

**Design**

Oil-soluble grinding paste in a robust, re-sealable plastic box.

**Applications**

For fine sanding, lapping and adjustment work on hardened steel, aluminium and plastic. Can be diluted or removed with oil, petroleum and petrol.



43141

Grain	Grain size approx. µm	Contents ml	Version	43141	...
90 = Very coarse	180-160	220	in tin		111
150 = Coarse	105-88	220	in tin		112
240 = Medium-fine	55-40	220	in tin		114
320 = Fine	39-21	220	in tin		115

Grain	Grain size approx. µm	Contents ml	Version	43141	...
400 = Finer	28-14	220	in tin		116
600 = Finest	15-8	220	in tin		117
800 = Very Finest	12-6	220	in tin		118
1200 = Micro-Fine	5-1	220	in tin		120

**ATORN®**

**Design**

- Shaft length 40 mm
- Special flap structure ensures perfect fit on the workpiece
- Flexible abrasive flaps and optimum ventilation prevent discolouration
- The primary application for ATORN grinding flaps is finishing steel and stainless steel as well as smoothing out welding seams

- The flexible flap structure and cool grinding prevent the tool from clogging up too quickly, making it ideal for working with wood and plastic

**Advantage**

- Perfect adaptation to contours due to flexible abrasive flaps
- Consistently high material removal over the entire service life

**Applications**

For machining small parts, tight curves, pipes, moulds, models, fittings as well as for smoothing,

deburring, machining surfaces and weld seams and for uniform finishing. For machining stainless steel, steel, wood, plastic and other materials.

**Quality**


Synthetic corundum (AO).


**NEW**



43110

Ø	Width	Max. permitted	Recommended	Shaft Ø		Grain 60		Grain 80		Grain 120		Grain 150		Grain 240	
						43110	...	43110	...	43110	...	43110	...	43110	...
10	10	76,300	38,000	3	10 pcs.		201		301		401		501		601
20	10	38,150	19,000	3	10 pcs.		202		302		402		502		602
20	15	25,400	19,000	3	10 pcs.		203		303		403		503		603
30	5	25,400	16,000	3	10 pcs.		204		304		404		504		604
30	10	25,400	16,000	3	10 pcs.		205		305		405		505		605

Ø	Width	Max. permitted	Recommended	Shaft Ø		Grain 40	Grain 60		Grain 80		Grain 120	
						43110	...	43110	...	43110	...	43110
mm	mm	rotation speed rpm	rotation speed rpm	mm								
20	10	38,150	19,000	6	10 pcs.		106		206		306	406
20	15	38,150	19,000	6	10 pcs.		107		207		307	407
30	5	25,400	16,000	6	10 pcs.		108		208		308	408
30	10	25,400	16,000	6	10 pcs.		109		209		309	409
30	15	25,400	16,000	6	10 pcs.		110		210		310	410
40	15	19,000	12,000	6	10 pcs.		111		211		311	411
40	20	19,000	12,000	6	10 pcs.		112		212		312	412
50	15	15,200	9,000	6	10 pcs.		113		213		313	413
50	20	15,200	9,000	6	10 pcs.		114		214		314	414
50	30	15,200	9,000	6	10 pcs.		115		215		315	415
60	20	12,700	8,000	6	10 pcs.		116		216		316	416
60	30	12,700	8,000	6	10 pcs.		117		217		317	417
60	40	12,700	8,000	6	10 pcs.		118		218		318	418
80	30	9,500	6,000	6	10 pcs.		119		219		319	419
80	50	9,500	6,000	6	10 pcs.		120		220		320	420

						Grain 150	Grain 240		Grain 320		
Ø	Width	Max. permitted	Recommended	Shaft Ø		43110	...	43110	...	43110	...
mm	mm	rotation speed rpm	rotation speed rpm	mm							
20	10	38,150	19,000	6	10 pcs.			506		606	706
20	15	38,150	19,000	6	10 pcs.			507		607	707
30	5	25,400	16,000	6	10 pcs.			508		608	708
30	10	25,400	16,000	6	10 pcs.			509		609	709
30	15	25,400	16,000	6	10 pcs.			510		610	710
40	15	19,000	12,000	6	10 pcs.			511		611	711
40	20	19,000	12,000	6	10 pcs.			512		612	712
50	15	15,200	9,000	6	10 pcs.			513		613	713
50	20	15,200	9,000	6	10 pcs.			514		614	714
50	30	15,200	9,000	6	10 pcs.			515		615	715
60	20	12,700	8,000	6	10 pcs.			516		616	716
60	30	12,700	8,000	6	10 pcs.			517		617	717
60	40	12,700	8,000	6	10 pcs.			518		618	718
80	30	9,500	6,000	6	10 pcs.			519		619	719
80	50	9,500	6,000	6	10 pcs.			520		620	720

## 43162 - 43168

## Grinding flaps, synthetic corundum (shaft Ø 6 mm)

AO



## Design

**DIN 69183** (except Ø 50 x 15 mm/60 x 40 mm/80 x 15 mm). Recommended peripheral speed: 15–20 m/s. The abrasive grain is embedded in the synthetic resin coating of the strong fabric segments. Highly flexible and concentric. High removal rate due to aggressive sanding belt material. Carrier material removes material from the workpiece surface in a uniform manner without leaving residue.

## Applications

For fine sanding work in tool and mould making with large curves. For machining smaller, difficult-to-access areas in container and equipment construction. For machining fittings made of non-ferrous and light metals. The flat casting core design allows access to very tight corners and edges on the front side.

## Quality

**Abrasive grain synthetic corundum (AO).**

43162 - 43168



Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Grain 60		Grain 80		Grain 120		Grain 150		Grain 240		Grain 320	
				43162	...	43163	...	43164	...	43165	...	43167	...	43168	...
30	10	25,400	12,000			110		110		110		110		110	110
40	15	19,100	9,600			114		114		114		114		114	114
50	15	15,200	7,000			117		117		117		117		117	117
60	15	12,700	6,300			120		120		120		120		120	120
60	20	12,700	6,300			121		121		121		121		121	121
60	30	12,700	6,300			122		122		122		122		122	122
60	40	12,700	6,300			123		123		123		123		123	
80	15	9,500	4,800			125		125		125					
80	50	9,500	4,800			129		129		129		129		129	129

## 43172 - 43175

## Silicon carbide grinding flaps

SIC



## Design

**DIN 69183**. The abrasive grain is embedded in the synthetic resin coating of the strong fabric segments. Highly flexible and concentric. High removal rate due to aggressive sanding belt material. Carrier material removes material from the workpiece surface in a uniform manner without leaving residue.

## Applications

For materials such as aluminium, copper, bronze, titanium, high-alloy steels and plastics. Particularly recommended for titanium and titanium alloys because the sharp grinding action and low build-up of heat do not cause heat cracks.

## Quality

**Abrasive grain silicon carbide (SIC).**

43172 - 43175



Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft Ø mm	Grain 60		Grain 80		Grain 120		Grain 150	
					43172	...	43173	...	43174	...	43175	...
30	10	25,400	12,000	6			101		101		101	101
60	30	12,700	6,300	6			102		102		102	102

## 43176

## Ceramic abrasive grain grinding flaps

CER



## Design

Grinding additives in coating

- achieve a significantly higher removal rate
- prevent clogging and
- ensure cooler grinding

## Advantage

- High degree of flexibility
- Higher material removal rate due to aggressive abrasive on base layer
- Carrier material removes material from the workpiece surface in a uniform manner without leaving residue, meaning sharp abrasive grain is always available
- The flat casting core design allows access to very tight corners and edges on the front side

## Applications

For aggressive grinding with the highest cutting performance on hard materials that conduct heat poorly.

## Example applications:

- For fine sanding work on curves in tool and mould making
- For machining smaller, difficult-to-access areas in container and equipment construction
- For machining fittings made of non-ferrous and light metals
- Grinding turbine blades in engine construction and repair

## Quality

**Ceramic abrasive grain (CER).**

43176



Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft Ø mm	Grain 40		Grain 60		Grain 80		Grain 120	
					43176	...	43176	...	43176	...	...	...
20	10	38,100	19,000	6					201		301	401
30	10	25,400	12,000	6		102		202		302		402
30	15	25,400	12,000	6		103		203		303		403
30	20	25,400	12,000	6		104		204		304		404
40	20	19,100	9,600	6		105		205		305		405
50	30	15,200	7,000	6		106		206		306		406
60	15	12,700	6,300	6		107		207		307		407
60	30	12,700	6,300	6		108		208		308		408

**ATORN®****Design**

Abrasive fleece/cloth matting bodies consist of synthetic corundum on fleece and cloth segments, attached alternately around the tool axle in a fan shape. The edging density has a positive effect on the service life, increasing it significantly. The combination with abrasive cloth enhances the abrasive effect. Extra-soft abrasive fleece for optimum adaptation to the contours of the workpiece.

**Advantage**

- Increased service life due to higher material density and exact processing
- Increased removal rate due to combination with abrasive cloth in synthetic corundum (AO)

**Applications**

For cleaning and rust removal on oxidised and non-ferrous metals, for texturing, roughing and pre-grinding of workpiece surfaces.

**Quality**

Abrasive grain synthetic corundum (AO).

**NEW**

43159

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft length mm	Shaft Ø mm	Grain 80	Grain 150	Grain 240	...
						43159	43159	43159	
40	20	15,200	7,500	40	6	301	401	501	
50	30	12,200	6,000	40	6	302	402	502	
60	30	10,100	5,000	40	6	303	403	503	
60	50	10,100	5,000	40	6	304	404	504	
80	50	7,600	4,000	40	6	305	405	505	
100	50	6,100	3,000	40	6	306	406	506	

## 43185 - 43186

## POLINOX® abrasive fleece/cloth matting body, synthetic corundum

**Design**

The fleece material is arranged radially in segments, with abrasive cloth between each segment. This arrangement allows a higher rate of material removal to be achieved, while at the same time giving the surface a coarser finish.

**Applications**

For matting and burnishing metals, matting non-ferrous metals, cleaning oxidised non-ferrous base metals, line matting stainless steels without shoulder formation and for roughing plastics as preparation for gluing.

**Quality**

Abrasive grain synthetic corundum (AO).



43185 - 43186

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft Ø mm	Shaft length mm	Grain 100	Grain 180	...
						43185	43186	
40	20	15,000	7,500	6	40	101	101	
60	50	10,000	5,000	6	40	102	102	
80	50	7,500	4,000	6	40	103	103	
100	50	6,000	3,000	6	40	104	104	

## 43160 - 43165

## Abrasive fleece/cloth matting body, ceramic abrasive grain with colour coding

**ATORN®****Design**

Specially designed for machining stainless steel, the matting body comprises a combination of ceramic abrasive grain fleece and cloth segments, attached alternately around the tool axle in a fan shape. The combination with ceramic abrasive grain cloth significantly enhances the grinding effect and creates a brushed grinding finish. Colour coding prevents the tools from being mixed up.

**Advantage**

- Double impregnation for a long service life
- Virtually shoulder-free line matting on stainless steel surfaces
- Colour-coded tools make it easy to achieve a suitably fine texture
- High material removal and long service life due to ceramic abrasive grain

**Applications**

For metalworking and machining stainless steels in equipment, container, automotive and mould construction as well as in the tool industry.

**Quality**

Ceramic abrasive grain (CER).

**NEW**

43160 - 43165

Contents	Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft length mm	Shaft Ø mm	43165	...
3 pieces (orange/yellow/green)	80	50	7,600	4,000	40	6	600	

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft length mm	Shaft Ø mm	Grain 60 orange	Grain 120 yellow	Grain 240 green	...
						43160	43160	43160	
40	25	15,200	7,500	40	6	301	401	501	
50	25	12,200	6,000	40	6	302	402	502	
60	40	10,100	5,000	40	6	303	403	503	
80	50	7,600	4,000	40	6	304	404	504	

43156

## Abrasive fleece matting body, synthetic corundum

AO

**ATORN®**

### Design

Abrasive flaps made of synthetic corundum abrasive fleece segments comprise a number of fleece segments attached around the tool axle in a fan shape. The increased material density has a positive effect on the service life, increasing it significantly. Extra-soft abrasive fleece for optimum adaptation to the workpiece.

### Advantage

- Increased service life due to higher material density and exact processing
- Creates a uniform, matt finish

### Applications

For matting and burnishing metals, non-ferrous metals and cleaning oxidised non-ferrous base metals. Smoothing and final sanding of workpiece surfaces.

### Quality

**Abrasive grain synthetic corundum (AO).**



43156

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft length mm	Shaft Ø mm	Grain 100	Grain 180	Grain 280	...
						43156	43156	43156	
40	20	14,000	7,500	40	6	301	401	501	
50	30	11,000	6,000	40	6	302	402	502	
60	30	9,000	5,000	40	6	303	403	503	
60	50	9,000	5,000	40	6	304	404	504	
80	50	7,000	4,000	40	6	305	405	505	

43169

## Abrasive fleece matting body, synthetic corundum with colour coding

AO

**ATORN®**

### Design

Abrasive flaps made of synthetic corundum abrasive fleece segments (AO) with special double impregnation comprise a number of fleece segments attached around the tool axle in a fan shape. The double impregnation has a positive effect on the service life, significantly improving it further.

### Advantage

- Significantly longer service life thanks to double impregnation and material density
- For achieving virtually shoulder-free line matting on stainless steel surfaces
- Colour-coded tools make it easy to achieve a suitably fine texture

### Applications

For matting and burnishing metals, non-ferrous metals and cleaning oxidised non-ferrous base metals. Smoothing and final sanding of workpiece surfaces.

### Quality

**Abrasive grain synthetic corundum (AO).**



43169

Contents	Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft length mm	Shaft Ø mm	43169	...
3 pieces (orange/yellow/green)	50	25	12,200	6,000	40	6	400	

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft length mm	Shaft Ø mm	Orange Grain 80	Yellow Grain 180-240	Green Grain 280-320	...
						43169	43169	43169	
40	25	15,200	7,500	40	6	101	201	301	
50	25	12,200	6,000	40	6	102	202	302	
60	40	10,100	5,000	40	6	103	203	303	
80	50	7,600	4,000	40	6	104	204	304	

43177 - 43179

## POLINOX® abrasive fleece matting body, synthetic corundum

AO



### Design

The abrasive fleece segments are arranged radially. Long service life due to very densely packed segments.

### Applications

For matting and burnishing metals, matting non-ferrous metals, cleaning oxidised non-ferrous base metals, for shoulder-free line matting of stainless steels as well as for roughing plastics as preparation for gluing. Primarily for surface machining.

### Quality

**Abrasive grain synthetic corundum (AO).**



43177 - 43179

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft Ø mm	Shaft length mm	Grain 100	Grain 180	Grain 280	...
						43177	43178	43179	
40	20	15,000	7,500	6	40	101	101	101	
50	30	12,000	6,000	6	40	102	102	102	
60	50	10,000	5,000	6	40	103	103	103	
80	50	7,500	4,000	6	40	104	104	104	

**Design**

Abrasive flaps made of silicon carbide abrasive fleece segments comprise a number of fleece segments attached around the tool axle in a fan shape. The increased material density has a positive effect on the service life, increasing it significantly. Extra-soft abrasive fleece for optimum adaptation to the workpiece.

**Advantage**

- Ideal for machining stainless steel
- Increased service life due to higher material density and exact processing
- Creates a uniform, matt finish

**Applications**

For matting and burnishing metals, non-ferrous metals and cleaning oxidised non-ferrous base metals. Smoothing and final sanding of workpiece surfaces.

**Quality**

**Abrasive grain silicon carbide (SIC).**



43157

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft length mm	Shaft Ø mm	Grain 100		Grain 180		Grain 280	
						43157	...	43157	...	43157	...
40	20	14,000	7,500	40	6	301		401		501	
50	30	11,000	6,000	40	6	302		402		502	
60	30	9,000	5,000	40	6	303		403		503	
60	50	9,000	5,000	40	6	304		404		504	
80	50	7,000	4,000	40	6	305		405		505	

## 43180 - 43181

## POLINOX® abrasive fleece matting body, silicon carbide

**Design**

The abrasive fleece segments are arranged radially. Long service life due to very densely packed segments.

**Applications**

For matting and burnishing metals, cleaning oxidised metals, for shoulder-free line matting of stainless steels and for roughing plastics as preparation for gluing. Ideal for finishing and matting of non-ferrous metals and stainless steels, for fine deburring of processed aluminium parts and for processing paint layers and coatings.

**Quality**

**Abrasive grain silicon carbide (SIC).**



43180 - 43181

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft Ø mm	Shaft length mm	Grain 180		Grain 280	
						43180	...	43181	...
40	20	15,000	7,500	6	40			101	101
50	30	12,000	6,000	6	40			102	102
60	50	10,000	5,000	6	40			103	103
80	50	7,500	4,000	6	40			104	104

## 43187 - 43188

## POLINOX® abrasive fleece matting body, synthetic corundum

**Design**

Several sharply crimped fleece strips are wound around a core.

**Advantage**

- The crimped fleece material allows shoulder-free line matting of surfaces

**Applications**

For matting and burnishing metals, matting non-ferrous metals, cleaning oxidised non-ferrous base metals, shoulder-free line matting of stainless steels and for roughing plastics as preparation for gluing.

**Quality**

**Abrasive grain synthetic corundum (AO).**



43187 - 43188

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft Ø mm	Shaft length mm	Grain 100		Grain 180	
						43187	...	43188	...
80	50	7,500	4,000	6	40			100	100
100	50	6,000	3,000	6	40			101	101



43197

## Segmented felt polisher



## Design

- Polishing tools for surface machining
- Optimum adaptation to the contours of the workpiece
- The lower contact pressure largely prevents erosion of the workpiece
- Lower contact pressure also means less heat is produced and therefore less heat discolouration

## Applications

High-strength and painted sheet metal, non-ferrous metals, hardened steels, rust- and acid-resistant steels, high-alloy steels.

Use in combination with special grinding paste, art. no. 43141 and polishing paste, art. nos. 43380 and 43381.

For optimum results, felt products should always be used at speeds of approx. 10 m/s.



43197



Soft D2/H25

Medium D2/H40

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft Ø mm		43197	...	43197	...
25	20	10,700	7,600	6	10 pcs.		101	201	
25	30	10,700	7,600	6	10 pcs.		102	202	
30	20	10,500	6,300	6	10 pcs.		103	203	
40	20	9,000	4,750	6	10 pcs.		104	204	
40	30	9,000	4,750	6	10 pcs.		105	205	
50	20	8,000	3,800	6	10 pcs.		106	206	
50	30	8,000	3,800	6	10 pcs.		107	207	
50	40	8,000	3,800	6	10 pcs.		108	208	
60	30	7,000	3,150	6	10 pcs.		109	209	
60	40	7,000	3,150	6	10 pcs.		110	210	
80	50	6,000	2,400	6	10 pcs.		111	211	

43198

## Segmented felt polisher



## Design

- Greater flexibility for irregular shapes and contours
- Polishing tools for surface machining
- Optimum adaptation to the contours of the workpiece
- The lower contact pressure largely prevents erosion of the workpiece
- Lower contact pressure also means less heat is produced and therefore less heat discolouration

## Applications

High-strength and painted sheet metal, non-ferrous metals, hardened steels, rust- and acid-resistant steels, high-alloy steels.

Use in conjunction with special grinding paste art. no. 43141 and polishing paste art. nos. 44380 and 44381.

For optimum results, felt products should always be used at speeds of approx. 10 m/s.

43198



Soft D2/H25

Medium D2/H40

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft Ø mm		43198	...	43198	...
40	30	9,000	4,750	6	10 pcs.		101	201	
50	30	8,000	3,800	6	10 pcs.		102	202	
60	40	7,000	3,150	6	10 pcs.		103	203	
80	50	6,000	2,400	6	10 pcs.		104	204	

43199

## Felt polishing set, 8 pieces



## Design

- Polishing tools for surface machining
- Optimum adaptation to the contours of the workpiece
- The lower contact pressure largely prevents erosion of the workpiece
- Lower contact pressure also means less heat is produced and therefore less heat discolouration

## Applications

High-strength and painted sheet metal, non-ferrous metals, hardened steels, rust- and acid-resistant steels, high-alloy steels.

Use in conjunction with special grinding paste art. no. 43141 and polishing paste art. nos. 44380 and 44381.

For optimum results, felt products should always be used at speeds of approx. 10 m/s.

