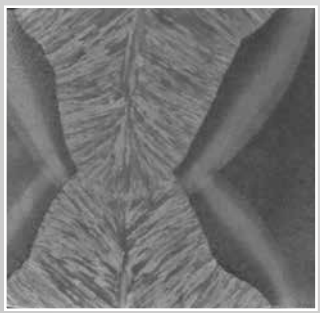
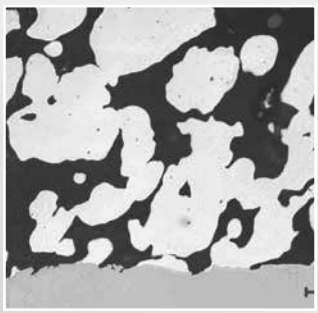
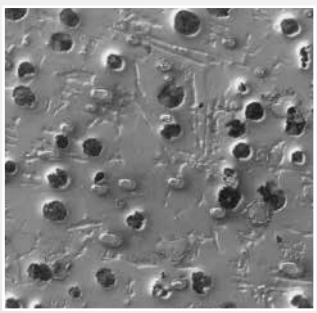
CONSUMABLES 2014



Always a step ahead.

TERMS OF SALE AND DELIVERY

Changes on technical equipment or equivalent consumables replacements are possible. Our equipment complies with current EU regulations and VDE.

ANNOTATION

Product information

Reference point for discount on indicated amount

New product in product range

UPDATING

Product changes and changing of price calculation are subject to change without notice.

TEL. +49(0)2681.9539.0

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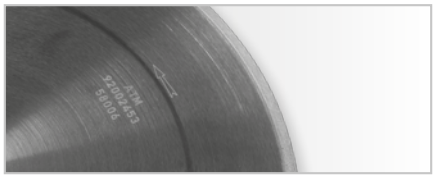
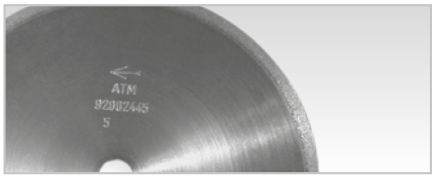
Corundum cut-off wheel


Diamond cut-off wheel


CBN cut-off wheels

CORUNDUM CUT-OFF WHEELS FOR PRECISION WET ABRASIVE CUT-OFF MACHINES

Ø/mm	THICK-NESS/ mm	ARBOUR SIZE /mm	ORDER NO.	€/UNIT 1 UNIT (5 PCS.)	€/UNIT DISCOUNT ≥ 4 U. (20 PCS.) 5%	CHARACTERISTICS/APPLICATION
100	0.25	12.7	92002643			**fine-grained** for universal application and high material hardness
100	0.4	12.7	92002645			**coarse-grained** for universal application of lower material hardness and mounted samples
125	0.45	12.7	92002644			
125	0.8	12.7	92002646			
150	0.45	12.7	92002769			
150	0.6	12.7	92002770			
203	0.8	12.7	92002647			
150	1	12.7	92004159			
150	1	20	92004998			
200	1.5	20	92006583			

DIAMOND CUT-OFF WHEELS FOR PRECISION WET ABRASIVE CUT-OFF MACHINES

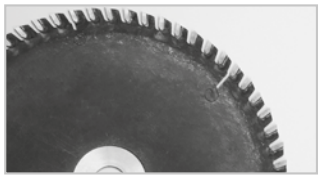
NAME Ø/mm	THICK-NESS /mm	ARBOUR SIZE /mm	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 5 PCS. 5%	APPLICATION
A 76	0.28	12.7	92002397			for universal application
B 76	0.28	12.7	92002398			glass, ceramics, rocks
D 76	0.28	12.7	92002400			hard metal
A 102	0.3	12.7	92002401			for universal application
B 102	0.3	12.7	92002402			glass, ceramics, rocks
D 102	0.3	12.7	92002404			hard metal
A 127	0.48	12.7	92002405			for universal application
B 127	0.48	12.7	92002406			glass, ceramics, rocks
D 127	0.48	12.7	92002408			hard metal
A 152	0.5	12.7	92002409			for universal application
B 152	0.5	12.7	92002410			glass, ceramics, rocks
D 152	0.5	12.7	92002412			hard metal

» C 76/102/127/152 (application: plastic, rubber) on request

SAW-BLADE CUT-OFF WHEEL FOR PRECISION WET ABRASIVE CUT-OFF MACHINES

Ø/mm	THICK-NESS /mm	ARBOUR SIZE /mm	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 5 PCS. 5%	APPLICATION
150	1.4	30	95009083			plastic materials

» incl. distance ring


Saw blade cut-off wheel

CORUNDUM CUT-OFF WHEELS FOR PRECISION WET ABRASIVE CUT-OFF MACHINES

Ø/mm	THICK-NESS/ mm	ARBOUR SIZE /mm	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 5 PCS. 5%	APPLICATION
76	0.9	12.7	92002442			composite and tough materials
102	0.5	12.7	92002443			
127	0.5	12.7	92002444			
153	0.65	12.7	92002445			
178	0.9	12.7	92002446			
200	0.5	12.7	92006419			

» other diameters on request

CORUNDUM CUT-OFF WHEELS FOR WET ABRASIVE CUT-OFF MACHINES

NAME Ø/mm	THICK-NESS /mm	ARBOUR SIZE /mm	BOND	ORDER NO.	€/UNIT 1 U. (10 PIECES)	€/UNIT DISCOUNT ≥ 5 U. (50 PCS.) 5%	APPLICATION
A 229	0.8	32	RUBBER	92002413			universal wheel, as well for nickel based alloys
B 229	1.6	32		92002414			high-speed steels, heat-treated steels, non-corrosive steels
C 235	1.5	32	RESIN	92001550			general materials, high to very high hardness
D 235	1.5	32		92001551			universal for medium hard materials, case hardened steels
E 235	1.5	32		92001552			soft steels, non-ferrous-materials, plastics-dodgy
F 230	1.5	32		92002417			Titanium and titanium alloys
H 225	1.5	32		92004464			case hardened and medium-hard materials
A 254	1	32	RUBBER	92002599			universal wheel, as well for nickel based alloys
B 254	1.6	32		92002600			high-speed steels, heat-treated steels, non-corrosive steels
C 250	1.5	32	RESIN	92001554			general materials, high to very high hardness
D 250	1.5	32		92001555			universal for medium hard materials, case hardened steels
E 250	1.5	32		92001556			soft steels, non-ferrous-materials, plastics-dodgy
F 250	1.5	32		92002425			Titanium and titanium alloys
H 250	1.5	32		92004465			case hardened and medium-hard materials
I 250	1.6	32		92006066			construction steels, alloyed steels (hardened and unhardened), cast iron
A 305	1	32	RUBBER	92002441			universal wheel, as well for nickel based alloys
B 305	1.6	32		92002434			high-speed steels, heat-treated steels, non-corrosive steels
C 300	2	32	RESIN	92001558			general materials, high to very high hardness
D 300	2	32		92001559			universal for medium hard materials, case hardened steels
E 300	2	32		92001560			soft steels, non-ferrous-materials, plastics-dodgy
F 300	2	32		92002426			Titanium and titanium alloys
H 300	2	32		92004431			case hardened and medium-hard materials
I 300	2	32		92005863			construction steels, alloyed steels (hardened and unhardened), cast iron
A 356	1.6	32	RUBBER	92002436			universal wheel, as well for nickel based alloys
B 356	2.4	32		92002437			high-speed steels, heat-treated steels, non-corrosive steels
C 350	2	32	RESIN	92001669			general materials, high to very high hardness
D 350	2	32		92001670			universal for medium hard materials, case hardened steels
E 350	2	32		92001671			soft steels, non-ferrous-materials, plastics-dodgy
F 350	2.5	32		92002427			Titanium and titanium alloys
H 350	2	32		92004467			case hardened and medium-hard materials
I 350	2.5	32		92005862			construction steel, alloyed steels (hardened and unhardened), cast iron

