

Quality. Safety. Performance.

**Catalogue
KLS VI.3**







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General Information

Product overview

The product groups at a glance

With this catalogue, Klingspor makes it quick and easy to select the products you need from our wide range of top quality abrasives. The clear and logical layout in eight product groups makes it easy for you to find what you are looking for.

State-of-the-art manufacturing techniques ensure that our coated abrasives fulfill the most demanding standards of surface finish, long life and stock removal.



Rolls

Klingspor rolls for hand sanding or use with handheld machines are available in a number of special grades designed for a wide variety of materials – from wood, to metal, to paint.



Belts

Klingspor abrasive belts are available in various sizes and grades to meet all sanding and grinding requirements for a wide range of materials and applications.



Fibre discs

Klingspor fibre discs are exceptionally suited for rough grinding work, de-rusting metal parts, deburring and working on welded seams.



Abrasive strips, sheets and discs

Klingspor strips, sheets and discs are available in various qualities and designs.

General Information

Product overview



Abrasive mop discs

The performance of the Klingspor abrasive mop disc, with its fan-shaped radial arrangement of the cloth grinding flaps, far exceeds that of other abrasive products.



Abrasive mop wheels

The abrasive mop wheel is particularly suitable for finishing where flexibility is a must. It matches the contours of any workpiece perfectly. Klingspor has the right abrasive mop wheel for virtually every application and for nearly all types of material.



Kronenflex® Grinding discs and cut-off wheels

Continuous innovation and the development of specialized products for all application areas enables Klingspor to offer a range of grinding discs and cut-off wheels to satisfy every need.

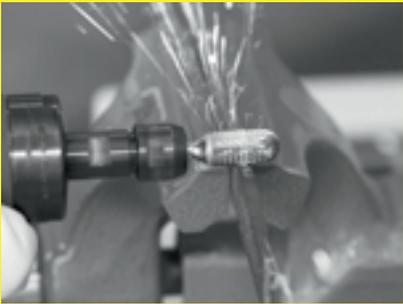
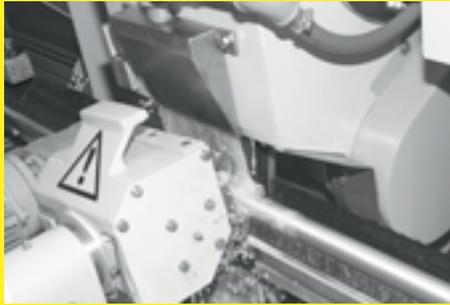


Flexible abrasives

Our comprehensive product programme is rounded off by flexible abrasives which were developed by Klingspor for precision finishing and polishing work on all kinds of surfaces.

General Information

Machine pictograms



Hand sanding



Hand block



Orbital sander



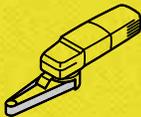
Random orbital sander



Delta sander



Portable belt sander



Hand tool belt grinder



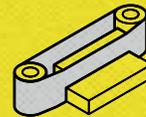
Back stand grinding machine



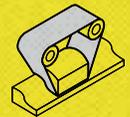
Centreless finishing machine



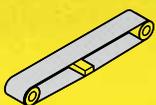
Through-feed grinding machine



Edge sanding machine



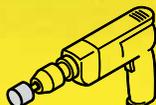
Contour finishing machine



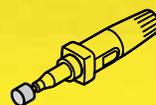
Pad / stroke sanding machine



Wide belt finishing machine



Drilling machine



Die grinder



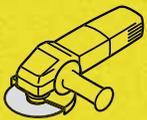
Satin finishing machine



Floor-standing grinder

General Information

Machine pictograms



Angle grinder



Angle grinder with abrasive mop disc



Angle grinder with cup grinding wheel



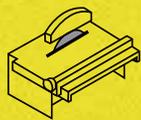
Petrol powered cutter



Stationary cutting machine



Chop saw



Wall chaser



Joint cutter



Lifting beam with mottling points



Right angle die grinder



Flexible shaft grinder



Petrol powered cutter with clamping device



Concave fillet weld grinder

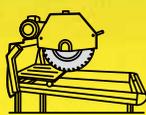
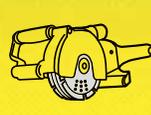


Table saw



Joint router



Stationary cutting machine



Parquet Sander

Product guide

Coated abrasives

	Type	Properties	Backing	Grain type
Abrasive paper	PS 10 A	Garnet	A-paper	Aluminum oxide
	PS 10 C	Garnet	C-paper	Aluminum oxide
	PS 10 D	Garnet	D-paper	Aluminum oxide
	PS 11 A	waterproof	A-paper	SiC
	PS 11 C	waterproof	C-paper	SiC
	PS 19 E		E-paper	SiC
	PS 19 F		F-paper	SiC
	PS 20 F		F-paper	Aluminum oxide
	PS 21 F		F-paper	Zirconia alumina
	PS 22 F ACT	ANTISTATIC	F-paper	Aluminum oxide
	PS 22 N		E-paper	Aluminum oxide
	PS 24 F ACT	ANTISTATIC	F-paper	SiC
	PS 26 F	SUPER ANTISTATIC	F-paper	Aluminum oxide
	PS 28 F	ANTISTATIC	F-paper	Aluminum oxide
	PS 29 F ACT	ANTISTATIC	F-paper	Aluminum oxide
	PL 31 B		B-paper	Aluminum oxide
	PS 33 B		B-paper	Aluminum oxide
	PS 33 C		C-paper	Aluminum oxide
	PL 35 B		B-paper	SiC
PS 73 BW	specialty coated	B-paper	Aluminum oxide	
PS 73 W Soft	specialty coated	B-/C-paper + foam core	Aluminum oxide	
Self fastening	PS 22 K		E-paper	Aluminum oxide
	PS 33 BK		B-paper	Aluminum oxide
	PS 33 CK		C-paper	Aluminum oxide
	PS 36 CK		C-paper	Zirconia alumina
	FP 73 WK	specialty coated	Film	Aluminum oxide
	PS 73 BWK	specialty coated	B-paper	Aluminum oxide
	PS 73 CWK	specialty coated	C-paper	Aluminum oxide
PSA	PS 33 BS / CS		B-/C-paper	Aluminum oxide
	PS 33 BS / CS Disc Roll		B-/C-paper	Aluminum oxide
Abrasive cloth	HTJ 153 Z	Crocus	JF-cloth	Aluminum oxide
	LS 309 J		J-cotton	Aluminum oxide
	LS 309 JF		JF-cotton	Aluminum oxide
	LS 309 XH		X-cotton	Aluminum oxide
	CS 310 X		X-cotton	Aluminum oxide
	CS 310 XF		XF-cotton	Aluminum oxide
	CS 311 Y ACT	ANTISTATIC	Y-polyester	Aluminum oxide

Cloth

X	Cloth, heavy
J	Cloth, light
XF	Cloth, heavy, flexible
JF	Cloth, light, highly flexible
Y	Polyester cloth
Z	Polyester cloth, heavy, can be divided into segments

Paper

A	approx. 95 g/m ²
B	approx. 105 g/m ²
C	approx. 110 g/m ²
D	approx. 130 g/m ²
E	approx. 250 g/m ²
F	approx. 300 g/m ²
G	approx. 400 g/m ²

Product guide

Coated abrasives



Type	Coating	Bonding agent	Waterproof	Available grits	Page						
					Rolls	Belts for handheld grinders	Short and long belts	Wide belts	Fibre discs	Strips/Sheets	Discs
<i>PS 10 A</i>	●	L		80-220	-	-	-	-	-	63	-
<i>PS 10 C</i>	●	L		100-150	-	-	-	-	-	63	-
<i>PS 10 D</i>	●	L		40-80	-	-	-	-	-	64	-
<i>PS 11 A</i>	●	K	✓	220-2000	-	-	-	-	-	65	-
<i>PS 11 C</i>	●	K	✓	60-400, 600, 1000	-	-	-	-	-	65	-
<i>PS 19 E</i>	●	K		24, 36-100, 120, 220, 240, 320, 400, 600, 800	20	-	-	-	-	-	77
<i>PS 19 F</i>	●	K		16, 20, 24, 36, 40, 60, 80	20	-	-	-	-	-	77
<i>PS 20 F</i>	●	K		60-240, 320, 400	-	-	34	53	-	-	-
<i>PS 21 F</i>	●	K		40, 60-320, 400	-	-	34	53	-	-	-
<i>PS 22 F ACT</i>	●	K		40-400	20	-	34	54	-	-	-
<i>PS 22 N</i>	●	K		24, 40, 60-240, 320, 400	21	-	-	-	-	-	-
<i>PS 24 F ACT</i>	●	K		80, 120-800	-	-	35	54	-	-	-
<i>PS 26 F</i>	○	K		80-220	-	-	35	55	-	-	-
<i>PS 28 F</i>	○	K		40-220	-	-	35	55	-	-	-
<i>PS 29 F ACT</i>	○	K		40-320, 400	-	-	36	56	-	-	-
<i>PL 31 B</i>	●	L		40-320, 400	22	-	-	-	-	66	-
<i>PS 33 B</i>	●	K		150-320, 400-600	-	-	-	-	-	67, 72	-
<i>PS 33 C</i>	●	K		40, 60-120	-	-	-	-	-	67, 72	-
<i>PL 35 B</i>	●	K		80 - 220, 280, 320, 400	-	-	-	-	-	69	-
<i>PS 73 BW</i>	●	K		150-1500	-	-	-	-	-	68	-
<i>PS 73 W Soft</i>	●	K		40, 60-1000	29	-	-	-	-	-	-
<i>PS 22 K</i>	●	K		24, 40, 60-240, 320, 400	-	-	-	-	-	-	79
<i>PS 33 BK</i>	●	K		150-320, 400-600	-	-	-	-	-	-	80
<i>PS 33 CK</i>	●	K		40, 60-120	-	-	-	-	-	-	80
<i>PS 36 CK</i>	●	K		50-180	-	-	-	-	-	-	84
<i>FP 73 WK</i>	●	K		80-180, 240, 320, 400-1500	-	-	-	-	-	-	83
<i>PS 73 BWK</i>	●	K		150-1500	-	-	-	-	-	-	82
<i>PS 73 CWK</i>	●	K		40, 60-120	-	-	-	-	-	-	82
<i>PS 33 BS / CS</i>	●	K		40, 60-320, 400, 600	-	-	-	-	-	-	86
<i>PS 33 BS / CS Disc Roll</i>	●	K		40, 60-320, 400, 600	-	-	-	-	-	-	87
<i>HTJ 153 Z</i>	●	K/L		2000 (very fine)	-	-	-	-	-	71	-
<i>LS 309 J</i>	●	K		60-500	23	-	36	-	-	-	-
<i>LS 309 JF</i>	●	K		60-400, 600	-	-	36	-	-	-	-
<i>LS 309 XH</i>	●	K		40-180, 240	-	37	-	-	-	-	-
<i>CS 310 X</i>	●	K		16-24, 36-320, 400-600	23	-	39	58	-	-	-
<i>CS 310 XF</i>	●	K		40-280	-	-	42	-	-	-	-
<i>CS 311 Y ACT</i>	○	K		36-220	24	-	41	57	-	-	-

● = close ● = semi-open ○ = open

Bonding agent

K Resin
L Glue

Product guide

Coated abrasives

	Type	Properties	Backing	Grain type
Abrasive cloth	LS 312 JF	specialty coated	JF-cotton	Aluminum oxide
	LS 318 JF ACT	ANTISTATIC	JF-cotton, SUPERFLEX	Aluminum oxide
	CS 320 Y	waterproof	Y-polyester	SiC
	CS 321 X	waterproof	X-cotton	SiC
	CS 322 X	waterproof	X-cotton	Cork
	CS 326 Y	KULEX, waterproof	Y-polyester	Aluminum oxide-agglomerate
	CS 330 X	waterproof	X-cotton	SiC / Cork
	KL 361 JF		JF-cotton	Aluminum oxide
	KL 371 X		X-cotton	Aluminum oxide
	KL 385 JF		JF-cotton	Aluminum oxide
	CS 409 Y	multibond	Y-polyester	Zirconia alumina
	CS 410 X	multibond	X-cotton	Aluminum oxide
	CS 411 X		X-cotton	Zirconia alumina
	CS 411 Y	waterproof	Y-polyester	Zirconia alumina
	CS 412 Y	waterproof	Y-polyester	Aluminum oxide
	CS 416 Y	waterproof	Y-polyester	Zirconia alumina
	CS 631 XF	multibond	XF-cotton	Ceramic aluminum oxide
	CS 811 Y ACT	waterproof	Y-polyester	Zirconia alumina
	CS 910 Y ACT	multibond	Y-polyester	Ceramic aluminum oxide
	CS 912 Y ACT	waterproof	Y-polyester	Ceramic aluminum oxide
CS 931 JF	multibond	JF-cotton	Ceramic aluminum oxide	
PSA	CS 310 XS		X-cotton	Aluminum oxide
	CS 411 XS		X-cotton	Aluminum oxide
Fibre discs	CS 561		Fibre	Aluminum oxide
	CS 565		Fibre	Zirconia alumina
	CS 570	multibond	Fibre	Zirconia alumina
	FS 966 ACT	multibond	Fibre	Ceramic aluminium oxide
Non-woven web	NRO 400		Non-woven web	Aluminum oxide/SiC
	NPA 400		Non-woven web	Aluminum oxide/SiC
	NDS 800		Non-woven web with polyester lining	Aluminum oxide
	NBF 800	waterproof	Non-woven web with polyester lining	Aluminum oxide
	NBS 800	waterproof	Non-woven web with polyester lining	Aluminum oxide
Hand blocks/ Sponges	AS 400 (Abrasive Screen)	Abrasive Screen	Non-woven web with polyester lining	SiC
	SW 309 (Foam)	Foam		
	CS 395 X (Graphite)	Graphite coated cloth		
Hand blocks/ Sponges	SK 500	Abrasive hand block, flexible		Aluminum oxide
	SW 510	Abrasive sponge, HI-FLEX, coated on 1 side		Aluminum oxide
	SW 520	Abrasive sponge, coated on 2 sides		Aluminum oxide

Cloth

X	Cloth, heavy
J	Cloth, light
XF	Cloth, heavy, flexible
JF	Cloth, light, highly flexible
Y	Polyester cloth
Z	Polyester cloth, heavy, can be divided into segments

Paper

A	approx. 95 g/m ²
B	approx. 105 g/m ²
C	approx. 110 g/m ²
D	approx. 130 g/m ²
E	approx. 250 g/m ²
F	approx. 300 g/m ²
G	approx. 400 g/m ²

Product guide

Coated abrasives



Type	Coating	Bonding agent	Waterproof	Available grits	Page						
					Rolls	Belts for handheld grinders	Short and long belts	Wide belts	Fibre discs	Strips/Sheets	Discs
<i>LS 312 JF</i>	●	K		60-320, 400	-	-	42	-	-	-	-
<i>LS 318 JF ACT</i>	○	K		60-180, 240, 320, 400	-	-	42	-	-	-	-
<i>CS 320 Y</i>	●	K	✓	24, 40, 60-120, 180	-	-	43	58	-	-	-
<i>CS 321 X</i>	●	K	✓	80-320, 400, 500, 800	-	-	44	-	-	-	-
<i>CS 322 X</i>	●	K	✓	Polishing fineness	-	-	44	-	-	-	-
<i>CS 326 Y</i>		K	✓	80, 120, 180, 240, 320, 400, 600, 800	-	-	45	-	-	-	-
<i>CS 330 X</i>	●	K	✓	220, 280, 400, 600, 800	-	-	45	-	-	-	-
<i>KL 361 JF</i>	●	K		30, 40-600	25	-	-	-	-	70	-
<i>KL 371 X</i>	●	L		30-400	-	-	-	-	-	69	-
<i>KL 385 JF</i>	●	K		40-320, 400, 600	26	-	-	-	-	71	-
<i>CS 409 Y</i>	●	K		36-120	-	-	45	-	-	-	-
<i>CS 410 X</i>	●	K		40, 60-180	-	-	46	-	-	-	-
<i>CS 411 X</i>	●	K		24, 36-80, 120	-	-	46	-	-	-	-
<i>CS 411 Y</i>	●	K	✓	24, 36-120	-	-	47	-	-	-	-
<i>CS 412 Y</i>	●	K	✓	24, 36-180, 240	-	-	48	59	-	-	-
<i>CS 416 Y</i>	●	K	✓	24, 36-120	-	-	49	-	-	-	-
<i>CS 631 XF</i>	●	K		60-120	-	-	49	-	-	-	-
<i>CS 811 Y ACT</i>	●	K	✓	24, 36-80	-	-	49	-	-	-	-
<i>CS 910 Y ACT</i>	●	K		24, 36-80	-	-	50	-	-	-	-
<i>CS 912 Y ACT</i>	●	K	✓	24, 36-180	-	-	50	-	-	-	-
<i>CS 931 JF</i>	●	K		80-120, 180, 240-320, 400	-	-	50	-	-	-	-
PSA <i>CS 310 XS</i>	●	K		16-320, 400-600	-	-	-	-	-	-	88
<i>CS 411 XS</i>	●	K		24, 36-80, 120	-	-	-	-	-	-	89
Fibre discs <i>CS 561</i>	●	K		16, 240, 320	-	-	-	-	122	-	-
<i>CS 565</i>	●	K		24, 36-100	-	-	-	-	123	-	-
<i>CS 570</i>	●	K		24, 36-120	-	-	-	-	124	-	-
<i>FS 966 ACT</i>	●	K		24, 36-80, 120	-	-	-	-	125	-	-
Non-woven web <i>NRO 400</i>		K		medium, very fine	28	-	-	-	-	-	-
<i>NPA 400</i>		K		coarse, general purpose, very fine, ultra fine	-	-	-	-	-	73	-
<i>NDS 810</i>		K		coarse, medium, very fine	-	-	-	-	-	-	90
<i>NBF 820</i>		K	✓	coarse, medium, very fine	-	-	51	-	-	-	-
<i>NBS 820</i>		K	✓	coarse, medium, very fine	-	-	51	-	-	-	-
<i>AS 400 (Abrasive Screen)</i>		K		60, 80, 100, 120	-	-	-	-	-	-	78
<i>SW 309 (Foam)</i>				120, 150, 180	28	-	-	-	-	-	-
<i>CS 395 X (Graphite)</i>					21	-	-	-	-	-	-
Hand blocks/Sponges <i>SK 500</i>				80, 100, 120, 180, 220	-	-	-	-	-	74	-
<i>SW 510</i>				100, 180, 220, 280	-	-	-	-	-	75	-
<i>SW 520</i>				80, 120, 180, 220	-	-	-	-	-	75	-

● = close ● = semi-open ○ = open

Bonding agent

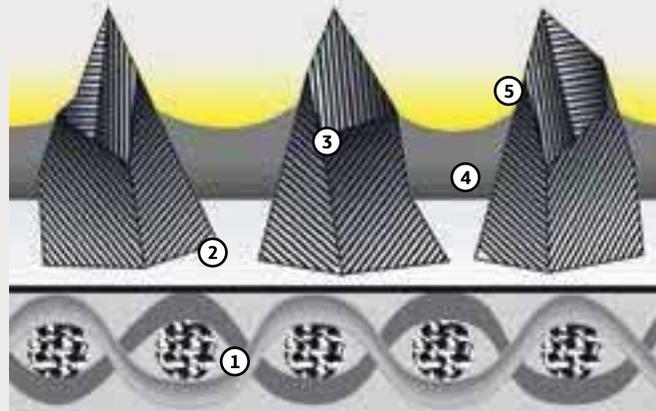
K Resin
L Glue

Coated abrasives

Applications guide

Coated abrasives are abrasive products that are made out of more or less flexible backing material upon which grit is anchored with a bonding agent. The product family "coated abrasives" includes abrasive belts, rolls, sheets, strips and discs. They comprise of the following four, optionally also five, components (please refer to the illustration on the right):

- ▶ 1. Backing
- ▶ 2. Base coat
- ▶ 3. Grit
- ▶ 4. Topsize coat
- ▶ 5. Optional: additional coating



Structure

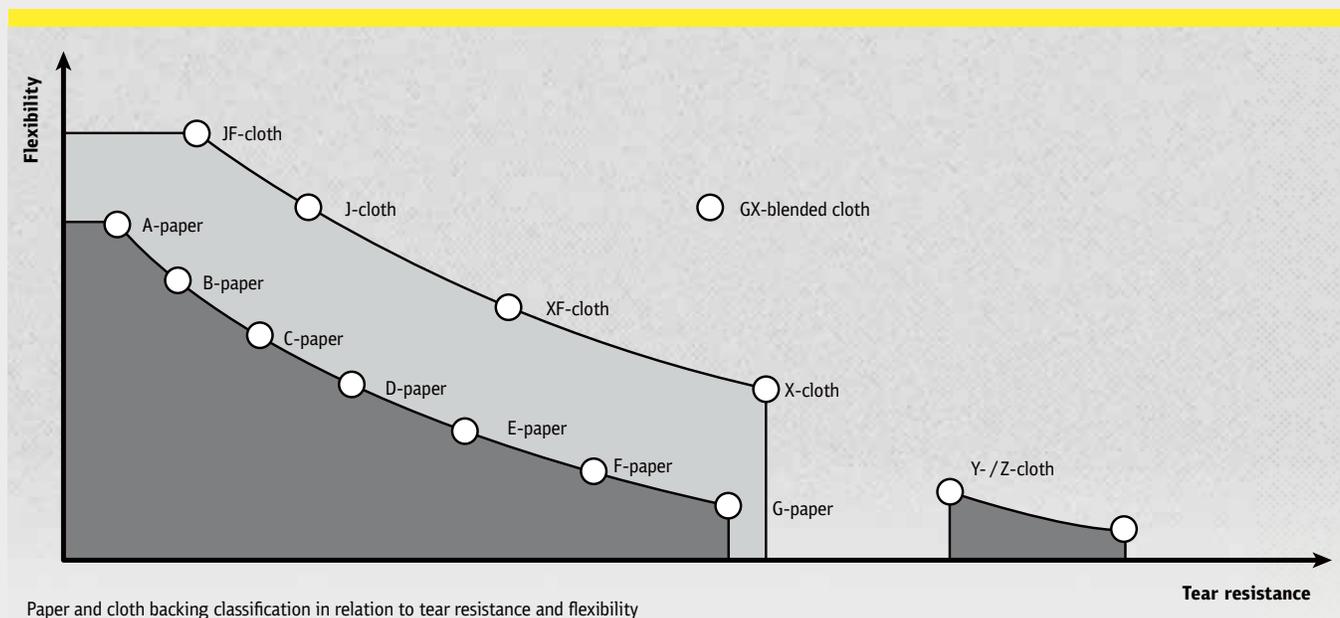
1. Coated abrasive backing

The backing is coated with grit and transfers stock removal forces onto the workpiece. The following backings are primarily used in the manufacture of coated abrasives:

- ▶ Paper
- ▶ Cotton cloth
- ▶ Polyester cloth

In addition, at Klingspor the following backings are used exclusively for individual products and/or for specific requirements/applications:

- ▶ Fibre (is used exclusively for fibre discs on portable angle grinders)
- ▶ Film (is used exclusively with abrasive disc FP 73 WK)
- ▶ GX-blended cloth (special cotton/polyester blend for flexible yet highly tear resistant belts)





Coated abrasives

Applications guide

Backing	Description	Application examples
A – paper	approx. 95 g/m ²	profile + surface grinding (hand)
B – paper	approx. 105 g/m ²	profile + surface grinding (hand)
C – paper	approx. 110 g/m ²	surface grinding (hand)
D – paper	approx. 130 g/m ²	surface grinding (hand and machine)
E – Papier	approx. 250 g/m ²	surface grinding (machine)
F – paper	approx. 300 g/m ²	surface grinding (machine)
G – paper	approx. 400 g/m ²	surface grinding (machine)
JF – cloth	light, highly flexible	high profiled workpieces (hand and machine)
GX – blended cloth	light, flexible	profiled workpieces (machine)
J – cloth	light, flexible	profiled workpieces (hand and machine)
XF – cloth	heavy, flexible	hand tool belt grinder
X – cloth	heavy, firm	surfaces, edges, rotation bodies (machine)
Y – cloth	heavy, highly firm	surfaces, edges, rotation bodies (machine)
Z – cloth	heavy, highly firm, can be segmented	surface grinding (machine)

2. Base coat

In the base coat step the grit is anchored. The basic bond is the connection between the grit and the backing. It is primarily formed using resin, this provides it with its consistent high quality properties. Glue is only added to a few abrasive papers that are used with hand operated machines and applications.

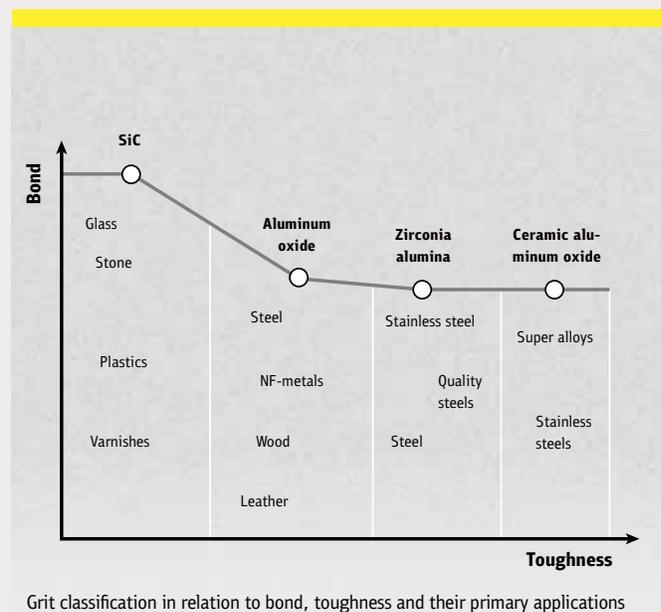
3. Grit

Grit is responsible for stock removal. When selecting the correct grit two properties are particularly important:

- ▶ Bond
- ▶ Toughness

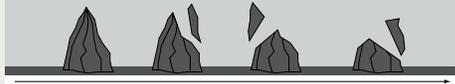
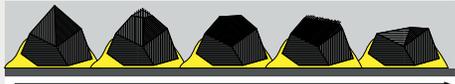
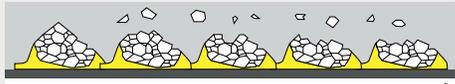
All Klingspor grit types are produced synthetically. This ensures a consistently high quality product. Four different grit types are used with coated abrasives:

- ▶ Silicon carbide
- ▶ Aluminum oxide
- ▶ Zirconia alumina
- ▶ Ceramic aluminum oxide

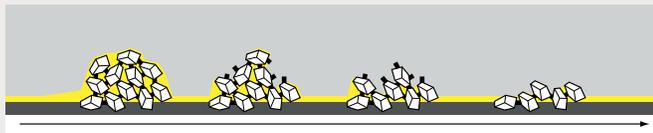


Coated abrasives

Applications guide

Grain Type	Bond / toughness	Structure	Properties / wear properties
Silicon carbide (SiC)	very hard / less tough	crystalline	sharp-edged, brittle, highly friable / micro-wear 
Aluminum oxide	hard / tough	crystalline, irregular	wedge-shaped, blockgrain, even wear 
Zirconia alumina	hard / very tough	crystalline, even	wedge-shaped, block, drop formed grit / micro-wear, self-sharpening 
Ceramic aluminum oxide	hard / very tough	micro-crystalline	sharp-edged, pointed grit / micro-wear, self-sharpening 

Grit type properties and their specific wear properties



Definition	Description
close coating	The entire surface of the backing is coated with grit
semi-open coating	The backing surface is coated with approx. 75% grit volume
open coating	The backing surface is coated with approx. 50% grit volume

In addition, there are also so-called grit agglomerates. This is not an independent grit type, rather it is a grit agglomeration, which is comprised of many individual aluminum-oxide or SiC-grits mixed with a resin bonding agent, which together form a large grit. Agglomerates are only used on belts.

The advantage of agglomerates is that they provide an even finish from the first use to the last. Dull grit breaks off from the agglomerate and creates space for new, sharp grit. The objective is to attain an even finish through continual stock removal and an extremely long service life.

Coating

Moreover, the coated abrasives are coated with different grit coverage densities. The term "grit density" describes the grit coverage density distributed on the backing.

One differentiates between:

- ▶ close coating
- ▶ semi-open coating
- ▶ open coating

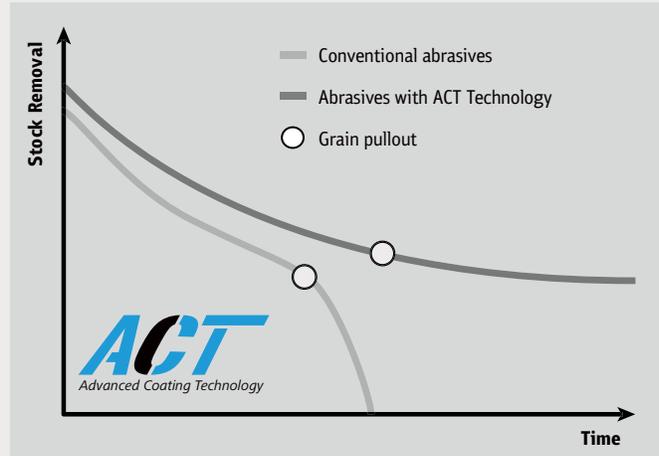
Open coated grit has a large space between the individual grits, such that the stock removal and the grinding dust can be extracted more easily from the grinding surface. This prevents premature clogging when working on long-chipping materials, such as e.g. wood.