43199



Felt polishing set, 8 pieces, consists of:	
1x segmented felt polisher	20 x 20 mm soft
1x segmented felt polisher	40 x 30 mm soft
1x segmented felt polisher	40 x 30 mm medium
1x segmented felt polisher, brush form	40 x 30 mm soft
1x felt polishing roll, cylindrical	13 x 25 mm
1x felt polishing roll, tapered	13 x 25 mm
1x mounting mandrel	3.2 x 19 x 6 mm
1x polishing paste	

Felt polishing set	Shaft Ø mm	43199	...
8 pieces	6		100

**osborn**

Abrasive fleece tools are used without polishing paste because the abrasive grain is already contained in the carrier material of the burnishing tools.

These tools are made of matted fleece with abrasive grain and they are characterised by their open and flexible structure. They are self-sharpening and can be used dry or wet. As they can also be used on hand-guided machines, they are suitable for a wide range of applications from burnishing and de-oxidisation to finishing.

Our abrasive fleece tools are available in various sizes and grain types depending on the application.



Coarse brush stroke



Medium brush stroke



Fine brush stroke

**Economical cutting speeds (average values)**

The higher the disc speed, the harder and less flexible the layers become.

Application	Cutting speed
Grinding	approx. 30 m/sec.
Burnishing	approx. 20 m/sec.
Pre-polishing	approx. 25–30 m/sec.
Polishing metal	approx. 30–36 m/sec. +/-15%
Polishing metal (sharp contours)	approx. 20 m/sec. +/-10 %
Polishing plastic	approx. 15 m/sec. +/-10 %

**43210****Abrasive fleece satin finishing rings****osborn****43210 100****Abrasive fleece satin finishing ring assortment****Design**

- With abrasive fleece rings for the three satin finishing levels: coarse, medium-fine and fine

**Scope of delivery:**

With clamping shaft Ø 6 mm for drills or flexible shafts.

**Set contents 43210 100**

1x	abrasive fleece burnishing ring, coarse
1x	abrasive fleece burnishing ring, medium-fine
1x	abrasive fleece burnishing ring, fine
1x	clamping shaft Ø 6 mm

**NEW**

Satin finishing set

43210 100

External Ø mm	Hole Ø mm	Rotation speed rpm	43210	...
100	10	4,000	100	

**43210 101****Abrasive fleece satin finishing ring, coarse****Note:**

Clamping shaft Ø 6 mm, see art. no. 43210 301.

**43210 102****Abrasive fleece satin finishing ring, medium-fine****43210 103****Abrasive fleece satin finishing ring, fine**

Coarse

Medium-Fine

Fine

External Ø mm	Width mm	Hole Ø mm	Rotation speed rpm	43210	...
100	23	10	4,000	101	
100	30	10	4,000	102	103

**43210****Clamping shafts for polishing and satin-finishing rings****osborn****43210 301****Applications**

Clamping shaft for drills or flexible shafts for clamping polishing and satin finishing rings with a 10 mm hole up to a diameter of 100 mm.

**43210 300****Applications**

Clamping shaft for angle polishers for clamping polishing and satin finishing rings with a 14 mm hole from a diameter of 150 mm.

**NEW**

43210 301

43210 300



Clamping shaft for	Ø mm	Thread	43210	...
Drills, flexible shafts	6	-	301	
Angle polisher	-	M14	300	

43210

## Polishing fleece cloth rings

**osborn**

43210 200

Polishing assortment

### Design

- With 2 sisal cloth rings and 2 polishing cloth rings for each of the three polishing stages
- Polishing stages: Pre-polishing, levelling and high-gloss polishing (glazing)

### Scope of delivery:

With 1 brown, 1 white and 1 blue polishing paste along with a clamping shaft, Ø 6 mm for drills or flexible shafts.

**NEW**


43210 200

### Set contents 43210 200

- 2x sisal cloth rings
- 2x polishing fleece cloth rings NTF914
- 2x polishing fleece cloth rings NTF925
- 1x polishing paste, brown
- 1x polishing paste, white
- 1x polishing paste, blue
- 1x clamping shaft Ø 6 mm

External Ø mm	Hole Ø mm	Rotation speed rpm	Polishing set	
			43210	...
100	10	4,000		200

43210 201

Sisal cloth ring

Pack = 1 pieces

43210 202

Polishing fleece cloth ring NTF914

Pack = 2 pieces

43210 303

Polishing fleece cloth ring NTF925

Pack = 2 pieces

### Note:

Clamping shaft Ø 6 mm, see art. no. 43210 301.

43210 201

43210 202

43210 203



Outer Ø mm	Width mm	Hole Ø mm	Rotation speed rpm	Pack = pieces	Sisal cloth		NTF914		NTF925	
					43210	...	43210	...	43210	...
100	17	10	4,000	1		201				
100	15	10	4,000	2				202		
100	10	10	4,000	2						203

43192

## POLIVLIES® discs

**AO**
**PFERD**


43192 101-102

POLIVLIES® discs

### Design

- Up to 3 discs can be clamped together to increase the range of application
- Order tool holder (art. no. 43192 201) separately

### Applications

Difficult workpiece contours can be processed flexibly with edge grinding.

Example applications:

- Deburring ridges and deep grooves
- Cleaning cylinder heads
- Finishing radiators

### Quality

Abrasive grain synthetic corundum (AO).

43192 201

### Tool holders

### Applications

For POLIVLIES® discs, art. no. 43192 101–102.

Clamping width is preset using the hexagon nut on the shaft side of the tool holder.

Up to 3 POLIVLIES® discs can be clamped. In order to vary the lateral flexibility, a pair of side discs with a Ø 50 mm and a pair with a Ø 80 mm are supplied. The tool is changed from the front by loosening the fastening screw.

It is not necessary to remove the tool holder from the drive machine to change tools.



43192 101-102



43192 201



Grain	External Ø x width mm	Hole Ø mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	43192	
					101	102
Medium	150 x 8	13	4,000	1,300–3,100		
Very fine	150 x 8	13	4,000	1,300–3,100		

	S x L mm	Suitable for hole Ø mm	Clamping range mm	43192	
				101	102
Tool holder	6 x 35	13	1–25		



## 43189 - 43190

## POLINOX® flap wheels

A0



## Applications

For cleaning, deburring and finishing of areas and contours, particularly in tight working areas such as holes, recesses and in hard-to-reach areas, e.g. cleaning and deburring of threads.

## Quality

Abrasive grain synthetic corundum (AO).

## Note:

For suitable clamping bolts, see art. no. 43191.



43189 - 43190

Ø mm	Grain	Number of layers	Max. permitted rotation speed rpm	Recommended rotation speed rpm	43189	...	43190	...
25	Medium fine 100	2	19,100	10,000				
25	Very fine 280	2	19,100	10,000			101	
38	Medium fine 100	3	12,600	7,500				101
38	Very fine 280	3	12,600	7,500				102

## 43191

## Clamping bolts



43191 101

## Applications

For POLINOX® flap wheels 25 mm Ø  
(art. no. 43189).

43191 102

## Applications

For POLINOX® flap wheels 38 mm Ø  
(art. no. 43190).



43191

For flap wheel Ø mm	Shaft Ø mm	Clamping length mm	Bolt length mm	43191	...
25	6	30	75		101
38	6	30	125		102

## 43193

## Marbling body



## Applications

The abrasive fleece discs (art. no. 43194–43196)  
are attached to the elasticated rubber layer by  
riptide, for easy replacement.

Ø mm	Ø inch	Recommended rotation speed rpm	Shaft Ø mm	43193	...
40	1 1/2	600–1,400	6		101
50	2	600–1,400	6		102
60	2 1/2	600–1,400	6		103



43193

## 43194 - 43196

## Abrasive fleece discs for marbling bodies

A0



## Design

Oil- and waterproof.

## Applications

Special tool for achieving surface effects  
(marbling of surfaces) as well as for  
profiled workpieces. The easily replaceable  
abrasive fleece discs are attached to the elasticated  
rubber layers (art. no. 43193) by riptape.

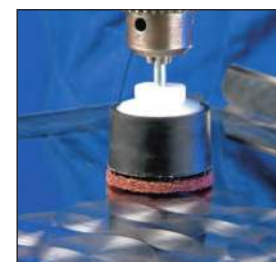
## Quality

Abrasive grain synthetic corundum (AO).

Ø mm	Ø inch	Recommended rotation speed rpm	Grain 100		Grain 180		Grain 280	
			43194	...	43195	...	43196	...
40	1 1/2	600–1,400		101		101		101
50	2	600–1,400		102		102		102
60	2 1/2	600–1,400		103		103		103



43194 - 43196



## 43208

## Silicon carbide coarse cleaning roller

SIC

**ATORN®**

## Design

The SIC cleaning roller is a coarsely structured  
cleaning fleece. The open structure prevents  
unwanted clogging. The Ø 19 mm hole has a plastic  
core and 2 keyways to fit all common roller drives.

## Advantage

- Open fleece structure prevents clogging

## Applications

Optimum results when cleaning weld seams on  
stainless steels. Also when removing corrosion,  
scale, discolouration, stubborn paint and coatings.

## Quality

Abrasive grain silicon carbide (SIC).

**NEW**


43208

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	43208	...
100	100	5,000	2,500	19		201

## Segmented rollers

43200

### Synthetic corundum abrasive flap rollers

AO

**ATORN®**

#### Design

Abrasive flap rollers (AO) consist of synthetic corundum on cloth segments which are positioned around the axle in a fan shape and embedded in a plastic core. The Ø 19 mm hole has a plastic core and 2 keyways to fit all common roller drives.

#### Applications

Suitable for larger areas e.g. in container and equipment construction for removing rust, oxidation layers, light scratches and for powerful texturing (finishing) and burnishing of metals.

#### Quality

Abrasive grain synthetic corundum (AO).

**NEW**



43200

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	Grain 40		Grain 60		Grain 80		Grain 120	
					43200	...	43200	...	43200	...	43200	...
100	50	6,100	3,800	19	201			202			203	204
100	100	6,100	3,800	19	301			302			303	304

43201

### Abrasive fleece/cloth segmented rollers

AO

**ATORN®**

#### Design

Abrasive fleece/cloth segmented rollers (AO) consist of synthetic corundum (AO) on fleece and cloth segments which are positioned around the axle in a fan shape and embedded in a plastic core. The Ø 19 mm hole has a plastic core and 2 keyways to fit all common roller drives.

#### Advantage

- The use of synthetic corundum abrasive cloth (AO) achieves a higher rate of material removal and a

coarser grinding finish

- Increased service life and lower heat production due to 110 mm diameter

#### Applications

Suitable for larger areas e.g. in container and equipment construction for removing rust, oxidation layers, light scratches and for powerful texturing (finishing) and burnishing of metals.

#### Quality

Abrasive grain synthetic corundum (AO).

**NEW**



43201

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	Grain 60		Grain 80		Grain 150		Grain 240	
					43201	...	43201	...	43201	...	43201	...
100	50	4,800	2,800	19				101			102	103
110	100	4,700	2,800	19		201		202			203	204

43202

### Abrasive fleece/cloth segmented rollers with colour coding

CER

**ATORN®**

#### Design

Abrasive fleece/cloth segmented rollers (CER) consist of ceramic abrasive grain (CER) fleece and cloth segments which are positioned around the axle in a fan shape and embedded in a plastic core. The Ø 19 mm hole has a plastic core and 2 keyways to fit all common roller drives. The combination with ceramic abrasive grain cloth significantly enhances the grinding effect and creates a brushed grinding finish. More trimming material compared to conventional 100/110 rollers provides a longer service life and generates less heat while working. Colour coding prevents the tools from being mixed up.

#### Advantage

- Double impregnation for very high durability  
- Maximum service life and removal rate thanks to the use of ceramic abrasive grain and the layer thickness of Ø 115 mm  
- Reduced heat load in machining process  
- Colour coding prevents the tools from being mixed up

#### Applications

Suitable for larger areas e.g. in container and equipment construction for removing rust, oxidation layers, light scratches and for powerful texturing (finishing) and burnishing of metals. Specialist tool for machining stainless steel.

#### Quality

Ceramic abrasive grain (CER).

**NEW**



43202 201



43202 202

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	Grain 60 orange		Grain 120 yellow	
					43202	...	43202	...
115	100	4,800	2,500	19			201	202

43203

### Abrasive fleece segmented roller, synthetic corundum

AO

**ATORN®**

#### Design

Segmented rollers made of synthetic corundum abrasive fleece segments (AO) comprise a number of fleece segments positioned around the axle in a fan shape and embedded in a plastic core. The Ø 19 mm plastic hole has 2 keyways to fit all common roller drives. The high material density has a positive effect on the service life, increasing it significantly.

Extra-soft abrasive fleece for optimum adaptation to the workpiece.

#### Advantage

- Increased service life due to increased material density and exact processing  
- Creates a uniform, matt finish

#### Applications

For matting and burnishing metals, non-ferrous metals and cleaning oxidised non-ferrous base metals. Smoothing and final sanding of workpiece surfaces.

#### Quality

Abrasive grain, synthetic corundum (AO).

43203

**NEW**



Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	Grain 80		Grain 120		Grain 180		Grain 280	
					43203	...	43203	...	43203	...	43203	...
100	50	4,800	2,700	19		101		102			103	104
110	100	4,800	2,600	19		201		202			203	204

43204

## Abrasive fleece segmented roller with colour coding

A0

**ATORN®****Design**

Segmented rollers made of synthetic corundum abrasive fleece segments (AO) comprise a number of fleece segments positioned around the axle in a fan shape and embedded in a plastic core. The Ø 19 mm plastic hole has 2 keyways to fit all common roller drives. More trimming material compared to conventional 100/110 rollers provides a longer service life and generates less heat while working. Colour coding prevents the tools from being mixed up.

**Advantage**

- Increased service life due to higher material density and exact processing
- Colour coding prevents the tools from being mixed up
- Creates a uniform, matt finish

**Applications**

For matting and burnishing metals, non-ferrous metals and cleaning oxidised non-ferrous base metals. Smoothing and final sanding of workpiece surfaces.

**Quality**

Abrasive grain synthetic corundum (AO).

**NEW**

43204 201



43204 202



43204 203

	Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	43204	...
Colour set, 3 pcs.	115	100	4,800	2,800	19		300

Grain	Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	43204	...
K 80/orange	115	100	4,800	2,800	19		201
K 180-240/yellow	115	100	4,800	2,800	19		202
K 280-320/green	115	100	4,800	2,800	19		203

43205

## Wavy abrasive fleece segmented roller with colour coding

A0

**ATORN®****Design**

Segmented rollers made of synthetic corundum abrasive fleece segments (AO) comprise a number of fleece segments which are positioned around the axle in waves and embedded in a plastic core. The Ø 19 mm plastic hole has 2 keyways to fit all common roller drives. The wavy construction allows shoulder-free line matting over large areas. Colour coding for easier selection of the correct tool.

**Advantage**

- Shoulder-free line matting over large areas due to wavy construction
- Very long service life thanks to double impregnation
- Colour coding prevents the tools from being mixed up

**Applications**

For matting and burnishing metals, non-ferrous metals and cleaning oxidised non-ferrous base metals. Smoothing and final sanding of workpiece surfaces. Specialist tool for machining stainless steel.

**Quality**

Abrasive grain synthetic corundum (AO).

**NEW**

43205 200

Contents	Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	43205	...
Colour set, 5 pcs.	100	100	4,800	2,500	19		200

43205 101



43205 102



43205 103



43205 104



43205 105



Grain	Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	43205	...
K 80/orange	100	100	4,800	2,500	19		101
K 120/red	100	100	4,800	2,500	19		102
K 180-240/yellow	100	100	4,800	2,500	19		103
K 280-320/green	100	100	4,800	2,500	19		104
K 400-600/purple	100	100	4,800	2,500	19		105

## 43206

## Felt abrasive flap rollers



## Design

- The flexibility of the individual segments allows cool airflow at all times

## Advantage

- Undesirable discolouration is avoided
- The tool adapts perfectly to the workpiece
- Improved polishing paste application enables long-lasting and uniform polishing effect

## Applications

**Soft D5/H25:** For glazing or machining workpieces with many contours

**Medium D5/H40:** For pre-polishing flat surfaces

A very fine surface can be achieved by using both versions, one after the other.

For surface treatment of pre-ground workpieces. Suitable for polishing stainless steel, non-ferrous metals and for high-gloss polishing of medium to large components.

Use in conjunction with special grinding paste art. no. 43141 and polishing paste art. nos. 44380 and 44381.

For optimum results, felt products should always be used at speeds of approx. 10 m/s.

43206



Flexibility	Ø mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	43206	...
Soft D5/H25	100 x 100	3,700	1,900	19		101
Medium D5/H40	100 x 100	3,700	1,900	19		201

## 43207

## Felt abrasive flap rollers in brush form



## Design

- Segmented with multiple slits for maximum flexibility
- Felt brush rollers thus adapt to irregular shapes and surfaces
- The flexibility of the individual segments allows cool airflow at all times

## Advantage

- Undesirable discolouration is avoided
- The tool adapts perfectly to the workpiece
- Improved polishing paste application enables long-lasting and uniform polishing effect

## Applications

**Soft D5/H25:** For glazing or machining workpieces with many contours

**Medium D5/H40:** For pre-polishing flat surfaces

A very fine surface can be achieved by using both versions, one after the other.

For surface treatment of pre-ground workpieces. Suitable for polishing stainless steel, non-ferrous metals and for high-gloss polishing of medium to large components.

Use in conjunction with special grinding paste art. no. 43141 and polishing paste art. nos. 44380 and 44381.

For optimum results, felt products should always be used at speeds of approx. 10 m/s.

43207



Flexibility	Ø mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	43207	...
Soft D5/H25	100 x 100	3,700	1,900	19		101
Medium D5/H40	100 x 100	3,700	1,900	19		201

## 47310

## Roller brushes

## PFERD



## Design

Crimped, hole with 4 keyways.

## 47310 101

## Design

Steel wire (stranded wire).

## Applications

Suitable for very heavy-duty brushing work. The special arrangement of the wires produces a highly aggressive brushing effect.

## 47310 102

## Design

INOX wire.

## Applications

For texturing INOX workpieces. Provides optimum corrosion protection.

## 47310 103

## Design

With plastic (SiC) trim.

## Applications

Suitable for texturing steel, INOX and wood. Also for fine deburring of holes and openings in large parts.

47310 101



47310 102

47310 103



Trim	Ø mm	Hole Ø mm	Trim thickness Ø mm	Trim length mm	Trim width mm	Rec. rotation speed approx. rpm	Max. rotation speed approx. rpm	47310	...
Steel wire	100	19	0.27	26	100	3,000-4,500	6,000		101
Stainless steel wire	100	19	0.20	26	100	2,400-3,900	6,000		102
Plastic (SiC)	100	19	1.27	26	100	2,400-3,900	6,000		103



## PFERD



## Design

POLIROLL® tools consist of abrasive material on a support layer in a spiral shape. The abrasive grain is embedded into the tight fabric backing with a synthetic resin layer, achieving the highest cutting performance.

The grinding rollers sit securely during use thanks to the self-tensioning, ribbed, tapered tool holder.

## Advantages:

- Once the outer abrasive cloth is worn, POLIROLL® grinding rollers offer fresh abrasive grain ready for use
- Very good cutting performance
- Easily replaceable due to special tool holder

## Example applications:

- Deburring tasks in holes and in difficult-to-reach areas
- Machining fillet weld seams in metalwork
- Deburring tasks on cast parts

## Recommended use:

- Always grind with the tip and not with the flat part, as otherwise the effect of the heat will damage the adhesion
- Always place the glued side of the grinding roller on the tool holder
- Use with a grinding oil that is suitable for the material being processed to increase tool service life and grinding performance



## 43300

## POLIROLL® grinding rollers, synthetic corundum (cylindrical)

AO

## PFERD



## Design

- Cylindrical shape

## Applications

For universal grinding tasks on metals and other materials.

## Quality

Abrasive grain synthetic corundum (AO).

## Note:

For a suitable tool holder, see art. no. 43304.



43300

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Suitable tool holder		Grain 50		Grain 80		Grain 150	
						43300	...	43300	...	43300	...
6	25	25,000	20,000	B0 3-18-3. B0 6-18-3	50 pcs.					201	301
6	35	25,000	20,000	B0 6-24-3	50 pcs.					202	302
9	25	23,000	15,000	B0 6-18-3	50 pcs.					203	303
9	35	23,000	15,000	B0 6-24-3	50 pcs.					204	304
12	25	17,000	12,000	B0 6-18-3	50 pcs.		105		205		305
12	35	17,000	12,000	B0 6-24-3	50 pcs.		106		206		306
18	35	12,000	8,000	B0 6-25-5	50 pcs.		107		207		307
18	50	12,000	8,000	B0 6-30-5	50 pcs.		108		208		308

## 43301

## POLIROLL® grinding rollers. synthetic corundum (conical)

AO

## PFERD



## Design

- Conical shape

## Applications

For universal grinding tasks on metals and other materials.