» for cut-off wheels with bigger diameter see next page

CORUNDUM CUT-OFF WHEELS FOR WET ABRASIVE CUT-OFF MACHINES

NAME. Ø/mm	THICK-NESS /mm	ARBOUR SIZE /mm	BOND	ORDER NO.	€/UNIT 1 U. (10 PCS.)	€/UNIT DISCOUNT ≥ 5 U. (50 PCS.) 5%	APPLICATION
A 406	1.6	32	RUBBER	92002439			universal wheel, as well for nickel based alloys
B 406	2.4	32		92002440			high-speed, heat-treated, non-corrosive steels
C 400	3	32	RESIN	92001783			general materials, high to very high hardness
D 400	3	32		92001784			universal for medium hard materials, case hardened steels
E 400	3	32		92001785			soft steels, non-ferrous-materials, plastics-dodgy
F 400	3	32		92002428			Titanium and titanium alloys
H 400	3	32		92004432			case hardened and medium-hard materials
I 400	3	32		92008504			construction steels, alloyed steels (hardened and unhardened), cast iron
A 500	2.4	32	RUBBER	92008537			universal wheel, as well for nickel based alloys
B 500	3	32		92008874			high-speed, heat-treated, non-corrosive steels
C 500	4	32	RESIN	92005525			general materials, high to very high hardness
D 500	4	32		92005526			universal for medium hard materials, case hardened steels
H 500	3.5	32		92008665			case hardened and medium-hard materials
I 500	3	32		95000292			construction steels, alloyed steels (hardened and unhardened), cast iron
A 600	4.3	40	RUBBER	92004007			universal wheel, as well for nickel based alloys
C 600	4.5	32	RESIN	95002342			general materials, high to very high hardness

» other cut-off wheels with diameter 600 and 800 mm on request

DIAMOND CUT-OFF WHEELS FOR WET ABRASIVE MACHINES

Ø/mm	THICK-NESS / mm	ARBOUR SIZE /mm	BOND	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 2 PCS. 5%	APPLICATION
230	1.2	32	METAL	92002450			ceramic materials
250	1.2	32	RESIN	92002451			hard metals, generally f.materials w. high hardness
250	1.2	32	METAL	92002452			ceramic materials
300	1.6	32	METAL	92002453			ceramic materials
300	1.6	32	RESIN	92002454			hard metals, generally f. materials w. high hardness
300	1.4	32	METAL	92004719			composite materials (hard/soft combinations)

» other diameters on request

CBN CUT-OFF WHEELS FOR WET ABRASIVE MACHINES

Ø/mm	THICK-NESS /mm	ARBOUR SIZE/ mm	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 5 PCS. 5%	CHARACTERISTICS/APPLICATION
250	1.3	32	92002456			hard metal
300	1.6	32	92002457			

» other diameters on request

Pot wheel at Brillant 265

DIAMOND POT WHEEL

Ø/mm	THICK-NESS/ mm	POT HIGHT/ mm	ARBOUR SIZE /mm	BOND	ORDER NO.	€/PIECE	CHARACTERISTICS/APPLICATION
100	8	35	12.7	GALVANIC	92008573		for glass fiber-reinforced boards
150	8	35	12.7		92006607		

COOLANTS

NAME	ORDER NO.	€/L			CHARACTERISTICS/APPLICATION
		1 L	DISCOUNT 3% ≥ 5 L (1 UNIT)	DISCOUNT 5% ≥ 10 L (1 UNIT)	
anti-corrosion coolant	92001680				for wet abrasive machines, concentrate (ratio 1:35) » steel, cast iron, non-ferrous metal
anti-corrosion coolant boron-free	92001681				for wet abrasive machines, concentrate (concentration 3-5%) » steel, cast iron, non-ferrous metal

NAME	ORDER NO.	€/KG		CHARACTERISTICS/APPLICATION
		1 KG	DISCOUNT 3% ≥ 5 KG (1 UNIT)	
anti-corrosion coolant nitrite- and oil-free	95007864			for wet abrasive machines, concentrate (concentration 1.5-3%) » plastic, GPR, CFK NEW

ADDITIVE FOR COOLANTS

NAME		ORDER NO.	€/L	CHARACTERISTICS/APPLICATION
inhibitor A3	1 L	92006504		additive for hard metals, c-steels, copper alloys » prevents dilution of cobalt or chrome NEW
Ferosept JC	1 L	92008684		fungicide for cooling lubricants » prevents contamination by fungus and yeast fungus
Ferosept 777	1 L	95006593		bactericide for cooling lubricants » prevents contamination by a wide range of bacteria NEW
defoaming agent	200 ml	92006503		skimming fluid
	1 L	92006503		

ACCESSORIES FOR MAINTENANCE AND CARE OF COOLANTS

NAME	UNIT	ORDER NO.	1 UNIT	CHARACTERISTICS/APPLICATION
emulsion care case	1 piece	95007866		suitcase with test strips, tumbler for taking of samples and hand refractometer NEW
Feroclean CS 8	1 L	92006502		system cleaner (desinfectant for cleaning the recirculation cooling system before changing the coolant)

ACCESSORIES FOR CUTTING

NAME	UNIT	ORDER NO.	1 UNIT	CHARACTERISTICS/APPLICATION
corrosion protection and care spray KSP	400 ml	95001749		fully synthetical, silicone-free corrosion protection oil » for metal surfaces (e.g. clamping vices) NEW
de-mister gel	60 ml	92004304		prevents steaming up the viewing window by splash water
dressing stone	1 piece	92002460		for diamond cut-off wheels, CBN cut-off wheels and pot wheels

9.10 Dressing stone

FILTER FLEECE FOR BELT FILTER SYSTEMS

NAME	LENGTH/m	WIDTH/mm	FILTER	ORDER NO.	€/PIECE	APPLICATION
filter fleece fine	100	450	100 µm	92008745		for BFA 165
filter fleece coarse	100	450	150 µm	92008744		for BFA 325
filter fleece	100	710	150 µm	92008780		for BFA 285
filter fleece	100	420	150 µm	95001696		for BFA 100

» other sizes on request

FILTER FLEECE FOR RECIRCULATION COOLING SYSTEMS

NAME	LENGTH/m	WIDTH/mm	ORDER NO.	€/PIECE	APPLICATION
filter fleece	940	720	95007753		for Brillant 2000
	724	720	95007761		for Brillant 285