The decision as to which grit density to use is primarily dependent upon how great the likelihood is that the grinding dust will clog the space between the grits.



Coated abrasives

Applications guide



4. Size coat

The size coat supports the base coat in the anchoring of the grit on the backing and against forces which affect the grit during grinding. The cover bonds are produced exclusively from resin and also provide the product with its typical colour (exceptions are coated abrasives with additional coatings).

5. Special coatings

Special coatings with grinding aids provide the grinding tool properties that positively affect the grinding process and extends the service life of the coated abrasive. Special coatings are applied as an additional layer.

Stearate coating:

The stearate on a coated abrasive prevents the clogging and loading of the belt and is specifically suited for high quality varnish surface applications. Paints, varnishes and plastics can become soft and sticky through the heat generated from grinding, this can result in the premature clogging and loading of the belt. The dust clogs the space between the grits and this can result in additional "negative bond". This clogs the grits and the sharp edges are no longer effective. To prevent this from happening or to slow the process down, the coated abrasives can be coated with a non-stick material, so-called stearates.

Multibond:

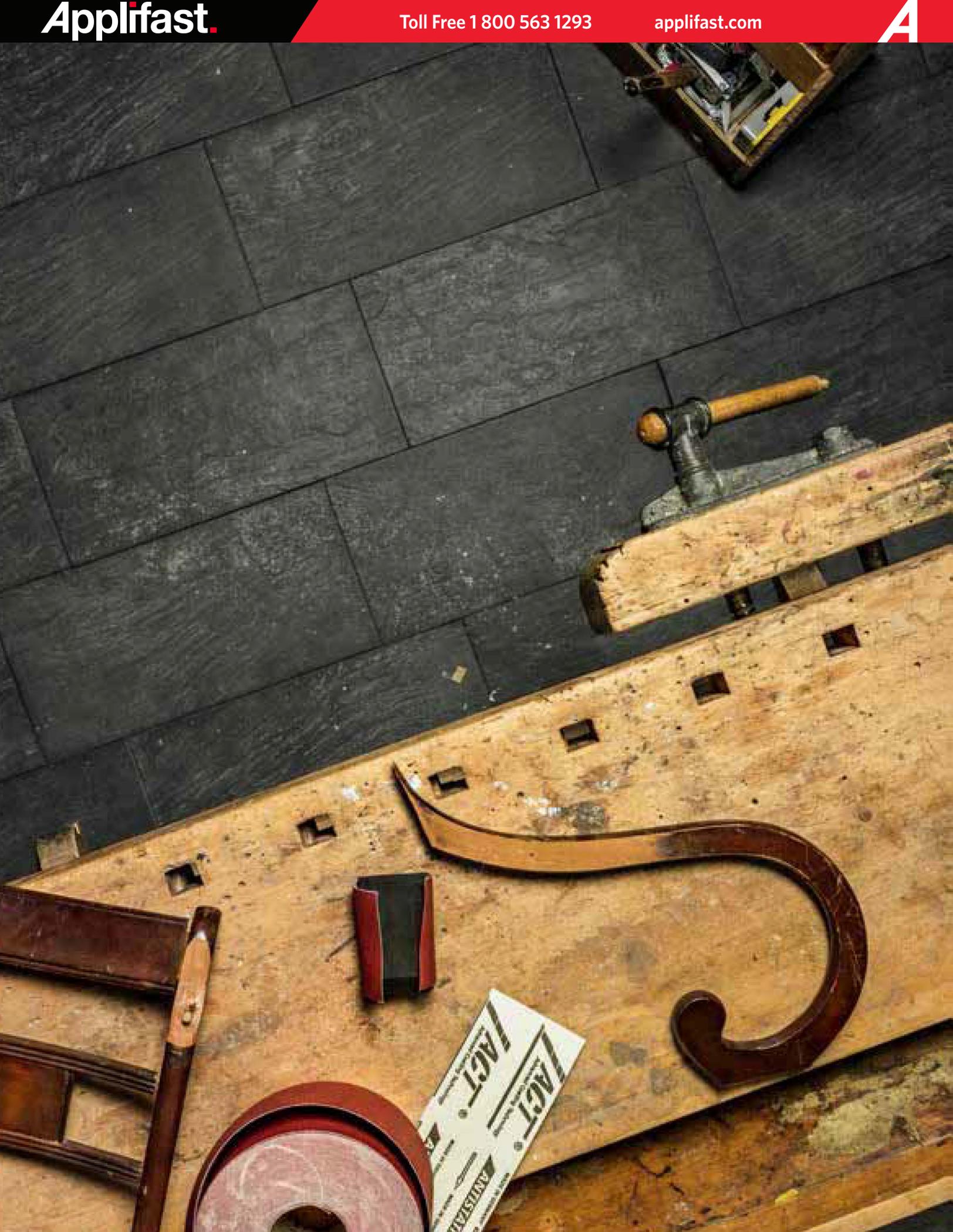
The multibond, like the stearate coating, is applied in an additional production step to the cover bond layer. This allows the cool grinding of stainless steel and high alloy steels, which in turn increases the stock removal rate and service life.

ACT – Advanced Coating Technology:

Klingspor uses this technology to improve the properties of the coated abrasives. When working on metal, ACT provides significantly higher grit adhesion, e.g. for aggressive belt grinding of the edges of punched parts and castings. This significantly increases the life of the grinding belt. For belts that are used for wood and varnish grinding, ACT prevents the premature clogging of the coated abrasives and significantly increases the service life.

Antistatic:

Electrode migration is the result of friction i.e. grinding between different materials, and in turn causes charge separation, which in the case of non-conductive materials, such as wood, results in the load differences not being balanced. In these cases, the coated abrasive is equipped with anti-static properties that ground the electrical charge through the coated abrasive and the machine. This prevents the grinding dust from adhering to the workpiece, belt and machine.





Rolls

Rolls

Applications rolls with paper backing

Application	Type	Grain	Backing	Coating	Characteristics	Page
Wood	PS 19 E/F	SiC	E/F-paper	●	Standard product for wood parquet sanding and floor reconditioning	20
	PS 22 F ACT	Aluminum oxide	F-paper	●	Closed coat for maximum stock removal and uniform scratch pattern regarding surface treatment of hard, low-content woods. ACT and antistatic properties prevent premature clogging	20
	PS 22 N	Aluminum oxide	E-paper	●	Abrasive paper with semi-open coating for high stock removal capacity for the processing of wood	21
	PL 31 B	Aluminum oxide	B-paper	●	Flexible finishing paper with an optimal price-performance ratio for a wide range of applications for the processing of wood, paint and varnish. Provides a smooth surface finish	22
Paint	PL 31 B	Aluminum oxide	B-paper	●	Flexible finishing paper with an optimal price-performance ratio for a wide range of applications for the processing of wood, paint and varnish. Provides a smooth surface finish	22
	PS 73 W Soft	Aluminum oxide	B-/C-paper + foam core	●	Abrasive pads on rolls for de-nibbing and finishing of surfaces, moulded parts and contours. Foam backing for better pressure distribution and a very fine surface finish. The pads are supplied in a convenient dispenser that allows individual pads to be separated by tearing along the perforation	29

Applications rolls with cloth backing

Application	Type	Grain	Backing	Coating	Characteristics	Page
Metals	LS 309 J	Aluminum oxide	J-cotton	●	Flexible abrasive cloth for processing slightly profiled workpieces, high stock removal rate, particularly suited for metal	23
	SW 309 Foam	Aluminum oxide	JF-cotton	●	Long life cloth with cushioning foam which prevents gouging and deep scratches. Suitable for hand and pole sanding in drywall applications	28
	CS 310 X	Aluminum oxide	X-cotton	●	Abrasive cloth for metal and wood working with stable cloth backing, for heavy duty with particular long service life	23
	KL 361 JF	Aluminum oxide	JF-cotton	●	High quality, highly flexible abrasive cloth for versatile applications in the metal processing industry, also suitable for stainless steel	25
	KL 385 JF	Aluminum oxide	JF-cotton	●	Highly flexible universal abrasive cloth for the metal processing industry, good price-performance ratio	26
Wood	LS 309 J	Aluminum oxide	JF-cotton	●	Flexible abrasive cloth for processing slightly profiled workpieces, high stock removal rate, particularly suited for metal	23
	CS 311 Y ACT	Aluminum oxide	Y-polyester	○	Open coat aluminum oxide on tear-resistant polyester cloth for calibrating and intermediate sanding in woodworking. ACT and antistatic properties prevent premature clogging	24
	CS 395 X				Graphite coated cloth designed to reduce friction between the back side of the belt and the contact element and to enable a smooth sanding	21

Applications non-woven web rolls

Application	Type	Grain	Backing	Coating	Characteristics	Page
Metals	NRO 400	Aluminum oxide / SiC	Non-woven web	-	Perfectly suited for light de-burring, cleaning and surface refinement, also suited for stainless steel	28
Wood / Varnish	NRO 400	Aluminum oxide / SiC	Non-woven web	-	Excellent suited to smoothing, cleaning and surface finishing	28

● = close ● = semi-open ○ = open

Type	Grit range
PS 22 F ACT	40-150
PS 28 F	60-150
PS 29 F ACT	60-150
CS 308 Y	40-80, 120
LS 309 X	40-360
LS 309 J	60-320
LS 309 JF	60-400
CS 310 X	24-400
CS 310 XF	40-280
LS 312 JF	60-320, 400
CS 321 X	80-400
CS 333 X	60, 80, 120, 150
CS 341 X	50-320
KL 361 JF	40-600
KL 385 JF	40-600
CS 410 X	60-120
CS 411 X	24-120
CS 411 Y	36-80

Paper	
B	approx. 105 g/m ²
C	approx. 110 g/m ²
D	approx. 130 g/m ²
E	approx. 250 g/m ²
F	approx. 300 g/m ²

Cloth	
X	Cloth, heavy
J	Cloth, light
JF	Cloth, light, highly flexible

Minimum order quantities for non stock items

Width	Minimum order quantities
1"	11 pieces
1-1/8"	10 pieces
1-1/4"	9 pieces
1-1/2"	8 pieces
2"	6 pieces
2-1/2"	4 pieces
3"	4 pieces
4"	3 pieces
4-1/4" to 6"	2 pieces
7"-12"	1 piece

Rolls with paper backing

Coated abrasives

Abrasive paper

PS 19 E/F



Properties

Bonding agent	Resin
Grain	SiC
Coating	Close
Backing	E/F-paper

Applications:

Wood	<input checked="" type="radio"/>
------	----------------------------------

Advantages: Standard product for wood parquet sanding and floor reconditioning

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

Width x Length	Grit	Packing unit/pcs.	Article number
8 x 50 m	36	1	303879
8 x 50 m	40	1	303878
8 x 50 m	60	1	302572
8 x 50 m	80	1	303880

Abrasive paper

PS 22 F ACT



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	F-paper

Applications:

Wood	<input checked="" type="radio"/>	Steel	<input type="radio"/>
Metals	<input type="radio"/>	NF metals	<input type="radio"/>
Paint/Varnish/Filler	<input type="radio"/>		
Plastic	<input type="radio"/>		

Advantages: High abrasive performance - Uniform, fine surface scratch pattern - Premium product for use on hardwood, varnish, filler - Long service life and minimal clogging due to ACT recipe - High edge stability

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 19. Please see Applications Guide on page 19.

Rolls with paper backing

Coated abrasives



Rolls

Abrasive paper

PS 22 N



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Semi-open
Backing	E-paper

Applications:

Wood	●	Steel	○
Drywall	●	Plastic	○
Metals	○		
Paint/Varnish/Filler	○		

Advantages: Universal product for hand sanding and hand-held machine sanding of virtually any material - High stock removal capacity on hardwood and drywall

Available grits:

- 16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Packing unit/pcs.	Article number
3-1/2 x 25 m	80	1	293542
3-1/2 x 25 m	100	1	293543
3-1/2 x 25 m	120	1	293544
3-1/2 x 25 m	150	1	293555
3-1/2 x 50 m	80	1	293557
3-1/2 x 50 m	100	1	293558
3-1/2 x 50 m	120	1	293559
3-1/2 x 50 m	150	1	293560
3-1/2 x 50 m	180	1	293561

Graphite-coated canvas

CS 395 X



Properties

Grain	Graphite
Coating	lamellar
Backing	X-cloth

Advantages: Reduces friction between the back side of the belt and the contact element and reduces the heat generation during the grinding process - Enables a smooth and constant grinding

Width x Length	Packing unit/pcs.	Article number
6 x 10 yd	1	300153

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 19. Please see Applications Guide on page 19.

Rolls with paper backing

Coated abrasives

Finishing paper

PL 31 B



Properties

Bonding agent	Glue
Grain	Aluminum oxide
Coating	Semi-open
Backing	B-paper

Applications:

Paint/Varnish/Filler	●
Wood	●
Metals	○

Advantages: Product with optimal price-performance ratio - Optimized wear properties for hand sanding and hand-held machine sanding - Low clogging provides a long service life and a smooth surface finish

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 19. Please see Applications Guide on page 19.

Rolls with cloth backing

Coated abrasives



Rolls

Abrasive cloth

LS 309 J



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	J-cotton

Applications:

Metals	●
Wood	●

Advantages: Good abrasive performance for working on slight contours on metal and wood

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth

CS 310 X



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	X-cotton

Applications:

Metals	●
Wood	●

Advantages: High-quality universal abrasive cloth for diverse applications in metal- and wood-working - Good price-performance ratio

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 19. Please see Applications Guide on page 19.

Rolls with cloth backing

Coated abrasives

Abrasive cloth ANTISTATIC for drum sanders

CS 311 Y ACT



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Open
Backing	Y-polyester

Applications:

Wood	●
Metals	○

Advantages: Good removal rate for working on wood under high stress - Minimal clogging and long service life due to ACT recipe and antistatic properties - Material designed for drum sanders

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Packing unit/pcs.	Article number
3 x 50 m	60	1	299054
3 x 50 m	80	1	260886
3 x 50 m	100	1	260675
3 x 50 m	120	1	260864
3 x 50 m	150	1	299763
3 x 50 m	220	1	299764
4 x 50 m	80	1	299775
4 x 50 m	100	1	235570
4 x 50 m	120	1	299776
4 x 50 m	150	1	289359
4 x 50 m	180	1	302462
5 x 50 m	80	1	302476
5 x 50 m	120	1	302470

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 19. Please see Applications Guide on page 19.

Rolls with cloth backing

Coated abrasives



Rolls

Shop roll, brown

KL 361 JF



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	JF-cotton

Applications:

Stainless steel	●	Wood	●
Steel	●	Plastic	○
Metals	●		
NF metals	●		

Advantages: High-quality universal abrasive cloth - Optimal adaptation to workpiece contours - Tears off cleanly and easily from the roll

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Packing unit/pcs.	Article number
1 x 50 m	40	1	3769
1 x 50 m	60	1	3771
1 x 50 m	80	1	3772
1 x 50 m	100	1	3773
1 x 50 m	120	1	3774
1 x 50 m	150	1	3775
1 x 50 m	180	1	3776
1 x 50 m	220	1	3777
1 x 50 m	240	1	3778
1 x 50 m	320	1	3780
1 x 50 m	400	1	3782
1 x 50 m	600	1	64825
1-1/2 x 50 m	40	1	3833
1-1/2 x 50 m	60	1	3835
1-1/2 x 50 m	80	1	3836
1-1/2 x 50 m	100	1	3837
1-1/2 x 50 m	120	1	3838
1-1/2 x 50 m	150	1	3839
1-1/2 x 50 m	180	1	3840
1-1/2 x 50 m	220	1	3841
1-1/2 x 50 m	240	1	3842
1-1/2 x 50 m	320	1	3844
1-1/2 x 50 m	400	1	3846
1-1/2 x 50 m	600	1	64830
2 x 50 m	40	1	3849
2 x 50 m	60	1	3851
2 x 50 m	80	1	3852
2 x 50 m	100	1	3853
2 x 50 m	120	1	3854
2 x 50 m	150	1	3855

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 19. Please see Applications Guide on page 19.

Continuation →

Rolls with cloth backing

Coated abrasives

→ Continuation of KL 361 JF, Shop roll, brown

Width x Length	Grit	Packing unit/pcs.	Article number
2 x 50 m	180	1	3856
2 x 50 m	220	1	3857
2 x 50 m	240	1	3858
2 x 50 m	320	1	3860
2 x 50 m	400	1	3862
2 x 50 m	600	1	64832

Abrasive cloth, brown

KL 385 JF



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	JF-cotton

Applications:

Metals	●	Wood	○
NF metals	●		
Stainless steel	○		
Plastic	○		

Advantages: Attractively priced universal product for profile sanding - Optimal adaptation to workpiece contours - Tears off cleanly and easily from the roll

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length	Grit	Packing unit/pcs.	Article number
1 x 50 m	60	1	218196
1 x 50 m	80	1	218197
1 x 50 m	100	1	218198
1 x 50 m	120	1	218199
1 x 50 m	150	1	218200
1 x 50 m	180	1	218201
1 x 50 m	220	1	221136
1 x 50 m	240	1	218202
1 x 50 m	320	1	221138
1 x 50 m	400	1	221140
1 x 50 m	600	1	221142
1-1/2 x 50 m	60	1	218079
1-1/2 x 50 m	80	1	218080
1-1/2 x 50 m	100	1	218081
1-1/2 x 50 m	120	1	218082
1-1/2 x 50 m	150	1	218083
1-1/2 x 50 m	180	1	218084
1-1/2 x 50 m	220	1	218085

Continuation →

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 19. Please see Applications Guide on page 19.

Rolls with cloth backing

Coated abrasives



→ Continuation of KL 385 JF, Abrasive cloth, brown

Width x Length	Grit	Packing unit/pcs.	Article number
1-1/2 x 50 m	240	1	218086
1-1/2 x 50 m	320	1	218088
1-1/2 x 50 m	400	1	218090
2 x 50 m	40	1	218094
2 x 50 m	60	1	218096
2 x 50 m	80	1	218097
2 x 50 m	100	1	218098
2 x 50 m	120	1	218099
2 x 50 m	150	1	218100
2 x 50 m	180	1	218101
2 x 50 m	220	1	218102
2 x 50 m	240	1	218103
2 x 50 m	320	1	218105
2 x 50 m	400	1	218107
4 x 50 m	80	1	247300
4 x 50 m	120	1	218210
4 x 50 m	180	1	218212

Rolls

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 19. Please see Applications Guide on page 19.

Rolls

Non-woven web, foam

Non-woven web

NRO 400



Properties

Bonding agent Resin

Applications

Al. oxide:

Stainless steel	●
Metals	●
Wood	●
Plastic	○
Paint/Varnish/Filler	○

Advantages: Very good adaptation to surface contours - No clogging - Ideal for smoothing, cleaning, roughening and for general surface finishing

Width x Length	Grade	Grain	Colour	Packing unit/pcs.	Article number
4 x 10 m	Medium	Al. oxide	Maroon	1	258870
4 x 10 m	Very fine	Al. oxide	Maroon	1	258873
6 x 10 m	Very fine	Al. oxide	Maroon	1	258893

Abrasive cloth

SW 309 JF (FOAM)



Properties

Bonding agent Resin	
Grain	Aluminum oxide
Coating	Close
Backing	JF-cotton

Applications:

Drywall	●
---------	---

Advantages: Long life cloth with cushioning foam which prevents gouging and deep scratches - Suitable for hand and pole sanding in drywall applications

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
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Width x Length	Grit	Packing unit/pcs.	Article number
3-1/2 x 10 m	120	1	302629
3-1/2 x 10 m	150	1	302630
3-1/2 x 10 m	180	1	302631
3-1/2 x 10 m	220	1	302628

Other grits/grades and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 19. Please see Applications Guide on page 19.

Rolls

Foam



NEW

Foam rolls, perforated

PS 73 W Soft



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Semi-open
Backing	B/C-paper

Applications:

Wood	●
Paint/Varnish/Filler	●
Plastic	●

Advantages: Very good distribution of sanding pressure because of elastic and conforming foam backing, which prevents over sanding of thin coatings and provides a very fine finish - High flexibility and very good adaptability to contours and profiles - Reduced clogging due to additional stearate coating and semi-open coated grain - Easy handling by tearing handy pads from a perforated roll out of a dispenser box

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length in mm	Grit	Packing unit/pcs.	Article number
4-1/2 x 25 m / 140 mm	120	1	321755
4-1/2 x 25 m / 140 mm	180	1	321756
4-1/2 x 25 m / 140 mm	240	1	321757
4-1/2 x 25 m / 140 mm	320	1	321758
4-1/2 x 25 m / 140 mm	400	1	321760

Minimum order quantity for manufactured items on request
Grits 40 - 100 roll length 20 m; Grits 120 - 1000 roll length 25 m

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 19. Please see Applications Guide on page 19.



Abrasive belts



About the product

Applications guide

- ▶ Suitable for all sanding and grinding operations: with unsupported belt, sander pad and contact wheel
- ▶ Special designs for customized applications, e.g. for furniture production to enable fast and clean preparation of large surfaces ready for painting

- ▶ Wide range of sizes
- ▶ Paper and cloth backed
- ▶ All products with high tensile strength and optimum stretching resistance

Belts

Applications for abrasive belts with paper backing

Application	Type	Grain	Backing	Coating	Characteristics	Page
Steel / Stainless Steel	PS 20 F	Al. oxide	F-paper	●	Closed coat and heavy, tear resistant backing for high stock removal rate and a long service life for metalworking	34, 53
	PS 21 F	Zirconia alumina	F-paper	●	Closed coat, tear resistant backing and high quality, self-sharpening zirconia alumina grain for a long service life and high grinding performance particularly on stainless steel surfaces	34, 53
Wood	PS 22 F ACT	Al. oxide	F-paper	●	Closed coat for maximum stock removal and uniform scratch pattern regarding surface treatment of hard, low content woods. ACT and antistatic properties prevent premature clogging	34, 54
	PS 26 F	Al. oxide	F-paper	○	Open coat and a surface with high electric conductivity through an antistatic additive prevent the electrostatic charge and premature clogging of the belt, for maximum efficiency and long service life, for all kinds of wood, particularly soft and high resin woods, e.g. spruce, pine, etc.	35, 55
	PS 28 F	Al. oxide	F-paper	○	Open coat and antistatic properties prevent premature clogging of the belt with grinding dust, sturdy, tear resistant backing, for all kinds of wood, particularly soft and high resin woods, e.g. spruce, pine	35, 55
	PS 29 F ACT	Al. oxide	F-paper	○	Abrasive belt with outstanding service life. Open coat, antistatic properties as well as ACT prevent premature clogging. The abrasive paper is particularly suitable for processing soft and high resin woods	36, 56
Paint, varnish, filler	PS 24 F ACT	SiC	F-paper	●	Closed coat, a stable backing with hard silicon grit for painted and coated surfaces in the timber and especially the furniture industry	35, 54

Applications for abrasive belts with cloth backing

Application	Type	Grain	Backing	Coating	Characteristics	Page
Steel	LS 309 J	Al. oxide	J-cotton	●	Flexible abrasive cloth for processing slightly profiled workpieces, high stock removal rate, particularly suited for metal	36
	LS 309 JF	Al. oxide	JF-cotton	●	Highly flexible abrasive cloth for highly profiled workpieces for the manufacture of fine surfaces in metal and wood working	36
	LS 309 XH	Al. oxide	X-cotton	●	Standard quality for portable belt sanders, especially suited for the processing of metal, wood, paint and varnish	37
	CS 310 X	Al. oxide	X-cotton	●	Abrasive cloth for metal and wood working with stable cloth backing, for heavy duty with particularly long service life	39, 58
	CS 410 X	Al. oxide	X-cotton	●	Abrasive cloth with tear resistant backing for heavy-duty, multibond for long service life, especially suited for stainless steel processing	46
	CS 412 Y	Al. oxide	Y-polyester	●	Sturdy and highly tear resistant polyester backing for coarse and intermediate grinding on metal	48, 59
	CS 310 XF	Al. oxide	XF-cotton	●	Flexible abrasive cloth for profiled metal formed parts, standard quality for use with hand tool belt grinders	42
Steel / Stainless steel	CS 411 X	Zirconia alumina	X-cotton	●	High performance belt with high stock removal rate for rough grinding and deburring of steel and stainless steel	46
	CS 411 Y	Zirconia alumina	Y-polyester	●	Particularly tear resistant high performance belt with high stock removal rate for rough grinding and deburring of stainless steel and steel	47
	CS 416 Y	Zirconia alumina	Y-polyester	○	Extra tear resistant abrasive belt with high stock removal rates for grinding steel and stainless steel with a semi-open coat	49
	CS 330 X	SiC / cork	X-cotton waterproof	●	Special belt for steel and stainless steel on surface belt grinders and circular grinding machines, particularly suitable for satin polishing and finishing	45
	CS 811 Y ACT	Zirconia alumina	Y-polyester	●	Excellent grain adhesion, stable, highly tear-resistant polyester backing for particularly high duty during rough grinding and deburring of steel and stainless steel. High quality zirconia alumina for highest aggressiveness over the complete service life	49
Stainless steel	LS 312 JF	Al. oxide	JF-cotton	●	Highly flexible, specially coated high quality product for stainless steel shaped parts e.g. fittings, mountings and surgical instruments	42
	CS 931 JF	Ceramic al. oxide	JF-cotton	○	Special product with highly flexible backing for use on stainless steel and high alloy steels. Continuously aggressive abrasive performance with a long service life due to semi-open coat self-sharpening ceramic grit. Multibond for "cool grinding" with no discoloration	50

● = close ○ = semi-open ○ = open

Continuation →

Abrasive belts

Applications guide

Applications for abrasive belts with cloth backing						
Application	Type	Grain	Backing	Coating	Characteristics	Page
Stainless steel	CS 631 XF	Ceramic al. oxide	XF-cotton	●	Flexible highly efficient belt for best grinding performance, long service life through self-sharpening ceramic grain for rough and intermediate grinding of contours, profiles and fittings, with multibond for cool grinding	49
	CS 411 X	Zirconia alumina	X-cotton	●	High performance belt with high stock removal rate for rough grinding and deburring of steel and stainless steel	46
	CS 411 Y	Zirconia alumina	Y-polyester	●	Particularly tear resistant high performance belt with high stock removal rate for rough grinding and deburring of stainless steel and steel	47
	CS 416 Y	Zirconia alumina	Y-polyester	●	Extra tear resistant abrasive belt with high stock removal rates for grinding steel and stainless steel with a semi-open coat	49
	CS 409 Y	Zirconia alumina	Y-polyester	●	Extremely tear resistant high performance belt with high stock removal efficiency and long service life due to additional multibond, for stainless steel and high alloy steels, cool grinding	45
	CS 912 Y ACT	Ceramic al. oxide	Y-polyester	●	Extremely tear resistant high performance belt with self-sharpening ceramic grain for high stock removal efficiency and long service life for processing high alloy steels	50
	CS 910 Y ACT	Ceramic al. oxide	Y-polyester	●	Extremely tear resistant high performance belt with self-sharpening ceramic grain for high stock removal efficiency and long service life for processing high alloy steels, multibond for cool grinding	50
	CS 330 X	SiC / cork	X-cotton waterproof	●	Special belt for steel and stainless steel on surface belt grinders and circular grinding machines, particularly suitable for satin polishing and finishing	45
	CS 326 Y	Al. oxide agglomerate	Y-polyester	●	Long life belt for wet grinding with extremely long service and uniform scratch pattern for centerless circular and surface grinding	45
	CS 811 Y ACT	Zirconia alumina	Y-polyester	●	Excellent grain adhesion, stable, highly tear resistant polyester backing for particularly high duty during rough grinding and deburring of steel and stainless steel. High quality zirconia alumina for highest aggressiveness over the complete service life	49
Wood	LS 309 XH	Al. oxide	X-cloth	●	Standard quality for portable belt sanders, especially suited for the processing of metal, wood, paint and varnish	37
	CS 311 Y ACT	Al. oxide	Y-polyester	○	Aluminum oxide quality with an open coat on tear resistant polyester backing for calibration and intermediate grinding when working with wood	41, 57
	LS 318 JF ACT	Al. oxide	JF-cloth	○	Highly flexible J-Flex backing for intermediate sanding and finishing of highly profiled and curved wooden parts. ACT and antistatic properties prevent premature clogging	42
Glass	CS 320 Y	SiC	Y-polyester	●	Highly tear resistant special belt for high demands for wet and dry grinding of glass, ceramic and plastic	43, 58
	CS 321 X	SiC	X-cloth	●	Special belt for wet and dry grinding of glass, ceramic and plastic	44
	CS 322 X	(Cork)	X-cloth waterproof	●	Special belt for polishing glass	44

Applications for non-woven web belts						
Application	Type	Grain	Backing	Coating	Characteristics	Page
Stainless steel	NBF 820	Al. oxide	Non-woven web + polyester lining		Special product for working metal and stainless steel surfaces with a tool belt grinder. Very high service life, no premature clogging, high edge stability, tear resistant belt joint	51
	NBS 820	Al. oxide	Non-woven web + polyester lining		Structure as for NBF 820, though for handheld machines with larger pulleys and stationary belt sanders	51

● = close ● = semi-open ○ = open

Minimum order quantities for non stock items:

Width	Minimum order quantities
Dynafile belts 1/8" to 1"	50 pieces
1" - 2"	24 pieces
3"	20 pieces
4"	15 pieces
5" - 6"	10 pieces
6" - 12"	10 pieces
16" and greater	5 pieces

Minimum order quantities NBF 820 / NBS 820

Width	Minimum order quantities
Dynafile up to 1"	10 pieces
2" and greater	2 pieces

In general, belts are manufactured from 12" material, exact quantities are not always possible and over or under shipments may occur.