## Quality

Abrasive grain synthetic corundum (AO).

## Note:

For a suitable tool holder, see art. no. 43304.



43301

Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Suitable tool holder		Grain 50		Grain 80		Grain 150	
						43301	...	43301	...	43301	...
10	25	23,000	15,000	B0 3-18-3. B0 6-18-3	50 pcs.					201	301
12	25	17,000	12,000	B0 6-18-3	50 pcs.		102		202		302
12	35	17,000	12,000	B0 6-24-3	50 pcs.		103		203		303
15	35	15,000	10,000	B0 6-24-3	50 pcs.		104		204		304



43303

**POLIROLL® grinding rollers, ceramic abrasive grain (conical)****CER****PFERD****Design**

- Conical shape
- Active grinding additives in the coating noticeably increase the removal rate, prevent clogging and facilitate cooler grinding.

**Applications**

For aggressive grinding with the highest cutting performance on hard materials that conduct heat poorly.

**Quality**

Ceramic abrasive grain (CER).

**Note:**

For a suitable tool holder, see art. no. 43304.

43303



Ø mm	Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Suitable tool holder		Grain 60		Grain 80		Grain 120	
						43303	...	43303	...	43303	...
6	25	25,000	20,000	BO 3-18-3. BO 6-18-3	50 pcs.		101		201		301
6	35	25,000	20,000	BO 6-24-3	50 pcs.		102		202		302
9	25	23,000	15,000	BO 6-18-3	50 pcs.		103		203		303
9	35	23,000	15,000	BO 6-24-3	50 pcs.		104		204		304
12	25	17,000	12,000	BO 6-18-3	50 pcs.		105		205		305
12	35	17,000	12,000	BO 6-24-3	50 pcs.		106		206		306

43302

**POLIROLL® grinding roller set****AO****PFERD****Applications**

For universal grinding tasks on metals and other materials.

**Quality**

Abrasive grain synthetic corundum (AO).

43302



Set contents:	Ø x Width	Grain	Form	Art. no.
Quantity	mm			
20 pcs.	6 x 25	80	cylindrical	43300 201
20 pcs.	6 x 25	150	cylindrical	43300 301
20 pcs.	9 x 25	80	cylindrical	43300 203
20 pcs.	9 x 25	150	cylindrical	43300 303
20 pcs.	12 x 25	80	cylindrical	43300 205
20 pcs.	12 x 25	150	cylindrical	43300 305
10 pcs.	10 x 25	80	conical	43301 201
10 pcs.	10 x 25	150	conical	43301 301
10 pcs.	12 x 25	80	conical	43301 202

Grinding roller set	43302	...
150 pieces		101

43304

**POLIROLL® tool holder****PFERD****Design**

- Tool holder for POLIROLL® tools
- The tool can be changed without unclamping the holder from the collet chuck of the tool drive.

**Applications**

For holding POLIROLL® grinding rollers, art. no. 43300–43303.

43304



Type	Shaft Ø x length mm	43304	...
BO 3-18-3	3 x 27		101
BO 6-18-3	6 x 30		102
BO 6-24-3	6 x 30		103
BO 6-25-5	6 x 30		104
BO 6-30-5	6 x 30		105

## 43470 - 43473

## Grinding cap carrier and grinding caps (green)

AO



### Applications

The abrasive cap is placed on the abrasive cap holder. Centrifugal force keeps the caps in place while working. Quick and easy to change! **For machining corrosion and heat-resistant steel** in tool and mould making.

### Quality

Abrasive grain synthetic corundum (AO).

### 43470

#### Abrasive cap holder Design

Slotted rubber body with steel shaft.

### 43472 - 43473

#### Grinding caps NKS

#### Design

High-quality abrasive grain in conjunction with an **active grinding top layer** for optimum grinding results with low wear and increased removal rate.

43470 101



43470 201



43470 301



43470 403



43472 101



43472 201



43472 301



43472 403



Shape	Shaft Ø mm	Ø x head height mm	Max. permitted rotation speed rpm	Carrier 43470	...	Grain 80 43472	...	Grain 150 43473	...
Cylindrical	3	5 x 10	57,000			101		101	
Cylindrical	3	7 x 12	42,000			102		102	
Cylindrical	3	10 x 15	30,000			103		103	
Rounded roller	3	5 x 11	57,000			201		201	
Rounded roller	3	7 x 13	42,000			202		202	
Rounded roller	3	10 x 15	30,000			203		203	
Rounded roller	3	13 x 19	23,000			204		204	
Conical end	3	5 x 11	57,000			301		301	
Conical end	3	7 x 13	42,000			302		302	
Conical end	3	10 x 15	30,000			303		303	
Rounded roller, long	6	16 x 32	18,000			403		403	

## 43490 - 43493

## POLICAP® abrasive cap holder and abrasive caps

AO



### Applications

The abrasive cap is placed on the abrasive cap holder. Centrifugal force keeps the caps in place while working. **Quick and easy to change!** Used primarily in tool construction for finishing tasks in difficult-to-access areas. For machining steel and stainless steel.

### 43490

#### Abrasive cap holder Design

Slotted rubber body with steel shaft.

### 43491 - 43493

#### Abrasive caps

#### Design

Seam-free mould.

Grains: 60 (coarse, brown),  
150 (medium, black),  
280 (fine, red-brown).

#### Quality

Abrasive grain synthetic corundum (AO).

43490 105



43490 205



43490 305



43490 404



43491 105



43491 205



43491 305



43491 404



Shape	Shaft Ø mm	Ø x head height mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Carrier 43490	...	Grain 60 43491	...	Grain 150 43492	...	Grain 280 43493	...
Cylindrical	3	7 x 12	65,000	30,000			102		102		102	
Cylindrical	3	10 x 15	45,000	20,000			103		103		103	
Cylindrical	6	13 x 17	35,000	16,000			104		104		104	
Cylindrical	6	16 x 26	30,000	12,000			105		105		105	
Rounded roller	3	7 x 13	65,000	30,000			202		202		202	
Rounded roller	3	10 x 15	45,000	20,000			203		203		203	
Rounded roller	6	13 x 17	35,000	16,000			204		204		204	
Rounded roller	6	16 x 26	30,000	12,000			205		205		205	
Conical end	3	7 x 13	65,000	30,000			302		302		302	
Conical end	3	10 x 15	45,000	20,000			303		303		303	
Conical end	6	13 x 17	35,000	16,000			304		304		304	
Conical end	6	16 x 26	30,000	12,000			305		305		305	
Rounded roller, long	6	11 x 25	40,000	20,000			402		402		402	
Rounded roller, long	6	16 x 32	30,000	12,000			403		403		403	
Rounded roller, long	6	21 x 40	20,000	9,500			404		404		404	

## 43505

## Sanding belt ring carrier

## Design

**Cylindrical.** Slotted rubber body (expands due to centrifugal force and tensions the sanding belt ring).

## Applications

For replaceable sanding belt rings, art. no. 43511-43515.



43505

Ø x Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft Ø mm	43505	...
22 x 20	26,000	18,000	6		101
15 x 30	38,000	26,000	6		201
30 x 30	19,000	13,000	6		202
45 x 30	13,000	8,500	6		203
60 x 30	9,500	6,500	6		204

## 43511 - 43515

## Sanding belt rings

AO

## Design

**Cylindrical.** Cloth sanding belt with synthetic corundum abrasive in a synthetic resin bond.

## Applications

On sanding belt ring carrier art. no. 43505.  
For surface grinding tasks with high material cutting – as well as for edge grinding.

## Quality

**Abrasive grain synthetic corundum (AO).**



43511 - 43515

Ø x Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm		Coarse, Grain 50		Medium, Grain 80		Fine, Grain 150		...
				43511	...	43513	...	43515	...	
22 x 20	26,000	18,000	50 pcs.		105		105		105	
15 x 30	38,000	26,000	50 pcs.		111		111		111	
30 x 30	19,000	13,000	50 pcs.		119		119		119	
45 x 30	13,000	8,500	50 pcs.		121		121		121	
60 x 30	9,500	6,500	50 pcs.				123		123	

## 43516

## Sanding belt ring carrier

## PFERD



## Design

**Cylindrical.** The slots allow the rubber body to expand more easily (hardness approx. 65 Shore A). This tensions the sanding belt and increases the elasticity.

The belt is non-slip and sits flat on the workpiece, enabling its full width to be used.

## Applications

For replaceable sanding belt rings, art. no. 43518-43523.



43516

Ø x Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Shaft Ø mm	43516	...
10 x 20	44,000	30,000	6		108
15 x 30	36,000	26,000	6		112
30 x 30	19,100	13,000	6		118
38 x 25	15,900	10,000	6		120
45 x 30	12,700	8,500	6		121
60 x 30	9,500	6,500	6		124

## 43518 - 43523

## Sanding belt rings

AO

## PFERD



## Design

**Cylindrical.** Tear-proof base material in fully synthetic bond. Good grain adhesion and high grain quality achieve a long service life. Recommended circumferential speed approx. 20–30 m/s.

## Applications

In series production, rework and in assembly. To be used on sanding belt ring carrier art. no. 43516.

## Quality

**Abrasive grain synthetic corundum (AO).**



43518 - 43523

Ø x Width mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Grain 40		Grain 50		Grain 60		Grain 80		Grain 150		Grain 240		...
			43518	...	43519	...	43520	...	43521	...	43522	...	43523	...	
10 x 20	44,000	30,000									105		105		105
15 x 30	36,000	26,000					109		109		109		109		109
30 x 30	19,100	13,000		114		114		114		114		114		114	
38 x 25	15,900	10,000						115		115		115		115	
45 x 30	12,700	8,500		116		116		116		116		116		116	
60 x 30	9,500	6,500		118		118		118		118		118		118	

## 43524

## Sanding belt ring carrier

## Design

**Conical.** Slotted rubber body (expands due to centrifugal force and tensions the sanding belt ring).

## Applications

For replaceable sanding belt rings, art. no. 43525–43528.

43524



Ø x Width mm	Max. rotation speed rpm	Recommended rotation speed rpm	Shaft Ø mm	43524	...
14/20 x 63	21,000	18,500	6		101
22/29 x 30	21,000	16,000	6		102

## 43525 - 43528

## Sanding belt rings

AO

## Design

**Conical.** Cloth sanding belt with synthetic corundum abrasive in a synthetic resin bond.

## Applications

On sanding belt ring carrier art. no. 43524. For mould-making, sheet metal machining, deburring, bodywork. Very good on steel (even hardened), for all metals, limited for soft materials.

## Quality

**Abrasive grain synthetic corundum (AO).**

43525 - 43528



Ø x Width mm	Max. rotation speed rpm	Recommended rotation speed rpm	Grain 40, coarse		Grain 50, coarse		Grain 80, medium		Grain 150, fine	
			43525	...	43526	...	43527	...	43528	...
14/20 x 63	21,000	18,500		101				101		101
22/29 x 30	21,000	16,000				102		102		102

## 43529

## Sanding belt rings

ZA

## PFERD



## Design

- Cylindrical shape
- The highly aggressive cutting power of the zirconia alumina is effective at higher contact pressure and allows outstanding material removal rates
- Designed for excellent removal rates

## Advantage

- Slots cause the carrier to expand during use, which ensures the sanding sleeve will not slip

- Outstanding service life due to special manufacturing process – even under the toughest conditions
- Particularly high rate of material removal and highly aggressive abrasive

## Applications

- Removal of welding seams in steel construction
- Fine grinding tasks in apparatus and container construction
- Reworking during assembly and repair tasks
- Machining of edges and contours in engine construction

## Quality

**Abrasive grain, zirconia alumina (ZA).**

43529



Ø x Width mm	Recommended rotation speed rpm	Grain 36		Grain 40		Grain 50		Grain 60		Grain 80		Grain 120	
		43529	...	43529	...	43529	...	43529	...	43529	...	43529	...
13 x 25	30,000–44,000						301		401		501		601
19 x 25	20,000–30,000				202		302		402		502		602
25 x 25	16,000–22,900		103		203		303		403		503		603
30 x 30	13,000–19,100		104		204		304		404		504		
38 x 25	10,000–15,900		105		205		305		405		505		605
45 x 30	8,500–12,700				206		306		406		506		

## 43530

## Sanding belt rings

ZA

## PFERD



## Design

- Conical shape
- The highly aggressive cutting power of the zirconia alumina is effective at higher contact pressure and allows outstanding material removal rates
- Designed for excellent removal rates

## Advantage

- Slots cause the carrier to expand during use, which ensures the sanding sleeve will not slip

- Outstanding service life due to special manufacturing process – even under the toughest conditions
- Particularly high rate of material removal and highly aggressive abrasive

## Applications

- Removal of welding seams in steel construction
- Fine grinding tasks in apparatus and container construction
- Reworking during assembly and repair tasks
- Machining of edges and contours in engine construction

## Quality

**Abrasive grain, zirconia alumina (ZA).**

43530



Ø x Width mm	Recommended rotation speed rpm	Grain 36		Grain 50		Grain 60		Grain 80		Grain 120	
		43530	...	43530	...	43530	...	43530	...	43530	...
20/14 x 63	19,000–26,000		101		301		401		501		601
29/22 x 30	20,000–30,000		102		302		402		502		602
36/22 x 60	16,000–22,900		103		303		403		503		603

## Sanding belts

43533

### Endless sanding belts

AO

#### Design

##### Bond:

Synthetic resin on a special fabric. Corundum coating with high removal rate. Highly abrasion-resistant cotton fabric for a long service life.

##### Applications

For all types of wood, chipboard panels, construction panels and metals. Also suitable for sanding paint. For AEG belt sanders of type HBS 1000 E (art. no. 91530 102).

#### Quality

Corundum with fully synthetic resin bond.



43533

Grain	Belt size mm	Pack = pieces	43533	...
40	533 x 75	10		101
60	533 x 75	10		102
80	533 x 75	10		103

Grain	Belt size mm	Pack = piece	43533	...
100	533 x 75	10		104
150	533 x 75	10		105
220	533 x 75	10		106

43535

### Endless sanding belts

AO

#### Design

Synthetic resin bonded corundum sanding belt on highly abrasion-resistant polyester/cotton mixed fabric backing.

##### Applications

For machining and deburring cast, stamped and forged parts with dry or wet cutting. For Flex band filing machine type LBS 1105 VE (art. no. 91532).

#### Quality

Abrasive grain synthetic corundum (AO).



43535

Grain	Belt size mm	Pack = pieces	43535	...
40	533 x 9	10		101
60	533 x 9	10		102

Grain	Belt size mm	Pack = piece	43535	...
120	533 x 9	10		103
220	533 x 9	10		104

43537

### Endless sanding belts, synthetic corundum

AO

#### Applications

For belt sanding machines.  
For general sanding work on metals and wood.  
Also suitable for stainless steel.

#### Quality

Abrasive grain synthetic corundum (AO).



43537

Width x length mm	Belt speed max. m/s.	Grain 40		Grain 60		Grain 80		Grain 120		Grain 180	
		43537	...	43537	...	43537	...	43537	...	43537	...
3 x 520	32		101		102		103		104		105
6 x 520	32		201		202		203		204		205
12 x 520	32		301		302		303		304		
16 x 520	32		401		402		403		404		405
20 x 520	32		501		502		503		504		505
30 x 533	32		601		602		603		604		605



**Design**

Semi-robust/robust fabric, synthetic resin bond.

**Applications**

Ideal for grinding metals under normal loads. For automated and robotic grinding, manual grinding on a back stand and for hand-guided machines.

**Quality**

Abrasive grain synthetic corundum (AO).

43542 - 43546



Sanding/cutting tools

Width x length mm		Grain 40		Grain 60		Grain 80		Grain 100		Grain 120	
		43542	...	43543	...	43544	...	43545	...	43546	...
12 x 305	10 pcs.		101		101		101		101		101
13 x 610	10 pcs.		100		100		100		100		100
50 x 1020	10 pcs.		117 <b>NEW</b>		117 <b>NEW</b>		117 <b>NEW</b>		117 <b>NEW</b>		117 <b>NEW</b>
50 x 2000	10 pcs.		116		116		116		116		116
75 x 533	20 pcs.		102		102		102		102		102
75 x 2000	10 pcs.		114		114		114		114		114
100 x 560	20 pcs.		103		103		103		103		103
100 x 620	10 pcs.		104		104		104		104		104
100 x 950	10 pcs.		105		105		105		105		105
100 x 1000	10 pcs.		106		106		106		106		106
110 x 920	10 pcs.		108		108		108		108		108
150 x 1450	10 pcs.		110		110		110		110		110
150 x 2000	10 pcs.		115		115		115		115		115
200 x 1825	10 pcs.		113		113		113		113		113
200 x 1490	10 pcs.		112		112		112		112		112

**Design**

Semi-robust/robust fabric, synthetic resin bond, zirconia alumina layer.

**Applications**

Suitable for machining metals under medium to heavy loads. Can be used for grinding with hand-guided machines as well as for grinding on a back stand.

**Quality**

Abrasive grain, zirconia alumina (ZA).

43550 - 43554

**Note:***Zirconia alumina belts are characterised by their self-sharpening effect, are very durable and ensure cool grinding.*

Width x length mm		Grain 40		Grain 60		Grain 80		Grain 100		Grain 120	
		43550	...	43551	...	43552	...	43553	...	43554	...
10 x 330	100 pcs.		201		201		201		201		201
12 x 305	100 pcs.		202		202		202		202		202
12 x 520	100 pcs.		203		203		203		203		203
13 x 457	100 pcs.		204		204		204		204		204
13 x 610	100 pcs.		205		205		205		205		205
20 x 480	100 pcs.		206		206		206		206		206
20 x 520	100 pcs.		207		207		207		207		207
20 x 760	100 pcs.		208		208		208		208		208
20 x 815	20 pcs.		209		209		209		209		209
30 x 533	20 pcs.		210		210		210		210		210
40 x 618	20 pcs.		211		211		211		211		211
40 x 760	20 pcs.		212		212		212		212		212
40 x 815	20 pcs.		213		213		213		213		213
50 x 1020	10 pcs.		220 <b>NEW</b>		220 <b>NEW</b>		220 <b>NEW</b>		220 <b>NEW</b>		220 <b>NEW</b>
50 x 2000	10 pcs.		214		214		214		214		214
50 x 3500	10 pcs.		104		104		104		104		104
75 x 1300	10 pcs.		101		101		101		101		101
75 x 2000	10 pcs.		102		102		102		102		102
100 x 950	10 pcs.		218		218		218		218		218
100 x 1000	10 pcs.		219		219		219		219		219
150 x 2000	10 pcs.		103		103		103		103		103

## Info

## VSM CERAMICS: Self-sharpening high-tech ceramic abrasive grain products

## ▲VSM

The products in the **VSM CERAMICS** series are specifically designed for aggressive yet cool grinding. Using this abrasive allows you to increase the machining speed while simultaneously improving surface quality and achieving outstanding cut volumes. The cool grind allows a longer service life and minimises discolouration of the workpiece surface. The highest level of VSM quality.

**VSM CERAMICS** abrasives are particularly suitable for machining high-alloy steels, titanium and nickel-based alloys. Their high level of hardness means they can also be used for machining all kinds of extremely hard surfaces.

We recommend using TOP SIZE products for dry machining of stainless and heat-resistant steels. This additional active grinding layer

- multiplies the cutting performance by several times
- further reduces the temperature of the grinding area.

#### The way VSM CERAMICS work: Self-sharpening effect

Fine aluminium oxide ( $Al_2O_3$ ) crystals are bonded together in the ceramic abrasive grain through a sintering process. During the grinding process, the forces involved break these crystals off, meaning the abrasive grain always has a new, sharp cutting edge.

