to be simply placed on the glass plate for instant imaging & inspection.


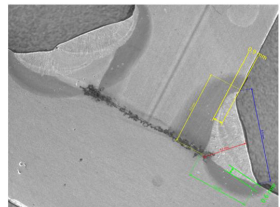
The unit incorporates oblique LED illumination for reflection-free imaging and a ZEISS high performance camera.

ZEISS's ZEN CORE software allows users to call up pre-defined measurement reporting platforms as well as generate new ones. Measurements can be setup with pass/fail criteria & results can be linked to a central database if required, allowing data to be accessible across site(s).

The unit can be free standing or integrated into the benchtop as illustrated.

Available for sample sizes & magnifications 26.5x20mm (5x), 20x15mm (6x), 8.4x6.3mm (15x) & 4.2x3.2 (30x) – others available on request.



Carl Zeiss Microscopy GmbH									
									
									
Test	A	Feature	B	Value	C	Unit	D	E	Tolerance
1	Lag 1	Distance	2.1	mm					OK
2	Lag 2	Distance	8	mm					NO
3	Toe	Distance	0.5	mm					NO
4	Root 1	Distance	0.5	mm					NO
5	Root 2	Distance	0.5	mm					NO
6	Throat	Distance	0.2	mm					NO

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Everything under one roof

Delivery - Consumables next day in most cases; certain machines from stock.

Service - Regular maintenance and tailored service solutions for all equipment.

Laboratory/Showroom - Fully equipped Laboratory, including the ZEISS Application Suite.

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Roadshows - Opportunities to experience our Quality products closer to home.



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