Short and long belts

Applications guide



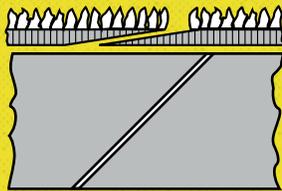
Belt joints for long and short belts

Klingspor supplies belts with various types of joints. The type of joint you require depends on the work involved and the machine you are using. The following illustrations show the most common joints.

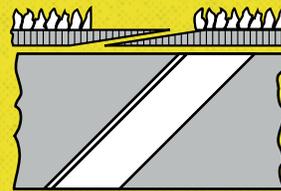
The available types of joint are listed in the product charts on the following product pages.

If the product you require is not in stock, we will manufacture it for you subject to a minimum order quantity.

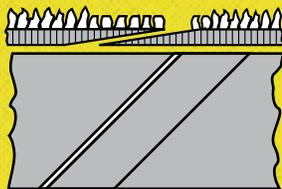
Belts



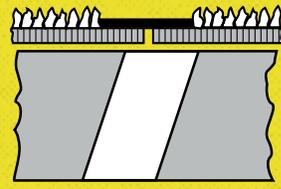
Type 1
Diagonal cut, glued overlapped.



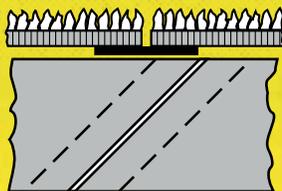
Type 5
Overlapping glued joint. Grit zone is completely ground off. Preferred joint for wood finishes with flat contact elements



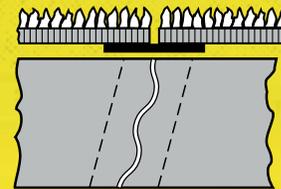
Type 2
Diagonal cut, glued overlapped. Grain tips are completely removed from the overlap to provide for a smoother running belt



Type 6 G
Diagonal cut, butt joint with cloth-reinforced foil glued on grit side. Grit zone is completely ground off. Use on machines with planar contact elements.



Type 4 G
Diagonal cut. Butt joint with cloth-reinforced foil backing. Also suitable for working on unsupported belts, for demanding requirements.



Type 7 G
Sine joint, with cloth-reinforced foil backing, impact-free working at very sensitive parts, for demanding requirements.

Belts with paper backing

Coated abrasives

Abrasive paper

PS 20 F



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	F-paper

Applications:

Metals	●
NF metals	●
Stainless steel	●
Steel	○

Advantages: Universal type for finish grinding of steel, stainless steel and other metals - High stock removal rate

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive paper

PS 21 F



Properties

Bonding agent	Resin
Grain	Zirconia alumin./ Al. oxide
Coating	Close
Backing	F-paper

Applications:

Stainless steel	●
Metals	●
Steel	●

Advantages: High aggressiveness and long service life due to self-sharpening zirconia alumina - Specially developed for rough grinding through finish grinding of stainless steel surfaces

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive paper, ANTISTATIC

PS 22 FACT



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	F-paper

Applications:

Wood	●	Plastic	○
Metals	○		
NF metals	○		
Paint/Varnish/Filler	○		

Advantages: High removal rate, fine surface scratch pattern - Specially developed for finish grinding of hardwood - Reduced clogging and longer service life due to ACT recipe and antistatic properties

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with paper backing

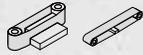
Coated abrasives



Belts

Abrasive paper, ANTISTATIC

PS 24 F ACT



Properties

Bonding agent	Resin
Grain	SiC
Coating	Close
Backing	F-paper

Applications:

Paint/Varnish/Filler	●
Plastic	●
Wood	○

Advantages: For hard and tough surfaces - Finely sanded and varnish surfaces in the wood and furniture industry - Long service life due to ACT recipe and antistatic properties

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive paper SUPER ANTISTATIC

PS 26 F



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Open
Backing	F-paper

Applications:

Wood	●
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Advantages: Premium quality paper for solid wood and veneer - Very long service life - No dust adhesion due to perfect antistatic properties

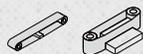
Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive paper, ANTISTATIC

PS 28 F



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Open
Backing	F-paper

Applications:

Wood	●
------	---

Advantages: Universal belt for general woodworking, especially softwood - Excellent price/performance ratio

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with paper / cloth backing

Coated abrasives

Abrasive paper, ANTISTATIC

PS 29 FACT



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Open
Backing	F-paper

Applications:

Wood	●
------	---

Advantages: High-quality universal belt for general woodworking, especially softwood - Reduced clogging and longer service life due to ACT recipe and antistatic properties

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth

LS 309 J



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	J-cotton

Applications:

Metals	●
NF metals	●
Wood	●

Advantages: Good abrasive performance for working on slight contours on metal and wood

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth

LS 309 JF



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	JF-cotton

Applications:

Metals	●
NF metals	●
Wood	●

Advantages: High removal rate in metalworking and woodworking - Very good adaptation to radiuses and contours due to highly flexible cotton backing

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives



Abrasive cloth

LS 309 XH



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	X-cotton

Applications:

Metals	●
NF metals	●
Wood	●

Advantages: Universal belt for metalworking and woodworking - Excellent price/performance ratio

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
1 x 30	60	4	10	302851
1 x 30	80	4	10	302852
1 x 30	100	4	10	302848
1 x 30	120	4	10	302849
1 x 30	150	4	10	302850
1 x 42	80	4	10	302855
1 x 42	100	4	10	302853
1 x 42	120	4	10	302854
2-1/2 x 14	60	4	10	302858
2-1/2 x 14	80	4	10	302859
2-1/2 x 14	100	4	10	302856
2-1/2 x 14	120	4	10	302857
3 x 18	80	4	10	302879
3 x 18	120	4	10	302878
3 x 21	40	5	10	4137
3 x 21	50	5	10	4138
3 x 21	60	5	10	4139
3 x 21	80	5	10	4140
3 x 21	100	5	10	4141
3 x 21	120	5	10	4142
3 x 21	150	5	10	4143
3 x 21	180	5	10	4144
3 x 24	40	5	10	37285
3 x 24	50	5	10	230923
3 x 24	60	5	10	38842
3 x 24	80	5	10	40365
3 x 24	100	5	10	41576
3 x 24	120	5	10	42642
3 x 24	150	5	10	326488
3 x 24	180	5	10	326489
4 x 24	40	5	10	4478
4 x 24	50	5	10	4479
4 x 24	60	5	10	4480

Continuation →

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives

→ Continuation of LS 309 XH, Abrasive cloth

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
4 x 24	80	5	10	4481
4 x 24	100	5	10	4482
4 x 24	120	5	10	4483
4 x 24	150	5	10	4484
4 x 24	180	5	10	43302
4 x 36	40	4	10	302863
4 x 36	50	4	10	302864
4 x 36	60	4	10	302865
4 x 36	80	4	10	302866
4 x 36	100	4	10	302860
4 x 36	120	4	10	302861
4 x 36	150	4	10	302862
6 x 48	40	4	10	326470
6 x 48	60	4	10	326471
6 x 48	80	4	10	315967
6 x 48	100	4	10	326472
6 x 48	120	4	10	326473
6 x 48	150	4	10	315966
6 x 48	180	4	10	326474
6 x 89	80	4	10	326475
6 x 89	100	4	10	326476
6 x 89	120	4	10	326477
6 x 89	150	4	10	326478
6 x 108	80	4	10	326479
6 x 108	100	4	10	326480
6 x 108	120	4	10	326481

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives



Abrasive cloth

CS 310 X



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	X-cotton

Applications:

Stainless steel	●	Plastic	○
Wood	●		
Steel	●		
NF metals	●		

Advantages: High-quality universal type for metalworking and woodworking - Good removal rate under high stress

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
3/8 x 13	60	4	25	232770
3/8 x 13	80	4	25	302667
3/8 x 13	100	4	25	302665
3/8 x 13	120	4	25	302666
1/2 x 18	60	4	25	302635
1/2 x 18	80	4	25	302636
1/2 x 18	100	4	25	302632
1/2 x 18	120	4	25	302633
1/2 x 18	220	4	25	302634
1/2 x 24	80	4	25	302638
1/2 x 24	120	4	25	302637
3/4 x 18	36	4	25	302655
3/4 x 18	60	4	25	302656
3/4 x 18	80	4	25	302657
3/4 x 20-1/2	36	4	25	297032
3/4 x 20-1/2	40	4	25	302661
3/4 x 20-1/2	50	4	25	302662
3/4 x 20-1/2	60	4	25	302663
3/4 x 20-1/2	80	4	25	302664
3/4 x 20-1/2	120	4	25	302658
3/4 x 20-1/2	180	4	25	302659
1 x 42	60	4	10	303795
1 x 42	80	4	10	303794
1 x 42	100	4	10	302643
1 x 42	120	4	10	302644
1 x 42	320	4	10	302645
1-1/8 x 21	40	4	10	302640
1-1/8 x 21	60	4	10	302641
1-1/8 x 21	80	4	10	302642
1-1/8 x 21	120	4	10	302639
2 x 72	36	4	5	302651
2 x 72	50	4	10	302652

Continuation →

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives

→ Continuation of CS 310 X, Abrasive cloth

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
2 x 72	60	4	10	302653
2 x 72	80	4	10	302654
2 x 72	120	4	10	302650
3 x 21	36	4	5	302676
3 x 24	24	4	5	302677
3 x 24	36	4	5	302678
3 x 48	60	4	10	302680
3 x 48	80	4	10	302681
3-1/2 x 15-1/2	50	4	10	302671
3-1/2 x 15-1/2	60	4	10	302672
3-1/2 x 15-1/2	80	4	10	302673
3-1/2 x 15-1/2	120	4	10	302668
3-1/2 x 15-1/2	150	4	10	302669
3-1/2 x 15-1/2	180	4	10	302670
4 x 24	24	4	5	302682
4 x 24	36	4	5	302683
4 x 36	36	4	10	302686
4 x 36	60	4	10	302687
4 x 36	80	4	10	302688
4 x 36	120	4	10	302684
6 x 48	36	4	5	302699
6 x 48	40	4	10	302700
6 x 48	50	4	10	302701
6 x 48	60	4	10	302702
6 x 48	80	4	10	302703
6 x 48	100	4	10	302695
6 x 48	120	4	10	302696
6 x 48	180	4	10	302697
6 x 48	220	4	10	302698
6 x 60	60	4	10	302704
6 x 60	80	4	10	302705
6 x 89	60	4	10	302709
6 x 89	80	4	10	302710
6 x 89	100	4	10	302707
6 x 89	120	4	10	302708
6 x 108	60	4	10	302692
6 x 108	80	4	10	302693
6 x 108	100	4	10	302689
6 x 108	120	4	10	302690
6 x 158	80	4	10	302694
6 x 158	100	4	10	326513

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

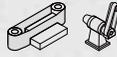
Belts with cloth backing

Coated abrasives



Abrasive cloth *ANTISTATIC*

CS 311 Y ACT



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Open
Backing	Y-polyester

Applications:

Wood	●
Metals	○

Advantages: Good removal rate for working on wood under high stress - Minimal clogging and long service life due to ACT recipe and antistatic properties

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
3 x 24	60	4	10	302714
3 x 24	80	4	10	302715
3 x 24	100	4	10	302712
3 x 24	120	4	10	302713
4 x 24	40	4	10	302718
4 x 24	60	4	10	302719
4 x 24	80	4	10	302720
4 x 24	100	4	10	302716
4 x 24	120	4	10	302717
6 x 48	60	4	10	283342
6 x 48	80	4	10	283343
6 x 48	100	4	10	284238
6 x 89	80	4	10	302729
6 x 89	100	4	10	302727
6 x 89	120	4	10	302728
6 x 108	60	4	10	302723
6 x 108	80	4	10	302724
6 x 108	100	4	10	302721
6 x 108	120	4	10	302722
6 x 158	80	4	10	302726
6 x 158	100	4	10	302725
6 x 158	120	4	10	322528

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives

Abrasive cloth

CS 310 XF



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	XF-cotton

Applications:

Stainless steel	●
Metals	●
NF metals	●
Steel	●

Advantages: Universal type for working on radiuses and contours with belt files in all areas of metalworking

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth, specially coated

LS 312 JF



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	JF-cotton

Applications:

Stainless steel	●	Wood	○
Metals	●		
NF metals	●		
Steel	●		

Advantages: Outstanding removal rate and service life due to active abrasive substances - Very good adaptation to radiuses and contours due to highly flexible cotton backing

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth ANTISTATIC, SUPERFLEX

LS 318 JF ACT



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Open
Backing	JF-cotton

Applications:

Wood	●
------	---

Advantages: Top product for working on profiles and contours, especially in woodworking - Outstanding adaptation, also to tight radiuses, due to highly flexible cotton backing - Reduced clogging and long service life to the ACT recipe

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives



Abrasive cloth, waterproof

CS 320 Y



Properties

Bonding agent	Resin
Grain	SiC
Coating	Close
Backing	Y-polyester

Applications:

Glass/Stone	●
Mineral-based materials	●
Plastic	●

Advantages: Outstanding abrasive performance on hard and difficult-to-machine materials - Ideal for high stress - Can be used wet or dry

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
1-1/8 x 21	40	7	40	302733
1-1/8 x 21	60	7	40	302734
1-1/8 x 21	80	7	40	302735
1-1/8 x 21	100	7	40	302730
1-1/8 x 21	120	7	40	302731
1-1/8 x 21	180	7	40	302732
3 x 21	80	7	10	302738
3 x 21	120	7	10	302736
3 x 21	180	7	10	302737
3 x 24	60	7	10	302741
3 x 24	80	7	10	302742
3 x 24	120	7	10	302739
3 x 24	180	7	10	302740
4 x 106	60	7	10	302746
4 x 106	80	7	10	302747
4 x 106	100	7	10	302743
4 x 106	120	7	10	302744
4 x 106	180	7	10	302745

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives

Abrasive cloth, waterproof

CS 321 X



Properties

Bonding agent	Resin
Grain	SiC
Coating	Close
Backing	X-cotton

Applications:

Glass/Stone	●
Mineral-based materials	●
Plastic	●

Advantages: Outstanding abrasive performance on hard and difficult-to-machine materials - Ideal for wet grinding, but also suitable for dry grinding

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
1-1/8 x 21	220	7	40	302749
1-1/8 x 21	240	7	40	302750
1-1/8 x 21	320	7	40	302751
1-1/8 x 21	400	7	40	302752
1-1/8 x 21	500	7	40	302753
1-1/8 x 21	800	7	40	302754
3 x 24	220	7	10	302755
3 x 24	240	7	10	302756
3 x 24	400	7	10	302757
4 x 106	220	7	10	302758
4 x 106	320	7	10	302759
4 x 106	400	7	10	302760

Abrasive cloth, waterproof

CS 322 X



Properties

Bonding agent	Resin
Grain	Cork
Backing	X-cotton

Applications:

Glass/Stone	●
-------------	---

Advantages: Special product for polishing glass with high-quality cork/resin coating - Long life with consistent polishing effect - Waterproof

Width x Length	Belt joint	Packing unit/pcs.	Article number
1-1/8 x 21	1	20	55830
4 x 106	1	10	306319

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives



Belts

Abrasive cloth, KULEX

CS 326 Y



Properties

Bonding agent	Resin
Grain	Al. oxide agglom.
Backing	Y-polyester

Applications:

Stainless steel	●
Steel	●

Advantages: Long-life abrasive belt for a satin surface scratch pattern, under medium to high grinding pressure - Extremely long life, with consistent surface roughness and finish - Suitable for dry grinding

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth, waterproof

CS 330 X



Properties

Bonding agent	Resin
Grain	SiC/Cork
Coating	Close
Backing	X-cotton

Applications:

Stainless steel	●
Steel	●

Advantages: Soft, very fine grinding and polishing with low surface roughness, polishable - Special belt for satin final finishing of stainless steel and steel surfaces with cork granulate with SiC/resin coating

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth, multibond

CS 409 Y



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close
Backing	Y-polyester

Applications:

Stainless steel	●
NF metals	○

Advantages: Aggressive abrasive behavior - Cool grinding and increased grinding performance on stainless steel and high-alloy steels due to additional multibond - Very long service life also when used for grinding of non-ferrous metals

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives

Abrasive cloth, multibond

CS 410 X



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	X-cotton

Applications:

Stainless steel	●
NF metals	○

Advantages: Cool grinding and no heat tinting due to additional multibond - Increased abrasive performance for use on stainless steel

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth

CS 411 X



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close
Backing	X-cotton

Applications:

Stainless steel	●
Steel	●
Metals	●

Advantages: High aggressiveness and abrasive performance in rough grinding of steel and stainless steel - Very versatile in all areas of metalworking

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
1 x 42	80	4	10	302763
1 x 42	120	4	10	302762
2 x 72	50	4	10	302765
2 x 72	80	4	10	302766
2 x 72	120	4	10	302764
3 x 48	60	4	10	302768
3 x 48	80	4	10	302769
4 x 36	60	4	10	302771
4 x 36	80	4	10	302772
4 x 132	36	4	5	302770
6 x 48	36	4	5	302776
6 x 48	50	4	10	302777
6 x 48	60	4	10	302778
6 x 48	80	4	10	255426
6 x 48	120	4	10	322529
6 x 108	60	4	10	326482

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives



Abrasive cloth, waterproof

CS 411 Y



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close
Backing	Y-polyester

Applications:

Stainless steel	●
Steel	●
Metals	●

Advantages: Tear-resistant high performance belt - Especially high aggressiveness and abrasive performance due to active abrasive substances - Especially for stainless steel, but also for steel and metal in general

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
3/8 x 13	60	4	25	302797
3/8 x 13	80	4	25	302798
1/2 x 18	36	4	25	326483
1/2 x 18	60	4	25	302780
1/2 x 18	80	4	25	302781
1/2 x 24	50	4	25	302783
1/2 x 24	60	4	25	302784
1/2 x 24	80	4	25	302785
1/2 x 24	120	4	25	302782
3/4 x 18	40	4	25	302787
3/4 x 18	60	4	25	302788
3/4 x 18	80	4	25	302789
3/4 x 20-1/2	50	4	25	302790
3/4 x 20-1/2	60	4	25	302791
3/4 x 20-1/2	80	4	25	302792
3 x 90	36	4	10	302799
3 x 90	60	4	10	302800
3 x 90	80	4	10	302801
4 x 132	36	4	5	302802
4 x 132	60	4	10	302803
4 x 132	80	4	10	302804

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives

Abrasive cloth, waterproof

CS 412 Y



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	Y-polyester

Applications:

Metals	●	Wood	○
NF metals	●		
Stainless steel	●		
Steel	●		

Advantages: High-quality universal type for wet and dry grinding of stainless steel, steel and other metal surfaces

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
1/2 x 18	40	4	25	322533
1/2 x 18	60	4	25	302805
1/2 x 18	80	4	25	302806
1/2 x 24	60	4	25	74434
1/2 x 24	80	4	25	302808
1/2 x 24	120	4	25	201590
3/4 x 18	40	4	25	302817
3/4 x 18	50	4	25	302818
3/4 x 18	60	4	25	302819
3/4 x 18	80	4	25	302820
3/4 x 18	120	4	25	302816
3/4 x 20-1/2	40	4	25	296977
3/4 x 20-1/2	60	4	25	302795
3/4 x 20-1/2	80	4	25	302796
3/4 x 20-1/2	120	4	25	302793
3/4 x 20-1/2	180	4	25	302794
3/4 x 20-1/2	240	4	25	322534
3 x 132	36	4	5	302826
3 x 132	60	4	10	302827
3 x 132	80	4	10	302828
3 x 132	120	4	10	302823
3 x 132	150	4	10	302824
3 x 132	240	4	10	302825
4 x 132	80	4	10	302832
4 x 132	120	4	10	302830
4 x 132	240	4	10	302831
7-7/8 x 29-1/2	24	4	5	302834
7-7/8 x 29-1/2	36	4	5	302835
7-7/8 x 29-1/2	40	4	5	302836
7-7/8 x 29-1/2	50	7	5	302837
7-7/8 x 29-1/2	60	7	5	302838
7-7/8 x 29-1/2	80	7	5	302839
7-7/8 x 29-1/2	100	7	5	302833

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives



Abrasive cloth, waterproof

CS 416 Y



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Semi-open
Backing	Y-polyester

Applications:

Stainless steel	●
Plastic	●
Leather	●
NF metals	○

Advantages: Very high aggressiveness and abrasive performance - Long service life also when used on materials that cause clogging

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth, multibond

CS 631 XF



Properties

Bonding agent	Resin
Grain	Ceramic Al. oxide
Coating	Semi-open
Backing	XF-cotton

Applications:

Stainless steel	●
Titanium / - alloy	●

Advantages: Continuously aggressive abrasive performance, with long service life due to ceramic grit - Good adaptation to radiuses and contours - Prevents heat tinting on stainless steel due to multibond

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth, waterproof

CS 811 Y ACT



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close
Backing	Y-polyester

Applications:

Die-cast Aluminum	●
Stainless steel	●
Steel	●

Advantages: High aggressiveness and abrasive performance; specially developed for applications under high stress - Especially good grain adhesion and service life due to ACT recipe

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Belts with cloth backing

Coated abrasives

Abrasive cloth, multibond

CS 910 Y ACT



Properties

Bonding agent	Resin
Grain	Ceramic Al. oxide
Coating	Close
Backing	Y-polyester

Applications:

Stainless steel	●
-----------------	---

Advantages: Continuously aggressive abrasive performance, with long service life due to ceramic grit - High-performance abrasive belt for stainless steel finish grinding - Prevents heat tinting on stainless steel - No clogging/glazing when used on titanium and high-alloy steels

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth, waterproof

CS 912 Y ACT



Properties

Bonding agent	Resin
Grain	Ceramic Al. oxide
Coating	Close
Backing	Y-polyester

Applications:

Stainless steel	●
Steel	●

Advantages: Continuously aggressive abrasive performance, with long service life due to ceramic grit - High-performance abrasive belt for stainless steel finish grinding

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth, multibond

CS 931 JF



NEW



Properties

Bonding agent	Resin
Grain	Ceramic Al. oxide
Coating	Semi-open
Backing	JF-cotton

Applications:

Stainless steel	●
Titanium / - alloy	●

Advantages: Special product with high flexible backing for the processing of stainless steel and high-alloyed steel - Continuously aggressive grinding properties with high lifetime due to semi-open coated self-sharpening ceramic grain - Very good adaptability to radiuses and edges through high flexible backing - The additional multibond provides a "cool grinding" in the processing of stainless steel and thus tempering colours are avoided

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Abrasive belts

Non-woven web



Non-woven textile belt

NBF 820



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Stainless steel	●
NF metals	●
Metals	○

Advantages: Special product for working metal and stainless steel surfaces with hand-guided machinery - Very high service life, no premature clogging, high edge stability, tear-resistant belt joint

Width x Length	Grade	Colour	Belt joint	Packing unit/pcs.	Article number
1/2 x 12	Medium	Maroon	4	25	326540
1/2 x 18	Coarse	Brown	4	10	303596
1/2 x 18	Medium	Maroon	4	10	303597
1/2 x 18	Very Fine	Blue	4	10	303598
1/2 x 24	Coarse	Brown	4	10	303599
1/2 x 24	Medium	Maroon	4	10	303600
1/2 x 24	Very Fine	Blue	4	10	303601
3/4 x 18	Coarse	Brown	4	10	303610
3/4 x 18	Medium	Maroon	4	10	303611
3/4 x 18	Very Fine	Blue	4	10	303606
3/4 x 20-1/2	Coarse	Brown	4	10	303602
3/4 x 20-1/2	Medium	Maroon	4	10	303603
3/4 x 20-1/2	Very Fine	Blue	4	10	303604

Non-woven textile belt

NBS 820



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Stainless steel	●
NF metals	●
Metals	○

Advantages: Special product for surface finishing with hand-operated machines (except hand tool belt grinders) and stationary machines - Ideal for removal of discolorations, for light deburring, leveling, matt finishing and roughening - Minimal clogging - Long service life - Suitable for dry and wet grinding

Width x Length	Grade	Colour	Belt joint	Packing unit/pcs.	Article number
3 x 132	Coarse	Brown	4	2	303618
3 x 132	Medium	Maroon	4	2	303619
3 x 132	Very Fine	Blue	4	2	303620
3-1/2 x 15-1/2	Coarse	Brown	4	10	303613
3-1/2 x 15-1/2	Medium	Maroon	4	10	303615
3-1/2 x 15-1/2	Very Fine	Blue	4	10	303616
5-3/8 x 11-5/8	Coarse	Brown	4	10	326541
5-3/8 x 11-5/8	Medium	Maroon	4	10	326542
6 x 48	Medium	Maroon	4	2	303608

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 33.

Wide belts Applications guide

Belt joints for wide belts

Klingspor supplies belts with various types of joint. The type of joint you require depends on the work involved and the machine you are using.

The following illustrations show the usual types of joint. The available types of joint are listed in the product charts on the following product pages.

If the product you require is not in stock, we will manufacture it for you subject to a minimum order quantity.

	<p>Form 1 Overlapping glued joint. Standard joint for wide belts with paper backing.</p>		<p>Form 3 G Zig zag joint, with foil backing for finishing surfaces that must be of the highest quality using wide belts with cloth backing.</p>
	<p>Form 4 G Butt joint with cloth-reinforced foil backing. Standard joint for wide belts with cloth backing. High tear resistance.</p>		<p>Form 5 Overlapping glued joint. Grit zone is completely ground off. For applications with flat contact elements, allows a gentle transition in the belt connection area.</p>
	<p>Form 6 G Butt joint with cloth-reinforced foil glued on grit side. Grit zone is completely ground off. Use in the timber products industry</p>		

Wide belts with paper backing

Coated abrasives



Abrasive paper

PS 20 F



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	F-paper

Applications:

Stainless steel	●
Metals	●
NF metals	●
Steel	○

Advantages: Universal product for stainless steel finish grinding - High cutting rate

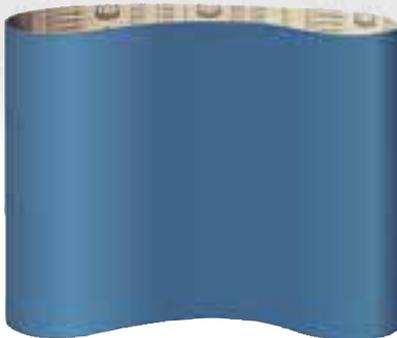
Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Abrasive paper

PS 21 F



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close
Backing	F-paper

Applications:

Stainless steel	●
Metals	●
Steel	●

Advantages: Aggressive abrasive behavior due to self-sharpening alumina zirconia - Optimal recipe for rough grinding and finish grinding of stainless steel

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 32, 52.

Wide belts with paper backing

Coated abrasives

Abrasive paper, ANTISTATIC

PS 22 FACT



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	F-paper

Applications:

Wood	●	Plastic	○
Metals	○		
NF metals	○		
Paint/Varnish/Filler	○		

Advantages: High removal rate, fine surface scratch pattern, especially suitable for hardwood, HPL panels and melamine and primer foil coatings - Reduced clogging and longer service life due to ACT recipe and antistatic properties

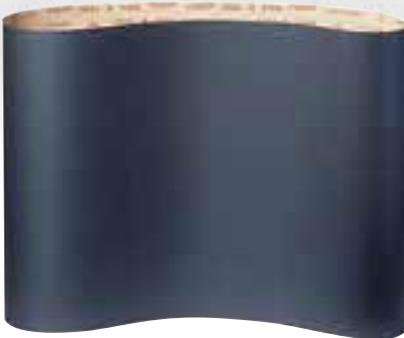
Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
37 x 60	120	1	5	322535
37 x 60	150	1	5	322536

Abrasive paper, ANTISTATIC

PS 24 FACT



Properties

Bonding agent	Resin
Grain	SiC
Coating	Close
Backing	F-paper

Applications:

Stainless steel	●
Paint/Varnish/Filler	●
Plastic	●
Wood	○

Advantages: For hard and tough surfaces - Produces a brilliant, high-gloss finish of stainless steel surfaces due to the very hard and sharp-edged silicon carbide grit - Long service life on varnish surfaces in the wood and furniture industry due to ACT recipe and antistatic properties

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 32, 52.