#### The benefits for you:

##### Faster machining

- due to the aggressive cutting effect of the ceramic abrasive grain
- due to the optimum scatter method and active grinding additives

##### More consistent surface quality

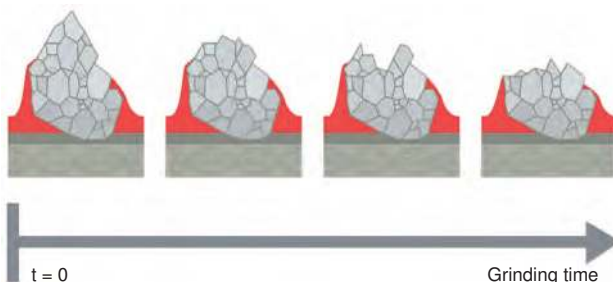
- due to the continually renewed cutting edge over the entire service life

##### Very long service life

- thanks to the self-sharpening ceramic abrasive grain
- due to the excellent adhesion of the special premium grain to the carrier material
- due to the additional active grinding layer (on TOP SIZE products)

##### Low-temperature grinding

- through high level of aggressiveness and quick material removal
- due to the „self-lubrication“ of the additional active grinding layer (on TOP SIZE products)



43548 - 43549

## High-performance ceramic abrasive grain cloth belts

TopSize

CER

## ▲VSM

#### Design

- Semi-robust/robust fabric
- Ceramic grain layer, fully synthetic resin bond
- Extremely high removal rate with self-sharpening effect
- Additional active grinding layer TOP SIZE

#### Applications

Suitable for aggressive machining of hard metals such as steel, nickel- and titanium-based alloys and cast iron under the heaviest loads.

For automated and robotic grinding, manual grinding on a back stand/block and for hand-guided machines.

#### Quality

**Ceramic abrasive grain (CER) with TopSize coating.**

43548 - 43549



Width x length mm		Grain 40		Grain 60		Grain 80		Grain 120	
		43548	...	43549	...	43549	...	43549	...
10 x 330	100 pcs.	103		103		203		303	
12 x 305	100 pcs.	104		104		204		304	
12 x 520	100 pcs.	105		105		205		305	
13 x 457	100 pcs.	106		106		206		306	
13 x 610	100 pcs.	107		107		207		307	
20 x 480	100 pcs.	108		108		208		308	
20 x 520	100 pcs.	109		109		209		309	
30 x 533	20 pcs.	110		110		210		310	
40 x 815	20 pcs.	111		111		211		311	
50 x 2000	10 pcs.	112		112		212		312	
50 x 3500	10 pcs.	113		113		213		313	
75 x 2000	10 pcs.	101		101		201		301	
150 x 2000	10 pcs.	102		102		202		302	

## 43560 - 43562

## Abrasive cloth 237AA Trizact™

AO

**3M****Design**

Semi-flexible, textured grinding tool with pyramid structure. The unique texture provides a very long service life with a unique grinding finish.

**Design features:** X-fabric, fully synthetic resin, aluminium oxide, pyramid structure, grinding aid.

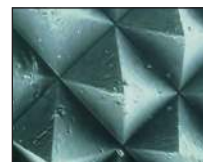
**Applications**

Especially for hard metal surfaces such as titanium, nickel, cobalt, chromium and other stainless steel alloys.

	Grain 280/A65	Grain 400/A45	Grain 600/A30	
Width x length mm	43560	...	43561	...
13 x 610		101	101	
20 x 815		102	102	102
40 x 815		103	103	103
50 x 2000		104	104	104
75 x 2000		105	105	105



43560 - 43562



Sanding/cutting tools

## 43556

## Grit sanding belts, type Z

ZA

**Design**

- All-round abrasive, blue
- Long service life and high performance
- Economical in use
- Heavy polyester fabric
- Fully synthetic resin bond with zirconia alumina

**Applications**

For grinding and deburring steel and non-ferrous metals.

**Quality**

**Abrasive grain, zirconia alumina (ZA).**

Grain	Width x length mm	Pack = piece	43556	...
36	75 x 2,000	10		101
60	75 x 2,000	10		103



43556

## 43557 - 43678

## Grit sanding belts, type R

TopSize

ZA

**Design**

- Top sanding belt, green
- Superior service life and performance
- Significantly shorter machining times
- Extra-heavy polyester fabric
- Fully synthetic resin bond with zirconia alumina
- Additional covering layer for cooling during the grinding process

**Applications**

For machining stainless and high-alloy steel.

**Quality**

**Zirconia alumina abrasive grain (ZA) with TopSize coating.**

Grain	Width x length mm	Pack = pieces	43557	...	43675	...	43677	...	43676	...	43678	...
36	75 x 2,000	10				102						
36	75 x 2,250	10								102		
36	150 x 2,000	10						102				
36	150 x 2,250	10									102	
60	75 x 2,000	10				104						
60	150 x 2,000	10						104				
80	75 x 2,000	10				105						
80	150 x 2,000	10						105				
120	75 x 2,000	10		106								
120	150 x 2,000	10						106				



43557 - 43678

## 43538

## Short belts, fleece version

AO

**Design**

Made of underlaid tangled fleece, highly elastic.  
**Max. belt speed 25 m/s.**

**Applications**

For belt sanding machines.  
For producing matt and semi-gloss surfaces on steel, stainless steel and non-ferrous metals.  
For dry and wet grinding.

**Quality**

**Abrasive grain synthetic corundum (AO).**

Grain	Width x length mm	Coarse	Medium	Fine	
		43538	...	43538	...
6 x 520					
12 x 520		101		102	103
30 x 533		201		202	203
40 x 618		501		502	503
		601		602	603



43538

## 43570 - 43572

## Scotch-Brite™ fleece sanding belts

AO

**3M****Design**

Special fleece construction with flexible fabric underlay. Low-temperature grinding due to open construction.

**Applications**

For use on all belt sanding machines for finishing and deburring tasks.

**Quality**

Abrasive grain synthetic corundum (AO).

Grain	Width x length mm	Usable width max. mm	Coarse/a crs		Medium/a med		Fine/very fine	
			43570	...	43571	...	43572	...
13 x 457		1,270		101		101		101
13 x 610		1,270		102		102		102
20 x 815		1,270		103		103		104
40 x 815		1,270		104		104		106
75 x 2000		1,270		106		106		



43570 - 43572

## 43644

## Scotch-Brite™ hand sheets, perforated

AO

ZA

**3M****Design**

The practical tear-off roll allows simple and economical separation of the perforated sheets. Metallic, pure alternative to steel wool.

**Applications**

Can be used by hand or with a hand block (art. no. 43647).

## 43644 101-102

**Multi-Flex****Design**

Synthetic nylon fleece with abrasive grain, set in fully synthetic resin bond.

**Applications**

For manual cleaning tasks. The high degree of flexibility also makes it ideal for maintenance and cleaning of copper pipes.

## 43644 103-104

**CF-SR****Design**

Robust, easy-to-cut abrasive fleece.

**Applications**

For all cleaning and finishing tasks on flat surfaces. Particularly suitable for line matting stainless steel.

## 43644 201

**Wall bracket****Applications**

For perforated hand sheets (art. no. 43644 101-104). Sheets can be removed from above or below.



43644 201



43644 101-102



43644 103-104



Grain	Abrasive mineral	Dimensions mm	Colour	1 roll = sheets	43644	...
Very fine/P 320-360	Synthetic corundum	102 x 203	Purple	60		101
Ultra-fine/P 500-600	Silicon carbide	102 x 203	Grey	60		102
Very fine/P 320-360	Synthetic corundum	115 x 150	Purple	35		103
Ultra-fine/P 500-600	Synthetic corundum	115 x 150	Grey	35		104
-	-	Ø 22.5 x 12.5	-	-		201

## 43645

## Scotch-Brite™ fleece hand sheets

AO


SIC

**3M****Design**

Synthetic nylon fleece with abrasive grain, set in fully synthetic resin bond.

**Applications**

Can be used by hand, with a hand block (art. no. 43647) or on a rubbing block. For cleaning, deburring, finishing and grinding surfaces in the metal, wood, plastic and other industrial and commercial sectors.

Grain	Abrasive mineral	Dimensions mm	Colour		43645	...
Medium/P 180-220	Synthetic corundum	158 x 224	Brown	10 pcs.		101
Very fine/P 320-360	Synthetic corundum	158 x 224	Red	10 pcs.		102
Super fine/P 400-500	Silicon carbide	158 x 224	Grey	10 pcs.		103
Ultra-fine/P 500-600	Silicon carbide	158 x 224	Grey	10 pcs.		104



43645

## 43640 - 43641

## Abrasive fleece, synthetic corundum


AO

**Applications**

Abrasive fleece products are ideal for fine machining of all materials.

**Quality**

Abrasive grain synthetic corundum (AO).

	Grain	Dimensions mm		43640	...	43641	...
Sheet	120	152 x 229	10 pcs.		101		
Sheet	320	152 x 229	10 pcs.		102		
Roll	120	115 x 10,000	-				101
Roll	320	115 x 10,000	-				102



43640

43641

43639

## Abrasive fleece

A0

SIC

**ATORN®****Design**

- Easy to cut
- High degree of flexibility
- Long service life and optimum grinding results thanks to the uniform fibre structure

**Applications**

For matting, cleaning, roughing and rust removal.  
Degreasing and cleaning of surfaces.  
For texturing softwood.  
For de-rusting and subsurface preparation of zinc and zinc coatings.

43639 103-106

43639 203-206



	Fineness	Grain type	Colour	Dimensions mm		43639	...
Sheet	Coarse (K280)	Synthetic corundum	Blue	150 x 210	10 pcs.		103
Sheet	Fine (K1200)	Silicon carbide	Grey	150 x 210	10 pcs.		106
Roll	Coarse (K280)	Synthetic corundum	Blue	115 x 10,000	-		203
Roll	Fine (K1200)	Silicon carbide	Grey	115 x 10,000	-		206

43646

## Scotch-Brite™ fleece rollers

A0

SIC

**3M****Design**

Synthetic nylon fleece with abrasive grain, set in fully synthetic resin bond.

**Applications**

Can be used by hand, with a hand block (art. no. 43647) or on a rubbing block. For cleaning, finishing and light deburring tasks. For removing dirt, corrosion and other contamination as well as for matting surfaces.

43646



Grain	Grinding mineral	Dimensions mm x m	Colour	43646	...
Fine/P 280-320	Synthetic corundum	100 x 10	Red		101
Very fine/P 320-360	Synthetic corundum	100 x 10	Red		102
Ultra-fine/P 500-600	Silicon carbide	100 x 10	Grey		103
Medium/P 180-220	Synthetic corundum	125 x 10	Red		104
Very Fine/P 320-360	Synthetic corundum	125 x 10	Red		105
Ultra-Fine/P 500-600	Silicon carbide	125 x 10	Grey		106

43647

## Scotch-Brite™ hand block

**3M****Applications**

For fleece hand sheets and rolls (art. no. 43644-43646).

Dimension mm	43647	...
120 x 80		101



43647

43654

## Flexible sanding belt holder

**Design**

With wedge-shaped sheet support. Retaining clip and clamping screw for quick, secure clamping of the sanding belt.

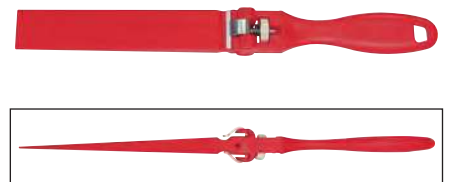
**Applications**

For tensioning abrasive cloth strips 280 mm in length (sheets or economy rolls). Particularly useful when working in hard-to-reach places. Many areas of use, ideal file extension including for difficult applications.

**Quality**

Flexible plastic material.

43654



Sanding belt width mm	Sanding area length mm	Total length mm	43654	...
25	125	270		101

43656

## Economy roll magazine

**AVSM****Design**

Robust magazine for 5 rolls. Install directly at workstation, economical consumption.

**Applications**

Universal for economy rolls from 25-50 mm in width and 50 m in length.

43656



	43656	...
		101



**ATORN®****Design**

- Robust, oil/petroleum-resistant, highly flexible cotton fabric
- Excellent grinding performance with high-quality synthetic corundum (AO resin-bonded) and dense covering
- Holder core for mounting on an economy roll holder

**Applications**

Manual and machine sanding (width: 115 mm) of alloyed and unalloyed steels, stainless steel, chrome and chrome-nickel steel, brass, bronze, wood, paint and plastic. Fine machining of profiles and drill holes. Cleaning machine parts, rollers and shafts. Cleaning contact surfaces, as well as universal use on wood and other materials.

**Quality**

**Abrasive grain synthetic corundum (AO).**

**43648 101-110****Design**

- Width: 25 mm
- In a practical tear-off box with side window for monitoring usage

**43648 201-210****Design**

- Width: 40 mm
- In a practical tear-off box with side window for monitoring usage

**43648 301-310****Design**

- Width: 50 mm

**43648 401-409****Design**

- Width: 115 mm
- Wide design to enable it to be mounted on orbital sanders

**NEW**

43648 101-110



43648 201-210



43648 301-310



43648 401-409



Tear-off box		Width 25 mm		Width 40 mm	
Grain	Roll length m	43648	...	43648	...
40	50	101		201	
60	50	102		202	
80	50	103		203	
100	50	104		204	
120	50	105		205	
150	50	106		206	
180	50	107		207	
240	50	108		208	
320	50	109		209	
400	50	110		210	

Economy roll		Width 50 mm		Width 115 mm	
Grain	Roll length m	43648	...	43648	...
40	50	301		401	
60	50	302		402	
80	50	303		403	
100	50	304		404	
120	50	305		405	
150	50	306		406	
180	50	307		407	
240	50	308		408	
320	50	309		409	
400	50	310			

## 43650 - 43653

## Abrasive cloth economy rolls

AO

## VSM

## Design

Corundum cloth, brown, very flexible.

## Applications

For manual sanding of metals. For sanding edges, curves, profiles, crankshafts etc.

## Quality

Abrasive grain synthetic corundum (AO).

## 43650

25 mm wide, in tear-off box.

## 43651

40 mm wide, in tear-off box.

## 43652

50 mm wide, without tear-off box.

## 43653

115 mm wide, without tear-off box.



43650 - 43651



43652



43653

Width		25 mm		40 mm		50 mm		115 mm	
Grain	Roll length m	43650	...	43651	...	43652	...	43653	...
40	50		101		101		101		101
60	50		102		102		102		102
80	50		103		103		103		103
100	50		104		104		104		104
120	50		105		105		105		105
150	50		106		106		106		106
180	50		107		107		107		107
240	50		109		109		109		109
320	50		111		111		111		111
400	50		112		112		112		112

## 43649

## Corundum abrasive cloth (sheets)

AO

## ATORN®

## Design

- Carrier material: robust, oil/petroleum-resistant, highly flexible cotton fabric  
- Excellent grinding performance with high-quality synthetic corundum (AO resin-bonded) and dense covering

## Applications

Hand sanding of alloyed and unalloyed steels, stainless steel, chrome and chrome-nickel steel, brass, bronze, wood, paint and plastic. Fine machining of profiles and drill holes. Cleaning machine parts, rollers and shafts. Cleaning contact surfaces, as well as universal use on wood and other materials.

NEW



43649 101-110

Grain	Dimensions mm		43649	...
40	230 x 280	50 pcs.		101
60	230 x 280	50 pcs.		102
80	230 x 280	50 pcs.		103
100	230 x 280	50 pcs.		104
120	230 x 280	50 pcs.		105

Grain	Dimensions mm		43649	...
150	230 x 280	50 pcs.		106
180	230 x 280	50 pcs.		107
240	230 x 280	50 pcs.		108
320	230 x 280	50 pcs.		109
400	230 x 280	50 pcs.		110

## 43625 - 43626

## Corundum abrasive cloth (sheets)

AO

## VSM

## Applications

For hand sanding of iron, steel and non-ferrous metals.

## Note:

Grains 444 and 999 = polishing cloth, washed.

## 43625

## Applications

For normal loads, sanding radii etc. Carrier material: paper.

## 43626

## Applications

Very flexible hand sanding material for a wide range of applications. Carrier material: robust cotton fabric.

## 43625 200 + 43626 200

## Abrasive cloth assortments

## Design

Comprises 10 sheets each of 60, 80, 120, 180 and 320 grain.

Price = 50 pieces/pack.



43625

43626

## Abrasive cloth assortment

Grain	Dimensions mm		43625	...	43626	...
10 each of 60/80/120/180/320	230 x 280	50 pcs.		200		200

Grain	Dimensions mm		Blue		Brown	
			43625	...	43626	...
40	230 x 280	50 pcs.		201		201
60	230 x 280	50 pcs.		202		202
80	230 x 280	50 pcs.		203		203
100	230 x 280	50 pcs.		204		204
120	230 x 280	50 pcs.		205		205
150	230 x 280	50 pcs.		206		206
180	230 x 280	50 pcs.		207		207
220	230 x 280	50 pcs.		208		208

Grain	Dimensions mm		Blue		Brown	
			43625	...	43626	...
280	230 x 280	50 pcs.				209
320	230 x 280	50 pcs.		210		210
400	230 x 280	50 pcs.		211		211
444	230 x 280	50 pcs.				213
600	230 x 280	50 pcs.				214
800	230 x 280	50 pcs.				215
999	230 x 280	50 pcs.				212

43680

## Waterproof sandpaper (sheets)

SIC

**STARCKE®****Design**

- Flexible
- Fully synthetic resin bond, waterproof
- Dense distribution

**Advantage**

- A short dip in water is sufficient, lengthy soaking is not necessary
- Use of water prevents the sandpaper from clogging quickly. This allows you to achieve an optimum service life

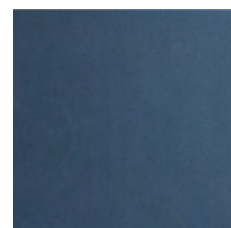
- No dust production
- Optimum surfaces

**Applications**

For wet sanding of primer, putty, filler, paint, optical lenses and gold jewellery.

**Quality**

**Abrasive grain silicon carbide (SIC).**



43680

Grain	Dimensions mm		43680	...
100	230 x 280	50 pcs.		201
120	230 x 280	50 pcs.		202
150	230 x 280	50 pcs.		203
180	230 x 280	50 pcs.		204
240	230 x 280	50 pcs.		205
280	230 x 280	50 pcs.		206
320	230 x 280	50 pcs.		207
360	230 x 280	50 pcs.		208

Grain	Dimensions mm		43680	...
400	230 x 280	50 pcs.		209
600	230 x 280	50 pcs.		210
800	230 x 280	50 pcs.		211
1000	230 x 280	50 pcs.		212
1200	230 x 280	50 pcs.		213
1500	230 x 280	50 pcs.		214
2000	230 x 280	50 pcs.		215
2500	230 x 280	50 pcs.		216

43692

## Riptape sheet strips

AO

**AVSM****Design**

- Sheet strips with mesh fabric

**Applications**

Universal abrasive for a variety of application areas. Suitable for grinding surfaces and profiles in hard

and soft wood, for sanding paint and varnish with a low contact pressure etc. Suitable for sanding block art. no. 43693 100.

**Quality**

**Abrasive grain synthetic corundum (AO).**

Grain	Dimensions mm		43692	...
60	140 x 67	50 pcs.		101
80	140 x 67	50 pcs.		102
100	140 x 67	50 pcs.		103
120	140 x 67	50 pcs.		104



43692

43693

## Sanding block

**AVSM****Design**

- Double hand sanding block
- Ergonomic shape
- High degree of flexibility
- VSM riptape strips
- KP131K can be fitted on each side

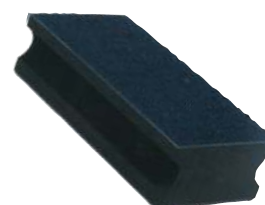
**Applications**

Suitable for a variety of applications. Suitable for sheet strips for sanding block art. no. 43692 101–104.

**Quality**

**Medium-hard, high-quality cellular rubber.**

L x W mm	43693	...
140 x 67		100



43693

43696

## Sanding cork

**Design**

Made of top-quality, non-porous, compressed sanding cork.

**Applications**

For re-tensioning and holding sandpaper. The ideal hand tool for workshops and factories.

L x W x H approx. mm	43696	...
115 x 60 x 24		101



43696

43697

## Special sanding block (soft PVC)

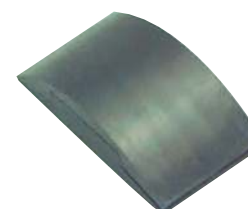
**Design**

Black, high quality, with vulcanised holding pins, a handy shape and recessed handles.

**Applications**

For clamping abrasive cloth and paper.

L x W x H mm	43697	...
120 x 70 x 32		101



43697

43698

## Sanding sponges

AO

**3M****Design**

3M Handfit sanding sponges are single-sided soft pads in economical and ergonomic palm size for machining profiled workpieces.

**Design features:** Polyurethane foam, synthetic bond.

**Applications**

Universal sanding sponge for wood and paint sanding applications.