NEW

FILTER BAGS

NAME	SIZE/mm	MATERIAL	ORDER NO.	€/PIECE			APPLICATION
				1 PIECE	10 PCS. (5%)	50 PCS. (10%)	
filter bag	490x290x190 mm	filter cloth and fleece	92008739				for Brillant 255/265/270/275/280
	290x150x190 mm		92008741				for UKE 45 L*
	250x200x155 mm		95007759				for UKE 45 L**
	290x150x190 mm	fleece	92005993				for settling tank*
	250x200x155 mm		95007760				for settling tank**

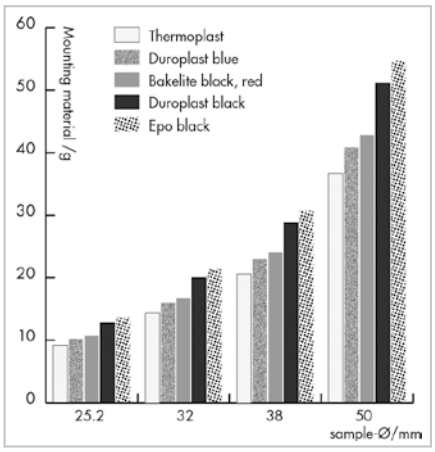
NEW

NEW

» * for machines year of manufacture up to end 2012
» ** for machines year of manufacture from 2013

HOT MOUNTING MATERIAL

Hot mounting material



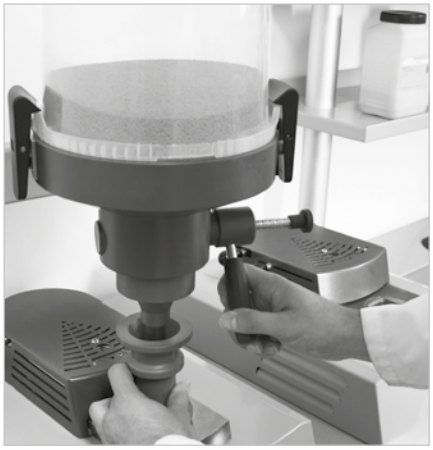
Amount of hot mounting material for samples height 20 mm

NAME	ORDER NO.	€/KG 1 KG	€/KG DISCOUNT 10% ≥ 5 KG	CHARACTERISTICS/APPLICATION
Bakelite black	92001431			phenolic resin for general purpose » medium hardness » contains wood powder » Tipp: well suited as filling material
Bakelite red	92001437			
Epo black	92001440			epoxy resin for uncracked mounts » very high hardness » contains a high proportion of glass and mineral filler
Duroplast blue	92001667			diallylphthalate for uncracked mounts » general purpose and especially for grinding stones » high hardness » contains glass fiber
Duroplast black	92001801			phenolic resin for SEM- or electrolytic examinations » medium hardness » conductive, contains graphite particles
Thermoplast	92001443			acrylic resin for transparent mounts » ideal for target preparations » medium hardness

Unit capacity (please name in your order)

NAME	UNIT 1 KG	UNIT 3 KG	UNIT 4 KG	UNIT 5 KG
Bakelite black	X	X	—	X
Bakelite	X	X	—	X
Epo black	X	—	—	X
Duroplast blue	X	—	X	—
Duroplast black	X	—	—	X
Thermoplast	X	X	—	X

» grey marked units are compatible with dosing system



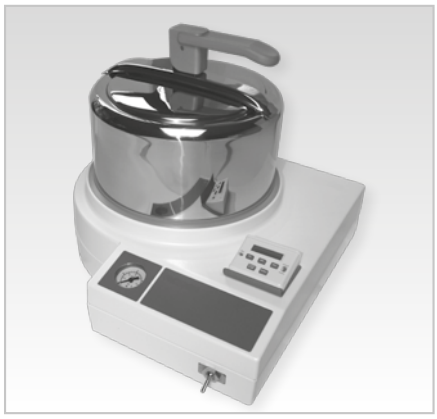
Dosing system

COLD MOUNTING MATERIAL METHACRYLATE

NAME/AMOUNTS		ORDER NO.	€/PIECE	CHARACTERISTIS/APPLICATIONS
Technovit 4000 set				3-components-system » powder + sirup 1 + sirup 2 (3:2:1 [weight-%]) » opaque, white » ◷ approx. 12 min
750 g / 500 ml / 250 ml		92001683		
1.5 kg / 1L / 500 ml		92001684		
Technovit 4004				2-components-system » powder + liquid (2:1 [Gew.-%]) » transparent (bubble-free in pressure appliance) » ◷ approx. 12 min
powder	1 kg	92001688		
	2 kg	92001689		
liquid	500 ml	92001691		
	1 L	92001692		
Technovit 4071				2-components-system » powder + liquid (2:1 [weight-%]) » green-transparent » ◷ approx. 5 min
powder	1 kg	92001695		
	2 kg	92001696		
liquid	500 ml	92001698		
	1 L	92001699		

◷ hardening time

PRESSURE APPLIANCE



NAME	ORDER NO.	€/1 PIECE	CHARACTERISTIS/APPLICATIONS
pressure appliance BxWxH 340x340x255 mm	92002281		pressure appliance for bubble free hardening of methacrylates » e.g. Technovit 4004, KEM 20 » compressed air required

COLD MOUNTING MATERIAL METHYLMETHACRYLATE

NAME	UNIT	ORDER NO.	€/PIECE	CHARACTERISTICS/APPLICATION
KEM 15				2-components-system » powder + liquid (2:1 [weight-%]) » blue, opaque, no gaps » ◷ approx. 12 min
powder	1 kg	92002811		
	5 kg	92004210		
	10 kg	92004212		
liquid	500 ml	92002812		
	1 L	92004211		
	2.5 L	92004213		
KEM 20				2-components-system » powder + liquid (2:1 [weight-%]) » transparent (pressure appliance) » ◷ approx. 12 min
powder	1 kg	92002467		
	5 kg	92002469		
	10 kg	92002468		
liquid	500 ml	92002470		
	1 L	92002471		
	2.5 L	92002472		
KEM 30				2-components-system » powder + liquid(2:1 [weight-%]) » green, transparent » ◷ approx.5 min
powder	1 kg	92004080		
	5 kg	92004082		
liquid	500 ml	92004081		
	1 L	92004083		
	2.5 L	92002540		
KEM 35				2-components-system » Pulver + Flüssigkeit (2:1 [weight-%]) » light green, opaque, low in gaps » ◷ approx. 12 min
powder	1 kg	92002473		
	5 kg	92002474		
	10 kg	92002512		
liquid	500 ml	92002475		
	1 L	92002476		
	2.5 L	92002477		

◷ hardening time

COLD MOUNTING MATERIAL EPOXY RESIN

NAME	UNIT	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 5 PCS. (5%)	CHARACTERISTICS/APPLICATION
KEM 90					» 2-components-system » resin + hardener (2:1 [weight-%]) » clear, transparent, suitable for vacuum infiltration e.g. porous materials » ◷ approx. 16 - 24 h
resin	500 ml	92002484			
hardener	250 ml	92002485			

◷ hardening time

INFILTRATION SET

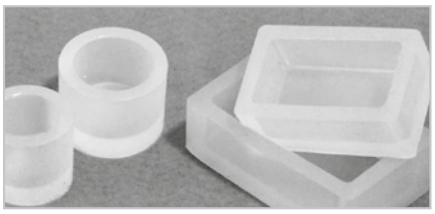
NAME	ORDER NO.	€/PIECE	CHARACTERISTICS/APPLICATION
infiltration set	Z6510000		desiccator incl. non-return valve, vacuum pump, hose and pressure gauge » for cold mounting in vaccuum