Wide belts with paper backing

Coated abrasives



Abrasive paper, *SUPER ANTISTATIC*

PS 26 F



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Open
Backing	F-paper

Applications:

Wood	●
------	---

Advantages: Premium type for use on wood and veneer - High tear resistance, smooth belt operation - Optimal electrical conductivity, no dust accumulation due to perfect antistatic properties

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Abrasive paper, *ANTISTATIC*

NEW

PS 28 F



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Open
Backing	F-paper

Applications:

Wood	●
Leather	●

Advantages: Universal type for use on wood, especially softwood - Price-optimized version for wide belts up to 1350 mm

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 32, 52.

Wide belts with paper backing

Coated abrasives

Abrasive paper, ANTISTATIC

PS 29 F ACT



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Open
Backing	F-paper

Applications:

Wood	●
------	---

Advantages: High-quality universal type for general woodworking - Large product mix - Reduced clogging and longer service life due to ACT recipe and antistatic properties

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length in mm	Grit	Belt joint	Packing unit/pcs.	Article number
25 x 60	120	1	5	302915
25 x 60	150	1	5	302916
25 x 60	180	1	5	302917
36 x 75	120	1	5	302918
36 x 75	150	1	5	302919
36 x 75	180	1	5	302920
37 x 60	120	1	5	302921
37 x 60	150	1	5	302922
37 x 75	120	1	5	302923
37 x 75	150	1	5	302924
37 x 75	180	1	5	302925
52 x 103	120	1	5	306320
52 x 103	150	1	5	306321
52 x 103	180	1	5	306322
52 x 103	220	1	5	306323
53 x 103	120	1	5	322541
53 x 103	150	1	5	322542
53 x 103	180	1	5	322543
54 x 103	80	1	5	326469
54 x 103	120	1	5	326466
54 x 103	150	1	5	326467
54 x 103	180	1	5	326468

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 32, 52.

Wide belts with cloth backing

Coated abrasives



Abrasive cloth ANTISTATIC

CS 311 Y ACT



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Open
Backing	Y-polyester

Applications:

Wood	●
Metals	○

Advantages: Specially developed for calibration grinding of wood - Reduced clogging and longer service life due to ACT recipe and antistatic properties

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Belt joint	Packing unit/pcs.	Article number
25 x 60	80	4	5	302907
25 x 60	100	4	5	302904
25 x 60	120	4	5	302905
25 x 60	150	4	5	302906
37 x 60	80	4	5	302910
37 x 60	100	4	5	282744
37 x 60	120	4	5	302908
37 x 60	150	4	5	302909
37 x 75	60	4	5	302913
37 x 75	80	4	5	302914
37 x 75	100	4	5	326487
37 x 75	120	4	5	302911
37 x 75	150	4	5	302912

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 32, 52.

Wide belts with cloth backing

Coated abrasives

Abrasive cloth

CS 310 X



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	X-cotton

Applications:

Metals	●	Plastic	○
Steel	●		
Stainless steel	●		
Wood	○		

Advantages: Universal product with optimal price-performance ratio - Available in a wide grit range

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Abrasive cloth, waterproof

CS 320 Y



Properties

Bonding agent	Resin
Grain	SiC
Coating	Close
Backing	Y-polyester

Applications:

Mineral-based materials	●
Plastic	●

Advantages: Very hard and sharp silicon carbide grain for hard and tough workpiece surfaces - High aggressiveness and abrasive performance - Especially suitable for wet grinding of glass, ceramic and plastic

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 32, 52.

Wide belts with cloth backing

Coated abrasives



Abrasive cloth, waterproof

CS 412 Y



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	Y-polyester

Applications:

Stainless steel	●	Wood	○
Metals	●		
Steel	●		
NF metals	●		

Advantages: Universal product for rough and intermediate grinding of steel and non-ferrous metals

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 32. Please see Applications Guide on page 31 - 32, 52.



Strips/Sheets/Discs



About the product

Klingspor manufactures a very large programme of high quality abrasive products for the strips, sheets and discs product sectors.

Strips/Sheets

- ▶ for general use with hand sanding and handheld power tools
- ▶ specially designed for particular materials (e.g. wood, metal, etc.)
- ▶ special sizes available on request
- ▶ for wet and dry grinding
- ▶ paper or cloth backed

Discs

- ▶ for general use with many types of machines
- ▶ special designs with a wide range of hole patterns
- ▶ various sizes on customer's request
- ▶ for wet and dry grinding
- ▶ backings: paper, film and nylon fleece
- ▶ self-fastening products
- ▶ suitable backing plate for angle grinder / orbital sander

Strips / Sheets / Discs

Applications strips / sheets / discs with paper backing

Application	Type	Grain	Backing	Coating	Characteristics	Page
Steel, metals	PS 22 K	Aluminum oxide	E-paper	●	Abrasive paper with semi-open coat and high stock removal rate for an uniform scratch pattern on wood and metal	79
	PS 36 CK	Zirconia Al./ Aluminum oxide	C-paper	●	Abrasive paper with flexible backing and high, aggressive stock removal efficiency particularly with materials which are difficult to process, for example with mineralized materials and tropical wood	84
Wood	PS 19 E/F	SiC	E/F-paper	●	Special high-performance product for hardwood sanding, particularly suitable for parquet processing and floor reconditioning	77
	PS 22 K	Aluminum oxide	E-paper	●	Abrasive paper with semi-open coating and high stock removal rate for an uniform scratch pattern on wood and metal	79
	PL 31 B	Aluminum oxide	B-paper	●	Robust high performance product with stable F-paper backing for coarse, intermediate and finish sanding. Ideal for hard and difficult-to-machine materials due to the use of sharp-edged silicon carbide	67
	PS 36 DK/CK	Zirconia Al./ Aluminum oxide	D/C-paper	●	Abrasive paper with flexible backing and high, aggressive stock removal efficiency particularly with materials which are difficult to process, for example with mineralized materials and tropical wood	84
Paint, varnish, filler	PS 10 A/C/D	Aluminum oxide	A/C/D-paper	●	Premium Garnet material used in hand, fine finish type sanding, or sanding undercoats of finishing materials. Offers a "softer" cut that leaves a smoother surface	63, 64
	PL 31 B	Aluminum oxide	B-paper	●	Robust high performance product with stable F-paper backing for coarse, intermediate and finish sanding. Ideal for hard and difficult-to-machine materials due to the use of sharp-edged silicon carbide	66
	PS 33 B/C	Aluminum oxide	B/C-paper	●	High quality abrasive paper, especially suited for paint, varnish and filler	67, 72, 80, 86, 87

● = close ● = semi-open ○ = open

Continuation →

Paper	Cloth
A approx. 95 g/m ²	X Cloth, heavy
B approx. 105 g/m ²	J Cloth, light
C approx. 110 g/m ²	JF Cloth, light, highly flexible
D approx. 130 g/m ²	
E approx. 250 g/m ²	
F approx. 300 g/m ²	

Strips/Sheets/Discs

Applications guide

Application	Type	Grain	Backing	Coating	Characteristics	Page
Paint, varnish, filler	PS 73 BW	Aluminum oxide	B-paper	●	High quality abrasive paper, especially suited for the processing of paint, varnish and filler, with a special coating for a long service life	68, 82
	FP 73 WK	Aluminum oxide	Film	●	Special product with very tear resistant film backing for the processing of paint, varnish and filler with high service life through additional special coating	83
	PS 11 A/C	SiC	A/C-paper	●	High quality, highly flexible, waterproof abrasive paper for working on paint, varnish and filler especially in the car repair sector	65
	PL 35 B	SiC	B-paper	●	Abrasive paper suitable for sanding contoured or flat surfaces. Primarily used for sanding primer, paint and varnish	69

● = close ● = semi-open ○ = open

Applications strips / sheets / discs with cloth backing

Application	Type	Grain	Backing	Coating	Characteristics	Page
Steel, metals	CS 310 XS	Aluminum oxide	X-cotton	●	Abrasive cloth for metal and woodworking applications. Cotton backing provides stability for heavy duty use and long service life	88
	CS 411 XS	Aluminum oxide	X-cotton	●	High-performance disc with high stock removal rate for rough grinding and de-burring of steel and stainless steel	89
	HTJ 153 Z	Aluminum oxide	JF-cotton	●	Highly flexible abrasive cloth for hand processing of metal surfaces	71
	KL 361 JF	Aluminum oxide	JF-cotton	●	High quality, highly flexible abrasive cloth for versatile applications in the metal processing industry, also suitable for stainless steel	70
	KL 371 X	Aluminum oxide	X-cotton	●	Economical universal product for surface grinding in metal processing	69
	KL 385 JF	Aluminum oxide	JF-cotton	●	Highly flexible universal product for the metal processing industry, good price-performance ratio	71

● = close ● = semi-open ○ = open

Applications non-woven web hand pads and discs, abrasive block and abrasive sponge

Application	Type	Grain	Backing	Coating	Characteristics	Page
Stainless steel	NPA 400	Aluminum oxide / SiC	Non-woven web with polyester lining		Grinding fleece, perfectly suited for deburring, cleaning and surface finishing	73
	NDS 810	Aluminum oxide	Non-woven web with polyester lining		Premium non-woven web disc with extra strong edges for demanding applications. Suited for rough cleaning work, deburring and working on weld seams	90
Paint, varnish, filler	SK 500	Aluminum oxide	Sponge	●	Abrasive block coated on four sides for fine work on contoured and flat surfaces. The abrasive block is robust, can be washed and reused. It is suitable for wet and dry grinding	74
	SK 502	SiC	Sponge	●	Excellent for fine processing of surfaces	74
	SW 510	Aluminum oxide	Sponge	●	Excellent for fine processing of surfaces	75
	SW 520	SiC	Sponge	●	Excellent for fine processing of surfaces	75

● = close ● = semi-open ○ = open

Paper

A	approx. 95 g/m ²
B	approx. 105 g/m ²
C	approx. 110 g/m ²
D	approx. 130 g/m ²
E	approx. 250 g/m ²
F	approx. 300 g/m ²

Cloth

X	Cloth, heavy
J	Cloth, light
JF	Cloth, light, highly flexible

Strips and sheets with paper backing

Coated abrasives



Strips / Sheets / Discs

Garnet paper

PS 10 A



Properties

Bonding agent	Glue
Grain	Aluminum oxide
Coating	Semi-open
Backing	A-paper

Applications:

Paint/Varnish/Filler	●
Wood	○

Advantages: Premium Garnet material used in hand, fine finish type sanding, or sanding under coats of finishing materials - Offers a "softer" cut that leaves a smoother surface

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length	Grit	Packing unit/pcs.	Article number
9 x 11	80	50	302959
9 x 11	100	50	302961
9 x 11	120	50	302963
9 x 11	150	50	302975
9 x 11	180	50	302976
9 x 11	220	50	302977

Garnet paper

PS 10 C



Properties

Bonding agent	Glue
Grain	Aluminum oxide
Coating	Semi-open
Backing	C-paper

Applications:

Paint/Varnish/Filler	●
Wood	○

Advantages: Premium Garnet material used in hand, fine finish type sanding, or sanding under coats of finishing materials - Offers a "softer" cut that leaves a smoother surface

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length	Grit	Packing unit/pcs.	Article number
9 x 11	100	50	302960
9 x 11	120	50	302962
9 x 11	150	50	302964

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62.

Strips and sheets with paper backing

Coated abrasives

Garnet paper

PS 10 D



Properties

Bonding agent	Glue
Grain	Aluminum oxide
Coating	Semi-open
Backing	D-paper

Applications:

Paint/Varnish/Filler	●
Wood	○

Advantages: Premium Garnet material used in hand, fine finish type sanding, or sanding under coats of finishing materials - Offers a "softer" cut that leaves a smoother surface

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Packing unit/pcs.	Article number
9 x 11	40	50	302955
9 x 11	50	50	302956
9 x 11	60	50	302957
9 x 11	80	50	302958

Strips and sheets with paper backing

Coated abrasives



Abrasive paper, waterproof

PS 11 A/C



Properties

Bonding agent	Resin
Grain	SiC
Coating	Close
Backing	A/C-paper

Applications:

Paint/Varnish/Filler	●
Plastic	●
Glass/Stone	○
Metals	○

Advantages: Special product for auto repair and painting - For hard and tough surfaces - Good adaptation and high stability - Wet and dry sanding

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Packing unit/pcs.	Article number
9 x 11	60	50	2022
9 x 11	80	50	2023
9 x 11	100	50	2117
9 x 11	120	50	2116
9 x 11	150	50	2011
9 x 11	180	50	2012
9 x 11	220	50	2002
9 x 11	240	50	2003
9 x 11	280	50	2004
9 x 11	320	50	2005
9 x 11	360	50	2006
9 x 11	400	50	2007
9 x 11	500	50	2008
9 x 11	600	50	2009
9 x 11	800	50	2010
9 x 11	1000	50	11892
9 x 11	1200	50	6616
9 x 11	1500	50	186794
9 x 11	2000	50	186795

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62.

Strips and sheets with paper backing

Coated abrasives

Finishing paper

PL 31 B



Properties

Bonding agent	Glue
Grain	Aluminum oxide
Coating	Semi-open
Backing	B-paper

Applications:

Paint/Varnish/Filler	●
Wood	●
Metals	○

Advantages: Product with optimal price-performance ratio - Optimized wear properties for hand grinding and hand-held machine grinding - Very fine surface scratch pattern

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Packing unit/pcs.	Article number
9 x 11	40	50	2059
9 x 11	50	50	2060
9 x 11	60	50	2061
9 x 11	80	50	2062
9 x 11	100	50	2048
9 x 11	120	50	2049
9 x 11	150	50	2050
9 x 11	180	50	2051
9 x 11	220	50	2052
9 x 11	240	50	2053
9 x 11	320	50	2055
9 x 11	400	50	2057

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62.

Strips and sheets with paper backing

Coated abrasives



Abrasive paper

PS 33 B/PS 33 C



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Semi-open
Backing	B/C-paper

Applications:

Paint/Varnish/Filler	●
Wood	●
Plastic	○

Advantages: High removal rate - For diverse applications

Available grits:

- 16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Packing unit/pcs.	Article number
9 x 11	40	50	147849
9 x 11	60	50	147850
9 x 11	80	50	147851
9 x 11	100	50	149719
9 x 11	120	50	147852
9 x 11	150	50	149528
9 x 11	180	50	147853
9 x 11	220	50	149529
9 x 11	240	50	147854
9 x 11	280	50	149793
9 x 11	320	50	149530
9 x 11	400	50	148971
9 x 11	600	50	170668

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62.

Strips and sheets with paper backing

Coated abrasives

Abrasive paper, actively coated

PS 73 BW



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Semi-open
Backing	B-paper

Applications:

Paint/Varnish/Filler	●
Plastic	●

Advantages: High-quality product for use on varnish, paint and filler - High removal rate - Substantially reduced clogging and significantly longer service life due to additional special coating

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Packing unit/pcs.	Article number
9 x 11	40	50	311106
9 x 11	60	50	311107
9 x 11	80	50	311108
9 x 11	100	50	311109
9 x 11	120	50	311110
9 x 11	150	50	301196
9 x 11	180	50	301197
9 x 11	220	50	301198
9 x 11	240	50	301199
9 x 11	320	50	301201
9 x 11	400	50	301202
9 x 11	600	50	301204
9 x 11	800	50	308410
9 x 11	1200	50	311188

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62.

Strips and sheets with paper / cloth backing

Coated abrasives



Abrasive paper, actively coated

PL 35 B



Properties

Bonding agent	Resin
Grain	SiC
Coating	Semi-open
Backing	B-paper

Applications:

Paint/Varnish/Filler	●
Wood	○

Advantages: Specially coated abrasive paper suitable for sanding contoured or flat surfaces - Primarily used for sanding primer, paint and varnish

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length	Grit	Packing unit/pcs.	Article number
9 x 11	80	50	302978
9 x 11	100	50	302979
9 x 11	120	50	302980
9 x 11	150	50	302981
9 x 11	180	50	302982
9 x 11	220	50	302983
9 x 11	280	50	302984
9 x 11	320	50	302985
9 x 11	400	50	302986

Abrasive cloth

KL 371 X (Emery)



Properties

Bonding agent	Glue
Grain	Aluminum oxide
Coating	Close
Backing	X-cotton

Applications:

Metals	●
--------	---

Advantages: Economical universal product for surface grinding in metal processing

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length	Grade	Packing unit/pcs.	Article number
9 x 11	50 / Coarse	50	2101
9 x 11	80 / Medium	50	2103
9 x 11	120 / Fine	50	2105

Other grits and sizes available on request.

Please observe: Please see Applications Guide on page 61 - 62.

Strips and sheets with cloth backing

Coated abrasives

Abrasive cloth, brown

KL 361 JF



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	JF-cotton

Applications:

Steel	●	Stainless steel	●
Metals	●	Plastic	○
NF metals	●		
Wood	●		

Advantages: High-quality universal product - Optimal adaptation to the workpiece due to highly flexible cotton backing - Tears off cleanly and easily

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Packing unit/pcs.	Article number
9 x 11	40	50	2084
9 x 11	50	50	2085
9 x 11	60	50	2086
9 x 11	80	50	2087
9 x 11	100	50	2088
9 x 11	120	50	2089
9 x 11	150	50	2090
9 x 11	180	50	2091
9 x 11	220	50	2092
9 x 11	240	50	2093
9 x 11	280	50	2094
9 x 11	320	50	2095
9 x 11	400	50	2097
9 x 11	600	50	5334

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62.

Strips and sheets with cloth backing

Coated abrasives



Abrasive cloth, brown

KL 385 JF



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	JF-cotton

Applications:

Wood	<input checked="" type="radio"/>	Plastic	<input type="radio"/>
Metals	<input checked="" type="radio"/>		
NF metals	<input checked="" type="radio"/>		
Stainless steel	<input type="radio"/>		

Advantages: Cost-effective universal product for profile grinding - Optimal adaptation to the workpiece due to maximum flexible cotton backing - Tears off cleanly and easily

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

Width x Length	Grade	Packing unit/pcs.	Article number
9 x 11	60	50	218050
9 x 11	80	50	218051
9 x 11	100	50	218052
9 x 11	120	50	218053
9 x 11	150	50	218054
9 x 11	180	50	218055
9 x 11	220	50	218056
9 x 11	240	50	218057
9 x 11	320	50	218059
9 x 11	400	50	218061

Abrasive cloth

HTJ 153 Z (Crocus)



Properties

Bonding agent	Glue
Grain	Aluminum oxide
Coating	Close
Backing	X-cotton

Applications:

Metals	<input checked="" type="radio"/>
--------	----------------------------------

Advantages: Highly flexible abrasive cloth for hand processing of metal surfaces

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

Width x Length	Grade	Packing unit/pcs.	Article number
9 x 11	2000 / Very fine	50	292391

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62.

Strips and sheets with paper backing

Coated abrasives

Abrasive paper

PS 33 B/PS 33 C



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Semi-open
Backing	B/C-paper

Applications:

Paint/Varnish/Filler	●
Wood	●
Plastic	○

Advantages: High-quality abrasive paper for processing paints, varnish and filler

Available grits:

- 16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length	Grit	Packing unit/pcs.	Article number
3 x 4-1/4	120	100	306646
3 x 4-1/4	150	100	306640
3 x 4-1/4	180	100	306641
3 x 4-1/4	220	100	306642
3 x 4-1/4	240	100	306643
3 x 4-1/4	320	100	306644
3 x 4-1/4	400	100	306645

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62.

Non-woven web hand pads



Non-woven web hand pad

NPA 400



Properties

Bonding agent Resin

Applications Al. oxide:

Stainless steel	●
Metals	●
Wood	●
Paint/Varnish	○
Plastic	○

Applications SiC:

Paint/Varnish	●
Plastic	●
Stainless steel	●
Metals	○
Wood	○

Advantages: Outstanding for surface finishing, e.g. adaptation to an existing surface scratch pattern

Width x Length	Grade	Colour	Grain	Packing unit/pcs.	Article number
6 x 9	General Purpose	Green	Aluminum oxide	10	258865
6 x 9	Very Fine	Maroon	Aluminum oxide	10	258866
6 x 9	Ultra Fine	Gray	Silicon carbide	10	258867
6 x 9	Coarse	Brown	Aluminum oxide	10	258862
6 x 9	Medium	Green HD	Aluminum oxide	10	258864
6 x 9	without grain	non abrasive white	-	10	258868

Abrasive block

Coated abrasives

Abrasive block, flexible, coated on 4 sides

SK 500



Properties

Grain	Aluminum oxide
Coating	Close

Applications:

Paint/Varnish/Filler	●
Wood	●
Plastic	○
Metals	○

Advantages: Can be used flat and upright (four usable sides) - For flat and profiled surfaces due to flexible foam core - Robust, washable and reusable

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length x Height	Grit	Packing unit/pcs.	Article number
2-3/4 x 4 x 1	Medium/Fine	10	327495
2-3/4 x 4 x 1	100 (Fine/Fine)	10	125280
2-3/4 x 4 x 1	120	10	225166
2-3/4 x 4 x 1	180	10	225167
2-3/4 x 4 x 1	220	10	225168

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 62.

Abrasive sponge

Coated abrasives



Abrasive sponge, HI-FLEX, coated on 1 side

SW 510



Properties

Grain Aluminum oxide

Applications:

Paint/Varnish/Filler	●
Wood	●
Plastic	○

Advantages: Excellent for fine processing of surfaces

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length x Height	Grit	Packing unit/pcs.	Article number
4-1/2 x 5-1/2 x 3/16	100	10	303588
4-1/2 x 5-1/2 x 3/16	180	10	303589
4-1/2 x 5-1/2 x 3/16	220	10	303590
4-1/2 x 5-1/2 x 3/16	280	10	303591

Abrasive sponge, flexible, coated on 2 sides

SW 502



Properties

Grain SiC

Applications:

Paint/Varnish/Filler	●
Plastic	●
Wood	○

Advantages: Glossy surface scratch pattern - For low and high profiled surfaces (two usable sides) - Crease- and break-resistant - Washable and reusable

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Width x Length x Height in mm	Grit	Packing unit/pcs.	Article number
5 x 4 x 1/2	80	10	327476
5 x 4 x 1/2	120	10	244377
5 x 4 x 1/2	180	10	327475
5 x 4 x 1/2	220	10	244379

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 62.

Discs

Applications guide

Hole patterns for discs

Klingspor offers a wide range of products with hole patterns for dust extraction.

The hole pattern you require depends on the machine being used. You will find the available hole patterns marked in the tables on the following product pages.

<p>GLS 1 Ø 150 mm 8 holes Ø 10 mm on hole circle Ø 120 mm + 1 centre hole Ø 17 mm</p>	<p>GLS 2 Ø 150 mm 8 holes Ø 10 mm on hole circle Ø 65 mm</p>	<p>0 = no hole</p>	<p>10 = round hole</p>	<p>30 = star-shaped hole</p>
<p>GLS 3 Ø 150 mm 6 holes Ø 10 mm on hole circle Ø 80 mm</p>	<p>GLS 5 Ø 125 mm 8 holes Ø 10 mm on hole circle Ø 65 mm</p>	<p>GLS 19 Ø 125 mm 5 holes Ø 10 mm on hole circle Ø 72 mm</p>		

Other hole patterns available on request!

Please contact us for minimum order quantities for non-stock items.

Edger Discs

Coated abrasives



Edger Discs, Abrasive paper

PS 19 E / PS 19 F



Properties

Bonding agent	Resin
Grain	SiC
Coating	Close
Backing	E/F-paper

Applications:

Wood	●
------	---

Advantages: Special high-performance product for parquet processing and floor reconditioning - Used on standard edger disc machines

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter x Hole	Grit	No. of slots	Article unit/pcs.	Article number
7 x 7/8	16	4	50	301794
7 x 7/8	24	4	50	301815
7 x 7/8	36	4	50	301816
7 x 7/8	40	4	50	301817
7 x 7/8	50	4	50	301818
7 x 7/8	60	4	50	301819
7 x 7/8	80	4	50	301820
7 x 7/8	100	4	50	301821
7 x 7/8	120	4	50	301822
15 x 2	16	8	50	301786
15 x 2	24	8	50	301789
15 x 2	36	8	50	301787
15 x 2	80	8	50	301788
16 x 2	16	8	50	301823
16 x 2	24	8	50	301824
16 x 2	36	8	50	301825
16 x 2	60	8	50	301828
16 x 2	80	8	50	301829

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62, 76.

Abrasive screen

Abrasive Screen

AS 400



Properties

Bonding agent Resin

Grain SiC

Applications:

Wood ●

Advantages: Special high-performance product for parquet processing and floor reconditioning

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter in mm	Grit	Packing unit/pcs.	Article number
15 x 0	60	10	303682
15 x 0	80	10	303683
15 x 0	100	10	303677
15 x 0	120	10	303678
16 x 0	80	10	303689
16 x 0	100	10	303684
16 x 0	120	10	303685
17 x 0	80	10	303696

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62, 76.

Discs with paper backing, self-fastening (Hook & Loop)

Coated abrasives



Abrasive paper, self-fastening (Hook & Loop)

PS 22 K



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Semi-open
Backing	E-paper

Applications:

Wood	●	Plastic	○
Metals	●		
Stainless steel	○		
Paint/Varnish/Filler	○		

Advantages: Universal abrasive disc for metalworking and woodworking - Uniform surface scratch pattern - Available in many grit sizes and dimensions

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter	Grit	Hole pattern	Packing unit/pcs.	Article number
5	40	○ 0 - no hole	50	2294
5	60	○ 0 - no hole	50	2295
5	80	○ 0 - no hole	50	6774
5	100	○ 0 - no hole	50	2296
5	120	○ 0 - no hole	50	6775
5	150	○ 0 - no hole	50	78163
5	180	○ 0 - no hole	50	62107
5	220	○ 0 - no hole	50	97176
5	320	○ 0 - no hole	50	93284
5	40	⊙ GLS5 - 8 hole	50	89486
5	60	⊙ GLS5 - 8 hole	50	89488
5	80	⊙ GLS5 - 8 hole	50	89489
5	120	⊙ GLS5 - 8 hole	50	89493
5	150	⊙ GLS5 - 8 hole	50	89494
5	180	⊙ GLS5 - 8 hole	50	89495
5	220	⊙ GLS5 - 8 hole	50	90758
5	320	⊙ GLS5 - 8 hole	50	89496
6	40	○ 0 - no hole	50	20207
6	60	○ 0 - no hole	50	6649
6	80	○ 0 - no hole	50	6936
6	120	○ 0 - no hole	50	6937
6	150	○ 0 - no hole	50	71140
6	180	○ 0 - no hole	50	4022
6	220	○ 0 - no hole	50	93324
6	320	○ 0 - no hole	50	91721
6	40	⊙ GLS3 - 6 hole	50	89181
6	60	⊙ GLS3 - 6 hole	50	86634
6	80	⊙ GLS3 - 6 hole	50	86635
6	120	⊙ GLS3 - 6 hole	50	86636
6	150	⊙ GLS3 - 6 hole	50	86637
6	180	⊙ GLS3 - 6 hole	50	87528
6	220	⊙ GLS3 - 6 hole	50	100157
6	320	⊙ GLS3 - 6 hole	50	97779

Other grits and sizes available on request.

Please observe: Please see Applications Guide on page 61 - 62, 76.

Discs with paper backing, self-fastening (Hook & Loop)

Coated abrasives

Abrasive paper, self-fastening (Hook & Loop)

**PS 33 BK /
PS 33 CK**



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Semi-open
Backing	B/C-paper

Applications:

Paint/Varnish/Filler	●
Wood	●
Plastic	○

Advantages: High removal rate - For diverse applications

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter	Grit	Hole pattern	Packing unit/pcs.	Article number
2	60	○ 0 - no hole	100	235229
2	80	○ 0 - no hole	100	251050
2	100	○ 0 - no hole	100	300409
2	120	○ 0 - no hole	100	231931
2	150	○ 0 - no hole	100	300234
2	180	○ 0 - no hole	100	284041
2	220	○ 0 - no hole	100	235230
2	240	○ 0 - no hole	100	284042
2	320	○ 0 - no hole	100	231932
3	40	○ 0 - no hole	100	303256
3	60	○ 0 - no hole	100	247442
3	80	○ 0 - no hole	100	241426
3	100	○ 0 - no hole	100	246087
3	120	○ 0 - no hole	100	243110
3	150	○ 0 - no hole	100	243111
3	180	○ 0 - no hole	100	212780
3	220	○ 0 - no hole	100	300315
3	240	○ 0 - no hole	100	243112
3	280	○ 0 - no hole	100	303257
3	320	○ 0 - no hole	100	243113
5	40	○ 0 - no hole	100	154113
5	60	○ 0 - no hole	100	147604
5	80	○ 0 - no hole	100	149055
5	100	○ 0 - no hole	100	150431
5	120	○ 0 - no hole	100	150433
5	150	○ 0 - no hole	100	153152
5	180	○ 0 - no hole	100	150435
5	220	○ 0 - no hole	100	155143
5	240	○ 0 - no hole	100	150460
5	280	○ 0 - no hole	100	236962

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62, 76.