**Quality**

**Abrasive grain synthetic corundum (AO).**



43698

Grain	Coating	Dimensions mm	43698	...
Medium/P 60	1-sided	90 x 100 x 5		101
Fine/P 100	1-sided	90 x 100 x 5		102
Superfine/P 220	1-sided	90 x 100 x 5		103

43700

## Sanding sponges

AO

SIC

**3M****Design**

Extremely adaptable. Foam underlay, fully synthetic resin bond.

**Applications**

For fine work on wood, filler and painted surfaces. Particularly suitable for difficult-to-access and profiled surfaces.

Grain	Abrasive mineral	Coating	Dimensions mm	43700	...
Fine/P 100	Synthetic corundum	4-sided	68 x 100 x 26		101
Medium/P 60	Synthetic corundum	4-sided	68 x 100 x 26		102
Fine/P 100	Silicon carbide	2-sided	98 x 125 x 13		103



43700

43699

## Universal sanding blocks

SIC

**Design**

In an easy-to-handle shape, elasticated rubber

interspersed with abrasive grain, chemically neutral, silicon-free, largely resistant to solvents, acids and alkalis. Can be used dry and wet. Free from hazardous materials, making it safe and environmentally friendly.

**Applications**

For buffing, smoothing, finishing, removing and de-rusting. For removing layers of oxidation on welding seams and solder joints. Suitable for all metals, woods and plastics. The ideal hand tool for workshops and factories.

**Quality**

**Silicon carbide abrasive grain (SIC).**

Grain	L x W x H mm	43699	...
60 Coarse	80 x 50 x 20		101
120 Medium	80 x 50 x 20		102
240 Fine	80 x 50 x 20		103



43699

43670

## Sanding blocks siasponge Block hard and Block soft

AO

**Design**

- Easy to use
- Grain coating on all four sides and around the edges
- Adapts perfectly to all seams, edges and profiles
- Easy to clean
- Can be used several times
- Grain type: Corundum
- Binder: elastic

**Advantage**

- Colour coding
- Minimal clogging
- Can be used wet and dry
- Coated on four sides
- Uniform pressure distribution

**Applications**

- For easy and rapid surface machining
- For universal use
- Sanding wood, metal or plastic before applying colour
- Fine sanding of fillers
- Intermediate sanding of paint and varnish
- Sanding seams and gentle curves

**43670 100-105****siasponge block, hard****Design**

- Pressure is applied more firmly to the entire surface of the workpiece
- Focus is on material removal
- Carrier material/underlay: Hard PU (polyurethane)

**43670 200-203****siasponge block soft****Design**

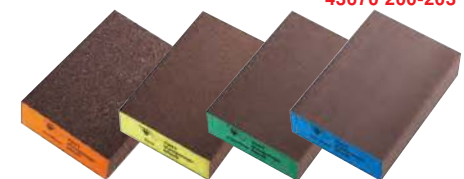
- Adapts better to the shape of the workpiece
- Focus is on finish
- Carrier material/underlay: Soft PU (polyurethane)

**43670 104-105****Combination blocks****Applications**

The specially designed shape guarantees ease of use in instances where only one side needs to be ground or in round profiles.



43670 100-103



43670 200-203



43670 104-105

Grain	Foam colour	L x W x H mm		Hard block 43670	...	Soft block 43670	...
Coarse	Red	98 x 69 x 26	10 pcs.		100		
Medium	Orange	98 x 69 x 26	10 pcs.		101		200
Fine	Yellow	98 x 69 x 26	10 pcs.		102		201
Superfine	Green	98 x 69 x 26	10 pcs.		103		202
Ultrafine	Blue	98 x 69 x 26	10 pcs.				203
Medium	Orange	98 x 69 x 26	10 pcs.	Combination block	104		
Fine	Yellow	98 x 69 x 26	10 pcs.	Combination block	105		

**Design**

- Extra-soft carrier material
- Grain coating on two sides
- Adapts perfectly to all profiled and rounded workpieces
- Does not tend to clog even when used in filler, varnish and paint applications
- Perfect, uniform grinding finish without scratches
- Can also be used damp for specific applications
- Grain type: Corundum
- Binder: elastic
- Carrier material/underlay: PU (polyurethane)

**Advantage**

- Colour coding
- Does not sand through paint or lacquer
- Adapts perfectly to the workpiece
- Minimal clogging
- Can be used several times

**Applications**


- For maximum adaptability
- Sanding wood, metal or plastic before applying colour
- Fine sanding of fillers
- Grinding flat surfaces, rounded areas and profiles
- Grinding without changing the surface shape

**Quality**

**Abrasive grain synthetic corundum (AO).**

43670 300-303



Grain	Foam colour	L x W x H mm		43670	...
Medium	Orange	120 x 98 x 13	10 pcs.		300
Fine	Yellow	120 x 98 x 13	10 pcs.		301
Superfine	Green	120 x 98 x 13	10 pcs.		302
Ultra-fine	Blue	120 x 98 x 13	10 pcs.		303

**Info****siasponge****Advantages of foam as backing material****Maximum form adaptability**

Their ability to adapt to shapes makes foam abrasives the perfect choice for difficult-to-access and profiled surfaces. Uneven surfaces such as profiles, round rods and curved shapes are the ideal application for siasponge. The sophisticated shapes of the siasponge block series make machining seams and curves easier.

**The benefit for you**

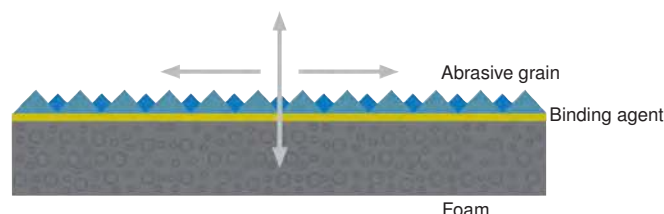
- Perfect adaptation to the workpiece, even in difficult-to-access areas
- Foam distributes pressure for perfect surface results
- Impossible to sand through paint layers due to excessive contact pressure

**Low clogging thanks to 3D effect**

A combination of soft carrier material and flexible grain bond minimises clogging of the foam abrasive. The sanding dust is continuously pushed out of the areas between the grains. The clogging behaviour has been further improved with the use of more elastic binding agents and an optimised scatter process along with improved 3D embedding of the abrasive grain. This means the pad can be reused several times.

**The benefit for you**

- Longer service life due to lower clogging
- Can be reused multiple times

**Benefits for the user:**

- Grain can be clearly recognised through colour coding
- Highly flexible abrasive
- Grain side does not discolour
- Corners of sanding pad do not warp or fold
- No pungent solvent smell
- Improved grain consistency for a uniform grinding finish
- Suitable for a range of uses on plastics, compound materials, paints, varnishes, old coatings, fillers and primers

**Application range:**

Paint and varnish  
Soft pad: Dry sanding  
Soft disc: Dry, damp, wet sanding



**BOSCH**

43688 200

Sanding sheet set for orbital sanders

**Design**- **Bosch Expert for Wood and Paint**

- Comprises 10 sheets: 4x 60 grain, 4x 120 grain, 2x 180 grain

- 93 x 186 mm

- Perforated

- With riptape layer

**Applications**

The expert on sanding all types of wood, wood materials, paints and varnishes. Suitable for common orbital sanders.

43688 201-207

**Design**

- 93 x 186 mm

- Perforated

- With riptape layer

43688 300

**Sanding sheet set****Design**

- Comprises 10 sheets:

4x 60 grain, 4x 120 grain, 2x 180 grain

- 115 x 230 mm

- Perforated

- With riptape layer

43688 301-307

**Design**

- 115 x 230 mm

- Perforated

- With riptape layer

43689 201-207

**Design**

- 93 x 230 mm

- Non-perforated

- Without riptape layer

43689 301-307

**Design**

- 115 x 280 mm

- Non-perforated

- Without riptape layer

43689 301



Perforated		93 x 186 mm		115 x 230 mm	
Grain	Pack = pieces	43688	...	43688	...
4x60, 4x120, 2x180	-	200		300	
40	10	201		301	
60	10	202		302	
80	10	203		303	
100	10	204		304	
120	10	205		305	
180	10	206		306	
240	10	207		307	

Unperforated		93 x 230 mm		115 x 280 mm	
Grain	Pack = pieces	43689	...	43689	...
40	10	201		301	
60	10	202		302	
80	10	203		303	
100	10	204		304	
120	10	205		305	
180	10	206		306	
240	10	207		307	

**BOSCH****Design**

With riptape fastening for quick sheet change and suction holes for internal dust extraction.

**Applications**Suitable for Bosch **palm sanders**, Metabo, Makita riptape system. For quick, high-volume material removal, outstanding service life. For all wood types, chipboard and construction panels. Also suitable for metal.**Quality**

Corundum with synthetic resin bond.



43686

Grain	Pack = pieces	43686	...
40	5	101	
60	5	102	
80	5	103	

Grain	Pack = pieces	43686	...
120	5	104	
60/120/240	6	105	
(2 each of 60, 120 and 240 grain)			

**AVSM****Design**

- Strong paper

- **With riptape layer**

- Stearate additive above 60 grain for better chip removal and to prevent premature clogging

**Applications**Suitable for **random orbital sanders** from AEG, Bosch, DeWalt, Metabo, Milwaukee.

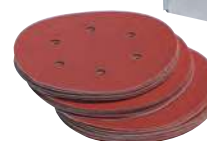
For paint, varnish, fine and polyester putty, plastic, primer and much more.

**Quality**

Abrasive grain synthetic corundum (AO).



43684



Grain	Stearate additive	Pack = pieces	8 hole Ø 125 mm	...	6 hole Ø 150 mm	...
			43684		43684	
40	-	50		301		201
60	x	50		302		202
80	x	50		303		203
120	x	50		304		204
240	x	50		306		206

43681

## Riptape sanding discs

A0

## BOSCH

## Design

- Perforated
- With riptape layer
- Calcium stearate coating minimises premature clogging

## Applications

For sanding wood, paint, varnish, putty.

## Quality

Abrasive grain synthetic corundum (AO).

43681 401-405

## Applications

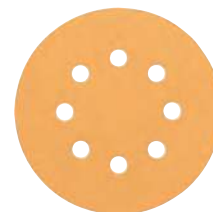
8 holes, suitable for **random orbital sanders** from Bosch, DeWalt, Festool, Makita, Metabo.

43681 501-505

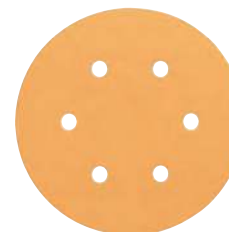
## Applications

6 holes, suitable for **random orbital sanders** from AEG, Bosch, DeWalt, Metabo, Milwaukee.


43681 401-405



43681 501-505



Grain	Pack = pieces	8 hole Ø 125 mm		6 hole Ø 150 mm	
		43681	...	43681	...
40	50	401		501	
60	50	402		502	
80	50	403		503	
120	50	404		504	
240	50	405		505	

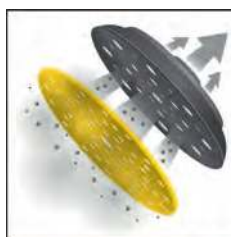
43685

## Riptape intermediate disc for random orbital sanders



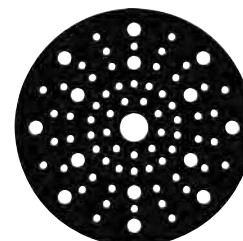
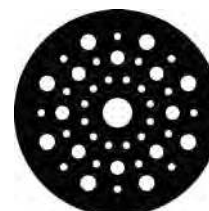
## Applications

Multi-hole riptape intermediate disc for random orbital sanders with Ø 125 mm and Ø 150 mm. The protective disc with siafast riptape system protects the installed support plate from unintentional damage. The new multi-hole pattern makes the disc suitable for universal use.



43685 101

43685 102



Ø mm	Number of holes	For disc Ø mm		43685	...
123	45	125	2 pcs.	101	
147	80	150	2 pcs.	102	

# BOSCH

## Design

### - Universal support plate compatible with all common brands

- The new multi-hole system allows the plate to be used with all common hole patterns
- In contrast to conventional hole patterns, the plate allows better extraction and therefore faster removal along with extended disc service life
- Achieves 35% higher material removal and three-times longer service life in combination with grinding discs art. no. 43682 and 43683

### Compatible brands:

e.g. Bosch, Festool, Makita, DeWalt, Mirka, 3M, Dynabrade.

### Note:

The support plate can also be protected from damage with intermediate disc art. no. 43685.

### 43687 301+101+201

#### Soft/grey

#### Applications

As preparation for intermediate grinding or finishing for high surface quality. For pronounced curvature and waves.

### 43687 302+102+202

#### Medium/black

#### Applications

Universal use.

Also particularly for intermediate grinding to prepare a painted surface. For flat and curved surfaces.

### 43687 303+103+203

#### Hard/blue

#### Applications

Coarse grinding, e.g. of paint, filler, plaster and unprocessed natural wood. For flat surfaces and narrow areas, high edge strength.

### 43687 301-303

#### Applications

Suitable for Bosch

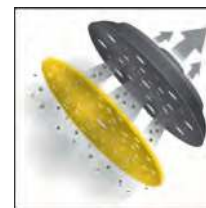
GEX 150 AC,

GEX 150 Turbo,

GEX 125-150 AVE.

#### Scope of delivery:

- 1 multi-hole sanding pad
- 1 M8 screw



### 43687 101-203

#### Applications

Suitable for 5/16-inch thread, e.g. 3M, Mirka and M8 thread, e.g. Festool, Makita, DeWalt.

#### Scope of delivery:

- 1 multi-hole sanding pad
- 1 5/16-inch screw
- 2 washers
- 1 M8 screw
- 1 Festool/Makita adapter
- 1 DeWalt adapter



43687 301



43687 101



43687 201



43687 302



43687 102



43687 202



43687 303



43687 103



43687 203



Ø mm	Suitable for	Version	Application	Colour	43687	...
150	Bosch	Soft	Finishing	Grey		301
150	Bosch	Medium	Intermediate sanding	Black		302
150	Bosch	Hard	Coarse sanding	Blue		303
125	Various manuf.	Soft	Finishing	Grey		101
125	Various manuf.	Medium	Intermediate sanding	Black		102
125	Various manuf.	Hard	Coarse sanding	Blue		103
150	Various manuf.	Soft	Finishing	Grey		201
150	Various manuf.	Medium	Intermediate sanding	Black		202
150	Various manuf.	Hard	Coarse sanding	Blue		203

## Info

### Dust-free grinding with the Bosch multi-hole pads

#### BOSCH

The new Bosch multi-hole pads offer state of the art dust extraction

##### Pad compatibility

Unique feature: One pad, compatible with all common brands, such as Bosch, Festool, Makita, DeWalt, Mirka, 3M, Dynabrade and Rupes

##### All for one:

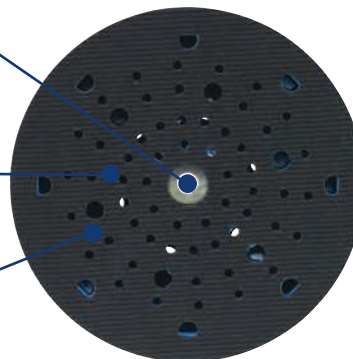


##### Versatile hole pattern

Suitable for all disc hole patterns and riptape types

##### Dust extraction

Significantly better dust extraction than the current 6-/8-hole standard pads from Bosch



## Info

### Product profile: Bosch multi-hole pad

#### Soft



For finishing and fine sanding in preparation for an intermediate or final coat of paint with a high-quality surface, pronounced curves and arcs

#### Medium



For intermediate sanding to prepare a painted surface and for universal use on flat and wavy surfaces

#### Hard



For coarse sanding, e.g. of paint, filler, gypsum and untreated natural wood, for flat surfaces and narrow edges, high edge strength

## Info

### Product range: Bosch multi-hole pad

#### BOSCH

Available in various diameters



Orbital sander		GEX 150 AC GEX 150 Turbo GEX 125-150 AVE	5/16 inch: 3M, Mirka, Dynabrade, Rupes	5/16 inch: 3M, Mirka, Dynabrade, Rupes M8: Festool, Makita, DeWalt
<b>Diameter</b>		<b>150 mm</b>	<b>125 mm</b>	<b>150 mm</b>
<b>Soft</b>	HHW no.	43687 301	43687 101	43687 201
	Bosch no.	2 608 601 568	2 608 601 333	2 608 601 336
<b>Medium</b>	HHW no.	43687 302	43687 102	43687 202
	Bosch no.	2 608 601 569	2 608 601 332	2 608 601 335
<b>Hard</b>	HHW no.	43687 303	43687 103	43687 203
	Bosch no.	2 608 601 570	2 608 601 331	2 608 601 334

**ΔVSM****Design**

Synthetic corundum layer, synthetic resin bond, mesh fabric layer on rear.

**Applications**

For support plate art. no. 43760.

**Quality**

Abrasive grain synthetic corundum (AO).

**Note:**

Quick disc change, no screws, no glue. Pull disc off support plate, press new disc centrally onto plate.

Grain		115 mm Ø		125 mm Ø	
		43748	...	43749	...
40	50 pcs.		101		101
60	50 pcs.		102		102
80	50 pcs.		103		103
120	50 pcs.		104		104



43748 - 43749

Sanding/cutting tools

**ΔVSM****Design**

- Aggressive and low-temperature grinding

**Self-sharpening effect:**

- Higher, more consistent material removal
- Significantly longer service life
- Significantly shorter machining times

**Additional active grinding layer TOP SIZE:**

- Ideal for machining stainless and heat-resistant steels
- Cutting performance is several times higher
- Creates an optimum surface finish

**Applications**

VSM CERAMICS grinding discs made of robust polyester cloth are suitable for surface polishing of high-alloy steel, nickel-based alloys, titanium alloys, brass and bronze etc. Suitable for support plate, art. no. 43760.

**Quality**

Ceramic abrasive grain (CER) with TopSize coating.



43750

Ø mm	Grain	Max. permitted rotation speed rpm	Recommended rotation speed rpm		43750	...	43750	...
115	60	5,300	5,000	50 pcs.		201		
115	80	5,300	5,000	50 pcs.		202		
115	100	5,300	5,000	50 pcs.		203		
115	120	5,300	5,000	50 pcs.		204		
125	60	4,850	4,600	50 pcs.				301
125	80	4,850	4,600	50 pcs.				302
125	100	4,850	4,600	50 pcs.				303
125	120	4,850	4,600	50 pcs.				304

**ΔVSM****Design**

Mushroom head fabric on adhering side which holds the riptape disc secure even under heavy load.

**Applications**

For M14 connecting thread.

For riptape sanding discs, art. nos. 43748–43750.

Ø mm	43760	...
115		101
125		102



43760



## Fibre discs

### 43701 - 43703

### Fibre discs, synthetic corundum

AO

#### AVSM

##### Design

Vulcanised fibre disc, with synthetic corundum layer, fully synthetic resin bond, Cross hole, 22 mm.

##### Applications

For coarse and fine sanding on level and wavy parts. Can be used on high-performance angle grinders (max. working speed 80 m/sec.) in conjunction with a support plate, art. nos. 43740 and 43744.

##### Quality

Abrasive grain synthetic corundum (AO).



43701 - 43703

Grain	115 mm Ø	125 mm Ø	180 mm Ø
	43701	43702	43703
16 50 pcs.		101	101
24 50 pcs.		102	102
36 50 pcs.		104	104
40 50 pcs.		100	100
50 50 pcs.		105	105

Grain	115 mm Ø	125 mm Ø	180 mm Ø
	43701	43702	43703
60 50 pcs.		106	106
80 50 pcs.		107	107
100 50 pcs.		108	108
120 50 pcs.		109	109
150 50 pcs.		110	110

### 43728 - 43730

### Fibre discs, synthetic corundum

TopSize

AO

#### AVSM

##### Design

Very strong and resistant vulcanised fibre disc, synthetic corundum layer, full synthetic resin with TOP SIZE additional active grinding layer. Low-temperature grinding, high chip removal, long service life.

##### Applications

For manual pre-, intermediate and final sanding. Grinding of alloyed rust-, acid- and heat-resistant steel, stainless steel containers. Use on all pneumatic and electric disc sanders and angle grinders in conjunction with a support plate, art. no. 43740 and 43744.

##### Quality

Synthetic corundum abrasive grain (AO) with Topsize coating.