INFILTRATION UNIT

NAME/SPECIFICATIONS		ORDER NO.	€/PIECE	CHARACTERISTICS/APPLICATION
infiltration unit		M6500001		» consists of desiccator with mechanic dosing and vacuum pump » rotating disc for 8 silicone mounting cups Ø 50 mm or 9 PTFE-mounting cups Ø 40 mm » incl. 10 mixing cups » incl. vacuum pump » for cold mounting in vacuum
vacuum pressure	0.8 bar			
power supply	230 V/50Hz (1/N/PE)			
power	60 W			
approx. WxHxD	330x270x300 mm			

» 110V/60 Hz on request

COLD MOUNTING MOULDS



Silicone rubber moulds

NAME/DIMENSIONS	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 5 PCS. (5%)	CHARACTERISTICS/APPLICATION
Silicone rubber round				» reuseable » not suitable for ultraviolet hardening
Ø 25 / H 23 mm	92002511			
Ø 30 / H 25 mm	92002504			
Ø 32 / H 25 mm	92002505			
Ø 38 / H 25 mm	92002506			
Ø 40 / H 30 mm	92005567			
Ø 50 / H 30 mm	92005568			
Silicone rubber square				
55 x 30 / H 22 mm	92002509			
70 x 40 / H 22 mm	92002510			

Polypropylen round				» reuseable » with exchangeable bottom
Ø 25 / H 27 mm	92001719			
Ø 30 / H 27 mm	92001710			
Ø 40 / H 27 mm	92001711			

» other dimensionss on request

PTFE moulds

NAME/DIMENSIONS	ORDER NO.	€/PIECE	CHARACTERISTICS/APPLICATION
PTFE round			» reuseable » not suitable for ultraviolet hardening and epoxy resin » with exchangeable bottom
Ø 25 / H 23 mm	92002513		
Ø 30 / H 25 mm	92002514		
Ø 32 / H 25 mm	92002515		
Ø 38 / H 25 mm	92002516		
Ø 40 / H 30 mm	92002517		
Ø 50 / H 30 mm	92002518		
Ø 70 / H 30 mm	92002519		
PTFE square			
65 x 35 / H 30 mm	92002520		
85 x 45 / H 30 mm	92002521		

» other dimensions on request

ACCESSORIES FOR MOUNTING

Brass brush

Reusable mixing cup

Funnel and dosing spoon

Steel and plastic clips

ACCESSORIES FOR HOT MOUNTING

NAME	UNIT	ORDER NO.	€/UNIT	APPLICATION
silicone paste	100 g	92002660		anti-stick agent
silicone spray	200 ml	92002661		anti-stick agent
brass brush	1 piece	92004441		for cleaning of hot mounting press

ACCESSORIES FOR COLD MOUNTING

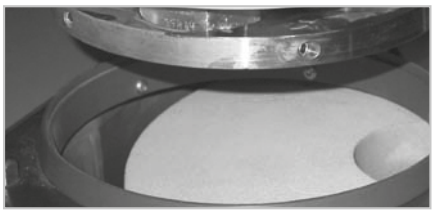
NAME	UNIT	ORDER NO.	€/UNIT
disposable mixing cups	10 pcs.	92001715	
silicone mixing cup, reusable	1 piece	92004360	
wooden mixing stick	100 pcs.	92001717	

plastic mounting aid Ø 30 mm			
gap 1 mm	100 pcs.	92002623	
gap 2 mm	100 pcs.	92002625	
gap 3 mm	100 pcs.	92002624	

ACCESSORIES FOR HOT AND COLD MOUNTING

NAME	UNIT	ORDER NO.	€/UNIT	CHARACTERISTICS/APPLICATION
funnel	1 pcs.	92002658		for hot mounting material
square bottle with screw-top	appr. 1 L	92002715		for mounting material
sample protection laquer	300 ml	92004428		spray
angle piece	100 pcs.	92002657		for angled polish
dosing spoon	10 pcs.	92001716		for dosing hot and cold mounting material
stainless steel clip	100 pcs.	92002662		for aligning thin samples in mould
plastic clip	100 pcs.	92002663		for aligning thin samples in mould

FACE GRINDING STONES FOR SAPHIR 375



Face grinding stone for system grinder

NAME	THICKNESS /mm	ARBOUR SIZE /mm	GRAIN FEPA-STANDARD	Ø/mm	INSIDE Ø/mm	ORDER NO.	€/PIECE	APPLICATION
SIC grinding stone	30 mm	40 mm	80	350	90	95002223		for sintered materials (low and unalloyed), aluminium, chilled cast iron, copper
white corundum grinding stone	30 mm	40 mm	100	350	90	95000180		for tool steel (hardened and not hardened), stainless steel, steel and malleable cast iron
			150	350	90	95000210		
			180	350	90	95002034		

» inner diameter 120 mm on request

NAME	ORDER NO.	€/PIECE	APPLICATION
multi point dressing diamond	92008759		for dressing face grinding stones

DIAMOND GRINDING FOILS, METAL BOUND

Ø/MM	GRAIN SIZE /µm	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 3 PCS. (5%)	CHARACTERISTICS/APPLICATION
200	20	92002289			
	40	92002292			
	74	92002293			
	125	92002294			
250	20	92002301			
	40	92002299			
	74	92002298			
	125	92002297			
	250	92002296			
300	20	92002308			
	40	92002306			
	74	92002305			
	125	92002304			
	250	92002303			

» self-adhesive
» for plain and fine grinding of samples with high hardness
» very long lasting

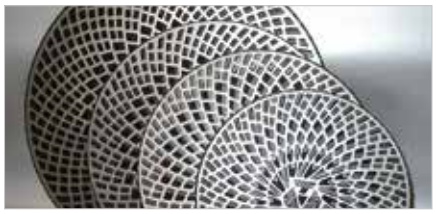
» delivery period on request

ZIRCONIA ALUMINIUM OXIDE GRINDING PAPERS

Ø/mm	GRAIN FEPA-STANDARD	ORDER NO.	€/UNIT 1 UNIT (25 PCS.)	€/UNIT DISCOUNT ≥ 4 U. (100 PCS.) (10%)	CHARACTERISTICS/APPLICATION
200	60	92002374			
	120	92002375			
	180	92002376			
250	60	92002382			
	120	92002383			
	180	92002384			
300	60	92002386			
	120	92002387			
	180	92002388			

» self-adhesive
» for plain grinding of samples with large cross section area
» powerful removal function
» long lasting