Discs with paper backing, self-fastening (Hook & Loop)

Coated abrasives



→ Continuation of PS 33 BK / PS 33 CK, Abrasive paper, self-fastening

Diameter	Grit	Hole pattern	Packing unit/pcs.	Article number
5	320	○ 0 - no hole	100	150461
5	400	○ 0 - no hole	100	150462
5	600	○ 0 - no hole	100	239700
5	40	⊗ GLS5 - 8 hole	100	146954
5	60	⊗ GLS5 - 8 hole	100	147642
5	80	⊗ GLS5 - 8 hole	100	147643
5	100	⊗ GLS5 - 8 hole	100	147977
5	120	⊗ GLS5 - 8 hole	100	147170
5	150	⊗ GLS5 - 8 hole	100	150760
5	180	⊗ GLS5 - 8 hole	100	147837
5	220	⊗ GLS5 - 8 hole	100	150259
5	240	⊗ GLS5 - 8 hole	100	147838
5	320	⊗ GLS5 - 8 hole	100	147839
5	400	⊗ GLS5 - 8 hole	100	147644
5	40	⊗ GLS19 - 5 hole	100	255154
5	60	⊗ GLS19 - 5 hole	100	256636
5	80	⊗ GLS19 - 5 hole	100	240593
5	100	⊗ GLS19 - 5 hole	100	240594
5	120	⊗ GLS19 - 5 hole	100	240597
5	150	⊗ GLS19 - 5 hole	100	262265
5	180	⊗ GLS19 - 5 hole	100	298362
5	220	⊗ GLS19 - 5 hole	100	262244
5	240	⊗ GLS19 - 5 hole	100	264785
6	40	○ 0 - no hole	100	147922
6	60	○ 0 - no hole	100	147107
6	80	○ 0 - no hole	100	146739
6	100	○ 0 - no hole	100	147106
6	120	○ 0 - no hole	100	146740
6	150	○ 0 - no hole	100	148375
6	180	○ 0 - no hole	100	146958
6	220	○ 0 - no hole	100	149916
6	240	○ 0 - no hole	100	146959
6	280	○ 0 - no hole	100	149057
6	320	○ 0 - no hole	100	146716
6	400	○ 0 - no hole	100	147108
6	600	○ 0 - no hole	100	169683
6	40	⊗ GLS3 - 6 hole	100	147647
6	60	⊗ GLS3 - 6 hole	100	147124
6	80	⊗ GLS3 - 6 hole	100	146946
6	100	⊗ GLS3 - 6 hole	100	143694
6	120	⊗ GLS3 - 6 hole	100	146947
6	150	⊗ GLS3 - 6 hole	100	149151
6	180	⊗ GLS3 - 6 hole	100	146948
6	220	⊗ GLS3 - 6 hole	100	149255
6	240	⊗ GLS3 - 6 hole	100	146907
6	320	⊗ GLS3 - 6 hole	100	147126
6	400	⊗ GLS3 - 6 hole	100	147125

Strips / Sheets / Discs

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62, 76.

Discs with paper backing, self-fastening (Hook & Loop)

Coated abrasives

Abrasive paper, active coated, self-fastening (Hook & Loop)

PS 73 BWK / CWK



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Semi-open
Backing	B/C-paper

Applications:

Paint/Varnish/Filler	●
Plastic	○

Advantages: High-quality product for use on varnish, paint and filler - High removal rate - Substantially reduced clogging and significantly longer service life due to additional special coating

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter	Grit	Hole pattern	Packing unit/pcs.	Article number
5	40	○ 0 - no hole	100	308975
5	60	○ 0 - no hole	100	308976
5	80	○ 0 - no hole	100	308506
5	100	○ 0 - no hole	100	308977
5	120	○ 0 - no hole	100	308507
5	150	○ 0 - no hole	100	302074
5	180	○ 0 - no hole	100	302099
5	220	○ 0 - no hole	100	302100
5	240	○ 0 - no hole	100	302101
5	320	○ 0 - no hole	100	302103
5	400	○ 0 - no hole	100	302104
5	500	○ 0 - no hole	100	302105
5	800	○ 0 - no hole	100	306613
5	1000	○ 0 - no hole	100	308978
5	1200	○ 0 - no hole	100	308979
6	40	○ 0 - no hole	100	301231
6	60	○ 0 - no hole	100	301232
6	80	○ 0 - no hole	100	301233
6	100	○ 0 - no hole	100	301234
6	120	○ 0 - no hole	100	301235
6	150	○ 0 - no hole	100	301236
6	180	○ 0 - no hole	100	301237
6	220	○ 0 - no hole	100	301238
6	240	○ 0 - no hole	100	301239
6	320	○ 0 - no hole	100	301240
6	400	○ 0 - no hole	100	301241
6	500	○ 0 - no hole	100	301937
6	600	○ 0 - no hole	100	306614
6	800	○ 0 - no hole	100	301886
6	1000	○ 0 - no hole	100	301891
6	1200	○ 0 - no hole	100	306625

Other grits and sizes available on request.

Please observe: Please see Applications Guide on page 61 - 62, 76.

Discs with film backing, self-fastening (Hook & Loop)

Coated abrasives



NEW

Abrasive film, active coated, self-fastening (Hook & Loop)

FP 73 WK



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Semi-open
Backing	Film

Applications:

Paint/Varnish/Filler	●
Plastic	○

Advantages: Special product with highly tear-resistant film backing for use on paint, varnish and fillers - Very good adaptation of the discs with excellent grit adhesion also in the edge area - Substantially reduced clogging and significantly longer service life

Available grits:

- 16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter	Grit	Hole pattern	Packing unit/pcs.	Article number
5	80	○ 0 - no hole	100	321596
5	100	○ 0 - no hole	100	321398
5	120	○ 0 - no hole	100	321941
5	150	○ 0 - no hole	100	321541
5	180	○ 0 - no hole	100	321942
5	240	○ 0 - no hole	100	321943
5	320	○ 0 - no hole	100	321944
5	400	○ 0 - no hole	100	321995
5	500	○ 0 - no hole	100	321996
5	600	○ 0 - no hole	100	321997
5	800	○ 0 - no hole	100	321998
5	1000	○ 0 - no hole	100	321999
5	1200	○ 0 - no hole	100	322000
5	1500	○ 0 - no hole	100	322001
6	80	○ 0 - no hole	100	322374
6	100	○ 0 - no hole	100	322309
6	120	○ 0 - no hole	100	322375
6	150	○ 0 - no hole	100	322376
6	180	○ 0 - no hole	100	321728
6	240	○ 0 - no hole	100	322397
6	320	○ 0 - no hole	100	316152
6	400	○ 0 - no hole	100	316153
6	500	○ 0 - no hole	100	322377
6	600	○ 0 - no hole	100	316154
6	800	○ 0 - no hole	100	316175
6	1000	○ 0 - no hole	100	316176
6	1200	○ 0 - no hole	100	316177
6	1500	○ 0 - no hole	100	316178

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62, 76.

Discs with paper backing, self-fastening (Hook & Loop)

Coated abrasives

Abrasive paper, self-fastening (Hook & Loop)

PS 36 CK



Properties

Bonding agent	Resin
Grain	Al. zirconia/ Al. oxide
Coating	Semi-open
Backing	C-paper

Applications:

Stainless steel	●
Steel	●
Wood	●
Plastic	●

Advantages: Flexible backing and high, aggressive stock removal efficiency particularly with materials which are difficult to process, for example with mineralized materials and tropical wood

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter	Grit	Hole pattern	Packing unit/pcs.	Article number
5	80	○ 0 - no hole	100	236855
5	100	○ 0 - no hole	100	236856
5	120	○ 0 - no hole	100	236857
5	150	○ 0 - no hole	100	253036
5	180	○ 0 - no hole	100	236858
5	60	⊗ GLS5 - 8 hole	100	250996
5	80	⊗ GLS5 - 8 hole	100	253575
5	100	⊗ GLS5 - 8 hole	100	253576
5	120	⊗ GLS5 - 8 hole	100	299003
5	150	⊗ GLS5 - 8 hole	100	253860
5	220	⊗ GLS5 - 8 hole	100	300452
6	36	○ 0 - no hole	100	242060
6	60	○ 0 - no hole	100	242062
6	80	○ 0 - no hole	100	242063
6	100	○ 0 - no hole	100	249276
6	120	○ 0 - no hole	100	242064
6	150	○ 0 - no hole	100	242065
6	180	○ 0 - no hole	100	242066

Other grits and sizes available on request.

Please observe: Please see Applications Guide on page 61 - 62, 76.

Back-up pads



Back-up pad for Hook & Loop discs

HST 359



Advantages: Good adhesion for all hook & loop discs

Dimensions	Specification/ Hole pattern	Packing unit/pcs.	Article number
2 x 1/4	MED / ○ 0 - no hole	1	304892
3 x 1/4	MED / ○ 0 - no hole	1	304891
5 x 5/16-24M	LOW / ○ 0 - no hole	1	303761
5 x 5/16-24M	LOW / ⊙ GLS19 - 5 hole	1	303760
5 x 5/16-24M	MED / ○ 0 - no hole	1	303763
5 x 5/16-24M	MED / ⊙ GLS19 - 5 hole	1	303762
5 x 5/16-24M	⊙ GLS5 - 8 hole	1	303759
6 x 5/16-24M	LOW / ○ 0 - no hole	1	303765
6 x 5/16-24M	LOW / ⊙ GLS3 - 6 hole	1	303764
6 x 5/16-24M	MED / ○ 0 - no hole	1	303767
6 x 5/16-24M	MED / ⊙ GLS3 - 6 hole	1	303766

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62, 76.

Discs with paper backing, self-adhesive (PSA)

Coated abrasives

Abrasive paper, self-adhesive (PSA)

PS 33 BS / PS 33 CS



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Semi-open
Backing	B/C-paper

Applications:

Paint/Varnish/Filler	●
Wood	○



Advantages: High-quality abrasive paper, especially suited for paint, varnish and filler

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter	Grit	Hole pattern	Packing unit/pcs.	Article number
5	40	○ 0 - no hole	100	303321
5	60	○ 0 - no hole	100	244958
5	80	○ 0 - no hole	100	244955
5	100	○ 0 - no hole	100	249462
5	120	○ 0 - no hole	100	249463
5	150	○ 0 - no hole	100	249054
5	180	○ 0 - no hole	100	250986
5	220	○ 0 - no hole	100	249515
5	320	○ 0 - no hole	100	249067
5	400	○ 0 - no hole	100	252973
6	40	○ 0 - no hole	100	303326
6	60	○ 0 - no hole	100	251703
6	80	○ 0 - no hole	100	242239
6	100	○ 0 - no hole	100	242269
6	120	○ 0 - no hole	100	242270
6	150	○ 0 - no hole	100	251216
6	180	○ 0 - no hole	100	244945
6	220	○ 0 - no hole	100	244946
6	240	○ 0 - no hole	100	244947
6	320	○ 0 - no hole	100	244949
6	400	○ 0 - no hole	100	244950

Other grits and sizes available on request.

Please observe: Please see Applications Guide on page 61 - 62, 76.

Discs with paper backing, self-adhesive (PSA)

Coated abrasives



Abrasive paper, self-adhesive (PSA)

PS 33 BS / PS 33 CS Disc Roll



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Semi-open
Backing	B/C-paper

Applications:

Paint/Varnish/Filler	●
Wood	○

Advantages: High-quality abrasive paper, especially suited for paint, varnish and filler - Discs are adhered on a liner roll and conveniently pulled as needed from a dispensing box

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter	Grit	Hole pattern	Packing unit/pcs.	Article number
5	40	○ 0 - no hole	1 roll = 50 pcs	303273
5	60	○ 0 - no hole	1 roll = 100 pcs	303322
5	80	○ 0 - no hole	1 roll = 100 pcs	303323
5	100	○ 0 - no hole	1 roll = 100 pcs	303324
5	120	○ 0 - no hole	1 roll = 100 pcs	303325
5	150	○ 0 - no hole	1 roll = 100 pcs	303447
5	180	○ 0 - no hole	1 roll = 100 pcs	303450
5	220	○ 0 - no hole	1 roll = 100 pcs	303449
5	240	○ 0 - no hole	1 roll = 100 pcs	303451
5	320	○ 0 - no hole	1 roll = 100 pcs	303448
6	40	○ 0 - no hole	1 roll = 50 pcs	303430
6	60	○ 0 - no hole	1 roll = 100 pcs	303453
6	80	○ 0 - no hole	1 roll = 100 pcs	303438
6	100	○ 0 - no hole	1 roll = 100 pcs	303439
6	120	○ 0 - no hole	1 roll = 100 pcs	303440
6	150	○ 0 - no hole	1 roll = 100 pcs	303452
6	180	○ 0 - no hole	1 roll = 100 pcs	303441
6	220	○ 0 - no hole	1 roll = 100 pcs	303442
6	240	○ 0 - no hole	1 roll = 100 pcs	303443
6	320	○ 0 - no hole	1 roll = 100 pcs	303444
6	400	○ 0 - no hole	1 roll = 100 pcs	303445
6	600	○ 0 - no hole	1 roll = 100 pcs	303446

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62, 76.

Discs with cloth backing, self-adhesive (PSA)

Coated abrasives

Abrasive cloth, self-adhesive (PSA)

CS 310 XS



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close
Backing	X-cotton

Applications:

Metals	●
Wood	○
Plastic	○
Leather	○

Advantages: Abrasive cloth for metal and woodworking applications - Cotton backing provides stability for heavy duty use and long service life

Available grits:

- 16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter	Grit	Hole pattern	Packing unit/pcs.	Article number
5	50	○ 0 - no hole	50	303132
5	80	○ 0 - no hole	50	303134
5	120	○ 0 - no hole	50	303136
6	60	○ 0 - no hole	50	303147
6	80	○ 0 - no hole	50	303148
6	120	○ 0 - no hole	50	303150
9	60	○ 0 - no hole	50	303180
9	80	○ 0 - no hole	50	303181
10	60	○ 0 - no hole	25	303193
10	80	○ 0 - no hole	25	303194
12	36	○ 0 - no hole	10	303201
12	40	○ 0 - no hole	10	303202
12	50	○ 0 - no hole	10	303203
12	60	○ 0 - no hole	10	303204
12	80	○ 0 - no hole	10	303205
12	100	○ 0 - no hole	10	303206
12	120	○ 0 - no hole	10	303207
16	40	○ 0 - no hole	10	303222
16	80	○ 0 - no hole	10	303225
20	36	○ 0 - no hole	10	303234
20	60	○ 0 - no hole	10	303237

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62, 76.

Discs with cloth backing, self-adhesive (PSA) / Back-up pads

Coated abrasives



Abrasive cloth, self-adhesive (PSA)

CS 411 XS



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close
Backing	X-cotton

Applications:

Metals	●
Leather	○



Advantages: High-performance disc with high stock removal rate for rough grinding and deburring of steel and stainless steel

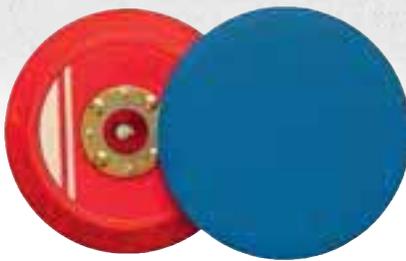
Available grits:

- 16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter	Grit	Hole pattern	Packing unit/pcs.	Article number
12	36	○ 0 - no hole	10	303339
12	60	○ 0 - no hole	10	303342
12	80	○ 0 - no hole	10	303343
12	120	○ 0 - no hole	10	303344

Back-up pad for PSA discs

ST 359 S



Advantages: Good adhesion for all PSA discs

Dimensions	Specification/ Hole pattern	Packing unit/pcs.	Article number
5 x 5/16-24M	LOW-PRO / ○ 0 - no hole	1	303786
5 x 5/16-24M	MED-PRO / ○ 0 - no hole	1	303787
6 x 5/16-24M	LOW-PRO / ○ 0 - no hole	1	303788
6 x 5/16-24M	MED-PRO / ○ 0 - no hole	1	303789

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62, 76.

Discs, Non-woven web

Non-woven web disc (Surface Conditioning)

NDS 810



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Metals	●	Wood	○
Stainless steel	●		
Paint/Varnish/Filler	○		
Plastic	○		

Advantages: High edge stability - Aggressive abrasive behavior - Long service life - Perfectly suited for rough cleaning, deburring and grinding of welded seams

Diameter	Grade	Colour	Packing unit/pcs.	Article number
4-1/2 x 0	Coarse	Brown	10	303630
4-1/2 x 0	Medium	Maroon	10	303631
4-1/2 x 0	Very fine	Blue	10	303629
4-1/2 x 3/8	Coarse	Brown	10	303632
4-1/2 x 3/8	Medium	Maroon	10	303633
4-1/2 x 3/8	Very fine	Blue	10	303635
4-1/2 x 7/8	Coarse	Brown	10	303636
4-1/2 x 7/8	Medium	Maroon	10	303637
4-1/2 x 7/8	Very fine	Blue	10	303639
5 x 0	Coarse	Brown	10	303645
5 x 0	Medium	Maroon	10	303648
5 x 0	Very fine	Blue	10	303650
5 x 7/8	Coarse	Brown	10	303654
5 x 7/8	Medium	Maroon	10	303655
5 x 7/8	Very fine	Blue	10	303657
7 x 0	Coarse	Brown	10	303664
7 x 0	Medium	Maroon	10	303665
7 x 0	Very fine	Blue	10	303667
7 x 7/8	Coarse	Brown	10	303671
7 x 7/8	Medium	Maroon	10	303672
7 x 7/8	Very fine	Blue	10	303674

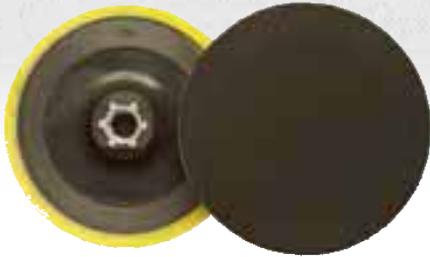
Other grades and sizes available on request.
Please observe: Please see Applications Guide on page 61 - 62, 76.

Back-up pads



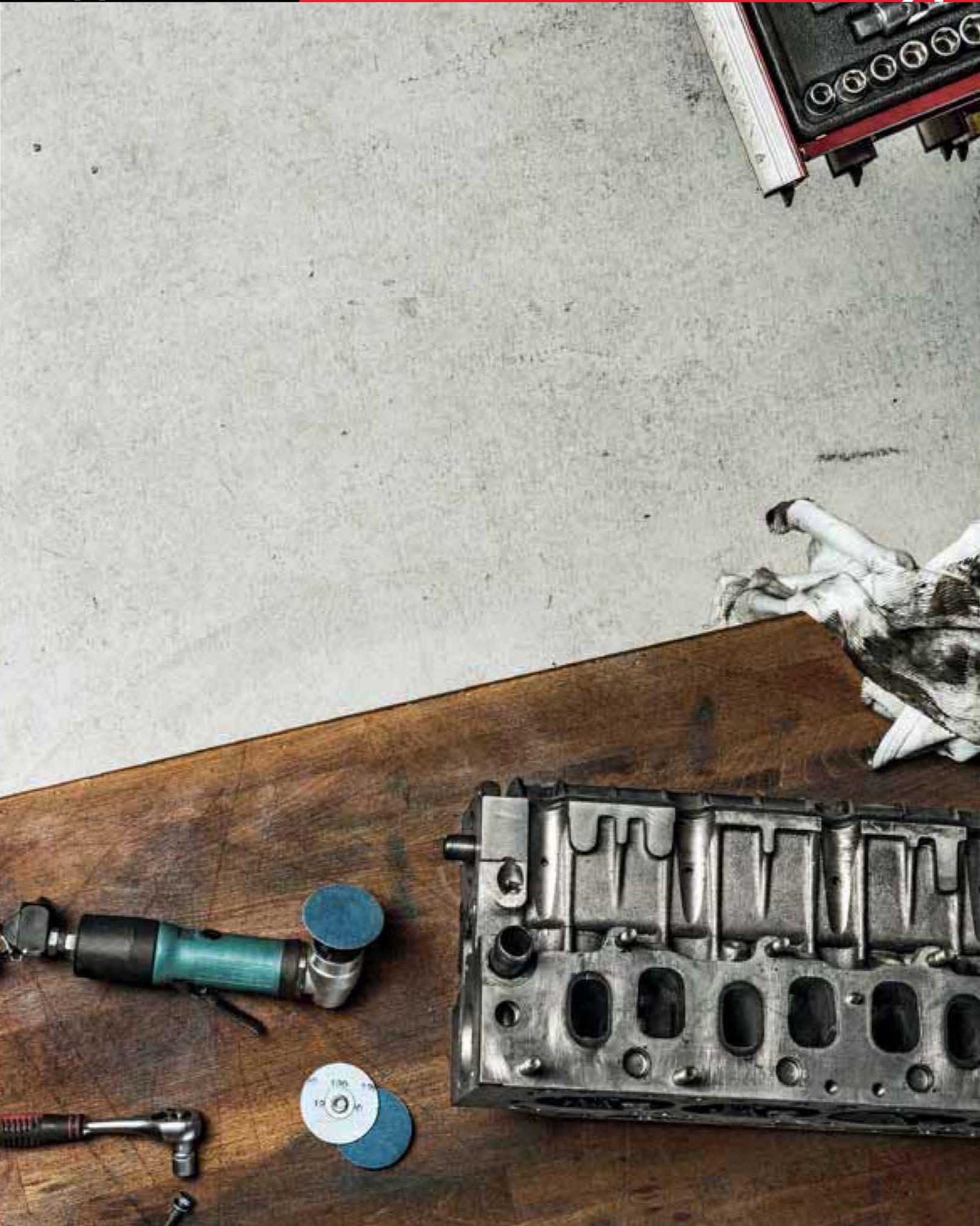
Back-up pad for Surface Conditioning discs

NDS 555



Advantages: Good adhesion for all for discs (non-woven web)

Diameter	Thread/ Shaft	Packing unit/pcs.	Article number
4-1/2	5/8 - 11F	1	303771
5	5/8 - 11F	1	303769
7	5/8 - 11F	1	303770



Quick Change Discs



About the product

Klingspor Quick Change Discs are designed for use on pneumatic and electric die grinders. The Quick Change Discs allow for a fast and safe tool change.

Applications:

- ▶ Tool design and construction
- ▶ Aviation industry
- ▶ Engine construction
- ▶ Turbine blade construction
- ▶ Mold construction
- ▶ Container and apparatus construction
- ▶ Model building / model making

Advantages:

- ▶ Simple and fast disc changes reduce set-up times
- ▶ No clip or Velcro so no slipping or release caused by heat
- ▶ Disc stays centered
- ▶ Simple handling and smooth running characteristics
- ▶ Diverse applications due to various dimensions and backing plate hardness

Quick Change Discs

Coated abrasive	Type	Grain	Coating	Characteristics	Page
	QMC/QRC 412 QCD	Aluminum oxide	●	The versatile disc for coarse and intermediate grinding on metal	96, 99, 103
	QMC/QRC 411 QCD	Zirconia alumina	●	High stock removal rate for rough grinding and deburring of stainless steel and steel	97, 100 103
	QMC/QRC 409	Zirconia alumina	●	Extremely high stock removal rate and long service life for stainless steel and high alloy steels with multibond for cool grinding	97, 101
	QMC/QRC 800	Aluminum oxide		Firm surface conditioning disc for cleaning and light deburring work, blending and processing of grinding marks	98, 101

Quick Change Discs

Applications guide

Minimum order quantities for non stock items

QCD	Diameter	Minimum order quantities
<i>QRC/QMC 412</i>	1"	1.700 pieces
<i>QRC/QMC 411</i>	1-1/2"	1.200 pieces
<i>QRC/QMC 409</i>	2"	900 pieces
	3"	600 pieces

QCD	Diameter	Minimum order quantities
<i>QRC/QMC 800</i>	1"	400 pieces
	1-1/2"	350 pieces
	2"	350 pieces
	3"	350 pieces

The right choice of the back-up pad/fastening device

Backing pads for quick change discs are available in grades according to the required application. The firmer the backing pad the higher the stock removal rate. Softer backing plates are suited for working on contoured surfaces and finish sanding.

The QCA 555 (cat. no. 308693) allows use on a regular angle grinder.

Please observe the max. RPM for the backing pads in the product chart.

Two fastening systems have prevailed on the market for the product group 'Quick Change Discs'. Klingspor can offer you both, Quick Metal Connect and Quick Roll Connect, for all available types.

Additionally Klingspor offers a third fastening system: QDC. QDCs must be used with Klingspor's Steel Mandrels



Quick Change Discs

Applications guide

The system QMC (Quick Metal Connect)

The Quick Change Discs with metal locking are fastened to the backing pad by an internal thread.



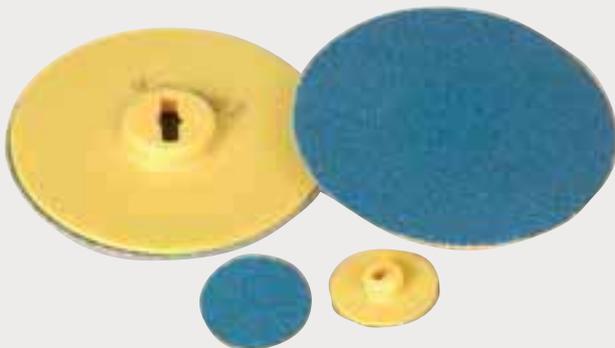
The system QRC (Quick Roll Connect)

Attach the Quick Change Disc to the backing plate using the plastic threaded bushing and secure by turning 180° clockwise.



The system QDC (Quick Disc Connect)

QDCs (Quick Disc Connect) are staple items in many production shops because they offer instant disc changes with assurance that the disc is centered and smooth running. They work on many applications including general purpose grinding, blending, deburring and removal of weld beads and flash. The QDCs are available in aluminum oxide, alumina zirconia, alumina zirconia lubed and ceramic aluminum oxide (Must be used with Klingspor's Steel Mandrels). **Please contact us for more information on availability.**

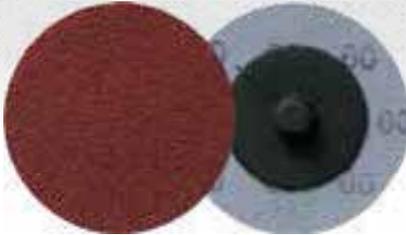


Quick Change Discs

Quick Roll Connect

Quick Change Disc

QRC 412



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close

Applications:

Metals	●
NF metals	●

Advantages: For universal use in coarse and intermediate grinding

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
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Diameter	Grit	Packing unit/pcs.	Article number
2	36	100	295207
2	40	100	295208
2	50	100	295209
2	60	100	295210
2	80	100	295211
2	100	100	295212
2	120	100	295213
3	36	50	295229
3	60	50	295232
3	80	50	295233
3	120	50	295235

Back-up pad see page 98

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 94. Please see Applications Guide on page 93 - 95.

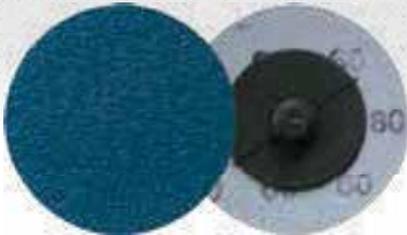
Quick Change Discs

Quick Roll Connect



Quick Change Disc

QRC 411



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close

Applications:

Stainless steel	●
Metals	●

Advantages: Aggressive abrasive behavior due to self-sharpening zirconia alumina - High removal rate on steel and stainless steel

Available grits:

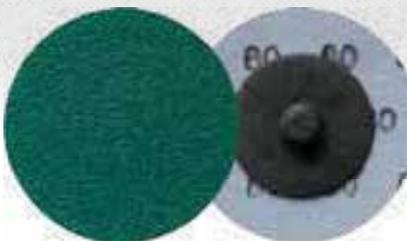
16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
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Diameter	Grit	Packing unit/pcs.	Article number
2	36	100	295306
2	40	100	295307
2	60	100	295309
2	80	100	295310
3	36	50	295318
3	40	50	295319
3	60	50	295321
3	80	50	295322

Back-up pad see page 98

Quick Change Disc

QRC 409



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close

Applications:

Stainless steel	●
Metals	●

Advantages: High removal rate on stainless steel - Multibond allows cool grinding on stainless steel - Minimal clogging on aluminum

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter	Grit	Packing unit/pcs.	Article number
2	36	100	295340
2	50	100	295342
2	60	100	295343
2	80	100	295344

Back-up pad see page 98

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 94. Please see Applications Guide on page 93 - 95.

Quick Change Discs / Back-up Pad

Quick Roll Connect

Quick Change Disc

QRC 800



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Metals	●
Paint/Varnish/Filler	○

Advantages: For light deburring - For removal of rust and paint - Long life due to hard, exceptional quality of non-woven web material

Diameter	Grade	Packing unit/pcs.	Article number
2	coarse	50	295413
2	medium	50	295414
2	very fine	50	295415
3	coarse	25	295419
3	medium	25	295420
3	very fine	25	295421

Back-up pad see page 98

Back-up Pad

QRC 555



Advantages: For secure mounting of QRC discs

Size x shank	Density	Max. RPM	Packing unit/pcs.	Article number
2 x 1/4M	MEDIUM	30,000 rpm	1	303777
3 x 1/4M	MEDIUM	30,000 rpm	1	303778

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 94. Please see Applications Guide on page 93 - 95.