43728 - 43730

Grain	115 mm Ø	125 mm Ø	180 mm Ø
	43728	43729	43730
36 50 pcs.		101	101
50 50 pcs.		098	098
60 50 pcs.		102	102

Grain	115 mm Ø	125 mm Ø	180 mm Ø
	43728	43729	43730
80 50 pcs.		103	103
100 50 pcs.		104	104
120 50 pcs.		105	105

### 43734 - 43736

### High-performance zirconia alumina fibre discs

ZA

#### AVSM

##### Design

Very strong and resistant vulcanised fibre disc, zirconia alumina, normal scatter, fully synthetic resin bond. Low-temperature grinding, long service life, aggressive grinding performance even with low contact pressure.

##### Applications

For manual pre-, intermediate and final sanding. Grinds unalloyed steels, grey cast iron, non-ferrous metals and much more. Use on all pneumatic and electric disc sanders and angle grinders in conjunction with a support plate, art. no. 43740 and 43744.

##### Quality

Abrasive grain, zirconia alumina (ZA).



43734 - 43736

Grain	115 mm Ø	125 mm Ø	180 mm Ø
	43734	43735	43736
24 25 pcs.		101	101
36 25 pcs.		102	102
40 25 pcs.		103	103

Grain	115 mm Ø	125 mm Ø	180 mm Ø
	43734	43735	43736
60 25 pcs.		104	104
80 25 pcs.		105	105

### 43704

### Ceramic abrasive grain fibre discs

TopSize

CER

#### AVSM

##### Design

- Special grinding technology for aggressive and cool grinding
- VSM CERAMICS abrasive grain:
- Continually self-sharpening
- Very high material removal rate
- Long service life

##### Additional active grinding layer TOP SIZE:

- Cutting performance is several times higher
- Discolouration of the workpiece is prevented

##### Applications

In manual applications, the VSM CERAMICS fibre discs are suitable for flat grinding of high-alloy steels, nickel-based alloys, titanium alloys, brass and bronze etc.

##### Quality

Ceramic abrasive grain with TopSize coating.



43704

Grain	115 mm Ø	125 mm Ø
	43704	43704
40 50 pcs.		101
60 50 pcs.		102
80 50 pcs.		103

**AVSM****Design**

- Abrasive grain with optimised **self-sharpening effect**: The micro-crystalline structure of the ceramic abrasive grain allows it to wear down in a controlled manner during grinding
- Aggressive cutting behaviour
- Low working temperatures
- Significantly longer service life

**Additional active grinding layer TOP SIZE:**

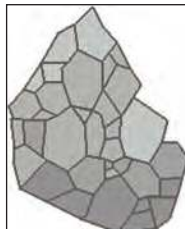
- Ideal for machining stainless and heat-resistant steels
- Cutting performance is several times higher
- Creates an optimum surface finish

**Applications**

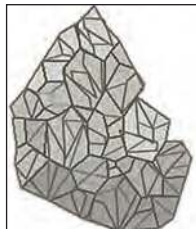
The VSM CERAMICS Plus fibre discs are suitable for flat grinding of high-alloy steels, nickel-based alloys, titanium alloys, brass and bronze etc.

**Quality**

**Ceramic abrasive grain with TopSize coating.**




Standard ceramic abrasive grain




VSM CERAMICS PLUS



43706 - 43708

Grain		115 mm Ø		125 mm Ø		180 mm Ø	
		43706	...	43707	...	43708	...
24	50 pcs.			201		201	201
36	50 pcs.			202		202	202
40	50 pcs.			203		203	203
50	50 pcs.			204		204	204

Grain		115 mm Ø		125 mm Ø		180 mm Ø	
		43706	...	43707	...	43708	...
60	50 pcs.			205		205	205
80	50 pcs.			206		206	206
120	50 pcs.			207		207	207

**3M****Design**

- To make grinding processes more efficient, 3M developed the Cubitron™ II generation and designed high performance abrasive grain in a defined, geometric shape
- The very sharp cutting surface boasts an unprecedented removal rate and service life
- The benefits of Cubitron™ II discs are felt in all metalworking operations, including steel construction, container construction, welding shops, foundries and forges
- They replace and improve on conventional fibre discs as well as surface sanding tasks conducted by roughing and flap discs
- Cross hole, 22 mm

**Applications**

- Weld seam preparation/removal
  - Machining cast parts
  - Chamfering before welding
  - General removal tasks
- Can be used on high-performance angle grinders (max. working speed 80 m/sec.) in conjunction with a support plate, art. no. 43717.

**Quality**

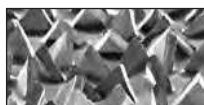
**Ceramic abrasive grain (CER).**

**43715****982C Cubitron™ II****Applications**

On steel, tool steel and non-ferrous metals.

**43716****987C Cubitron™ II****Applications**

A binding additive reduces the grinding temperature (grinding aid). The resulting cooler grind sets new boundaries in particular for stainless steels with low thermal conductivity, nickel alloys and titanium.



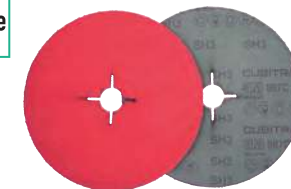
Abrasive Grain  
Cubitron™ II



Conventional  
ceramic abrasive  
grain



43715



43716



43717

Grain	Ø mm	982C		987C		Support plate	
		43715	...	43716	...	43717	...
36	115			101		101	
36	125			102		102	
36	178			103		103	
60	115			201		201	
60	125			202		202	
60	178			203		203	
80	115			301		301	
80	125			302		302	
80	178			303		303	
-	115						101
-	125						102
-	178						103

**43717****Support plate  
Applications**

The support plate has been specially developed for the Cubitron™ fibre discs (art. no. 43715–43716) and makes an impressive contribution to the final result. In combination with an angle grinder and the 3M 982C and 987C fibre discs, this newly designed, ribbed support plate achieves double the removal rate of conventional products (actual grinding results depend on the respective application process).

43718

## Ceramic abrasive grain fibre discs VICTOGRAIN-COOL



CER



### Design

For extremely aggressive grinding with maximum removal rate on steel materials, hard materials and those with low thermal conductivity, while maintaining an extremely long service life. Continuous ultimate performance thanks to the VICTOGRAIN abrasive grain. Active grinding additives in the coating noticeably increase the removal rate, prevent clogging and facilitate cooler grinding.

### Advantage

- Constant maximum removal rate with an extremely long service life and cool grinding

### Machinable materials:

Nickel-based alloys (e.g. Inconell and Hasteloy), non-ferrous metals, highly heat-resistant materials, hard non-ferrous metal, stainless steel (INOX), steel, steel casting, hardened and tempered steels above 1200 N/mm<sup>2</sup> (above 38 HRC).

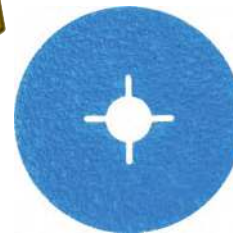
### Applications

- Smoothing
- Deburring
- Surface machining
- Edge machining
- Welding seam machining


### Quality

Ceramic abrasive grain (CER).

NEW



43718

Ø mm	Grain	Hole Ø mm	Max. permitted rotation speed rpm		43718	...
115	36	22	13,300	25 pcs.		101
125	36	22	12,200	25 pcs.		201

43740

## Support plate

### Design

- Support plate with good contour adaptation due to high flexibility

### Advantage

- Particularly suitable for components with contours/rounded areas

### Applications

For use on angle grinders with an M14 thread.

For fibre disc Ø mm	Chuck	Ø mm	43740	...
115	M14	112		101
125	M14	125		102
180	M14	178		103



43740

43744

## Turbo support plate

### Design

- High performance support plate with open segment structure/cooling fins for active cooling of the workpiece surface
- Boasts cool grinding and high removal rate

### Advantage

- Open segment structure removes heat from the machining process

- Fibre disc provides consistent removal and increased service life
- Extremely dimensionally stable, particularly in flat grinding
- Particularly suitable for machining stainless steel

### Applications

For use on angle grinders with an M14 thread.

For fibre disc Ø mm	Clamping nut	Ø mm	43744	...
115	M14	112		101
125	M14	125		102



43744

**3M****Design**

With fabric underlay, removable centre core for exact positioning and holding the disc on the support plate, which significantly reduces vibrations.

**Applications**

For reducing surface roughness after grinding, removing discolouration and finishing welding seams. Only for angle grinders with riptape support plates, see art. no. 43722.

**Quality**

Abrasive grain synthetic corundum (AO).

Ø mm	Grain	Max. permitted rotation speed rpm	Recommended rotation speed rpm		43720	...	43720	...
115	Extra coarse/P 50	5,300	3,300	20 pcs.		101		
115	Extra coarse/P 80	5,300	3,300	20 pcs.		102		
115	Coarse/P 100-120	5,300	3,300	20 pcs.		103		
115	Medium/P 180-220	5,300	3,300	20 pcs.		104		
115	Fine/P 360	5,300	3,300	20 pcs.		105		
125	Extra coarse/P 50	4,850	300	20 pcs.				201
125	Extra coarse/P 80	4,850	300	20 pcs.				202
125	Coarse/P 100-120	4,850	300	20 pcs.				203
125	Medium/P 180-220	4,850	300	20 pcs.				204
125	Fine/P 360	4,850	300	20 pcs.				205



43720

## 43722

## Riptape support plate with centring

**3M****Design**

With centring. Adhering side with double T-hook system for a secure hold of riptape fleece discs.

**Applications**

For M14 connecting thread.

For riptape fleece discs, art. no. 43720.

Ø mm	43722	...
115		101
125		201



43722

## 43754 - 43755

## Abrasive fleece discs

**Design**

Compact, intensive-grinding fleece design without central hole.

**Applications**

For surface finishing, fine work, light deburring work and sanding small defects out of metal surfaces.

**Recommended circumferential**

**speed: 10–25 m/s.**

For support plate art. no. 43745.

Grain	Recommended Circumferential speed m/s		115 mm Ø		125 mm Ø	
			43754	...	43755	...
100	10–25	10 pcs.		101		101
280	10–25	10 pcs.		102		102



43754 - 43755

## 43745

## Riptape support plate

**Design**

With special double-hook riptape fabric.

**Applications**

For M14 connecting thread.

For riptape sanding discs, art. nos. 43754–43755.

Ø mm	43745	...
112		101
123		102



43745

## 43761 - 43762

## Angle grinder mop, synthetic corundum

**Design**

Synthetic resin bond. Quick, simple clamping with integrated M14 female thread.

**Applications**

For all common angle grinders. For grinding, deburring, dressing steel, stainless steel, varnish, filler, paint, plastic, wood. Ideal for machining difficult-to-access areas. Not approved for wet sanding.

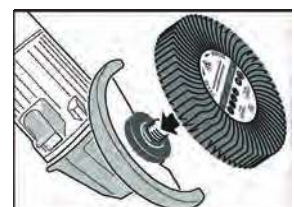
**Quality**

Abrasive grain synthetic corundum (AO).

Grain	Width mm	Max. permitted rotation speed rpm	Highest working speed m/s	115 mm Ø		125 mm Ø	
				43761	...	43762	...
40	20	13,300	80		101		
60	20	13,300	80		102		
80	20	13,300	80		103		
40	20	12,200	80				101
60	20	12,200	80				102
80	20	12,200	80				103



43762





## Segmented grinding discs

43766 - 43769

### Segmented grinding discs, synthetic corundum

TopSize

AO



Performance line A-COOL SG INOX + ALU

#### Advantage

- Generates less heat in the workpiece than other flap discs
- The active grinding coating means the abrasive does not clog on materials such as soft aluminium

#### Applications

Suitable for surface sanding, machining welding seams, chamfering and deburring. For aluminium, only 40 and 60 grain should be used. Can be used for stainless steel (INOX), aluminium, other non-ferrous metals.

#### Quality

Synthetic corundum abrasive grain (AO) with active grinding, cooling top layer (COOL).

#### Note:

Does not contain iron, sulphur or chlorine fillers.

43766 - 43767

#### Design

- Conical shape

#### Recommendation:

**Grain 40:** Aluminium, soft metals, wood and plastics.

**Grain 60:** high-alloyed, stainless, heat-resistant and tempered steels.

**Grain 80:** highly heat-resistant alloys.

43768 - 43769

#### Design

- Flat shape

#### Recommendation:

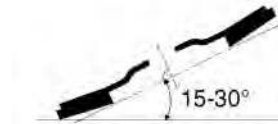
**Grain 40:** Aluminium, unalloyed and low-alloyed steels, low-strength stainless steels.

**Grain 60:** high-alloyed, stainless, heat-resistant and tempered steels.

**Grain 80:** highly heat-resistant alloys.

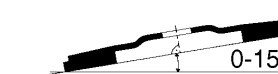


43766 - 43769



43766 - 43767

43768 - 43769



Ø mm	Grain	Max. permitted rotation speed rpm		Conical		Conical		Flat		Flat	
				43766	...	43767	...	43768	...	43769	...
115	40	13,300	10 pcs.		101			101			
115	60	13,300	10 pcs.		102			102			
115	80	13,300	10 pcs.		103			103			
125	40	12,200	10 pcs.				101				101
125	60	12,200	10 pcs.				102				102
125	80	12,200	10 pcs.				103				103

43756 - 43757

### Segmented grinding discs, Zirconia alumina/corundum

ZA



#### Design

**Diagonal form.** Pitch angle approx. 12°. Base disc made of fibreglass cloth. Zirconia alumina/corundum segments attached in a uniform pattern. The arrangement of the segments ensures a

high level of flexibility and uniform, high grinding performance.

#### Applications

Suitable for metalworking, surface grinding in particular.

Grain	Hole Ø mm	Max. permitted rotation speed rpm	Highest working speed m/s		115 mm Ø		125 mm Ø	
					43756	...	43757	...
40	22.2	13,300	80	10 pcs.		101		
60	22.2	13,300	80	10 pcs.		102		
80	22.2	13,300	80	10 pcs.		103		
40	22.2	12,200	80	10 pcs.				101
60	22.2	12,200	80	10 pcs.				102
80	22.2	12,200	80	10 pcs.				103



43756 - 43757



43741

### HighTech zirconia fabric segmented grinding disc

ZA



#### Design

- HighTech zirconia fabric for tremendous grinding performance on steel/stainless steel
- Self-trimming while grinding (grind to the last grain!)
- Carrier plate dampens noise and vibration while absorbing heat (natural fibre)
- Backing disc made from natural fibre compound protects the environment and the user (CO<sub>2</sub> neutral)

- Visco-elastic carrier plate for optimum workpiece adaptation and clean grinding finish
- Slightly angled (5° angle)
- No risk of injury from splintered fibres
- Markedly cuts down on required work steps due to high performance

#### Applications

Quality flap disc for machining steel and stainless steel.

#### Quality

Abrasive grain, zirconia alumina (ZA).

Grain	Max. permitted rotation speed rpm		115 mm Ø		125 mm Ø	
			43741	...	43741	...
40	13,200	10 pcs.		101		
60	13,200	10 pcs.		102		
80	13,200	10 pcs.		103		
120	13,200	10 pcs.		104		
40	12,200	10 pcs.				201
60	12,200	10 pcs.				202
80	12,200	10 pcs.				203
120	12,200	10 pcs.				204



43741



Can be trimmed to the last millimetre!





**43770 - 43771**
**Segmented grinding discs, zirconia alumina**
**ZA**
**ATORN®**
**Design**

**Diagonal form. Pitch angle approx. 12°.** Cool grinding segmented grinding disc with a **bevelled fibreglass cloth carrier**. Optimum cutting performance with an excellent service life due to additional high-quality **zirconia alumina**. The disc retains its high strength even when grinding on the edges.

**Applications**

Also suitable for machining wavy surfaces and rounded areas in steel, stainless steel, cast iron and non-ferrous metal. Wood, plastic, paint and filler can also be machined. The workpiece cannot be damaged by the carrier.

**Quality**

**Abrasive grain, zirconia alumina (ZA).**

**Note:**

The diagonal shape allows grinding of difficult-to-reach areas with a working angle of 15–20°.

**43770 - 43771**


Grain		115 mm Ø		125 mm Ø	
		43770	...	43771	...
40	10 pcs.		101		101
60	10 pcs.		102		102
80	10 pcs.		103		103


**43772 - 43773**
**Zirconia alumina segmented grinding disc, plastic plate**
**ZA**
**ATORN®**
**Design**

**Slightly curved shape for a variety of applications.**

**Additional cooling materials for cooler grinding.**

50% higher removal rate, meaning less time is required. **New, food-safe backing plate** can be used (no more glass dust particles).

Circumferential speed 80 m/s.

**Applications**

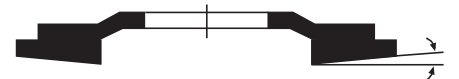
For steel, stainless steel, non-ferrous metals, cast etc.

**Quality**

**Abrasive grain, zirconia alumina (ZA).**

**43772 - 43773**


Grain		115 mm Ø		125 mm Ø	
		43772	...	43773	...
40	10 pcs.		101		101
60	10 pcs.		102		102
80	10 pcs.		103		103
120	10 pcs.		104		104


**43776 - 43778**
**Segmented grinding discs, zirconia alumina**
**ZA**
**ATORN®**
**Design**

**Slightly curved shape. Pitch angle approx. 8°.**

Low noise level, uniform grinding finish until worn out, low setup times, low-temperature grinding.

Optimum use of grinding tool on mould parts and flat surfaces. Multi-layer, **straight fibreglass plate**, safe and maintains shape, **zirconia alumina segments** uniformly attached. The arrangement ensures a high degree of flexibility with high grinding performance.

**Applications**

For all angle grinders. For coarse and intermediate grinding when machining welding seams. For deburring, de-rusting, fettling, internal grinding of containers. For iron, normal steel, stainless steel, alloyed steels, non-ferrous metals, plastics, varnishes, paints.

**Quality**

**Abrasive grain, zirconia alumina (ZA).**

**Note:**

The curved shape allows grinding of difficult-to-reach areas with a working angle of 15–20°.

**43776 - 43778**


Grain		115 mm Ø		125 mm Ø		178 mm Ø	
		43776	...	43777	...	43778	...
40	10 pcs.		101		101		101
60	10 pcs.		102		102		102
80	10 pcs.		103		103		103



## Segmented grinding discs

43782 - 43783

### Segmented grinding discs, zirconia alumina

ZA

**ATORN®**

#### Design

**Straight design.** Low noise level, uniform grinding finish until worn out, low setup times, low-temperature grinding. Optimum use of grinding tool on mould parts and flat surfaces. Multi-layer, **straight fibre-glass plate**, safe and maintains shape, **zirconia alumina segments** uniformly attached. The arrangement ensures a high degree of flexibility with high grinding performance.

#### Applications

For all angle grinders. For flat grinding, surface grinding and machining welding seams. For deburring, de-rusting, fettling, internal grinding of containers. For iron, normal steel, stainless steel, alloyed steels, non-ferrous metals, plastics, varnishes, paints.

#### Quality

**Abrasive grain, zirconia alumina (ZA).**

43782 - 43783



Grain		115 mm Ø		125 mm Ø	
		43782	...	43783	...
40	10 pcs.		101		101
60	10 pcs.		102		102
80	10 pcs.		103		103

43789

### Segmented grinding discs, zirconia alumina

ZA

**PFERD**



**POLIFAN Z SG POWER**

#### version

The POLIFAN Z SG POWER flap disc boasts aggressive machining performance and an outstanding service life, making it highly cost effective. The best conventional flap disc for steel.

#### Advantage

- Fast progress and maximum efficiency due to aggressive cutting performance
- Maximum aggressiveness over the entire service life

#### - Cutting performance ST37 up to 5 kg

- Outstanding service life, meaning fewer tool changes

#### Applications

- Steel
- Stainless steel/INOX

#### Machining tasks:

- Welding seam machining
- Chamfering
- Deburring

#### Quality

**Abrasive grain, zirconia alumina (ZA).**

#### Note:

*We recommend at least a 1200 watt angle grinder.*

**NEW**

43789 101-104



43789 201-204



Grain	Hole Ø mm	Max. permitted rotation speed rpm		115 mm Ø		125 mm Ø	
				43789	...	43789	...
40	22.23	13,300	10 pcs.		101		
60	22.23	13,300	10 pcs.		102		
80	22.23	13,300	10 pcs.		103		
120	22.23	13,300	10 pcs.		104		
40	22.23	12,200	10 pcs.				201
60	22.23	12,200	10 pcs.				202
80	22.23	12,200	10 pcs.				203
120	22.23	12,200	10 pcs.				204

43758 - 43759

### Segmented grinding discs, zirconia alumina

ZA

**LUKAS**

**V2 Power**

#### Design

**Flat-diagonal form.**

High-strength fibreglass plate for soft grinding behaviour. Outstanding cutting performance. Improved grinding performance due to innovative segment arrangement (up to 6 grinding layers above one another, 70% of the grinding material is in the outer area). **Long service life, outstanding removal, reduced abrasive consumption, time-saving.**

#### Applications

Optimised for universal use on a variety of different steels and on aluminium. Ideal for machining welding seams, deburring, de-rusting, dressing and smoothing.