GALAXY GRINDING DISCS



Galaxy grinding discs

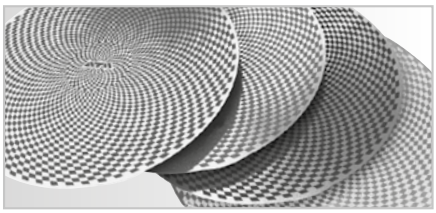
cleaning with cleaning brush

Ø/mm	NAME	FIXATION	ORDER NO.	€/PIECE	CHARACTERISTICS/APPLICATION
250	Galaxy 30	ADHESIVE CARRIER	92008538		The helical pattern and the metal base create an exceptional plane surfale also on materials with different hardness. A special coating guarantees a constant cutting quality, high removal performance and a long life. Compared to customary systems, the grinding time can be considerably reduced. Use the Galaxy 120 to pre-grind and take away a large quantity of debris in a short time. For normal grinding, the removal achieved with the Galaxy 30 is sufficent. Including dressing stone and cleaning brush.
		MAGNETIC	92008542		
	Galaxy 120	ADHESIVE CARRIER	92008539		
		MAGNETIC	92008543		
300	Galaxy 30	ADHESIVE CARRIER	92008540		
		MAGNETIC	92008544		
	Galaxy120	ADHESIVE CARRIER	92008541		
		MAGNETIC	92008545		

GRINDING AND POLISHING CHART FOR GALAXY GRINDING DISCS

BASE	GALAXY 120	GALAXY 30	POLISHING CLOTH ALPHA	POLISHING CLOTH GAMMA	POLISHING CLOTH ZETA	POLISHING CLOTH OMEGA	CHARACTERISTICS/APPLICATION
addition	water	water	diamond susp. 9 µm	diamond susp. 3 µm	diamond susp. 1 µm	Eposal	
cast iron (GGG)							
time	–	1 min	5 min	–	–	1.5 min	
pressure	–	75 N	175 N	–	–	125 N	All specifications refer to following adjustments: speed working wheel: 150 rpm speed polishing head: 125 rpm synchronized operation/ central pressure
carbon steel e.g. C60							
time	–	1 min	5 min	–	–	1.5 min	
pressure	–	125 N	175 N	–	–	125 N	
hard metal							
time	–	1 min	5 min	5 min	–	–	
pressure	–	150 N	175 N	125 N	–	–	
ceramics							
time	–	2 min	5 min	5 min	3 min	–	
pressure	–	150 N	175 N	125 N	125 N	–	
tool steel HSS							
time	1 min	1 min	5 min	–	–	1.5 min	
pressure	150 N	150 N	175 N	–	–	125 N	

GALAXY GRINDING AND POLISHING DISCS



Grinding

The ATM Galaxy-System consists of six different grinding discs.
Every single grinding step is harmonized.
The Galaxy-System is suitable from pre-grinding to polishing of different materials.
Appropriate for manual, semi-automatic and automatic preparation, or for use with the ATM Systemautomat.

Ø/mm	NAME	FIXATION	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT 6% ≥ 3 PCS.	€/PIECE DISCOUNT 12% ≥ 5 PCS.	CHARACTERISTICS/APPLICATION
200	**Galaxy Red**	ADHESIVE CARRIER MAGNET	95005521				» considerably reduced grinding time compared to conventional grinding systems » coarse pre-grinding: red » plane grinding: green/blue » fine-grinding: yellow
	Galaxy Green		95005522				
	Galaxy Blue		95005523				
	Galaxy Yellow		95005524				
250	**Galaxy Red**	ADHESIVE CARRIER MAGNET	95004310				
	Galaxy Green		95004311				
	Galaxy Blue		95004312				
	Galaxy Yellow		95004313				
300	**Galaxy Red**	ADHESIVE CARRIER MAGNET	95004314				
	Galaxy Green		95004315				
	Galaxy Blue		95004316				
	Galaxy Yellow		95004317				

APPLICATIONS FOR GALAXY GRINDING DISCS

µm	125		46			26				15
FEPA	80	120	180	240	320	400	500	600	800	1000
Galaxy	**RED**		**GREEN**			**BLUE**			**YELLOW**	
	120		30							
Ra* µm	1		0.3			0.07			0.05	

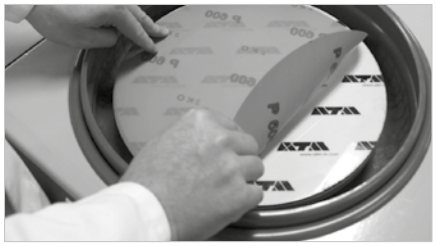
* approx. achieveable surface roughness by using water

SILICONE CARBIDE GRINDING FOILS

Ø/mm	GRAIN FEPA-STANDARD	ORDER NO.	€/UNIT (100 PCS.)	CHARACTERISTICS
200	120	92008594		
	320	92008592		
	600	92008591		
	1200	92008596		
250	120	92008557		» very plane grinding » optimaly suitable for adhesive carrier system » multiple use » easy handling without clamping ring
	240	95000899		
	320	92006305		
	600	92006304		
	800	95000900		
	1200	92008559		
300	120	92008561		
	240	95000902		
	320	92006303		
	600	92006302		
	800	95000903		
	1200	92008562		

» other dimension (e.g. Ø 230 mm) and grain on request

ADHESIVE CARRIER, DOUBLE-SIDED



Ø/mm	ORDER NO.	€/1 PIECE	CHARACTERISTICS
200	95003781		» adhesive on both sides, reusable » suitable for all fixing systems (standard, magnetic) » no glue residues
250	95003607		
300	95003608		

NEW

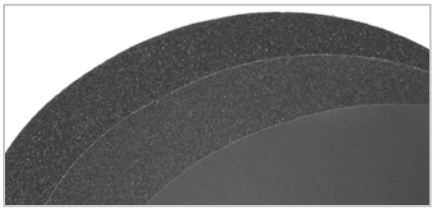
» before initial use please remove protective foil on both sides

CORUNDUM GRINDING FOIL BLUE

Ø/mm	GRAIN FEPA-STANDARD	ORDER NO.	€/1 UNIT (100 PCS.)	CHARACTERISTICS/APPLICATION
250	800	95002903		
	2500	95003680		
300	120	92008672		» suitable for system automat » very high durability » especially suited for aluminium preparation
	240	92008673		
	400	92008674		
	600	92008675		
	800	95003258		
	1200	92008676		
	2500	95003259		

» delivery period on request
» other grain for Ø 250 mm on request

SILICONE CARBIDE WET GRINDING PAPERS



plain back

Ø/MM	GRAIN FEPA-STANDARD	ORDER NO.	€/UNIT		
			1 UNIT (100 PCS.)	DISCOUNT ≥ 5 UNITS (500 PCS.) 5%	DISCOUNT ≥ 10 UNITS (1000 PCS.) 10%
200	60	92001810			
	80	92001811			
	120	92001812			
	180	92001813			
	240	92001814			
	320	92001815			
	400	92001816			
	500	92001817			
	600	92001818			
	800	92001819			
	1000	92001820			
	1200	92001821			
	2400	92002634			
	2500	92004557			
	4000	92002640			

» without adhesive back
» self-adhesive grinding papers on request (minimum order 500 pieces)
» bigger diameter see next page

SILICONE CARBIDE WET GRINDING PAPERS

Ø/MM	GRAIN FEPA-STANDARD	ORDER NO.	€/UNIT		
			1 UNIT (100 PCS.)	DISCOUNT ≥ 5 UNITS (500 PCS.) 5%	DISCOUNT ≥ 10 UNITS (1000 PCS.) 10%
250	60	92001580			
	80	92001581			
	120	92001582			
	180	92001583			
	240	92002369			
	320	92001585			
	400	92001586			
	500	92001587			
	600	92001588			
	800	92001589			
	1000	92001590			
	1200	92001591			
	2400	92002636			
	2500	92004559			
	4000	92001592			
300	60	92001593			
	80	92001594			
	120	92001595			
	180	92001596			
	240	92001597			
	320	92001598			
	400	92001599			
	500	92001600			
	600	92001601			
	800	92001602			
	1000	92001603			
	1200	92001604			
	2400	92002637			
	2500	92004560			
	4000	92002154			