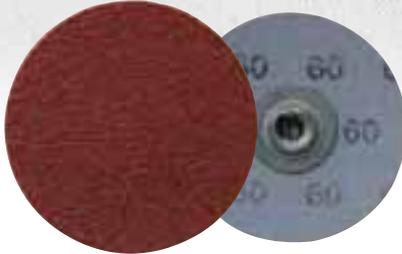
Quick Change Discs

Quick Metal Connect



Quick Change Disc

QMC 412



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close

Applications:

Metals	●
NF metals	●

Advantages: For universal use in coarse and intermediate grinding

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
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Diameter	Grit	Packing unit/pcs.	Article number
2	36	100	295196
2	40	100	295197
2	50	100	295198
2	60	100	295199
2	80	100	295200
2	100	100	295201
2	120	100	295202
3	36	50	295218
3	40	50	295219
3	60	50	295221
3	80	50	295222
3	120	50	295224

Back-up pad see page 102

Quick Change Discs

Other grits and sizes available on request.

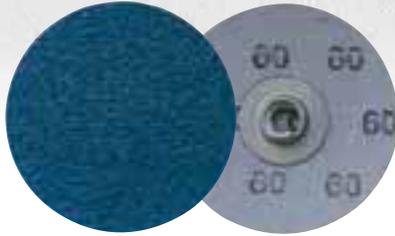
Please observe: Minimum order quantities for manufactured items see page 94. Please see Applications Guide on page 93 - 95.

Quick Change Discs

Quick Metal Connect

Quick Change Disc

QMC 411



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close

Applications:

Stainless steel	●
Metals	●

Advantages: Aggressive abrasive behavior due to self-sharpening zirconia alumina - High removal rate on steel and stainless steel

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

Diameter	Grit	Packing unit/pcs.	Article number
2	36	100	295300
2	40	100	295301
2	60	100	295303
2	80	100	295304
3	36	50	295312
3	40	50	295313
3	60	50	295315
3	80	50	295316

Back-up pad see page 102

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 94. Please see Applications Guide on page 93 - 95.

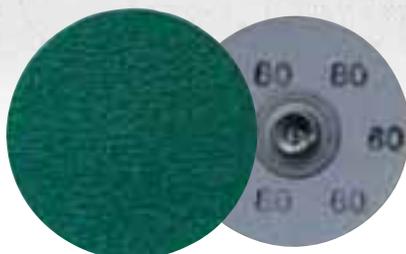
Quick Change Discs

Quick Metal Connect



Quick Change Disc

QMC 409



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close

Applications:

Stainless steel	●
Metals	●

Advantages: High removal rate on stainless steel - Multibond allows cool grinding on stainless steel - Minimal clogging on aluminum

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter	Grit	Packing unit/pcs.	Article number
2	36	100	295334
2	40	100	295335
2	60	100	295337
2	80	100	295338
3	36	50	295346
3	40	50	295347
3	60	50	295349
3	80	50	295350

Back-up pad see page 102

Quick Change Disc

QMC 800



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Metals	●
Paint/Varnish/Filler	○

Advantages: For light deburring - For removal of rust and paint - Long life due to hard, exceptional quality of non-woven web material

Diameter	Grade	Packing unit/pcs.	Article number
2	coarse	50	295410
2	medium	50	295411
2	very fine	50	295412
3	coarse	25	295416
3	medium	25	295417
3	very fine	25	295418

Back-up pad see page 102

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 94. Please see Applications Guide on page 93 - 95.

Quick Change Discs

Back-up Pad

Back-up Pad

QMC 555



Advantages: For secure mounting of QMC discs

Size x shank	Density	Max. RPM	Packing unit/pcs.	Article number
2 x 1/4M	MEDIUM	30,000 rpm	1	303774
3 x 1/4M	MEDIUM	30,000 rpm	1	303775

Quick Change Discs

Quick Disc Connect



Quick Change Disc

QDC 412



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close

Applications:

Metals	●
NF metals	●

Advantages: For universal use in coarse and intermediate grinding

Available grits:

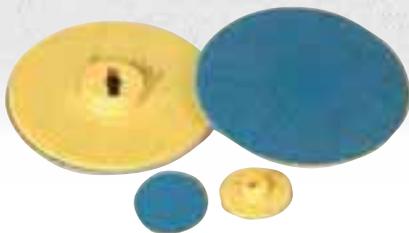
- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Must be used with Klingspor's Steel Mandrels

Quick Change Disc

QDC 411



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close

Applications:

Stainless steel	●
Metals	●

Advantages: Aggressive abrasive behavior due to self-sharpening zirconia alumina - High removal rate on steel and stainless steel

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

All sizes and minimum purchasing quantities available on request

Must be used with Klingspor's Steel Mandrels

Steel mandrels for QDC discs

QDC



Advantages: For secure mounting of QDC discs

Available for QDC discs in diameter 3/4", 1", 1-1/2", 2", 3", 4"

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 94. Please see Applications Guide on page 93 - 95.



Small abrasive mop



About the product

The small abrasive mop comprises of grinding flaps coated with aluminum oxide. The fan-shaped abrasive flaps are securely fixed to a central mounting spindle. The flap's fan-shaped radial arrangement adapts perfectly to the contours of the workpiece.

The wide range of grits (40 – 320) and top size coat additives (with and without multibonds) make the Klingspor small abrasive mop perfect for a wide range of applications.

Application examples

- ▶ Grinding work for tool and mould making
- ▶ Processing of profiled workpieces
- ▶ Processing of internal surfaces on pipework, fittings and difficult-to-reach areas
- ▶ Grinding work on small parts and casing

Type	Material applications														Machine applications			Page
	Metal	App. eng./Container constr.	Precision engineering	Mould making	Fittings	Pipes	Profiled sections	Tools	Mountings	Cutlery	Wood	Contoured wood	Model construction	Profiled sections	Plastics	Flexible shafts	Drilling machines	
<i>KM 613</i>	●	●	●	●	●	●	●	●	●	○	○	○	○	○	●	●	●	107
<i>NCS 600</i>	●	●	●	●	●	●	●	●	●	○	○	○	○	○	●	●	●	110
<i>NFS 600</i>	●	●	●	●	●	●	●	●	●	○	○	○	○	○	●	●	●	111

● = main application ○ = possible application

Minimum order quantities for non stock items

Product	Grit	Minimum order quantities
<i>KM 613</i>	40–320	250 pieces
	from 360	500 pieces

Product	Grit	Minimum order quantities
<i>NCS 600/ NFS 600</i>	30, 40, 50, 60	150 pieces
	80, 100	100 pieces

Small abrasive mop

Applications guide

Application recommendations

- ▶ The small abrasive mop can be used with flexible shaft grinders, stroke grinders (pneumatic, electric) or drilling machines.
- ▶ Their optimum performance is achieved at a cutting rate between 20 – 25 m/s. By observing these speeds, the product will perform efficiently in regard to tool wear, stock removal, surface finish and thermal load of the workpiece.

Factors influencing the grinding result

Stock removal:

An increase in stock removal should only occur as a result of using rougher grit and not as a result of increased tool / grinding pressure.

Steady increased tool / grinding pressure

- ▶ results in unnecessary tool wear and tear
- ▶ results in increased work piece temperature load
- ▶ can result in tool failure

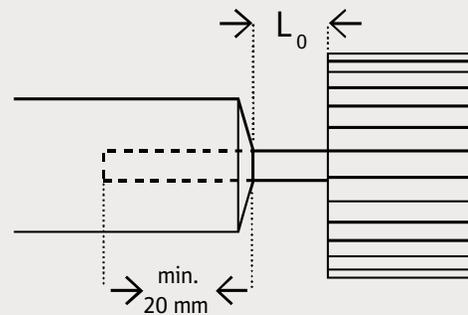
Surface finish:

- ▶ The wear of the outer edge of the grinding flaps results in the presentation of new sharp abrasive grain and provides an uniform surface finish
- ▶ The surface roughness decreases through an increase in the cutting rate
- ▶ An increase in tool / grinding pressure results in a coarser surface roughness
- ▶ The small abrasive mop achieves a significantly smoother surface finish compared to that of a belt grinder

Temperature load:

- ▶ By reducing the tool / grinding pressure and the peripheral speeds, the temperature load of the workpiece and the tool is reduced.

ø [mm]	Height [mm]	Maximum operating speed [m/s]	RPM [1/min]		
			L ₀ = 0 mm	L ₀ = 10 mm	L ₀ = 20 mm
20	≤ 20	40	38.150	28.600	21.900
25	≤ 15	40	30.500	22.900	17.500
30	≤ 15	40	25.400	19.000	14.600
40	≤ 20	40	19.000	14.300	10.900
50	≤ 30	40	15.200	11.400	8.700
60	≤ 50	40	12.700	9.500	7.300
80	≤ 40	40	9.500	7.100	5.400
	50	35	8.400	7.100	5.400



Tool wear:

- ▶ Tool service life is reduced by working at a lower tool / grinding pressure.

To ensure the optimal and most efficient use of a tool

- ▶ maximum revolutions per minute may not be exceeded
- ▶ fixing spindle length of the small abrasive mop in the mounting device must be at least 20 mm
- ▶ the set revolutions per minute may not be exceeded when using an exposed shaft length L₀ (please refer to the table above)

For additional information please refer to the safety information provided with the product.

Small abrasive mop

Abrasive mop



Small abrasive mop

KM 613



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Metals	●
Wood	○
Plastic	○

Advantages: Universal product for steel and stainless steel materials - Even removal rate - Suitable for use in hard-to-reach areas

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter x Height x Shaft	Grit	Max. RPM	Packing unit/pcs.	Article number
3/8 x 3/8 x 1/8	80	40,000 rpm	10	303545
3/8 x 3/8 x 1/8	120	40,000 rpm	10	303540
5/8 x 5/8 x 1/8	80	37,000 rpm	10	303578
5/8 x 5/8 x 1/8	120	37,000 rpm	10	303575
3/4 x 3/4 x 1/8	60	35,000 rpm	10	303534
3/4 x 3/4 x 1/8	80	35,000 rpm	10	303535
3/4 x 3/4 x 1/8	120	35,000 rpm	10	303530
3/4 x 3/4 x 1/4	80	35,000 rpm	10	303529
3/4 x 3/4 x 1/4	120	35,000 rpm	10	303526
1 x 1/2 x 1/4	40	30,000 rpm	10	278877
1 x 1/2 x 1/4	60	30,000 rpm	10	278878
1 x 1/2 x 1/4	80	30,000 rpm	10	278879
1 x 1/2 x 1/4	120	30,000 rpm	10	278881
1 x 3/8 x 1/4	80	30,000 rpm	10	278871
1 x 3/4 x 1/4	60	30,000 rpm	10	278894
1 x 3/4 x 1/4	80	30,000 rpm	10	278895
1 x 3/4 x 1/4	120	30,000 rpm	10	278897
1 x 1 x 1/4	40	30,000 rpm	10	278902
1 x 1 x 1/4	60	30,000 rpm	10	278905
1 x 1 x 1/4	80	30,000 rpm	10	278907
1 x 1 x 1/4	120	30,000 rpm	10	278910
1 x 1 x 1/4	180	30,000 rpm	10	278912
1 x 1 x 1/4	240	30,000 rpm	10	278913
1 x 1 x 1/4	320	30,000 rpm	10	278914
1-1/2 x 1/2 x 1/4	40	25,000 rpm	10	278946
1-1/2 x 1/2 x 1/4	60	25,000 rpm	10	278947
1-1/2 x 1/2 x 1/4	80	25,000 rpm	10	278948
1-1/2 x 1/2 x 1/4	120	25,000 rpm	10	278950
1-1/2 x 3/4 x 1/4	60	25,000 rpm	10	278956
1-1/2 x 3/4 x 1/4	80	25,000 rpm	10	278957

Continuation →

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 105. Please see Applications Guide on page 105 - 106.

Small abrasive mop

Abrasive mop

→ Continuation of KM 613, Small abrasive mop

Diameter x Height x Shaft	Grit	Max. RPM	Packing unit/pcs.	Article number
1-1/2 x 3/4 x 1/4	120	25,000 rpm	10	278959
1-1/2 x 1 x 1/4	40	25,000 rpm	10	278964
1-1/2 x 1 x 1/4	60	25,000 rpm	10	278966
1-1/2 x 1 x 1/4	80	25,000 rpm	10	278967
1-1/2 x 1 x 1/4	120	25,000 rpm	10	278971
1-1/2 x 1 x 1/4	180	25,000 rpm	10	278972
1-1/2 x 1 x 1/4	240	25,000 rpm	10	278973
1-1/2 x 1-1/2 x 1/4	40	25,000 rpm	10	278975
1-1/2 x 1-1/2 x 1/4	60	25,000 rpm	10	278976
1-1/2 x 1-1/2 x 1/4	80	25,000 rpm	10	278977
1-1/2 x 1-1/2 x 1/4	120	25,000 rpm	10	278979
1-3/16 x 1 x 1/4	60	25,000 rpm	10	278924
1-3/16 x 1 x 1/4	120	25,000 rpm	10	278927
1-3/16 x 3/16 x 1/4	60	25,000 rpm	10	278928
1-3/16 x 3/16 x 1/4	120	25,000 rpm	10	278930
2 x 3/8 x 1/4	60	25,000 rpm	10	278984
2 x 3/8 x 1/4	80	25,000 rpm	10	278985
2 x 1/2 x 1/4	40	25,000 rpm	10	278991
2 x 1/2 x 1/4	60	25,000 rpm	10	278992
2 x 1/2 x 1/4	80	25,000 rpm	10	278993
2 x 1/2 x 1/4	120	25,000 rpm	10	278995
2 x 3/4 x 1/4	40	25,000 rpm	10	278999
2 x 3/4 x 1/4	60	25,000 rpm	10	279000
2 x 3/4 x 1/4	80	25,000 rpm	10	279001
2 x 3/4 x 1/4	120	25,000 rpm	10	279003
2 x 1 x 1/4	40	25,000 rpm	10	279008
2 x 1 x 1/4	60	25,000 rpm	10	279011
2 x 1 x 1/4	80	25,000 rpm	10	279013
2 x 1 x 1/4	100	25,000 rpm	10	279015
2 x 1 x 1/4	120	25,000 rpm	10	279017
2 x 1 x 1/4	180	25,000 rpm	10	279019
2 x 1 x 1/4	240	25,000 rpm	10	279020
2 x 1-1/2 x 1/4	40	25,000 rpm	10	279022
2 x 1-1/2 x 1/4	60	25,000 rpm	10	279023
2 x 1-1/2 x 1/4	80	25,000 rpm	10	279024
2 x 1-1/2 x 1/4	120	25,000 rpm	10	279026
2 x 2 x 1/4	40	25,000 rpm	10	279031
2 x 2 x 1/4	60	25,000 rpm	10	279032
2 x 2 x 1/4	80	25,000 rpm	10	279033
2 x 2 x 1/4	120	25,000 rpm	10	279035
2-1/2 x 1/2 x 1/4	60	20,000 rpm	10	279041
2-1/2 x 1/2 x 1/4	80	20,000 rpm	10	279042
2-1/2 x 1 x 1/4	40	20,000 rpm	10	279058
2-1/2 x 1 x 1/4	60	20,000 rpm	10	279061
2-1/2 x 1 x 1/4	80	20,000 rpm	10	279063
2-1/2 x 1 x 1/4	120	20,000 rpm	10	279154
2-1/2 x 1-1/2 x 1/4	40	20,000 rpm	10	279168

Continuation →

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 105. Please see Applications Guide on page 105 - 106.

Small abrasive mop

Abrasive mop



→ Continuation of KM 613, Small abrasive mop

Diameter x Height x Shaft	Grit	Max. RPM	Packing unit/pcs.	Article number
2-1/2 x 1-1/2 x 1/4	60	20,000 rpm	10	279169
2-1/2 x 1-1/2 x 1/4	80	20,000 rpm	10	279170
2-1/2 x 1-1/2 x 1/4	120	20,000 rpm	10	279172
2-1/2 x 2 x 1/4	60	20,000 rpm	10	279177
3 x 1/2 x 1/4	40	9,500 rpm	10	279233
3 x 1/2 x 1/4	60	9,500 rpm	10	279185
3 x 1/2 x 1/4	80	9,500 rpm	10	279186
3 x 1/2 x 1/4	120	9,500 rpm	10	279236
3 x 1-1/2 x 1/4	60	9,500 rpm	10	279205
3 x 1-1/2 x 1/4	80	9,500 rpm	10	279206
3 x 1 x 1/4	40	9,500 rpm	10	279103
3 x 1 x 1/4	60	9,500 rpm	10	279105
3 x 1 x 1/4	80	9,500 rpm	10	279107
3 x 1 x 1/4	120	9,500 rpm	10	279200
3 x 1 x 1/4	180	9,500 rpm	10	279201
3 x 1 x 1/4	240	9,500 rpm	10	303553
3 x 1 x 1/4	320	9,500 rpm	10	303554
3 x 2 x 1/4	40	9,500 rpm	10	279212
3 x 2 x 1/4	60	9,500 rpm	10	279213
3 x 2 x 1/4	80	9,500 rpm	10	279214
3 x 2 x 1/4	120	9,500 rpm	10	279216

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 105. Please see Applications Guide on page 105 - 106.

Small abrasive mop

Abrasive mop

Abrasive mop

NCS 600



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Stainless steel	●
Metals	●
Plastic	○

Advantages: High removal rate and fine surface scratch pattern due to combination of non-woven and abrasive cloth flaps - Long service life

Diameter x Width x Mandrel	Grit	Grade	Max. RPM	Packing unit/pcs.	Article number
1-1/2 x 1 x 1/4	60	coarse	17,000 rpm	10	299880
1-1/2 x 1 x 1/4	100	medium	17,000 rpm	10	299881
2 x 1 x 1/4	60	coarse	13,700 rpm	10	299882
2 x 1 x 1/4	100	medium	13,700 rpm	10	299754
2 x 1 x 1/4	150	medium	13,700 rpm	10	299170
3 x 2 x 1/4	60	coarse	8,600 rpm	10	299500
3 x 2 x 1/4	100	medium	8,600 rpm	10	299883

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 105. Please see Applications Guide on page 105 - 106.

Small abrasive mop

Abrasive mop



Small finishing mop

NFS 600



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Metals	●
Stainless steel	●

Advantages: Even finish throughout the entire service life - Optimal tool with high-quality non-woven flaps for creating a matt or satin finish

Diameter x Width x Mandrel	Grade	Max. RPM	Packing unit/pcs.	Article number
1-1/2 x 1 x 1/4	medium	17,100 rpm	10	299905
1-1/2 x 1 x 1/4	fine	17,100 rpm	10	299102
1-1/2 x 1 x 1/4	very fine	17,100 rpm	10	299906
2 x 1 x 1/4	medium	13,700 rpm	10	299908
2 x 1 x 1/4	fine	13,700 rpm	10	299907
3 x 2 x 1/4	medium	8,600 rpm	10	297517
3 x 2 x 1/4	fine	8,600 rpm	10	298428
3 x 2 x 1/4	very fine	8,600 rpm	10	299406

Abrasive mop

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 105. Please see Applications Guide on page 105 - 106.

Abrasive mop wheels

About the product

Developed by Klingspor over 40 years ago, the abrasive mop wheel has found many practical and economical uses in surface finishing work. The Klingspor abrasive mop wheel comprises of high quality grinding flaps coated with aluminum oxide. The fan-shaped radial arrangement is firmly anchored by a resin core at the centre of the abrasive mop wheel. The structure of the abrasive mop wheel provides for very soft, comfortable grinding behaviour and adapts optimally to the contours of the workpiece. Klingspor abrasive mop wheels are especially suited for achieving a very smooth surface finish.

Klingspor has the perfect abrasive mop wheel to suit every surface, ranging from even to profiled surfaces, and is suited for nearly every material.

Machines:

Klingspor abrasive mop wheels can, depending on the dimensions, be used with the following machines:



Stroke grinders



Flexible shafts



Floor stand grinders



Angle grinders



Drilling machines

Type	Page	Material applications											Machine applications										
		Metal	Apparatus/ container engineering	Precision engineering	Mould making	Fittings	Pipes	Profiled sections	Tools	Mountings	Cutlery	Wood	Contoured wood	Model construction	Profiled sections	Paint / varnish / fillers	Plastics	Flexible shafts	Drilling machines	Stroke grinder	Automatic grinders	Floor stand grinders	Angle grinders
SM 611	116	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
WSM 617	117	●	●	●	●	●	●	●	●	●	○	○	●	●	●	●	○	●	●	●	●	●	●
NCW 600	118	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	●	●	●
NFW 600	118	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PW 2000	119	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● = main application ○ = possible application

Abrasive mop wheels

Applications guide

Mounting

Abrasive mop wheels SM 611, MM 650, Abrasive cloth mop wheels NCW/NFW 600

These abrasive mop wheels are mounted to the machine spindle with two SMD 612 mounting plates.

Correct mounting is important!

To ensure that the abrasive mop wheel runs smoothly, please check that the plates are mounted evenly and fit tightly to the inner edge of the metal side mounting plate retaining groove.

The mounting plates are equipped with mounting bore holes. Making the bore hole adjustments to fit the respective shaft diameter is quick and easy by drilling the appropriate bore hole diameter. Please refer to product text SMD 612 for more information on maximum bore hole diameters.

ATTENTION: Mop wheels should only be mounted with SMD 612. The metal side mounting plate bore hole is not suitable for mounting!

Abrasive mop wheel SM 611 H

The abrasive mop wheel with a wooden core is preferred for work on floor stand grinders with cone shaped mounting spindles. It can be mounted directly on the machine spindle without the use of a mounting plate. Abrasive mop wheel SM 611 H is equipped with a 1/2" bore hole. Making bore hole adjustments to fit the respective shaft diameter easy and quick - by simply drilling the appropriate bore hole diameter.

Abrasive mop wheel SM 611 W

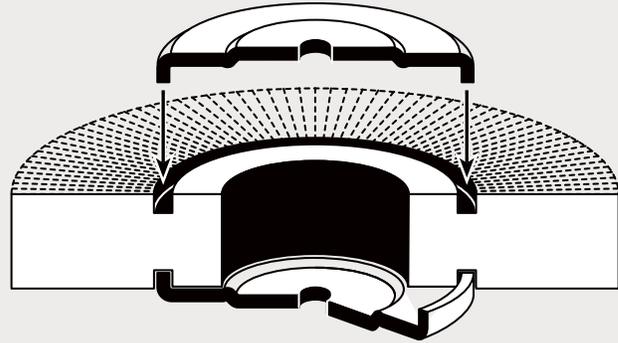
This abrasive mop wheel is equipped with a 1" mounting bore hole and can be mounted to a machine without the use of a mounting plate.

Abrasive flap drum SM 611, Abrasive mop drum NCW / NFW 600

These drums are equipped with mounting bore holes starting from 3/4" for all standard satin finishing machines with the corresponding machine spindles.

WSM 617

WSM 617 is a second generation abrasive mop wheel with integrated M14 and 5/8" internal threads. This wheel can be mounted and demounted to an angle grinder without the use of any additional tools.



Abrasive mop wheels

Applications guide

Minimum order quantities for non stock items

Product	Diameter in mm	Minimum order quantities
SM 611	4" to 6-1/2"	20 pieces
	8" to 12"	10 pieces
	14" to 16"	4 pieces
NFW 600 / NCW 600	4" to 6-1/2"	20 pieces
	8" to 12"	10 pieces
	14" to 16"	4 pieces

The surface scratch pattern

The abrasive mop wheel's construction makes it perfect for achieving a smooth surface finish.

The abrasive mop wheel achieves a significantly smoother surface finish compared to that of a belt grinder. When choosing a grit size please select a grit size that is 2-3 sizes rougher than that used with a belt grinder.



Abrasive mop wheel 40 grit

- ▶ long continuous line pattern
- ▶ minimum depression
- ▶ smooth finish



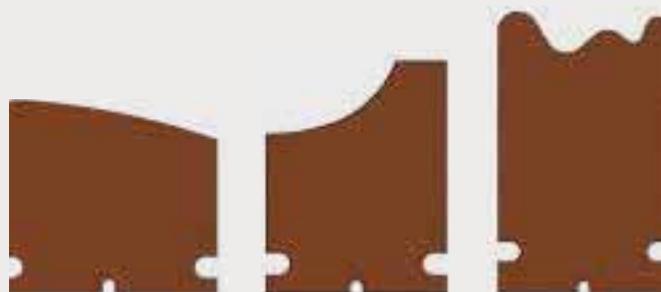
Abrasive belt 40 grit

- ▶ short distinctive line pattern
- ▶ rough surface
- ▶ high contrast finish

Flap Profiling

Pre-profiled abrasive mop wheels are designed to adapt perfectly to the contours of your individual workpiece and provide excellent results from the very beginning. Time consuming pre-profiling of the abrasive mop is no longer needed.

If you require an individualised abrasive mop wheel, we would be pleased to assist you with this.



Abrasive mop wheels

Applications guide

Packet assembling

Another way to influence the grinding result is packet assembling. During packet assembling, an intermediate layer is stamped between the cloth flaps. This creates space between the individual flaps, and influences the grinding behaviour of the wheel. The higher the ratio of grinding flaps to intermediate layers, the harder the abrasive mop wheel.

The standard abrasive mop wheel is manufactured without packet assembling.

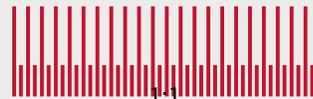
Exception: Starting at a diameter of ≥ 250 mm, a width of ≥ 50 mm, and a grit size 220 and finer, abrasive mop wheels are manufactured with a packet assembly ratio of 5:1.



5:1



3:1



1:1

Factors influencing the grinding result

The surface finish is dependent upon a wide range of process parameters. The table below illustrates the different influencing factors and their effect on the grinding result.

Influencing factor	Grinding result			
	Stock removal*	Surface finish	Service life	
Cutting rate	high	increases	finer	shorter
	low	decreases	rougher	longer
Tool / grinding pressure	high	increases	rougher	shorter
	marginal	decreases	finer	longer
Grit size	rough	increases	rougher	shorter
	fine	decreases	finer	longer
Grinding aids (oils, lubricants)	without	increases	rougher	shorter
	with	decreases	finer	longer

* Note: the essential parameters that affect the stock removal rate is the selection of a rougher (more stock removal) or finer (less stock removal) grit.

The safe use of Klingspor abrasives

Klingspor abrasive mops are manufactured in accordance with the oSa and EN 13743 standards, this ensures the highest level of user safety.



Wear safety goggles or glasses to protect the eyes



Wear safety gloves to protect hands



Wear a dust mask



Observe safety instructions



Use ear muffs



Do not use for wet grinding

Abrasive mop wheels

Abrasive mop

Abrasive mop

SM 611



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Paint/Varnish/Filler	●
Wood	●
Plastic	●
Metals	●

Advantages: Even surface scratch pattern due to continuously fresh, unused abrasive grit - For universal use on all materials - Adapts optimally to workpiece contour

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter x Width x Mandrel	Grit	Max. RPM	Packing unit/pcs.	Article number
6 x 1 x 1	40	5,700 rpm	1	290416
6 x 1 x 1	60	5,700 rpm	1	280604
6 x 1 x 1	80	5,700 rpm	1	280605
6 x 1 x 1	120	5,700 rpm	1	280606
6 x 1 x 1	180	5,700 rpm	1	288275
6 x 2 x 1	40	5,700 rpm	1	289118
6 x 2 x 1	60	5,700 rpm	1	280607
6 x 2 x 1	80	5,700 rpm	1	280608
6 x 2 x 1	120	5,700 rpm	1	289271

Accessories for SM 611

SMD 254



Advantages: Secure mounting of the abrasive mop SM 611

Size	suitable for	Packing unit/pcs.	Article number
1" to 1/2"	SM 611	1	303780
1" to 5/8"	SM 611	1	303781

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 114. Please see Applications Guide on page 112 - 115.

Abrasive mop wheels

Abrasive mop



Angle grinder mop

WSM 617



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Steel	●	Wood	●
Stainless steel	●		
Paint	●		
Plastic	●		

Advantages: Can be used on all standard angle grinders (80 m/s) - For universal use; in front and side position - Easy tool changing by hand without additional aids

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter x Width	Arbor	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
5 x 20mm	5/8-11	40	80 m/s	12,200 rpm	1	280236
5 x 20mm	5/8-11	60	80 m/s	12,200 rpm	1	280237
5 x 20mm	5/8-11	80	80 m/s	12,200 rpm	1	280238



The all-round abrasive mop wheel for the angle grinder

- Quick and easy mounting
- Multi purpose
- Extremely safe
- Ideal for working on hard-to-reach places

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 114. Please see Applications Guide on page 112 - 115.

Abrasive flap drums

Abrasive mop

Abrasive mop

NCW 600



NEW



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Stainless steel	●
Metals	●
Plastic	○

Advantages: High removal rate and fine surface scratch pattern due to combination of non-woven and abrasive cloth flaps - Long service life

Diameter x Width x Bore	Grit	Grade	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 4 x 3/4	80	coarse	3,300 rpm	1	320246
4-1/2 x 4 x 3/4	100	medium	3,300 rpm	1	320247
4-1/2 x 4 x 3/4	150	medium	3,300 rpm	1	320248
4-1/2 x 4 x 3/4	180	very fine	3,300 rpm	1	320249

Nylon webbed mop

NFW 600



NEW



Properties

Bonding agent	Resin
Grain	Aluminum oxide

Applications:

Metals	●
Stainless steel	●

Advantages: Even finish throughout the entire service life - Optimal tool with high-quality non-woven flaps for creating a matte or satin finish

Diameter x Width x Bore	Grade	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 4 x 3/4	coarse	3,300 rpm	1	320253
4-1/2 x 4 x 3/4	medium	3,300 rpm	1	320254
4-1/2 x 4 x 3/4	very fine	3,300 rpm	1	320255

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 114. Please see Applications Guide on page 112 - 115.