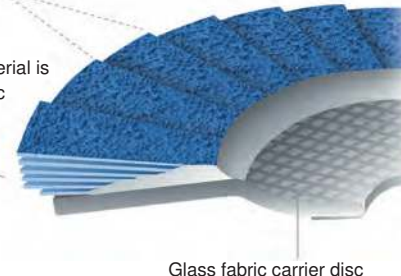
#### Quality

**Abrasive grain, zirconia alumina (ZA).**

Improved grinding performance thanks to a specific segment arrangement.  
**Wider segments.**

More than 70% of the grinding material is in the outer area of the backing disc

Up to 6 grinding layers arranged above one another



Glass fabric carrier disc

43758 - 43759

Grain	Hole Ø mm	Max. permitted rotation speed rpm		115 mm Ø		125 mm Ø	
				43758	...	43759	...
40	22.23	13,300	10 pcs.		101		
60	22.23	13,300	10 pcs.		102		
40	22.23	12,200	10 pcs.				101
60	22.23	12,200	10 pcs.				102





## SLTT

## Design

**Straight design.** Outstanding cutting performance, exceptional service life. Robust steel support plate, quiet, low-vibration. **Patented segment shape and arrangement** (more abrasive grains in use). **More than 70% of the abrasive grain is located on the outer portion of the carrier disc.** Up to six sanding layers arranged one on top of the other. Extremely resistant grain with high pressure resistance.

## Applications

Optimised for universal use on a variety of different steels and on aluminium. Ideal for machining welding seams, deburring, de-rusting, dressing and smoothing.

## Quality

**Abrasive grain, zirconia alumina (ZA).**

## Note:

Applications for the straight design e.g. edge and surface grinding with a working angle of 0–15°.

Grain	Hole Ø mm	Max. permitted rotation speed rpm		115 mm Ø	125 mm Ø
				43779	43780
40	22.23	13,300	10 pcs.	101	102
60	22.23	13,300	10 pcs.	102	101
40	22.23	12,200	10 pcs.	102	101
60	22.23	12,200	10 pcs.	102	101

Improved grinding performance thanks to an innovative segment arrangement.  
**Wider segments.**

More than 70% of the grinding material is in the outer area of the backing disc

Up to 6 grinding layers arranged above one another

Strong, steel support plate



43779 - 43780

## 43790 - 43791

## Segmented grinding discs, ceramic abrasive grain

CER



## Design

**Slightly angled shape. Pitch angle approx. 8°.** With self-sharpening ceramic abrasive grain which continuously provides an extremely high removal rate and guarantees a long service life. The ceramic abrasive grains sit on a robust polyester backing. Fully synthetic resin bond with active grinding additives guarantees the wear resistance of the abrasive grain, even under heavy loads. Low-temperature grinding on surfaces and edges.

## Applications

Ideal for extreme grinding work or special tasks such as machining high-alloy steels, titanium alloys, nickel-based alloys as well as chromium and chrome-nickel steel, brass or bronze. Areas of application: Sheet metal machining, container construction, cast parts, hand tools, pipes and rods, metal structures.

## Quality

**Ceramic abrasive grain (CER).**

Grain		115 mm Ø	125 mm Ø
		43790	43791
40	10 pcs.	201	201
60	10 pcs.	202	202
80	10 pcs.	203	203



43790 - 43791



## 43737

## Segmented grinding discs, ceramic abrasive grain

CER

## 3M

## Cubitron™ II

## Design

- To make grinding processes more efficient, 3M developed the Cubitron™ II generation and designed high performance abrasive grain in a defined, geometric shape
- The very sharp cutting surface boasts an unprecedented removal rate and service life
- The benefits of Cubitron™ II discs are felt in all metalworking operations, including steel construction, container construction, welding shops, foundries and forges
- They replace and improve on conventional fibre discs as well as surface sanding tasks conducted by roughing and flap discs
- Faster removal and longer service life

- Fast, low-temperature grinding and optimised grinding processes
- Angled fibreglass plate

## Applications

For stainless steel and structural steel:

- Freeform parts
- Metal surfaces
- Single welding seams
- Cylinders

## Quality

**Ceramic abrasive grain (CER).**

Grain	Hole Ø mm	Highest working speed m/s		115 mm Ø	125 mm Ø
				43737	43737
40	22.2	80	10 pcs.	101	104
60	22.2	80	10 pcs.	102	105
80	22.2	80	10 pcs.	103	106



43737



Abrasive grain  
Cubitron™ II



Conventional ceramic  
abrasive grain



## Segmented grinding discs

43753

### Segmented grinding discs, ceramic abrasive grain

CER

TopSize



#### CO FREEZE SG INOX

##### version

The POLIFAN flap disc, developed specifically for stainless steel (INOX) with ultra-cool grinding. Even in sub-optimal temperatures, the CO ceramic abrasive grain with active grinding, cooling special coating (FREEZE) causes **no discolouration, eliminating the need for reworking.**

##### Advantage

- FREEZE coating for significantly lower heat conduction into the workpiece
- Fast progress and high efficiency due to aggressive cutting performance
- Maximum aggressiveness over the entire service life
- Outstanding service life, meaning fewer tool changes
- Normal spark production is reduced to a minimum. This means it is virtually impossible to damage stainless steel workpieces with hot flying sparks.

##### Applications

- Stainless steel/INOX
- Nickel-based alloys (e.g. Inconel, Hastelloy)

##### Machining tasks:

- Surface grinding
- Surface machining
- Welding seam machining
- Finishing

##### Quality

**Ceramic abrasive grain (CER) with active grinding, cooling special coating (FREEZE).**

##### Note:

*Even on the first use of POLIFAN CO FREEZE, the segments show an unusual wear pattern after a few seconds. The highly effective fillers form a glossy, cooling film on the segment (no glazing effect). This is the foundation for the ultra-cool grind.*

**NEW**

43753 201-203



43753 301-303



115 mm Ø

43753

...

125 mm Ø

43753

...

Grain	Hole Ø mm	Max. permitted rotation speed rpm			
36	22.23	13,300	10 pcs.	201	
50	22.23	13,300	10 pcs.	202	
80	22.23	13,300	10 pcs.	203	
36	22.23	12,200	10 pcs.		301
50	22.23	12,200	10 pcs.		302
80	22.23	12,200	10 pcs.		303

43738

### Segmented grinding discs, ceramic abrasive grain

CER



#### PurpleGrain Multi

##### Design

- The Purple Grain Multi is a latest-generation flap disc, offering maximum removal rate with constant, aggressive cutting performance and tremendous service life
- Its unique, multi-layer design allows the powerful Purple Grain Multi to achieve maximum service life. The three grinding layers exhibit controlled wear levels until the end. This is reflected in measurable cost savings in comparison to conventional flap discs

- Constantly aggressive grinding until the last grain in the centre of the disc and the cool grind achieves a high level of surface quality without blue colouration
- Low contact pressure and quiet running for the most comfortable working possible
- The integrated M14 threaded mount allows very fast tool changes without an awkward clamping nut. With its flat tool geometry, the Purple Grain Multi achieves very good surfaces, saving on rework.

##### Applications

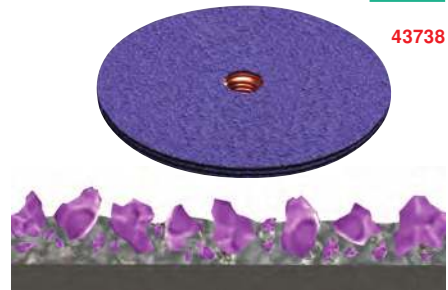
For machining stainless steel, steel.

##### Quality

**Ceramic abrasive grain (CER).**

Ø mm	Grain	Thread	Speed max. rpm		43738	...
115	36	M14	13,300	10 pcs.		101
125	36	M14	12,200	10 pcs.		201

43738



Ceramic abrasive grain structure



Illustration of self-sharpening effect of ceramic abrasive grain

## 43742 - 43743

## Segmented grinding discs, zirconia alumina

ZA



## Special line Z SGP CURVE STEELOX

## Design

The patented flap disc POLIFAN-CURVE has been specifically developed for machining fillet welds. This is the only flap disc in the world to have segments on the grinding side, the reverse side and on the edge.

## Advantage

- High removal rate ensures fast progress and a significant reduction in labour costs
- Excellent service life in the machining of fillet welds
- Precise and optimum grinding of the fillet weld geometry

## Applications

Suitable for machining fillet welds, weld seams, chamfering and deburring. High-performance flap disc for maximum material removal on steel and stainless steel (INOX).

## Quality

**Abrasive grain, zirconia alumina (ZA).**

## 43742 101 + 43743 101

## Design M

- For fillet weld radii > 5 mm
- Width at radius 11 mm.

## 43742 102 + 43743 102

## Design L

- For fillet weld radii > 8 mm
- Width at radius 14 mm



43742 - 43743



Ø mm	Fillet weld width mm	Width at radius mm	Grain	Hole Ø mm	Max. permitted rotation speed rpm	Highest working speed m/s		43742	...	43743	...
115	> 5	M (11)	40	22.23	13,300	80	10 pcs.			101	
115	> 8	L (14)	40	22.23	13,300	80	10 pcs.			102	
125	> 5	M (11)	40	22.23	12,200	80	10 pcs.				101
125	> 8	L (14)	40	22.23	12,200	80	10 pcs.				102

## 43746 - 43747

## Segmented grinding discs, ceramic abrasive grain

TopSize

CER



## Special line CO SGP CURVE STEELOX

## Design

The patented flap disc POLIFAN-CURVE has been specifically developed for machining fillet welds. This is the only flap disc in the world to have segments on the grinding side, the reverse side and on the edge.

## Advantage

- High removal rate ensures fast progress and a significant reduction in labour costs
- Excellent service life in the machining of fillet welds
- Precise and optimum grinding of the fillet weld geometry

## Applications

For machining fillet welds, weld seams, chamfering and deburring. High-performance flap disc for achieving fine-quality surfaces on steel and stainless steel (INOX).

## Quality

**Ceramic abrasive grain (CER) with active grinding, cooling special coating.**

## 43746 101 + 43747 101

## Design M

- For fillet weld radii > 5 mm
- Width at radius 11 mm

## 43746 102 + 43747 102

## Design L

- For fillet weld radii > 8 mm
- Width at radius 14 mm



43746 - 43747



Ø mm	Fillet weld width mm	Width at radius mm	Grain	Hole Ø mm	Max. permitted rotation speed rpm	Highest working speed m/s		43746	...	43747	...
115	> 5	M (11)	60	22.23	13,300	80	10 pcs.			101	
115	> 8	L (14)	60	22.23	13,300	80	10 pcs.			102	
125	> 5	M (11)	60	22.23	12,200	80	10 pcs.				101
125	> 8	L (14)	60	22.23	12,200	80	10 pcs.				102

## 43774 - 43775

## Segmented grinding discs, zirconia alumina

ZA

## RHODIUS BRAINTOOLS

by Rhodius

## LSZ-F Vision

## Design

**Diagonal form.** Viewing holes ensure low-temperature grinding and a clear view of the workpiece being processed. Minimises blue colouration and material distortion. **Free from iron and sulphur.**

## Applications

For machining thin panels in bodywork, for edge and surface grinding, for deburring and de-rusting, for processing weld seams and offset panels. Also for machining wavy surfaces and curves. For machining steel, stainless steel and non-ferrous metals. Wood, plastics, paints and filler can be

smoothed extremely well.

## Quality

**Abrasive grain, zirconia alumina (ZA).**

Grain	Hole Ø mm	Max. permitted rotation speed rpm	Highest working speed m/s		115 mm Ø		125 mm Ø	
					43774	...	43775	...
40	22.23	13,285	80	10 pcs.			101	
60	22.23	13,285	80	10 pcs.			102	
80	22.23	13,285	80	10 pcs.			103	
40	22.23	12,200	80	10 pcs.				101
60	22.23	12,200	80	10 pcs.				102
80	22.23	12,200	80	10 pcs.				103



43774 - 43775



## Info

## Segmented polishing discs: Achieve perfection with the right material!

**ATORN®**

Due to their innovative, highly effective abrasive fleece in a segmented, fan-shaped structure, the segmented polishing discs achieve outstanding results when machining steel, stainless steel, aluminium and non-ferrous metals.



De-scaling surfaces before welding leads to cleaner welding seams

Delivers optimum results e.g. when machining welding seams, re-working welding seams or removing welding spatter in accordance with EN ISO 5817. Removes oxidation films/dischouration after welding pipelines, containers and equipment, or after plasma



Grinding fine welding seams and removing thermal blue colouration

cutting stainless steel in accordance with DIN 50930, DIN 25410, DVGW W41.

- Descaling and de-rusting workpieces
- Preparation and subsequent polishing of welding seams
- Preparation of painted surfaces
- Polishing stainless steel



Professional de-rusting and de-scaling

## 43792 - 43793

## Segmented polishing discs

**ATORN®****Design**

- Innovative, highly effective abrasive fleece in a segmented, fan-shaped structure

**Applications**

Depending on the fineness of the abrasive fleece, ideally for

- De-scaling and de-rusting workpieces made of steel, stainless steel, aluminium and non-ferrous metals
- Preparation and subsequent polishing of welding seams
- Preparation of painted surfaces
- Polishing stainless steel
- Surface machining.

Can be used for edge and surface grinding on all angle grinders without a support plate.

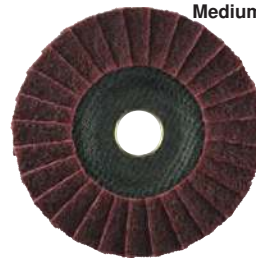
43792 201–43793 201

Coarse



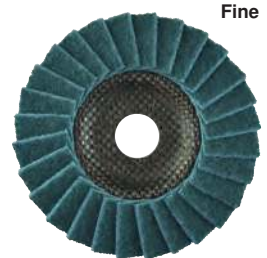
43792 202–43793 202

Medium



43792 203–43793 203

Fine



Ø mm	Grain	Hole Ø mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	43792	...	43793	...
115	Coarse	22.23	13,300	5,000–5,800	201			
115	Medium	22.23	13,300	5,000–5,800	202			
115	Fine	22.23	13,300	5,000–5,800	203			
125	Coarse	22.23	12,200	4,600–5,300			201	
125	Medium	22.23	12,200	4,600–5,300			202	
125	Fine	22.23	12,200	4,600–5,300			203	

## 43788

## Segmented felt polishing and grinding disc

**HHW****Design**

- Segmented disc made of 70% wool felt (height 20 mm) for polishing stainless steel and non-ferrous metals
- Also suitable for high-gloss polishing of medium to large components
- The flexibility of the individual segments allows cool airflow at all times

**Advantage**

- Undesirable discolouration is avoided
- The tool adapts perfectly to the workpiece
- Improved polishing paste application enables long-lasting and uniform polishing effect

**Applications**

**Soft D5/H25:** For glazing or machining workpieces with many contours

**Medium D5/H40:**

For pre-polishing flat surfaces

A very fine surface can be achieved by using both versions, one after the other.

For surface treatment of pre-ground workpieces. Suitable for polishing stainless steel, non-ferrous metals and for high-gloss polishing of medium to large components.

Use in conjunction with special grinding paste art. no. 43141 and polishing paste art. nos. 44380 and 44381.

For optimum results, felt products should always be used at speeds of approx. 10 m/s.

**43788 101-102**

**Design**

- Normal support plate

**43788 201-202**

**Design**

- With reduced support plate for keyway processing

43788



Reduced support plate

Flexibility	Ø mm	Max. permitted rotation speed rpm	Recommended rotation speed rpm	Hole Ø mm	43788	...	43788	...
Soft D5/H25	125	7,700	1,520	22.23	101			201
Medium D5/H40	125	7,700	1,520	22.23	102			202

43795

## Grinding and polishing pad

SIC



## Design

**Diagonal version.** The fleece fibre design prevents the tool from clogging, the long service life and low edge wear improve productivity.

## Applications

Ideal for machining stainless steels, aluminium and other non-ferrous metals. For deburring, cleaning and polishing work.

## Quality

**Abrasive grain silicon carbide (SIC).**

SIC fine

43795

Hardness	Ø mm	Hole Ø mm	Max. permitted rotation speed rpm	...
Soft	115	22.23	8,350	201
Medium	115	22.23	8,350	202



43795

43796

## Polishing disc

SIC



## Design

- Polishing disc for angle grinder
- Polish large areas to a mirror finish in a short time
- SiC grain = silicon carbide
- Free from iron, sulphur and chlorine compounds

## Advantage

- Four polishing steps to achieve a high-gloss finish
- Long service life
- Quick, clean working
- Works without polishing paste

## Product benefits:

- Polish even large areas quickly and effortlessly using your controlled angle grinder
- Thanks to the four polishing discs with different grain sizes, you can quickly achieve the desired surface result
- Even lacquer can be removed without clogging the tool
- Clean your workpiece and refine the surface in one operation

## Applications

Suitable for controlled angle grinders. Cleaning or removing paint from components, removing filler and putty (paint shops), removing powder coating, de-rusting and fine deburring, polishing a wide variety of materials.

## Quality

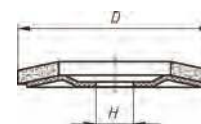
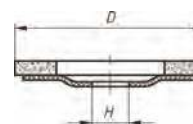
**Abrasive grain silicon carbide (SIC).**



43796

43796 300-304

43796 400-404



	Grain	Ø D mm	Hole Ø H mm	Vmax m/s	Max. permitted rotation speed rpm	Flat		Diagonal	
						43796	...	43796	...
Set, 4 pieces	150/240/400/800	125	22.23	32	4,850		300		400
Single	150	125	22.23	32	4,850		301		401
Single	240	125	22.23	32	4,850		302		402
Single	400	125	22.23	32	4,850		303		403
Single	800	125	22.23	32	4,850		304		404

43800 - 43801

## Scotch-Brite™ coarse cleaning discs

SIC

3M

## Applications

De-rusting, removing paint, cleaning welding seams, removing severe surface contamination and coatings. For radial use. Use on straight grinders, flexible shafts or drills.

## Quality

**Abrasive grain silicon carbide (SIC).**

43800 200+203

CG-RD

## Design

More flexible than XT, aggressive, open texture, does not clog. Supplied **without** clamping mandrel.



43800

43801

## Clamping mandrels

## Applications

For clamping 1 or 2 coarse cleaning discs XT-DC/CG-DC and 1 or 2 Bristle Brush™ polishing and deburring discs (art. no. 47400) on straight grinders, flexible shafts or drills.



Type	Ø mm	Grain	Working width mm	Recommended rotation speed rpm	Max. permitted rotation speed rpm	Pack = pieces	Number of discs	Shaft Ø mm	Sanding disc		Clamping mandrel	
									43800	...	43801	...
XT-DC	100	Extra coarse/P 60-80	13	3,500-4,000	6,000	2	-	-			201	
XT-DC	150	Extra coarse/P 60-80	13	2,400-2,700	4,000	2	-	-			202	
CG-DC	100	Extra coarse/P 60-80	13	3,500-4,000	6,000	2	-	-			200	
CG-DC	150	Extra coarse/P 60-80	13	2,400-2,700	4,000	2	-	-			203	
-	-	-	-	-	-	-	1	6				101
-	-	-	-	-	-	-	2	8				102

43803

## POLICLEAN® shaft tools

SIC



## Design

Coarse, abrasive cleaning fleece made of a special combination of synthetic fibres and abrasive grain.

## Applications

For universal circumferential grinding. Flexible shafts, electric and pneumatic straight grinders can be used as drive machines.

## Quality

Abrasive grain silicon carbide (SIC).

Ø x Width mm	Shaft Ø mm	Recommended rotation speed rpm	Max. permitted rotation speed rpm	43803	...
50 x 13	6	6,000–7,000	15,000		101
50 x 26	6	6,000–7,000	15,000		102
75 x 13	6	4,000–5,100	10,000		103
75 x 26	6	4,000–5,100	10,000		104
100 x 13	6	3,000–3,800	7,500		105



43803

43805

## Scotch-Brite™ coarse cleaning discs

SIC

## 3M

## Quality

Abrasive grain silicon carbide (SIC).