» without adhesive back
» self-adhesive grinding papers on request (minimum order 500 pieces)
» Ø 230 mm on request

DOUBLE-SIDE ADHESIVE FOILS

Ø/mm	ORDER NO.	€/UNIT		APPLICATION
		1 UNIT (5 PCS.)	DISCOUNT ≥ 4 UNITS (20 PCS) 5%	
200	92002522			for grinding papers
250	92002524			
300	92002525			

WET GRINDING PAPERS FOR SAPHIR 300 (MOBILE GRINDER AND POLISHER)

NAME Ø/mm	GRAIN FEPA-STANDARD	ORDER NO.	€/UNIT			CHARACTERISTICS
			1 UNIT (100 PCS.)	DISCOUNT 5% ≥ 5 UNITS (500 PCS.)	DISCOUNT 10% ≥ 10 UNITS (1000 PCS.)	
corundum 30	60	92004285				with velcro fastening back
	180	92004286				
	240	92004288				
	320	92004287				
silicone carbide 30	400	92004498				with adhesive back
	600	92004499				
	1000	92004631				

» all polishing cloths also available with Ø 30 mm

GRINDING BELTS

Grinding belts

NAME	DIMENSIONS /mm	GRAIN FEPA-STANDARD	ORDER NO.	€/UNIT		CHARACTERISTICS
				1 UNIT (10 PCS.)	DISCOUNT ≥ 2 UNITS (20 PCS.) 5%	
corundum	100 x 920	80	92002528			water resistant
		120	92002529			
		180	92002530			
		240	92002531			
		320	92004505			
	100 x 915	80	92002953			
		120	92002954			
silicone carbide	100 x 915	80	92002664			water resistant
		120	92002665			
		180	92002666			
		240	92002667			
		320	92004613			
		400	92002394			
	120 x 915	80	92002668			
		120	92002669			

DIAMOND SUSPENSION MONOCRYSTALINE

COLOUR CODE

Blue	1 µm
Green	3 µm
Yellow	6 µm
Red	9 µm

WATER FREE PREPARATION

Diamond suspensions mono- and polycrystaline alcohol or oil based on request.

UNIT	GRAIN SIZE /µm	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 3 PCS. (5%)	CHARACTERISTICS
250 ml	1	92002346			water based (non polluting) » closely tolerated grain size » high diamond concentration » high removal rate
	3	92002347			
	6	92002348			
	9	92002349			
400 ml	1	92001725			
	3	92001727			
	6	92001728			
	9	92001733			
1000 ml	1	92004791			
	3	92004792			
	6	92004793			
	9	92004794			
2500 ml	1	95002755			
	3	95002756			
	6	95002757			
	9	95002758			

» other grain size on request

DIAMOND SUSPENSION POLYCRYSTALINE

UNIT	GRAIN SIZE /µm	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 3 PCS. (5%)	CHARACTERISTICS
250 ml	1	92002353			water based (non polluting) » closely tolerated grain size » high diamond concentration » high removal rate
	3	92002354			
	6	92002355			
	9	92002356			
400 ml	1	92002592			
	3	92002593			
	6	92002594			
	9	92002595			
1000 ml	1	92004798			
	3	92004799			
	6	92004800			
	9	92004801			
2500 ml	1	95002761			
	3	95002762			
	6	95002763			
	9	95002764			

» other grain size on request

DIAMOND LUBRICANT

NAME	ORDER NO.	UNIT	€/L	CHARACTERISTICS
diamond lubricant	92005509	1 L bottle		water based (non polluting)
		5 L can (3%)		

WATER FREE PREPARATION
Diamond lubricant alcohol or oil based on request.

DIAMOND SPRAY

NAME/UNIT	GRAIN SIZE /µm	ORDER NO.	€/PIECE 1 PIECE	CHARACTERISTICS
diamond spray polycrystaline 150 ml	1	95005380		» CFC free » very high diamond concentration » closely tolerated grain size » high removal rate
	3	95005381		
	6	95005382		
	9	95005383		

DIAMOND PASTE

NAME/UNIT	GRAIN SIZE /µm	ORDER NO.	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 3 PCS. (5%)	CHARACTERISTICS
diamond paste monocrystaline 10 g syringe	1	92002333			» very high diamond concentration » closely tolerated grain size » high removal rate
	3	92002316			
	6	92002335			
	9	92002336			
diamond paste polycrystaline 10 g syringe	1	92002340			
	3	92002341			
	6	92002342			
	9	92002343			

» 15 µm on request

ALUMINA

NAME	GRAIN SIZE /µm	ORDER NO.	UNIT	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 3 PCS. (5%)	CHARACTERISTICS
alumina 1	0.6	92002532	1 L			aquaeous concentrate, to dilute
alumina 2	0.3	92002533	1 L			
alumina 3	1	92004950	1 L			

FINE POLISHING SUSPENSION

NAME	GRAIN SIZE /µm	ORDER NO.	UNIT	€/PIECE 1 PIECE	€/PIECE DISCOUNT ≥ 3 PCS. (5%)	CHARACTERISTICS/APPLICATION
Eposal	0.06	92002534	1 L			fine polishing suspension (Al_2O_3) » does not crystalize out
Eposil F	0.1	92002536	1 L			colloidal silica » for polishing also mixable with diluted etchant
Eposil M	0.06	92002541	1 L			
Eposil M11	0.06	95001206	1 L			colloidal silica » for titanium, nickel, zinc and alloys
NEW **Etosil E**	0.06	95005033	1 L			» water free fine polishing suspension, for magnesium, tin

POLISHING CLOTHS

NAME.	Ø/mm	ORDER NO.	FIXATION	€/UNIT 1 UNIT (5 PCS.)	€/UNIT DISCOUNT ≥ 2 U. (10 PCS.) (5%)	CHARACTERISTICS	APPLICATION
A **Alpha**	200	92002555	SELF-ADHESIVE			very hard, perforated chemotextile cloth, » long lasting, high removal rate » ceramics, hard metal, steel, cast iron, aluminium, plastics-dodgy	
	250	92002564					
	300	92002573					
	200	95001469	MAGNETIC				25/15/9 µm
	250	95001470					
	300	95001471					
B **Beta**	200	92005678	SELF-ADHESIVE			hard chemotextile cloth » hard metal, minerals, ceramics, titanium, tantalum	
	250	92005679					
	300	92005680					
	200	92008798	MAGNETIC				15/9/6 µm
	250	92008799					
	300	92008800					
Γ **Gamma**	200	92002558	SELF-ADHESIVE			medium hard silk cloth » c-steels, non-ferrous metals, coatings, plastic (GPR, CFK)	
	250	92002567					9/6/3 µm
	300	92002576					
Σ **Sigma**	200	92008810	SELF-ADHESIVE			soft woolen cloth » for all materials	
	250	92008811					
	300	92008812					
	200	92008813	MAGNETIC				6/3/1 µm
	250	92008814					
	300	92008815					
Δ **Delta**	200	92008801	SELF-ADHESIVE			medium hard silk cloth » c-steels, precious metal, coatings, plastics, aluminium	
	250	92008802					
	300	92008803					
	200	92008804	MAGNETIC				9/6/3 µm
	250	92008805					
	300	92008806					
E **Epsilon**	200	92004411	SELF-ADHESIVE			short nap, medium hard synthetic cloth » for all medium and very hard materials	
	250	92004412					3/1 µm
	300	92004413					
I **Iota**	200	95002393	SELF-ADHESIVE			short nap, soft synthetic cloth » for all materials » particularly suitable for Ti, Ni-materials	
	250	95002394					
	300	95002395					
	200	95002396	MAGNETIC				3/1 µm
	250	95002397					
	300	95002398					