Power Wheel



Power Wheel, extra coarse

PW 2000



Applications:

Paint/Varnish/Filler	●
Plastic	●
Metals	●
Stone	●

Advantages: Special non-woven web, ideal for removing heat tinting, oxide layers, rust and paint residue - For cleaning of weld seams - No clogging

Diameter x Width x Bore	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
6 x 1/2 x 1/2	40 m/s	5,000 rpm	10	194626

Fixing spindle

SD 2000



Advantages: For secure mounting on drilling machines, flexible shafts and stroke grinders and optimal true running of the grinding tool PW 2000

Dimension	suitable for	Shaft	Packing unit/pcs.	Article number
1/2 - 1	PW 2000	1/4	1	303779

Abrasive mop

Other grits and sizes available on request.

Please observe: Minimum order quantities for manufactured items see page 114. Please see Applications Guide on page 112 - 115.



Fibre discs



About the product

Klingspor fibre discs have high material removal rates and service life, producing an optimal finish. Suitable backing plates complete the product range.

Areas of use are steel, stainless steel, non-ferrous metal and cast iron. The comprehensive grit range makes it possible to select the right tool for every application. Even the most difficult of surfaces can be worked on easily with the fibre discs.

Klingspor fibre discs are outstanding for rough grinding and sanding, de-rusting metal parts, deburring and grinding welded seams. These discs are also suitable for precision finishing work on metals.

The state-of-the-art laser cutting technology allows special shapes for specific applications.

Quality and performance

- ▶ Low clogging rate
- ▶ Market leading service life
- ▶ Even grinding finish
- ▶ Cool grinding

Hole pattern for fibre discs

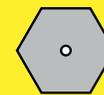
Standard stock pattern



30 = star shaped hole



10 = round hole



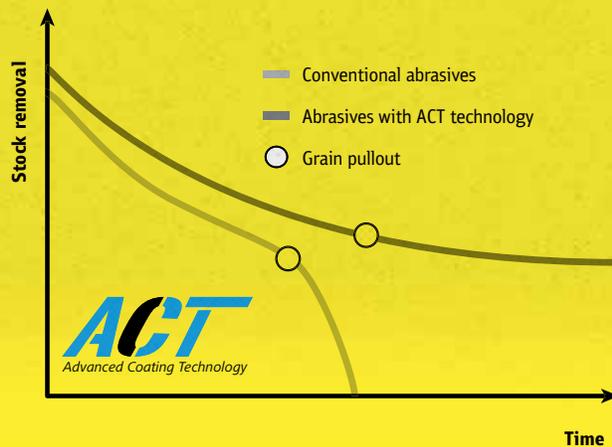
Additional special cutting shapes are available on request. Please ask us!



Please contact us for pricing and availability of non stock items.

ACT-Advanced Coating Technology:

Provides a significantly higher grit adhesion, when working on metal with fibre discs. This significantly increases the life



Fibre discs

Applications Fibre Discs

Application	Type	Grain	Backing	Coating	Characteristics	Page
Steel, NF metals	CS 561	Aluminum oxide	Fibre	●	Abrasive fibre disc for working on steel and NF metals	122
Steel, stainless steel	CS 565	Zirconia alumina	Fibre	●	Abrasive fibre disc with high stock removal rate for rough grinding and deburring of steel and stainless steel	123
	CS 570	Zirconia alumina	Fibre	●	High-performance fibre disc with additional multibond for high stock removal rate and long service life for cool grinding on stainless steel and high-alloy steel, especially for surface grinding	124
Stainless steel	FS 966 ACT	Ceramic aluminum oxide	Fibre	●	High-performance fibre disc with very high stock removal rate and extremely long service life, with self-sharpening ceramic grain for the processing of high-alloy steel, multibond for cool grinding. Improved grit adhesion due to new Advanced Coating Technology	125

● = close ● = semi-open ○ = open

Fibre discs Coated abrasives

Abrasive fibre disc

CS 561



Properties

Bonding agent	Resin
Grain	Aluminum oxide
Coating	Close

Applications:

Steel	●	Stainless steel	○
NF metals	●	Wood	○
Metals	●		
Plastic	○		

Advantages: For universal use - Largest selection of diameters, grit sizes and hole patterns

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter x Hole	Grit	Hole pattern	Packing unit/pcs.	Article number
4 x 5/8	24	⊖ 10	25	65713
4 x 5/8	36	⊖ 10	25	65718
4 x 5/8	50	⊖ 10	25	65725
4 x 5/8	60	⊖ 10	25	65730
4 x 5/8	80	⊖ 10	25	65735
4-1/2 x 7/8	16	⊗ 30	25	10977
4-1/2 x 7/8	24	⊗ 30	25	10978
4-1/2 x 7/8	36	⊗ 30	25	10980
4-1/2 x 7/8	40	⊗ 30	25	10981
4-1/2 x 7/8	50	⊗ 30	25	10982
4-1/2 x 7/8	60	⊗ 30	25	10983
4-1/2 x 7/8	80	⊗ 30	25	10984
4-1/2 x 7/8	100	⊗ 30	25	10985
4-1/2 x 7/8	120	⊗ 30	25	10986
4-1/2 x 7/8	180	⊗ 30	25	10988
5 x 7/8	16	⊗ 30	25	11009
5 x 7/8	24	⊗ 30	25	11010
5 x 7/8	36	⊗ 30	25	11012
5 x 7/8	40	⊗ 30	25	11013
5 x 7/8	50	⊗ 30	25	11014
5 x 7/8	60	⊗ 30	25	11015
5 x 7/8	80	⊗ 30	25	11016
5 x 7/8	100	⊗ 30	25	11017
5 x 7/8	120	⊗ 30	25	11018
5 x 7/8	150	⊗ 30	25	11019
7 x 7/8	16	⊗ 30	25	11057
7 x 7/8	24	⊗ 30	25	11058
7 x 7/8	36	⊗ 30	25	11060
7 x 7/8	50	⊗ 30	25	11062

Back-up pads see page 126 / Dispenser see page 127

Continuation →

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 121.

Fibre discs Coated abrasives



→ Continuation of CS 561, Abrasive fibre disc

Diameter x Hole	Grit	Hole pattern	Packing unit/pcs.	Article number
7 x 7/8	60	⊗ 30	25	11063
7 x 7/8	80	⊗ 30	25	11064
7 x 7/8	100	⊗ 30	25	11065
7 x 7/8	120	⊗ 30	25	11066

Back-up pads see page 126 / Dispenser see page 127

Abrasive fibre disc

CS 565



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close

Applications:

Stainless steel	●
Steel	●
Metals	●

Advantages: Self-sharpening effect - High aggressiveness on steel and stainless steel - Ideal for rough grinding work - Excellent price/performance ratio

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter x Hole	Grit	Hole pattern	Packing unit/pcs.	Article number
4-1/2 x 7/8	24	⊗ 30	25	95335
4-1/2 x 7/8	36	⊗ 30	25	6686
4-1/2 x 7/8	50	⊗ 30	25	92066
4-1/2 x 7/8	60	⊗ 30	25	6687
4-1/2 x 7/8	80	⊗ 30	25	6688
4-1/2 x 7/8	100	⊗ 30	25	204609
5 x 7/8	24	⊗ 30	25	97643
5 x 7/8	36	⊗ 30	25	6620
5 x 7/8	50	⊗ 30	25	93054
5 x 7/8	60	⊗ 30	25	6721
5 x 7/8	80	⊗ 30	25	23005
5 x 7/8	100	⊗ 30	25	204611
7 x 7/8	24	⊗ 30	25	95993
7 x 7/8	36	⊗ 30	25	65703
7 x 7/8	50	⊗ 30	25	93045

Back-up pads see page 126 / Dispenser see page 127

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 121.

Fibre discs Coated abrasives

Fibre disc, multibond

CS 570



Properties

Bonding agent	Resin
Grain	Zirconia alumina
Coating	Close

Applications:

Stainless steel	●
Aluminum	●
NF metals	○

Advantages: Self-sharpening effect - High aggressiveness, especially suitable for stainless steel - Increase in performance due to low temperatures - Multibond prevents heat tinting - Especially suitable for use on aluminum

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter x Hole	Grit	Hole pattern	Packing unit/pcs.	Article number
4-1/2 x 7/8	24	⊗ 30	25	204085
4-1/2 x 7/8	36	⊗ 30	25	204086
4-1/2 x 7/8	50	⊗ 30	25	204087
4-1/2 x 7/8	60	⊗ 30	25	204088
4-1/2 x 7/8	80	⊗ 30	25	204089
4-1/2 x 7/8	120	⊗ 30	25	204091
5 x 7/8	24	⊗ 30	25	204092
5 x 7/8	36	⊗ 30	25	204093
5 x 7/8	50	⊗ 30	25	204094
5 x 7/8	60	⊗ 30	25	204095
5 x 7/8	80	⊗ 30	25	204096
5 x 7/8	100	⊗ 30	25	204097
5 x 7/8	120	⊗ 30	25	204098
7 x 7/8	24	⊗ 30	25	204099
7 x 7/8	36	⊗ 30	25	204100
7 x 7/8	50	⊗ 30	25	204101
7 x 7/8	80	⊗ 30	25	204103

Back-up pads see page 126 / Dispenser see page 127

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 121.

Fibre discs Coated abrasives



Fibre disc, multibond

FS 966 ACT



Properties

Bonding agent	Resin
Grain	Ceramic Al. oxide
Coating	Close

Applications:

Stainless steel	●
-----------------	---

Advantages: Micro-crystalline self-sharpening effect - High aggressiveness throughout the service life - Outstanding grit adhesion - Long service life, especially suitable for heavy-duty applications - Increase in performance due to low temperatures - Multibond prevents heat tinting

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter x Hole	Grit	Hole pattern	Packing unit/pcs.	Article number
4-1/2 x 7/8	36	⊗ 30	25	316490
4-1/2 x 7/8	40	⊗ 30	25	316491
4-1/2 x 7/8	60	⊗ 30	25	316492
4-1/2 x 7/8	80	⊗ 30	25	316493
5 x 7/8	36	⊗ 30	25	316494
5 x 7/8	40	⊗ 30	25	316495
5 x 7/8	60	⊗ 30	25	316496
5 x 7/8	80	⊗ 30	25	316497
7 x 7/8	36	⊗ 30	25	316498
7 x 7/8	40	⊗ 30	25	316499
7 x 7/8	60	⊗ 30	25	316501
7 x 7/8	80	⊗ 30	25	316502

Back-up pads see page 126 / Dispenser see page 127

Other grits and sizes available on request.
Please observe: Please see Applications Guide on page 121.

Back-up pads

Back-up pad

ST 358 C



Advantages: Medium-hard backing pad allows good adaptation to the workpiece - For universal use, especially for surface and finish grinding (grit 50 and finer) - High temperature resistance

Dimensions	Density	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 5/8-11	Med.	80 m/s	13,300 rpm	1	303782
5 x 5/8-11	Med.	80 m/s	12,200 rpm	1	303783
7 x 5/8-11	Med.	80 m/s	8,500 rpm	1	303784

Back-up pad

ST 358 CS



Advantages: Increases air flow between the disc and back-up pad - Slots reduce heat and extend disc life - Includes retaining nut

Dimensions	Density	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 5/8-11	Med.	80 m/s	13,500 rpm	1	305849
5 x 5/8-11	Med.	80 m/s	13,000 rpm	1	306080
7 x 5/8-11	Med.	80 m/s	8,600 rpm	1	304811

Dispenser



Dispenser for fibre discs

FS 555



Advantages: Easy stacking and removal of up to 100 fibre discs with 4-1/2 – 7" diameter - Organized and accessible storage at the workplace
Fibre discs not included

Size	Packing unit/pcs.	Article number
6-1/16 x 5-1/2 x 7-23/32	1	316463



Abrasive mop disc



About the product

Since their market launch, the Klingspor abrasive mop disc has successfully taken the place of the grinding disc in many areas of surface finishing.

The performance of the abrasive mop disc, with its fan-shaped radial arrangement of cloth grinding flaps, far exceeds that of other abrasive products.

Klingspor abrasive mop discs are made of zirconia alumina, ceramic, or aluminum oxide coated flaps that are fastened to glass fibre-reinforced or plastic backing plates.

The even arrangement of the flaps guarantees high flexibility, constant high grinding performance and low vibrations.

Application	Material						
	Metal universal / steel		Stainless steel (INOX), high alloy stainless steel, NF-metals		Aluminum, NF-metals		Paint, varnishes, plastics, wood
	Type	Design	Type	Design	Type	Design	Type
Finish grinding	SMT 324 EXTRA	flat	SMT 628 SUPRA				
	SMT 325 EXTRA	flat	SMT 925 SPECIAL	flat			
	SMT 628 SUPRA		SMT 636 SUPRA				
	SMT 925 SPECIAL	flat	SMT 996 SPECIAL				
	SMT 640 SPECIAL		SMT 800 SPECIAL		SMT 636 SUPRA	flat	
			CMT 800 SPECIAL				
Welded seam work			CMT 728 SUPRA				
	SMT 324 EXTRA	convex	SMT 624 SUPRA		SMT 314 EXTRA	convex	
	SMT 325 EXTRA	convex	SMT 626 SUPRA		SMT 636 SUPRA	convex	
	SMT 624 SUPRA		SMT 636 SUPRA	convex			
	SMT 626 SUPRA		SMT 996 SPECIAL	convex			
	SMT 926 SPECIAL		CMT 726 SUPRA				
Edge work; bevelling	SMT 850 plus SPECIAL						
	SMT 324 EXTRA	convex	SMT 624 SUPRA		SMT 314 EXTRA	convex	
	SMT 325 EXTRA	convex	SMT 626 SUPRA				
	SMT 624 SUPRA		SMT 314 EXTRA	convex			
	SMT 626 SUPRA		SMT 636 SUPRA	convex	SMT 636 SUPRA	convex	
	SMT 314 EXTRA	convex	SMT 926 SPECIAL				
Concave fillet weld work	SMT 926 SPECIAL		SMT 996 SPECIAL	convex			
			CMT 726 SUPRA				
Rust and varnish removal			MFW 600 SPECIAL				
	SMT 800 SPECIAL		SMT 800 SPECIAL		SMT 800 SPECIAL		
	CMT 800 SPECIAL		CMT 800 SPECIAL		CMT 800 SPECIAL		NCD 200 SPECIAL
Heat tinting and oxide film removal	NCD 200 SPECIAL		NCD 200 SPECIAL		NCD 200 SPECIAL		
			SMT 800 SPECIAL		SMT 800 SPECIAL		
			CMT 800 SPECIAL		CMT 800 SPECIAL		
		NCD 200 SPECIAL		NCD 200 SPECIAL			

Abrasive mop disc

Abrasive mop disc

Applications guide

1. Red bar

Label indicates the max. peripheral speed of 80 m/s

2. Safety recommendations

oSa label

3. Dimensions

Product dimensions in millimeter and inch

4. Punch ring

Manufacturer information, no expiry date!

5. Grit size

6. Cat. number

7. Safety recommendations

Language neutral pictograms

8. Quality class

Extra/Supra/Special

9. Product name

Type



Product groups

Klingspor offers three integrated product groups. For each user and application we offer the right abrasive mop disc. All abrasive mop discs are manufactured according to the applicable standards and guarantee the highest degree of safety.



EXTRA

Ideal price-performance ratio for universal implementation. Excellent grinding results on different steel materials.



SUPRA

Professional products with excellent service life and high stock removal rate. Aggressive grinding and long service life.



SPECIAL

High performance products for special industrial and trade applications. High performance and service life even when used intensively.

Abrasive mop disc

Applications guide



Product structure

The three abrasive mop disc components are perfectly integrated to achieve maximum performance.

1. Grinding flaps

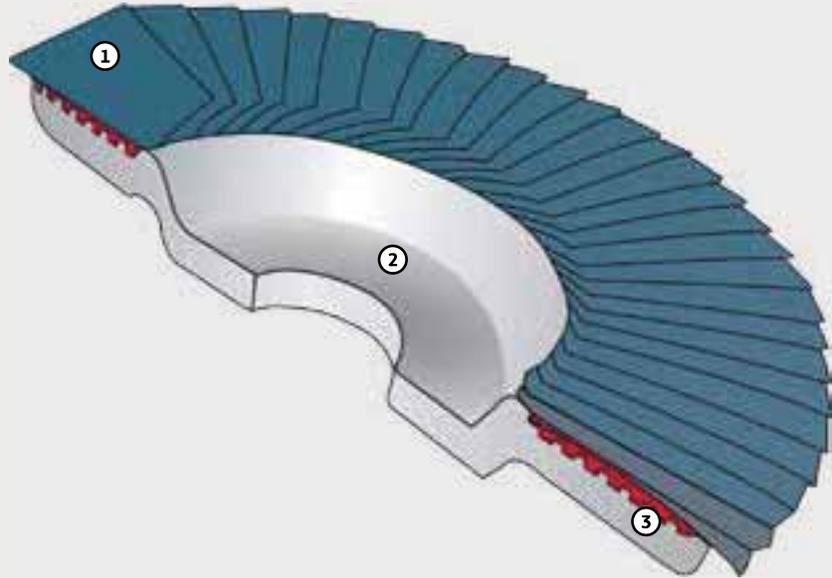
Klingspor has developed special coated abrasives for its abrasive mop discs. The grinding tool is perfect for use with high speed angle grinders (80 m/s) and corresponding applications. This ensures top grinding performance and long service life.

2. Backing plate

Klingspor uses two different backing plate types to produce abrasive mop discs. The first one is the most popular on the market made of glass fibre; the second one is made of plastic.

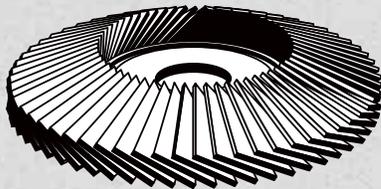
3. Glue

The glue (adhesive) is the joint between the backing plate and the grinding flaps. It ensures that the grinding flaps cannot come off the backing plate if used properly. It also ensures safety far above the guidelines of the oSa directives and the EN 13743 safety standard.

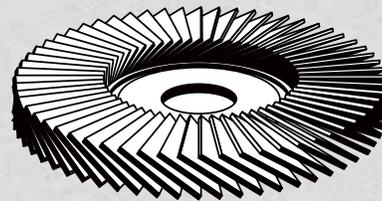


Form

The convex abrasive mop disc grinds a narrower surface than the flat abrasive mop disc. The more selective use of the convex disc achieves a greater stock removal rate per time unit as compared to the flat mop disc. The convex abrasive mop disc is particularly suited to working on edges and welded seams. The flat disc is primarily used for flat and surface grinding.



convex



flat



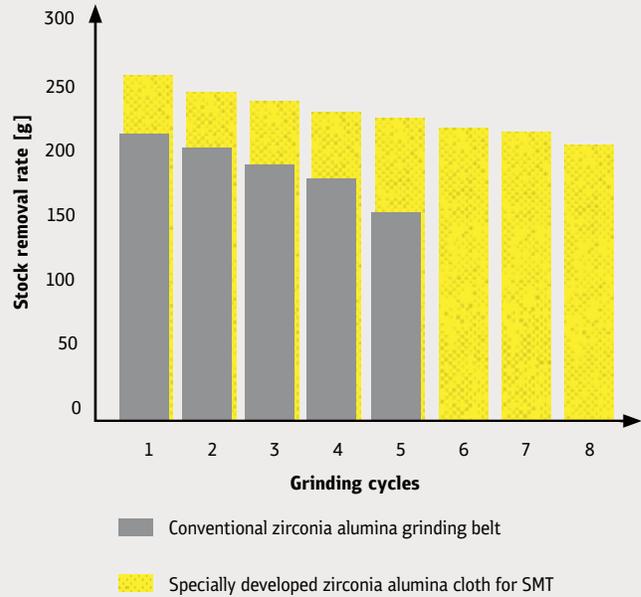
Abrasive mop disc

Applications guide

Coated abrasives

Compared to belt applications the coated abrasives for abrasive mop discs withstand much higher loads. On the one hand, the cutting speed of abrasive mop discs is approx. 2 to 2.5 times faster than the cutting rate of a belt application, on the other hand the backing must wear down to ensure that new, unused grit is used.

Klingspor has developed special coated abrasives specifically for this product group. These are developed specifically for high powered angle grinders (80 m/s) and ensures top grinding performance and long service life (see diagram).



1. Zirconia alumina cloth

zirconia alumina grit, heavy cotton polyester cloth, best performance with high power machines

2. Zirconia alumina cloth

aggressive zirconia alumina grit, robust cotton polyester backing, for high stock removal

3. Zirconia alumina + Multibond

self-sharpening zirconia alumina grit, cotton backing, especially for cool grinding on stainless steel

4. Aluminum oxide cloth

durable grit aluminum oxide, cotton cloth, for use with metal and NF-metals

5. Ceramic aluminum oxide + Multibond

ceramic high performance grit, robust polyester backing high performance for stainless steel work, cool grinding on stainless steel surfaces

6. Ceramic aluminum oxide

ceramic high performance grit, robust polyester backing, high performance for steel work



The safe use of Klingspor abrasives

Klingspor abrasive mop discs are manufactured according to the oSa and EN13743 standards, this ensures the highest level of user safety.



Wear safety goggles or glasses to protect the eyes



Wear safety gloves to protect hands



Wear a dust mask



Observe safety instructions



Use ear muffs



Do not use for wet grinding



Correctly mounted



Incorrectly mounted

Abrasive mop disc

Applications guide

New SMT program 2015

		Steel / NF-metals	Steel / INOX			Stainless Steel	
		Aggression	Aggression			Service life	
			SMT 924		SMT 925	SMT 926	SMT 996
SPECIAL	Type:						
	Aggression:		■■■■■■■		■■■■■■■	■■■■■■■□	■■■■■■■
	Service life:		■■■■■■■		■■■■■■■□	■■■■■■■	■■■■■■■□
	Backing plate:		Glass fibre		Plastic	Glass fibre	Glass fibre
	Form:		convex (12°)		convex (12°) / flat	convex (6°)	convex (6°) / flat
SUPRA	Type:						
	Aggression:		■■■■■■■□	■■■■■■■□		■■■■■■■□	■■■■■■■□
	Service life:		■■■■■■■□□	■■■■■■■□□		■■■■■■■□	■■■■■■■□□
	Backing plate:		Glass fibre	Glass fibre		Glass fibre	Glass fibre
	Form:		convex (12°)	flat		convex (6°)	convex (6°) / flat
EXTRA	Type:						
	Aggression:	■■■■□□□	■■■■■■□□		■■■■■■□□		
	Service life:	■■■■□□□	■■■■□□□		■■■■□□□		
	Backing plate:	Glass fibre	Glass fibre		Plastic		
	Form:	convex (12°)	convex (12°) / flat		convex (12°) / flat		

Abrasive mop disc

Abrasive mop disc

SMT 314 EXTRA



NEW

Quality *EXTRA*

Aggression

Service life

Applications:

Steel ●

NF metals ●

Wood ○

Properties

Backing plate Glass fibre

Design Convex 12°

Grain Aluminum oxide

Advantages: Good stock removal rate on unalloyed steels - Also suitable for non-ferrous metals - Good removal rate on angle grinders of all performance classes

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter x Bore	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	322809
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	322811
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	322812
4-1/2 x 7/8		120	80 m/s	13,300 rpm	10	322813
5 x 7/8		40	80 m/s	12,200 rpm	10	322815
5 x 7/8		60	80 m/s	12,200 rpm	10	322817
5 x 7/8		80	80 m/s	12,200 rpm	10	322818
5 x 7/8		120	80 m/s	12,200 rpm	10	322819

Abrasive mop disc

SMT 324 EXTRA



NEW

Quality *EXTRA*

Aggression

Service life

Applications:

Stainless steel ●

Steel ●

Properties

Backing plate Glass fibre

Design Convex 12°, flat

Grain Zirconia alumina

Advantages: Universal product for edges and surface work on steel and stainless steel - Good removal rate on angle grinders of all performance classes - No glazing, also under low grinding pressure

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter x Bore	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	321509
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	321511
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	321513

Please observe: Please see Applications Guide on page 129 - 133.

Continuation →

Abrasive mop disc



→ Continuation of SMT 324 Extra, Abrasive mop disc

Diameter x Bore	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	321645
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	321647
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	321649
5 x 7/8		40	80 m/s	12,200 rpm	10	321510
5 x 7/8		60	80 m/s	12,200 rpm	10	321512
5 x 7/8		80	80 m/s	12,200 rpm	10	321514
5 x 7/8		40	80 m/s	12,200 rpm	10	321646
5 x 7/8		60	80 m/s	12,200 rpm	10	321648
5 x 7/8		80	80 m/s	12,200 rpm	10	321650

Abrasive mop disc

SMT 325 EXTRA



Quality	EXTRA
Aggression	■ ■ ■ ■ ■ □ □
Service life	■ ■ ■ ■ □ □ □

Applications:	
Stainless steel	●
Steel	●



NEW

Properties	
Backing plate	Plastic, glass-fibre reinforced
Design	Convex 12°, flat
Grain	Zirconia alumina

Advantages: Universal product for edges and surface work on steel and stainless steel - Good removal rate on angle grinders of all performance classes - No glazing, also under low grinding pressure

Available grits:

- 16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter x Bore	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	321659
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	321661
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	321663
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	321653
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	321655
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	321657
5 x 7/8		40	80 m/s	12,200 rpm	10	321660
5 x 7/8		60	80 m/s	12,200 rpm	10	321662
5 x 7/8		80	80 m/s	12,200 rpm	10	321664
5 x 7/8		40	80 m/s	12,200 rpm	10	321654
5 x 7/8		60	80 m/s	12,200 rpm	10	321656
5 x 7/8		80	80 m/s	12,200 rpm	10	321658

Please observe: Please see Applications Guide on page 129 - 133.

Abrasive mop disc

Abrasive mop disc

SMT 624 SUPRA



NEW

Quality SUPRA

Applications:

Properties

Aggression	■■■■■□
Service life	■■■■■□□

Stainless steel	●
Steel	●

Backing plate	Glass fibre
Design	Convex 12°
Grain	Zirconia alumina

Advantages: Aggressive stock removal rate - Ergonomically friendly - For universal use in demanding grinding work on steel and stainless steel - Optimal removal rate when used on high-power angle grinders

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter x Bore	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		36	80 m/s	13,300 rpm	10	322764
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	322765
4-1/2 x 7/8		50	80 m/s	13,300 rpm	10	322766
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	322767
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	322768
4-1/2 x 7/8		120	80 m/s	13,300 rpm	10	322769
5 x 7/8		36	80 m/s	12,200 rpm	10	322771
5 x 7/8		40	80 m/s	12,200 rpm	10	322772
5 x 7/8		50	80 m/s	12,200 rpm	10	322773
5 x 7/8		60	80 m/s	12,200 rpm	10	322774
5 x 7/8		80	80 m/s	12,200 rpm	10	322775
5 x 7/8		120	80 m/s	12,200 rpm	10	322776
6 x 7/8		40	80 m/s	10,200 rpm	10	322778
6 x 7/8		60	80 m/s	10,200 rpm	10	322779
6 x 7/8		80	80 m/s	10,200 rpm	10	322780
7 x 7/8		36	80 m/s	8,500 rpm	10	322782
7 x 7/8		40	80 m/s	8,500 rpm	10	322783
7 x 7/8		50	80 m/s	8,500 rpm	10	322784
7 x 7/8		60	80 m/s	8,500 rpm	10	322785
7 x 7/8		80	80 m/s	8,500 rpm	10	322786

Abrasive mop disc



NEW

Abrasive mop disc

SMT 626 SUPRA



Quality	SUPRA
Aggression	■■■■■■■□
Service life	■■■■■■■□



Applications:	Properties
Stainless steel ●	Backing plate Glass fibre
Steel ●	Design Convex 6°
	Grain Zirconia alumina

Advantages: High material removal rates - Considerably longer service life due to unique flap angle

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

Diameter x Bore	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	321689
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	321694
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	321697
5 x 7/8		40	80 m/s	12,200 rpm	10	321690
5 x 7/8		60	80 m/s	12,200 rpm	10	321695
5 x 7/8		80	80 m/s	12,200 rpm	10	321698

Abrasive mop disc

SMT 628 SUPRA



Quality	SUPRA
Aggression	■■■■■■■□
Service life	■■■■■■■□



Applications:	Properties
Stainless steel ●	Backing plate Glass fibre
Steel ●	Design Flat
	Grain Zirconia alumina

Advantages: Especially suitable for surface grinding of steel and stainless steel - Optimal removal rate when used on high-power angle grinders - Aggressive stock removal rate and comfortable grinding behaviour

Available grits:

- 16
- 24
- 30
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 360
- 400
- 500
- 600
- 800
- 1000
- 1200
- 1500
- 2000

Diameter x Bore	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	322790
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	322792
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	322793
5 x 7/8		40	80 m/s	12,200 rpm	10	322796
5 x 7/8		60	80 m/s	12,200 rpm	10	322798
5 x 7/8		80	80 m/s	12,200 rpm	10	322799

Please observe: Please see Applications Guide on page 129 - 133.