43805 201

## XT-RD

## Design

Fibre fleece with extremely hard **silicon carbide abrasive mineral**. The open structure means the disc hardly ever clogs. With strong fibre underlay. **Can be used on angle grinders without a support plate.**

43805 202

## CG-RD

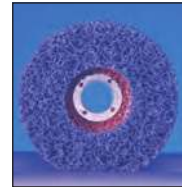
## Design

Fibre fleece with **resin-bonded abrasive, fibre-glass underlay**. No clogging due to open structure. Long service life for all applications. Can be used on angle grinders without a support plate.

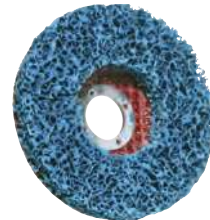
## Applications

For coarse cleaning of surfaces and removing rust, corrosion, old coatings, sealant residue and discolouration. Helpful when de-rusting and removing paint from sheet metal parts and when cleaning metal surfaces and welding seams.

Type	Ø mm	Grain	Hole Ø mm	Recommended rotation speed rpm	Max. permitted rotation speed rpm		43805	...
XT-RD	115	Extra coarse/P 60–80	22	5,000–7,000	11,000	10 pcs.		201
CG-RD	115	Extra coarse/P 60–80	22	5,000–7,000	11,000	-		202



43805 201



43805 202

43813

## Scotch-Brite™ discs Roloc™ SC-DR and SE-DR

AO

## 3M

## Design

The 3M™ Roloc™ quick-change system allows the product to be changed quickly in one turn. This dramatically reduces downtime. It was specifically designed for multi-step work processes.

## Quality

Abrasive grain synthetic corundum (AO).

43813 101-103

## Roloc™ SC-DR

## Applications

For cleaning and final processing of metal surfaces. For use in multi-step work processes for further surface processing after treatment with fibre discs. For creating a glossy finish on stainless steel or a clean, burr-free finish before painting or coating ferrous and non-ferrous metals.

43813 104

## Roloc™ SE-DR

## Design

Significantly more aggressive than Roloc™ SC-DR.

## Applications

Primarily recommended for blending after grinding.



43813

## Note:

Support plate/clamping mandrel for use on angle grinders and drills, see art. no. 43825.

Type	Ø mm	Grain	Abrasive mineral	Recommended rotation speed rpm	Max. permitted rotation speed rpm	Colour	43813	...
Roloc™ SC-DR	75	Coarse/P 100–120	Corundum	10,000–15,000	18,000	Brown		101
Roloc™ SC-DR	75	Medium/P 180–220	Corundum	10,000–15,000	18,000	Red		102
Roloc™ SC-DR	75	Very Fine/P 320–360	Corundum	10,000–15,000	18,000	Blue		103
Roloc™ SE-DR	75	Coarse/P 100–120	Corundum	10,000–15,000	18,000	Brown/Blue		104

43817

## Scotch-Brite™ Bristle Disc Roloc™

CER

## 3M

## RD-ZB

## design

The product is made from a single cast piece, meaning individual components cannot be lost and that the Bristle Disc is significantly safer than conventional products. The 3M™ Roloc™ quick-change system allows the product to be changed quickly in one turn. This dramatically reduces downtime. It was specifically designed for multi-step work processes.

## Applications

Universal cleaning product. It facilitates blending, finishing, deburring and polishing. Particularly suitable for removing stubborn contaminants (paint and glue residue, sealants, coatings).

## Quality

Ceramic abrasive grain (CER) Cubitron™.

## Note:

Support plate (grinding plate) for use on angle grinders see art. no. 43825 101.



43817

Ø mm	Grain	Bristle length (tapered) mm	Recommended rotation speed rpm	Max. permitted rotation speed rpm	Colour	43817	...
75	P 50	16	10,000	18,000	Green		101
75	P 80	16	10,000	18,000	Yellow		102
75	P 120	16	10,000	18,000	White		103



**3M****BD-ZB****design**

The product is made from a single cast piece, meaning individual components cannot be lost and that the Bristle Disc is significantly safer than conventional products. Can be fitted directly on any angle grinder with an M14 thread.

**Applications**

Universal cleaning product. It facilitates blending, finishing, deburring and polishing. Particularly suitable for removing stubborn contaminants (paint and glue residue, sealants, coatings).

**Quality**

Ceramic abrasive grain (CER) Cubitron™.

43821



Ø mm	Grain	Bristle length (tapered) mm	Recommended rotation speed rpm	Max. permitted rotation speed rpm	Colour	43821	...
115	P 50	19	6,000–10,000	12,000	Green		101
115	P 80	19	6,000–10,000	12,000	Yellow		102
115	P 120	19	6,000–10,000	12,000	White		103

**3M****43825 101****Support plate****Applications**

On angle grinders with art. no. 43813 Scotch-Brite™ discs Roloc™ SC-DR and SE-DR and art. no. 43817 Scotch-Brite™ Bristle Disc Roloc™ RD-ZB.

**43825 102****Clamping mandrel****Applications**

On drills with art. no. 43813 Scotch-Brite™ discs Roloc™ SC-DR and SE-DR.

43825 101

43825 102



	Ø mm	Thread	Shaft Ø mm	Max. permitted rotation speed rpm	43825	...
Support plate	75	M 14	-	20,000		101
Clamping mandrel	75	-	6	20,000		102

**Info****43841-43854 COMBIDISC® grinding tools****PFERD****43841**

COMBIDISC® holders

**43854**

COMBIDISC® clamping bolts

**43842-43846**

COMBIDISC® grinding discs

**43850-43852**

COMBIDISC® Mini POLIFAN®

**43847-43849**

COMBIDISC® discs

**43853**

COMBIDISC® fleece discs

**43851**

COMBIDISC® felt discs

**Functional principle:**

Clamp the grinding disc or fleece disc in place by turning it in a clockwise direction; turn it anti-clockwise to remove it easily by hand. The thread remains easy to turn even after hard use.

**Benefits****- Easy to handle**

- Quick disc changes
- Does not stick, slip or loosen due to heat
- Vibration-free spinning, grinding disc is central.

**Areas of application:**

For coarse to fine sanding in tool and mould construction, modelling, mechanical engineering, automotive engineering, aerospace industry, construction and repair of jet engines, container and plant construction.

**Drive machines used:**

- Pneumatic straight or angle grinders
- Flexible shaft machines with straight or angled handle.

**PFERD****Design**

Metal screw fitting for optimum connection between reusable holder and grinding disc or felt round. Colour-coded and available in three different hardness grades.

**- Soft – grey**

for machining radii and contours, adapts perfectly to the surface being processed

**- Medium – blue**

for universal use

**- Hard – red**

specifically for surface grinding

**Advantage**

Screw connection with internal thread (metal/plastic) also fits systems on the market: PSG, Power Lock type II „turn on“, SocAtt, Turn-On.

**Note:**

Fits PFERD COMBIDISC® system, mount CD 43842-43851.

Ø mm	Shaft Ø mm	Max. permitted rotation speed rpm	Soft 43841	...	Medium 43841	...	Hard 43841	...
25	6	38,000					102	
38	6	25,000	003 NEW				103	303 NEW
50	6	19,000	004 NEW				104	304 NEW
75	6	12,500	005 NEW				105	305 NEW

43841 003-005

43841 102-105

43841 303-305



## COMBIDISC® grinding tools

43854

### COMBIDISC® clamping bolts



43854 101

#### Applications

For COMBIDISC®-Mini-POLIFAN® 50 mm Ø  
(art. no. 43850).

43854 102

#### Applications

For COMBIDISC®-Mini-POLIFAN® 75 mm Ø  
(art. no. 43852).



43854

For Disc Ø mm	Shaft Ø mm	Highest working speed m/s	43854	...
50	6	50		101
75	6	50		102

43842

### COMBIDISC® grinding discs



#### Design

- Very flexible and adaptable due to its outer contour
- Prevents cutting into the workpiece

#### Advantage

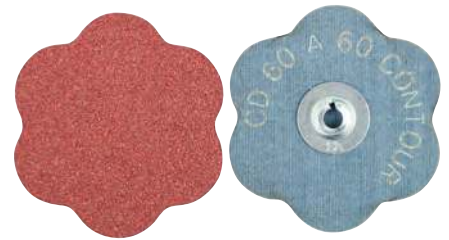
- Easy to use
- Rapid tool changes
- Does not stick or slip
- Does not come loose due to heat
- Vibration-free running
- Tool is always centred

#### Example applications:

- Tool and mould making, model-making
- Mechanical engineering, automotive
- Aerospace industry
- Jet engine construction and repair
- Container and equipment construction (e.g. for food and chemical industry)
- Fetting of small parts

#### Quality

Abrasive grain synthetic corundum (AO).



43842

Corundum A-CONTOUR

Grain mm	Ø mm	Recommended rotation speed rpm	43842	...
60	60	7,500–11,000		101,
80	60	7,500–11,000		102
120	60	7,500–11,000		103
180	60	7,500–11,000		104

43843

### COMBIDISC® grinding discs, synthetic corundum



#### Applications

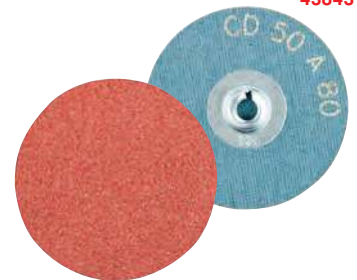
For grinding tasks on ferrous metals and other materials. For pneumatic straight and angle grinders (art. nos. 92425–92430) as well as flexible shaft machines.

#### Quality

Abrasive grain synthetic corundum (AO), dark brown.

#### Note:

These tools are approved for use in the European nuclear industry (class 1).



43843

Ø mm	Grain	Recommended rotation speed rpm	43843	...
25	60	15,000–26,000		202
25	80	15,000–26,000		203
25	120	15,000–26,000		204
25	180	15,000–26,000		205
25	320	15,000–26,000		206
38	36	10,000–16,000		301
38	60	10,000–16,000		302
38	80	10,000–16,000		303
38	120	10,000–16,000		304
38	180	10,000–16,000		305
38	320	10,000–16,000		306
50	36	8,000–13,000		401

Ø mm	Grain	Recommended rotation speed rpm	43843	...
50	60	8,000–13,000		402
50	80	8,000–13,000		403
50	120	8,000–13,000		404
50	180	8,000–13,000		405
50	320	8,000–13,000		406
75	36	5,000–9,000		501
75	60	5,000–9,000		502
75	80	5,000–9,000		503
75	120	5,000–9,000		504
75	180	5,000–9,000		505
75	320	5,000–9,000		506



**43844****COMBIDISC® grinding discs, synthetic corundum****AO****Applications**

For universal use on all metals, particularly on tough materials such as stainless steel, aluminium. High grinding performance, low-temperature grinding, good service life. For pneumatic straight and angle grinders (art. nos. 92425–92430) as well as flexible shaft machines.

**Quality**

Abrasive grain synthetic corundum (AO), light brown.

**43844**

Ø mm	Grain	Recommended rotation speed rpm	43844	...
25	60	15,000–26,000	202	
25	80	15,000–26,000	203	
25	120	15,000–26,000	204	
38	36	10,000–16,000	301	
38	60	10,000–16,000	302	
38	80	10,000–16,000	303	
38	120	10,000–16,000	304	
50	36	8,000–13,000	401	

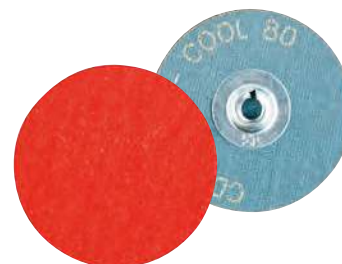
Ø mm	Grain	Recommended rotation speed rpm	43844	...
50	60	8,000–13,000	402	
50	80	8,000–13,000	403	
50	120	8,000–13,000	404	
75	36	5,000–9,000	501	
75	60	5,000–9,000	502	
75	80	5,000–9,000	503	
75	120	5,000–9,000	504	

**43845****COMBIDISC® grinding discs, ceramic abrasive grain****CER****Applications**

For machining alloyed and non-alloyed steels. Cast iron, stainless steel (INOX), titanium, nickel-based alloys and extremely hard materials. Self-sharpening ceramic abrasive grain for continual maximum performance. Active grinding additives in the coating noticeably increase the removal rate, prevent clogging and facilitate cooler grinding. For pneumatic straight and angle grinders (art. nos. 92425–92430) as well as flexible shaft machines.

**Quality**

Ceramic abrasive grain (CER).

**43845**

Ø mm	Grain	Recommended rotation speed rpm	43845	...
38	24	5,000–16,000	300	
38	36	5,000–16,000	301	
38	60	5,000–16,000	302	
38	80	5,000–16,000	303	
38	120	5,000–16,000	304	
50	24	3,800–13,000	400	
50	36	3,800–13,000	401	
50	60	3,800–13,000	402	

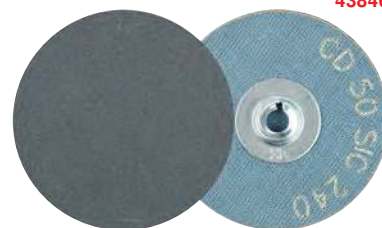
Ø mm	Grain	Recommended rotation speed rpm	43845	...
50	80	3,800–13,000	403	
50	120	3,800–13,000	404	
75	24	2,500–9,000	500	
75	36	2,500–9,000	501	
75	60	2,500–9,000	502	
75	80	2,500–9,000	503	
75	120	2,500–9,000	504	

**43846****COMBIDISC® grinding discs, silicon carbide****SIC****Applications**

Suitable for machining aluminium, copper, bronze, titanium, high-alloy steels and fibre-reinforced plastics. Particularly recommended for use on titanium alloys. Ideal for the aerospace industry, for applications where only SiC is permitted for processing e.g. drive parts. For pneumatic straight and angle grinders (art. nos. 92425–92430) as well as flexible shaft machines.

**Quality**

Silicon carbide abrasive grain (SiC).

**43846**

Ø mm	Grain	Recommended rotation speed rpm	43846	...
50	36	3,800–13,000	401	
50	60	3,800–13,000	402	
50	80	3,800–13,000	403	
50	120	3,800–13,000	404	
50	240	3,800–13,000	405	

Ø mm	Grain	Recommended rotation speed rpm	43846	...
75	36	2,500–9,000	501	
75	60	2,500–9,000	502	
75	80	2,500–9,000	503	
75	120	2,500–9,000	504	
75	240	2,500–9,000	505	

# COMBIDISC® grinding tools

43850 - 43852

COMBIDISC®-Mini POLIFAN®



## Note:

For suitable clamping bolts, see art. no. 43854.  
Alternative COMBIDISC® holder, art. no. 43841.

43850 101-104 + 43852 101-104

## Design

- Max. permitted working speed acc. to  
EN 13743 50 m/s

## Applications

For universal coarse grinding tasks with good cutting performance. Ideal for finishing welding seams in difficult-to-reach areas. Increased service life and removal rate compared to grinding discs.

## Quality

Abrasive grain synthetic corundum (AO).

43850 201-204 + 43852 201-204

## Advantage

- Easy to use
- Rapid tool changes
- Does not stick or slip
- Does not come loose due to heat
- Low-vibration running
- Tool is always centred

## Applications

For coarse grinding tasks with high cutting performance and good service life. The high performance zirconia alumina abrasive achieves the best cutting performance with increased contact pressure.

## Example applications:

- Tool and mould making, model-making
- Mechanical engineering, automotive
- Aerospace industry
- Jet engine construction and repair
- Container and equipment construction (e.g. for food and chemical industry)
- Fitting of small parts

## Quality

Abrasive grain, zirconia alumina (ZA).

AO

43850 101-104 + 43852 101-104



ZA

43850 201-204 + 43852 201-204



Abrasive	Grain	Recommended rotation speed rpm art. no. 43850	Recommended rotation speed rpm art. no. 43852		50 mm Ø		75 mm Ø	
					43850	...	43852	...
Synthetic corundum (A)	40	12,000-14,000	8,000-10,000	10 pcs.		101		101
Synthetic corundum (A)	60	12,000-14,000	8,000-10,000	10 pcs.		102		102
Synthetic corundum (A)	80	12,000-14,000	8,000-10,000	10 pcs.		103		103
Synthetic corundum (A)	120	12,000-14,000	8,000-10,000	10 pcs.		104		104
Zirconia alumina (Z)	40	12,000-14,000	8,000-10,000	10 pcs.		201		201
Zirconia alumina (Z)	60	12,000-14,000	8,000-10,000	10 pcs.		202		202
Zirconia alumina (Z)	80	12,000-14,000	8,000-10,000	10 pcs.		203		203
Zirconia alumina (Z)	120	12,000-14,000	8,000-10,000	10 pcs.		204		204

43847 - 43849

COMBIDISC® discs



43847

## Applications

For universal surface machining of metals, e.g. removal of pre-grinding traces, removal of oxidation and for light de-burring work. Open structure.

## Quality

Abrasive grain synthetic corundum (AO),  
hard version.

43848

## Applications

For the finest sanding work on flat areas, contours and for cleaning work on metals and varnishes. Very open structure.

## Quality

Abrasive grain synthetic corundum (AO),  
soft version.

43849

## Applications

For coarse cleaning tasks, removal of varnish, scale, discolouration, rust and plastic residue in front grinding. With long service life, low working pressure and very good adaptability.

## Quality

Abrasive grain silicon carbide (SIC).

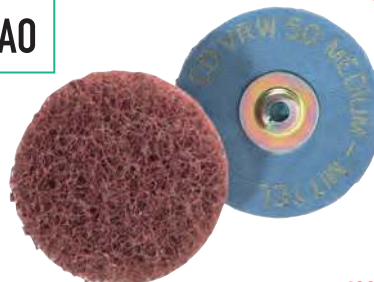
AO

43847



AO

43848



SIC

43849

Ø mm	Grain	Colour	Recommended rotation speed rpm	Hard		Soft		Policlean	
				43847	...	43848	...	43849	...
25	Coarse	Brown	11,000-15,000		201				
25	Medium	Red-Brown	11,000-15,000		202				
25	Very Fine	Blue	11,000-15,000		203				
38	Coarse	Brown	7,000-10,000		301				
38	Medium	Red-Brown	7,000-10,000		302				
38	Very Fine	Blue	7,000-10,000		303				
50	-	-	5,500-8,000						103
50	Coarse	Brown	6,000-8,000		401				
50	Medium	Red-Brown	5,500-8,000		402		402		
50	Fine	Red-Brown	5,500-8,000				403		
50	Very Fine	Blue	6,000-8,000		403				
50	Very Fine	Red-Brown	5,500-8,000				404		
75	-	-	3,800-5,000						105



43853

## COMBIDISC® fleece discs

A0

SIC

PFERD



## Advantage

- Easy to use
- Rapid tool changes
- Does not stick or slip
- Does not come loose due to heat
- Low-vibration running
- Tool is always centred

## Applications

For face grinding on angle grinders. Particularly suitable for machining small and medium-sized areas on stainless steel (INOX) components.

## Example applications:

- Tool and mould making, model-making
- Mechanical engineering, automotive
- Aerospace industry
- Jet engine construction and repair
- Container and equipment construction (e.g. for food and chemical industry)
- Fettleing of small parts



43853

Ø mm	Grain	Abrasive	Recommended rotation speed rpm	Soft		Medium		Hard	
				43853	...	43853	...	43853	...
50	Coarse	Synthetic corundum	19,100		101				103
50	Fine	Synthetic corundum	19,100				112		113
50	Fine	Silicon carbide	19,100		311		312		
75	Coarse	Synthetic corundum	12,500		201				203
75	Fine	Synthetic corundum	12,500				212		213
75	Fine	Silicon carbide	12,500		411		412		

43851

## COMBIDISC® felt discs

PFERD



## Advantage

- Easy to use
- Rapid tool changes
- Does not stick or slip
- Does not come loose due to heat
- Low-vibration running
- Tool is always centred

## Applications

Suitable for polishing with polishing paste bars, grinding paste or diamond polishing paste over medium-large areas in face grinding.

## Example applications:

- Tool and mould making, model-making
- Mechanical engineering, automotive
- Aerospace industry
- Jet engine construction and repair
- Container and equipment construction (e.g. for food and chemical industry)
- Fettleing of small parts

Use in conjunction with special grinding paste art. no. 43141 and polishing paste art. nos. 44380 and 44381.



43851

Ø mm	Shaft Ø mm	Recommended rotation speed rpm	43851	...
50	6	2,000-4,000		101
75	6	1,200-2,000		201