» all polishing cloths also available for Saphir 300 (Ø 30 mm)

» more cloths see next page

pre polishing final polishing diamond suspensions oxide suspensions

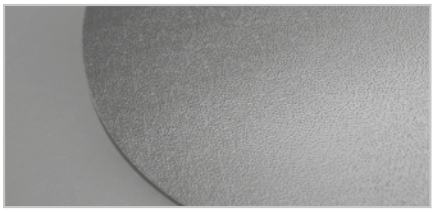
POLISHING CLOTHS

NAME.	Ø/mm	ORDER NO.	FIXATION	€/UNIT 1 UNIT (5 PCS.)	€/UNIT DISCOUNT ≥ 2 U. (10 PCS.) 5%	CHARACTERISTICS	APPLICATION
Z **Zeta**	200	92005681	SELF-ADHESIVE			short nap, soft synthetic cloth » for all materials	final polishing
	250	92005683					
	300	92005684					
	200	92008807	MAGNETIC				3/1 µm, alumina, oxide suspensions
	250	92008808					
	300	92008809					
K **Kappa**	200	92002563	SELF-ADHESIVE			soft felt cloth	final polishing
	250	92002572					
	300	92002581					alumina
Ω **Omega**	200	92002562	SELF-ADHESIVE			soft, porous synthetic cloth (chemical resistant) » for all materials	final polishing
	250	92002571					
	300	92002580					
	200	92008816	MAGNETIC				oxide suspensions
	250	92008817					
	300	92008818					

» all polishing cloths also available for Saphir 300 (Ø 30 mm)

final polishing · diamond suspensions · alumina · oxide suspensions

POLISHING CLOTH CARRIER DISCS



Ø/MM	ORDER NO.	€/PIECE	APPLICATION
200	05610121		for adhesive carrier
250	05610123		
300	05610124		

200	05610206		for magnetic system
250	05610208		
300	05610209		

» other diameter on request

MAGNETIC FOIL (SELF-ADHESIVE)

Ø/MM	ORDER NO.	€/PIECE
200	92008528	
250	92005820	
300	92005822	

» other diameter on request

ELECTROLYTES

NAME	UNIT	ORDER NO.	€/UNIT	CHARACTERISTICS/APPLICATION
K1	1 L	92002680		electrolyte for stainless steel, aluminium, aluminium alloys and special materials » for electrolytic etching/polishing – Kristall 620

» download of security advices at www.atm-m.com (> products > consumables)
» additional fees can be necessary by shipping of hazardous materials

ACCESSORIES FOR KRISTALL 650

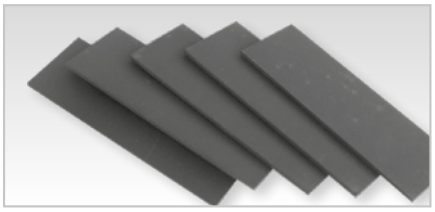
NAME	ORDER NO.	€/UNIT	APPLICATION
Bottle with screw top for electrolyte	95003955		1 liter
Accessories set for Kristall 650 in suitcase	Z6201001		content (sep. article number): » 5 x V-ring (Order No.: 95003606) » 1 x profile ring material, appr. 150 mm (Order No.: 06201052) » 1 x flexible end piece for profile ring (Order No.: 06201051) » 1 x tube cutter (Order No.: 95004030) » 10 x filter pads Ø 40,5 mm (Order No.: 95003985) » 1 x dolphin connector (Order No.: 82000374)

ETCHANTS

NAME	UNIT	ORDER NO.	€/UNIT	APPLICATION
Copper ammonium chloride according to Heyn	1 L	92002601		steel, phoshorous segregations, macro etching, copper alloys, brass
Etchant according to Adler	1 L	92002602		steel, welded connections, macro etching
Alcoholic picric acid, 5% Picral	1 L	92002603		steel, martensite
Alcoholic nitric acid, 3% Nital	1 L	92002597		unalloyed and low alloyed steels
Alcoholic nitric acid, 1% Nital	1 L	92002596		unalloyed and low alloyed steels
V2A-etchant (stainless steel)	1 L	92002605		austenitic steels
Etching fluid corrosive	250 ml	92002606		etching additive for V2A-etchant
Sodium hydroxide solution 7.5%	1 L	92002678		aluminium alloys
Etchant according to Oberhoffer	1 L	92004240		steel, macro/micro etching
Etchant according to Kroll	1 L	92004492		aluminium alloys
Etchant according to Fry	1 L	92004493		steel, macro/micro etching
Ferronitrate 10% aqueous	1 L	92004222		copper, copper alloys
Sodium picrate	1 L	92002750		cementite detection in steel
Etchant according to Kalling2	1 L	95002347		nickel, nickel alloys, stainless steels, nickel-copper alloys
Etchant according to Murakami	1 L	95002408		hard metals, molybdenum/chromium alloys, tungsten and tungsten alloys

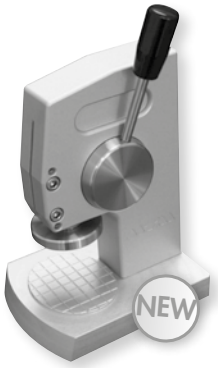
» download of security advices at www.atm-m.com (> products > consumables)
» shipment of dangerous goods conditionally

ACCESSORIES FOR MICROSCOPY



Microscope slides, metal

Microscope slides, glass



Specimen press

NAME	UNIT	ORDER NO.	€/UNIT
plasticine	1 kg	92004109	
microscope slides, metal 76 x 26 mm	5 pcs.	92002943	
microscope slides, glass 32 x 24 mm	100 pcs.	92004243	
microscope slides, glass 40 x 24 mm	100 pcs.	92004256	

NAME	ORDER NO.	€/UNIT
specimen press	M1321000	

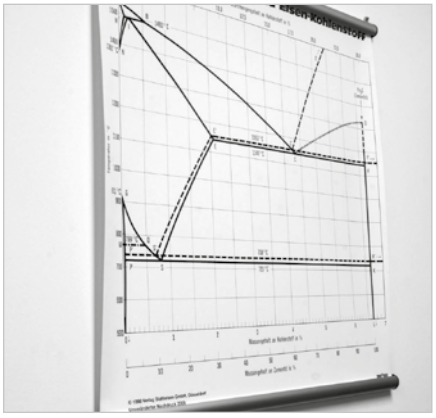
» for parallel fixation of specimen on microscope slide
» comfortable operation with minimal effort
» compact, robust and durable
» made of anodised, solid aluminium and stainless steel

LITERATURE

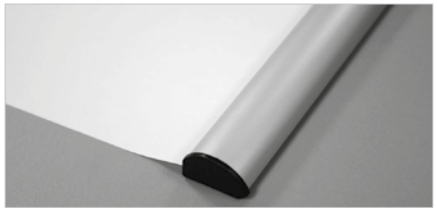
TITLE	AUTHOR	PUBLISHING HOUSE	ISBN
Metallographie	Hermann Schumann	Deutscher Verlag für Grundstoffindustrie Stuttgart	3-342-00431-2
Metallographisches , keramographisches und plastographisches Ätzen	Günter Petzow	Gebrüder Bornträger Stuttgart-Berlin	3-443-23014-8
Metallographische Anleitung zum Farbätzen nach dem Tauchverfahren	E. Weck, E. Leistner	Deutscher Verlag für Schweißtechnik, DVS	
Teil 1 Farbätzen nach Klemm			3-87155-146-5
Teil 2 Farbätzen nach Beraha			3-87155-092-2
Teil 3 Nichteisenmetalle, Hartmetalle und Eisenwerkstoffe, Nickelbasis-, Kobaltbasislegierungen			3-87155-094-9

» these books are available from ATM in german language; prices on request (controlled book price)

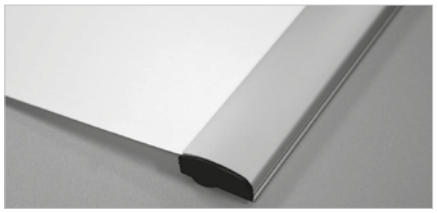
IRON-CARBON-DIAGRAM



Iron-carbon-diagram



Standard format



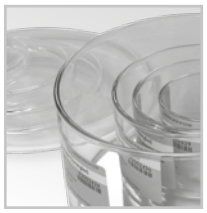
Heavy format

NAME	FORMAT/mm	ORDER NO.	€/PIECE
standard format	700 x 700	92008881	
heavy format	700 x 700	92008882	

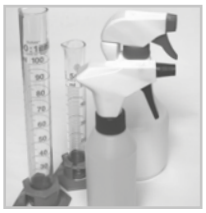
CLEANING AGENTS FOR ULTRASONIC CLEANER

ANME	UNIT	ORDER NO.	€/UNIT	CHARACTERISTICS/APPLICATION
Tickopur R 33	1 L	92002614		cleaning concentrate, alkaline » for general use to clean intensely » use 1 – 5%, pH 10 at 2%, removes oils, fats, silicone oil residues, pigments, ink and proteins
Tickopur RW 77	1 L	92002615		cleaning concentrate with ammonia, alkaline, phosphate free » use 5 – 10%, removes oils, fats, waxes, pigments, silicone fats and grime(aluminium parts have to be cleaned just a short time)

ACCESSORIES



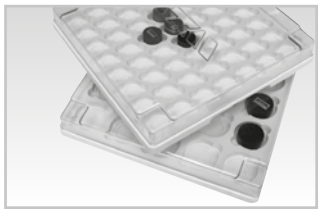
Etching cups



Measuring cup / plastic bottle

Sample dryer

Cabinet



Sample box

NAME	SPECIFICATIONS/mm	UNIT	ORDER NO.	€/UNIT	CHARACTERISTICS
Ethanol		1 L	95008043		denatured 96.5%
Aceton		1 L	92004510		chemically pure
glue Crystalbond		1 piece	92002779		
cotton wool		200 g	92002630		
sample cleaning cloths		100 pcs.	92008773		
etching cups	Ø 60/H 40	1 piece	92002629		made of Duran glass with cover, insensitive to heat
	Ø 80/H 50	1 piece	92002628		
	Ø 100 /H 60	1 piece	92002430		
	Ø 150 /H 80	1 piece	92002626		
plastic bottle		250 ml	95009484		with manual pump sprayer
		500 ml	92002432		
measuring cup with polypropylene base		50 ml	92004302		
		100 ml	92004303		
etching tong		1 piece	92002431		stainless
gloves	small	100 pcs.	92002622		made of vinyl
	medium	100 pcs.	92002621		
	large	100 pcs.	92002620		
sample dryer		1 piece	92001836		
wall dryer		1 piece	92004265		with proximity switch
cabinet	320x320 (inner dimension)	1 piece	92002898		with 6 drawers, for working wheels Ø 300 mm
	290x290 (inner dimension)	1 piece	92002717		with 5 drawers, for working wheels Ø 200 / 250 mm
desiccator	Ø 250	1 piece	92002684		with cover and basket
	Ø 150	1 piece	95002659		
KC drying pearls / silica gel		1 kg	92002868		for desiccator
sample box with cover	320x320x58 (outer dimension)	1 piece	A7500417		for 56 samples Ø 25-32 mm
			A7500418		for 25 samples Ø 38-50 mm

NEW

SAFETY EQUIPMENT FOR ETCHING

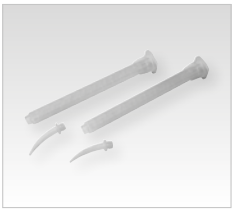
NAME	SPECIFICATIONS/mm	ORDER NO.	€/PIECE	CHARACTERISTICS
safety gloves, black accord. to EN 338, EN 374	M (7½)	95000562		very tough and robust against water soluble chemicals, high comfort and tactile sensation, length approx. 32 cm
	L (8½)	95003208		
	XL (9½)	95003209		
face protection shield accord. to EN 166 3-S		95002951		complete protection of face, unlimited field of view, acids and bases resistant, robust plastic material, shatterproof, scratch-resistant
lab protection apron	900 x 1100 x 0,5	95004848		made of PVC, with neck and side bonds, clean edges, without fabrics

PANE CLEANING SET FOR FUME CUPBOARD

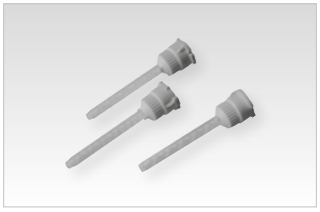
NAME	UNIT	ORDER NO.	€/UNIT	CHARACTERISTICS
pane cleaning set with suitcase	1 piece	Z7510002		» pane wiper magnet » 2x 30 pcs. cleaning cloths
pane wiper magnet	1 piece	95006797		
cleaning cloths	30 pcs.	95006798		

ADHESIVE SET

NAME	UNIT	ORDER NO.	€/UNIT
dosing gun	1 piece	92000643	
mixing tube	10 pcs.	92002273	
glue Automix 03	50 ml	92002674	



REPLICATION SET



NAME	UNIT	ORDER NO.	€/UNIT	CHARACTERISTICS/APPLICATION
2-components-compound Provil Novo Light CD2	2x 50 ml	92006498		replica system for non destructive analysing of microstructures » quick cured 2 components compound for applying to surfaces, » the cured replica can be removed easily and analysed directly
dosing gun	1 piece	92006609		
mixing tube	48 pcs.	92008692		
mixing tube top	96 pcs.	95001679		
2-components-compound Provil Novo putty regular	900 ml	95001664		precision replication material
2-components-compound Provil Novo putty soft	900 ml	95001665		
cleaning spray	400 ml	92004376		» for glue

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Errors and omissions expected.