Abrasive mop disc

Abrasive mop disc

SMT 925 SPECIAL



NEW

Quality SPECIAL

Aggression ■■■■■■

Service life ■■■■■■□

Applications:

Stainless steel ●

Steel ●

Properties

Backing plate Plastic, glass-fibre reinforced

Design Convex 12°, flat

Grain Zirconia alumina

Advantages: Significantly higher abrasive performance and service life - Optimal removal rate when used on high-power angle grinders under increased grinding pressure - High removal rate and long service life

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Diameter x Bore	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	321714
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	321715
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	321716
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	321670
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	321674
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	321677
5 x 7/8		40	80 m/s	12,200 rpm	10	321719
5 x 7/8		60	80 m/s	12,200 rpm	10	321720
5 x 7/8		80	80 m/s	12,200 rpm	10	321721
5 x 7/8		40	80 m/s	12,200 rpm	10	321671
5 x 7/8		60	80 m/s	12,200 rpm	10	321675
5 x 7/8		80	80 m/s	12,200 rpm	10	321678

Abrasive mop disc



Abrasive mop disc

SMT 640 SPECIAL



Quality SPECIAL



Applications:

- Stainless steel ●
- Steel ●

Properties

Design	Flat
Grain	Zirconia alumina
Backing plate	Plastic, glass-fibre reinforced

Advantages: Perfectly suited for surface grinding of stainless steel and metal in general - Easy and quick mounting with internal thread 5/8-11"

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
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Diameter x Bore	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 5/8-11	40	80 m/s	13,300 rpm	10	207207
4-1/2 x 5/8-11	60	80 m/s	13,300 rpm	10	207208
4-1/2 x 5/8-11	80	80 m/s	13,300 rpm	10	207209

Abrasive mop disc, multibond

SMT 636 SUPRA



Quality SUPRA

Aggression	■ ■ ■ ■ ■ ■ ■ □
Service life	■ ■ ■ ■ ■ □ □



Applications:

- Stainless steel ●

Properties

Backing plate	Glass fibre
Design	Convex 6°, flat
Grain	Zirconia alumina multibond

NEW

Advantages: Special product for use on stainless steel - Cool grinding due to multibond - Suitable for use on edges and surfaces - No glazing or clogging

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter x Bore	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	322826
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	322827
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	322828
5 x 7/8		40	80 m/s	12,200 rpm	10	322831
5 x 7/8		60	80 m/s	12,200 rpm	10	322832
5 x 7/8		80	80 m/s	12,200 rpm	10	322833

Please observe: Please see Applications Guide on page 129 - 133.

Abrasive mop disc

Abrasive mop disc

Abrasive mop disc

SMT 926 SPECIAL



NEW

Quality *SPECIAL*

Applications:

Properties

Aggression	■■■■■■■□
Service life	■■■■■■■

Stainless steel	●
Steel	●

Backing plate	Glass fibre
Design	Convex 6°
Grain	Zirconia alumina

Advantages: Maximum removal rate and service life - Especially suitable for rough work on steel and stainless steel - Optimal removal rate when used on high-power angle grinders under increased grinding pressure

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter x Bore in mm	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	321703
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	321706
5 x 7/8		40	80 m/s	12,200 rpm	10	321704
5 x 7/8		60	80 m/s	12,200 rpm	10	321707
5 x 7/8		80	80 m/s	12,200 rpm	10	321709

Abrasive mop disc

SMT 924 SPECIAL



NEW

Quality *SPECIAL*

Applications:

Properties

Aggression	■■■■■■■
Service life	■■■■■■■

Stainless steel	●
Steel	●

Backing plate	Glass fibre
Design	Convex 12°
Grain	Ceramic Aluminum oxide

Advantages: Highly aggressive abrasive performance for demanding work on edges - High edge stability - Optimal removal rate when used on high-power angle grinders under increased grinding pressure

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter x Bore	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	322862
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	322863
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	322864
5 x 7/8		40	80 m/s	12,200 rpm	10	322867
5 x 7/8		60	80 m/s	12,200 rpm	10	322868
5 x 7/8		80	80 m/s	12,200 rpm	10	322869

Please observe: Please see Applications Guide on page 129 - 133.

Abrasive mop disc



NEW

Abrasive mop disc, multibond

SMT 996 SPECIAL



Quality	SPECIAL
Aggression	■■■■■■■■■
Service life	■■■■■■■□

Applications:	Stainless steel ●
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Properties	
Backing plate	Glass fibre
Design	Convex 6°, flat
Grain	Ceramic Aluminum oxide multibond

Advantages: Aggressive abrasive performance with little expenditure of energy - High edge stability - Cool grinding due to multibond - Optimal removal rate when used on high-power angle grinders under increased grinding pressure

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter x Bore	Form	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		40	80 m/s	13,300 rpm	10	322849
4-1/2 x 7/8		60	80 m/s	13,300 rpm	10	322850
4-1/2 x 7/8		80	80 m/s	13,300 rpm	10	322851
5 x 7/8		40	80 m/s	12,200 rpm	10	322852
5 x 7/8		60	80 m/s	12,200 rpm	10	322853
5 x 7/8		80	80 m/s	12,200 rpm	10	322854

Abrasive mop disc

SMT 800 SPECIAL



Quality	SPECIAL
----------------	---------

Applications:	Stainless steel ●
	Steel ●



Properties	
Design	Convex 12°
Backing plate	Glass fibre

Advantages: High-quality non-woven mop disc for stainless steel finish work - Optimal results when used on variable-speed angle grinders - Three grades

Diameter x Bore	Grade	Colour	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8	coarse	brown	80 m/s	13,300 rpm	5	278495
4-1/2 x 7/8	medium	maroon	80 m/s	13,300 rpm	5	278496
4-1/2 x 7/8	very fine	blue	80 m/s	13,300 rpm	5	278497
5 x 7/8	coarse	brown	80 m/s	12,200 rpm	5	278498
5 x 7/8	medium	maroon	80 m/s	12,200 rpm	5	278499
5 x 7/8	very fine	blue	80 m/s	12,200 rpm	5	278500

Please observe: Please see Applications Guide on page 129 - 133.

Abrasive mop disc

Combi-Abrasive mop disc

SMT 850 plus SPECIAL



Quality *SPECIAL*



Applications:

Stainless steel ●

Properties

Design Convex 12°

Backing plate Glass fibre

Advantages: High-quality combi non-woven mop disc - Specially suited for machining of WIG weld seams on stainless steel components - Even finish throughout the entire service life - Stock removal and finishing in one step

Diameter x Bore in mm	Grit	Grade	Colour	Max. operating speed	Max. RPM	Recommended RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8	60	coarse	brown	80 m/s	13,300 rpm	7,000 rpm	5	312556
4-1/2 x 7/8	80	medium	maroon	80 m/s	13,300 rpm	7,000 rpm	5	312557
4-1/2 x 7/8	120	very fine	blue	80 m/s	13,300 rpm	7,000 rpm	5	312558
5 x 7/8	60	coarse	brown	80 m/s	12,200 rpm	6,400 rpm	5	312559
5 x 7/8	80	medium	maroon	80 m/s	12,200 rpm	6,400 rpm	5	312560
5 x 7/8	120	very fine	blue	80 m/s	12,200 rpm	6,400 rpm	5	312561

High performance non-woven web wheels

MFW 600



Applications:

- Steel ●
- Stainless steel ●
- NF metals ●

Properties

Bonding agent Resin
Grain SiC

Advantages: Special product for finishing stainless steel weld seams - 4 different grades for material removal up to high gloss

Diameter x Width x Bore in mm	Grade	Colour	Max. operating speed	Max. RPM	Recommended operating speed	Recommended RPM	Packing unit/pcs.	Article number
6 x 1/4 x 7/8	coarse	Red	47 m/s	6,000 rpm	22 m/s	2,800 rpm	5	311867
6 x 1/4 x 7/8	medium	Grey	47 m/s	6,000 rpm	22 m/s	2,800 rpm	5	311868
6 x 1/4 x 7/8	fine	Blue	47 m/s	6,000 rpm	22 m/s	2,800 rpm	5	311869
6 x 1/4 x 7/8	very fine	Green	37 m/s	4,700 rpm	22 m/s	2,800 rpm	5	311870

Abrasive mop disc



Abrasive mop disc

CMT 726 SUPRA



Quality	SUPRA
Aggression	■■■■■■■□
Service life	■■■■■■■□



Applications:	Properties
Stainless steel ●	Design Convex 6°
Steel ●	Grain Zirconia alumina
	Backing plate Plastic, glass-fibre reinforced

Advantages: Rapid action system for applications with high material consumption or frequent changes of grits - Perfectly suited for grinding of surfaces and edges on steel, stainless steel and high-alloy steels

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
5 x 0	40	80 m/s	12,200 rpm	10	252877
5 x 0	60	80 m/s	12,200 rpm	10	252878
5 x 0	80	80 m/s	12,200 rpm	10	252879
5 x 0	120	80 m/s	12,200 rpm	10	252880

Abrasive mop disc

CMT 728 SUPRA



Quality	SUPRA
Aggression	■■■■■■■□
Service life	■■■■■■■□



Applications:	Properties
Stainless steel ●	Design Flat
Steel ●	Grain Zirconia alumina
	Backing plate Plastic, glass-fibre reinforced

Advantages: Rapid action system for applications with high material consumption or frequent changes of grits - Perfectly suited for flat and surface grinding on steel, stainless steel and high-alloy steels

Available grits:

16	24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600	800	1000	1200	1500	2000
----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------

Diameter	Grit	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
5 x 0	40	80 m/s	12,200 rpm	10	252881
5 x 0	60	80 m/s	12,200 rpm	10	252882

Abrasive mop disc

Abrasive mop disc

CMT 800 SPECIAL



Quality *SPECIAL*



Applications:

- Stainless steel ●
- Steel ●

Properties

Design	Convex 6°
Backing plate	Plastic, glass-fibre reinforced

Advantages: High quality non-woven web abrasive mop disc for finishing work - Depending on the degree of hardness also suited for cleaning and light de-burring work and the processing of TIG-welded seams on stainless steel

Diameter	Grade	Max. operating speed	Max. RPM	Recommended RPM	Packing unit/pcs.	Article number
5 x 0	coarse	80 m/s	12,200 rpm	6,400 rpm	5	304077
5 x 0	medium	80 m/s	12,200 rpm	6,400 rpm	5	304078
5 x 0	very fine	80 m/s	12,200 rpm	6,400 rpm	5	304079

Mounting plate

CMT 555



Advantages: Mounting plate for abrasive mop disc CMT made of sturdy diecasting, more than a thousand times reusable if used properly - Adapter 5/8"

For diameter (CMT)	Max. operating speed	Max. RPM	Material	Packing unit/pcs.	Article number
5 x 5/8	80 m/s	12,200 rpm	Zinc die-casting	1	316523

Cleaning wheel / Non-woven web wheel



Cleaning wheel

NCD 200



Applications:

Metals	●
Paint/Varnish/Filler	●
Plastic	●
Stainless steel	○

Properties

Design	Flat
Bonding agent	Resin

Advantages: Special SiC non-woven web for cleaning of surfaces and removal of heat tinting/blueing - No clogging due to open structure

Diameter x Bore	Form	Grain	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 7/8		SiC	63 m/s	10,450 rpm	5	259043
5 x 7/8		SiC	63 m/s	9,600 rpm	5	259044



Kronenflex® cut-off wheels and grinding discs



About the product

As the inventor of the high speed cut-off wheel, it is only natural that we strive to continually develop and improve our Kronenflex® products.

Kronenflex® cut-off wheels and grinding discs feature an optimal combination of bonding agent and grain type for high aggressiveness, outstanding service life and consistently high quality. They comply with the highest safety standards, including the oSa regulations and the European safety standard EN 12413.

As a result of continuous innovations and the development of special products for diverse requirements, our Kronenflex® products offer the optimal solution for all standard materials and applications.

Typical materials for these products

- ▶ Steel
- ▶ Stainless steel
- ▶ Construction steel
- ▶ NF-metals
- ▶ Cast materials
- ▶ Pipes
- ▶ Flat irons
- ▶ Tins
- ▶ Solid materials
- ▶ Stone
- ▶ Plastics
- ▶ Mineral materials

Typical applications for these products

- ▶ Bodywork
- ▶ Maintenance and repair work
- ▶ Locksmiths
- ▶ Steelwork
- ▶ Plant construction
- ▶ Container construction
- ▶ Upkeep
- ▶ Metal works
- ▶ Vehicle construction
- ▶ Foundries
- ▶ Shipyards

Kronenflex® cut-off wheels and grinding discs

Applications guide

1. EAN-Code (EAN-13)
2. Safety pictograms
3. Max. operating speed
4. Klingspor Cat. No.
5. Specification of design, grade and bond according to EN 12413
6. Dimensions in mm and inches
7. Applications (see colour coding system)



8. Information about the manufacturer
9. Operating restrictions
10. Safety standard (oSa / EN 12413)
11. Max. RPM
12. Safety pictograms
13. Product group / type
14. Klingspor brand Kronenflex®

Quality classes

Kronenflex® cut-off wheels and grinding discs come in three performance classes with six colour codes for a quick overview of the most important material applications.



EXTRA

Products for universal application, offering a particularly appealing price-performance ratio.



SUPRA

Optimized products for different applications. Excellent service life and cutting performance.



SPECIAL

High performance products for special applications. Highest service life and cutting performance in the respective material application area.

Kronenflex® cut-off wheels and grinding discs

Applications guide



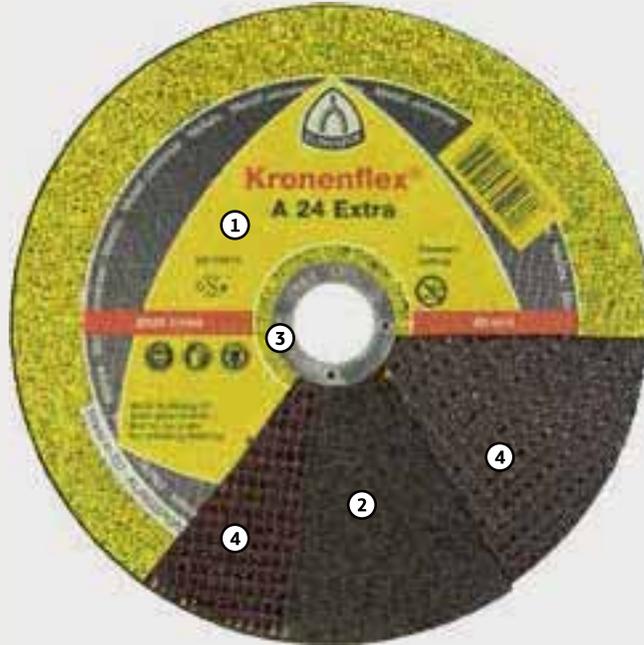
1. Label and cover sheet

The label includes all of the important information on the product, manufacturer and information on the proper use of the grinding tool

2. Mixture

The grit: Today all grit types are only produced synthetically. Only grits produced synthetically can ensure continuously high wear and cutting disc quality.

Resins and fillers: Additional, important components for cutting and grinding discs are resins, (in liquid and dry form), and fillers. These components are key in determining the disc properties, such as stability, stock removal rate, shear strength and can be adjusted to meet the needs of the specific application .



3. Metal ring

Provides information on the production period of the disc and protects the machine spindle.

4. Glass fibre

Glass fibre is a reinforcing layer to ensure stability and increases the safety of the cut-off wheel. The number and strength of the glass fibre layers is dependent upon disc type and application. The higher the potential lateral load on a cut-off disc (it is greater during free cutting than during stationary cutting), the greater the need for additional reinforcement (eg. more fibre glass layers). Grinding discs are constructed with at least 3 glass fibre layers.

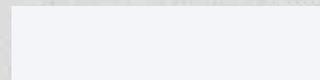
Klingspor cut-off wheel and grinding disc colour coding system



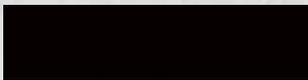
Metal universal:
Grey



Stainless steel:
Blue



Aluminum:
Silver



Steel:
Black



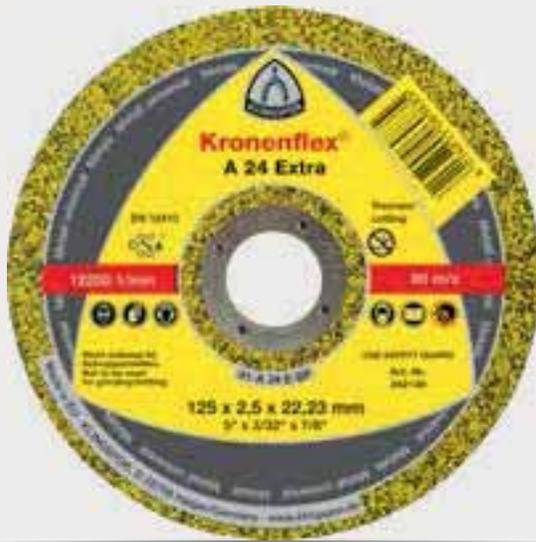
Castings:
Red



Stone/concrete:
Green

Kronenflex® cut-off wheels and grinding discs

Applications guide



Quarter	
V 01	January-March
V 04	April-June
V 07	July-September
V 10	October-December

Safety and storage

The shelf life of cut-off wheels and grinding discs is primarily determined by their moisture content. Cutting-off wheels and grinding discs that are subjected to increased humidity after they were manufactured lose their original service life. Proper storage ensures a consistent long service life. Cut-off wheels and grinding discs that are exposed to water or steam are a safety risk.

The user is obligated to operate the product properly. For legal reasons, this instruction applies to following the expiry date on the metal ring. Principally the following applies: cut-off wheels and grinding discs may not be used past the expiry date!

Working safely...

... by being careful and recognizing risks

Please avoid the risks listed below when working with cut-off wheels and grinding discs.

- ▶ contact with rotating abrasive discs
- ▶ abrasive disc breakage
- ▶ grinding dust and debris
- ▶ vibration
- ▶ noise

... through personal protective gear

Goggles, gloves, ear muffs and dust masks must be worn. When working on hard grinding applications additional protective gear is required, such as face protection, leather aprons and safety boots.

... with protective machine guards

Machine guards are supplied with the grinding machine and may not be changed or removed. When using cup grinding wheels the outer surface must be completely enclosed.

In addition, cup grinding wheels may only be used in combination with an adjustable wheel guard, to balance the wear on the disc and to keep the exposure of the disc at a minimum.

... through visual inspection and performance of checks prior to mounting

Ensure the disc RPM matches the machine RPM setting and avoid exceeding the maximum admissible operating speed.

Carefully check the cut-off wheel and grinding disc for damage. If the cut-off wheel or grinding disc is damaged, do not use the damaged product. Our cut-off wheels and grinding discs are marked with the corresponding safety pictograms.

... through proper use

Ensure that the respective disc is being used properly. Avoid damage to the mounting bore or to the disc from jerks, excessive force, or drops.

Ensure that the disc is properly and securely mounted and use the correct mounting flange.

Prior to starting work, the abrasive disc should run at operating speed for at least 30 seconds.

Please observe the FEPA safety regulations and the European Standard 12413.

The peripheral speed and grinding pressure are important parameters for achieving optimal cut-off and grinding disc results.

Kronenflex® cut-off wheels and grinding discs

Applications guide



The optimal speed

Too low

If the RPM of the machine is too low, the cut-off wheel and grinding disc tend to “jump”, and the disc edges wear down unevenly. Particularly with thin material cross sections, such as cutting tin or wire, this causes the grit to be separated from the bond and the disc wear is above average.

Optimal

Klingspor cut-off wheels and grinding discs are high performance products and were developed such that best disc performance (measured according to the stock removal volume to disc wear ratio) is achieved in the range right below the maximum peripheral speed. Keep the machine running at a consistently high RPM and, if needed, select a more powerful machine.

Too high

The maximum RPM and peripheral speed is printed on the label of each disc. For your own safety, please be sure not to exceed the recommended speeds when grinding.

The proper grinding pressure

An important requirement for a satisfactory cutting result is the correct amount of grinding pressure.

A common mistake is to reduce the grinding pressure to preserve the disc and extend the cutting life of the wheel. If this is done, the material overheats (turns blue); the cut-off wheel becomes clogged and “burns up”.

This is why the grinding pressure should always be set such that the cutting time is as short as possible. This is particularly true for heat sensitive material with large material cross-sections.

The proper hardness

...for cut-off wheels

Generally, the rule of thumb when selecting the correct cut-off wheel is: the harder the material, the softer the abrasive bond. The reason: the service life of a cut-off wheel is dependent on whether the cutting surface of the workpieces hardens or not. Overheating results in the disc “glazing” and the cutting properties are negatively affected. In this case, the hardness of the bond should be decreased and a softer cut-off wheel should be used.

...for grinding discs

The rule of thumb also applies to grinding discs: the harder the material, the softer the grinding disc bond.

In addition, the application plays a decisive role.

Corner grinding and the grinding of burrs and sharp edges can cause grit to be removed from the bond. We suggest the selection of a hard bond.

On the other hand, when working on surfaces or small weld seams a disc that is too hard would become dull and would no longer be effective. It would have a good service life, but would also have a low stock removal rate and high work costs.

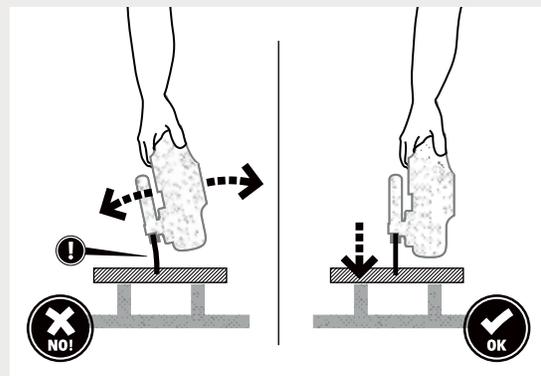
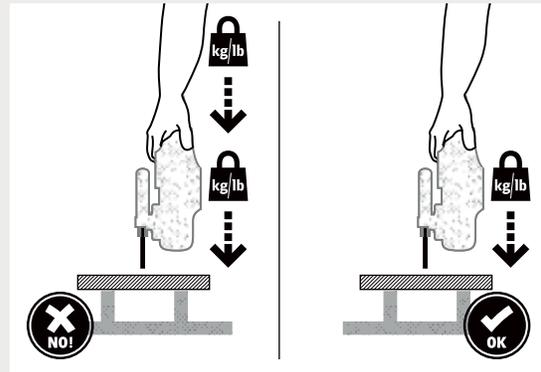
A medium or soft disc bond would be best for finish grinding.

Kronenflex® cut-off wheels and grinding discs

Applications guide

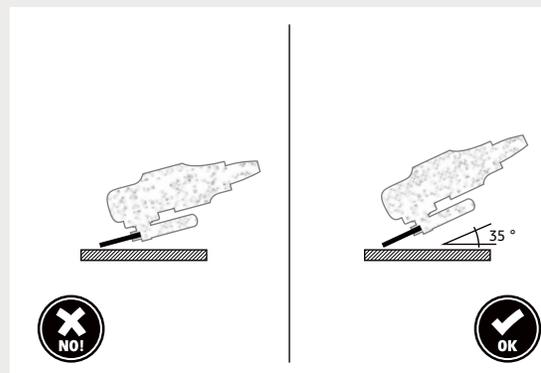
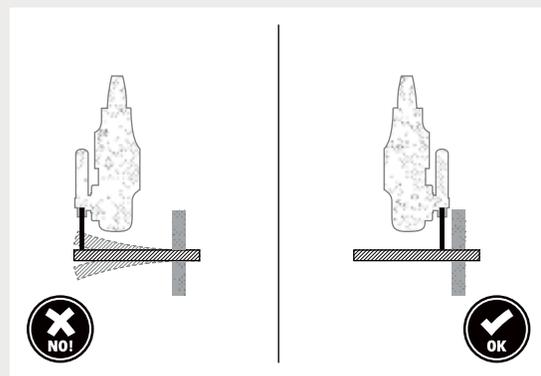
Correct application/techniques for cutting-off

Pressure may only be placed on the cut-off wheel from a radial direction. This is the only way to avoid wobbling, buckling and disc breakage, especially when applying a high level of cutting pressure. The workpiece that is to be cut-off should be properly affixed to the workbench to ensure that the disc does not slide off to the side. In addition, we recommend that the material is affixed as close to the cutting site as possible to ensure that it does not vibrate, flutter or slip to the side.



Correct application/techniques for grinding

Grinding discs work best at 35 degree angle to the workpiece. This angle provides the best stock removal to disc wear ratio. If possible, always select this angle. When grinding and the angle is below 15° a very thin edge which levels off is formed around the circumference of the disc. Even minimal changes to the angle can result in a situation in which the grinding pressure can no longer be absorbed resulting in the grinding disc slipping to the side. Valuable grit is not used and an imbalance is created that results in having to replace the disc prematurely.



Kronenflex® cut-off wheels and grinding discs

Applications guide



The correct mount...

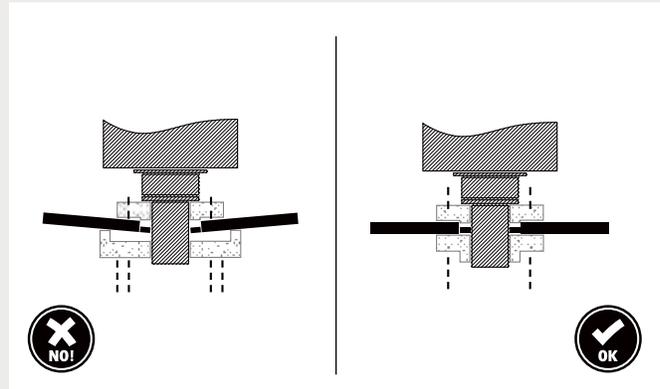
... for better power transmission

Cutting-off wheels and grinding discs are mounted to the machine with side flanges. The flange elements are responsible for transferring power to the disc. For reasons of safety it is extremely important that defective or incorrect flanges are not used.

... and for more safety

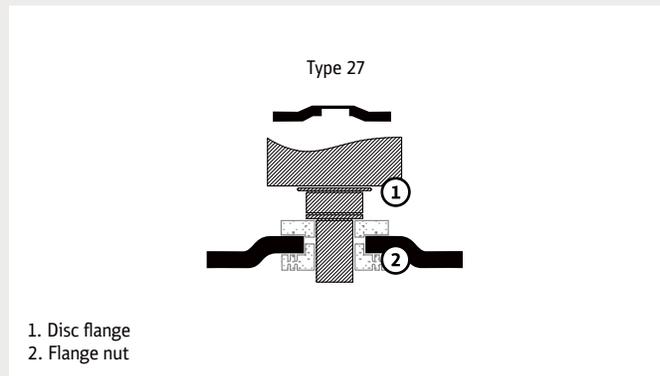
The use of wheel flange FL 76 provides increased lateral stability and user control, specifically when using thin cut-off wheels with a flat form and diameter of 180 mm and 230 mm.

The applicable regulations and standards must be complied with when using the wheel flange. The contact surface and diameter of the wheel flange must match. Using wheel flanges with diameters that do not match is prohibited.



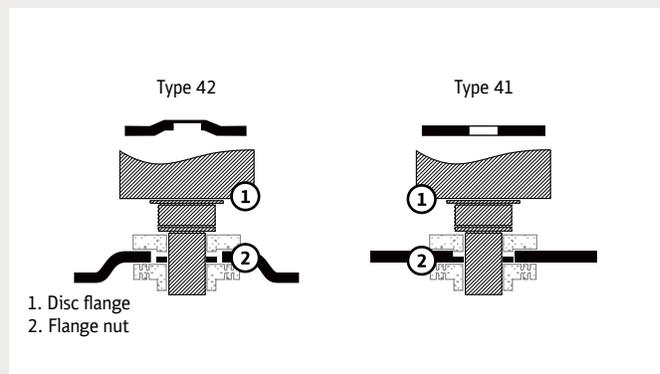
Depressed centre grinding disc

4 - 10 mm thickness



Flat and depressed centre cut-off wheels

0.8 - 4 mm thickness



Kronenflex® cut-off wheels and grinding discs

Applications guide

Recognize and avoid errors

Issue	Possible cause	Solution
Cutting surface is blue	Cutting time is too long	Increase feed speed or grinding pressure
	Drive power is too low	Use a more powerful machine
	Disc is too hard	Select a softer bond
	Material cross section is too great for the disc diameter	Work with a saw cut / work with a smaller material diameter
Disc wear is too high	Cutting disc is too wide for the material/application	Use a thinner cutting disc
	White cutting surface: disc hardness is too low	Select a harder bond
	Peripheral speed is too low	Increase peripheral speed
Crooked cut	RPM decrease is too great	Reduce grinding pressure or use a more powerful machine
	Workpiece is not mounted properly	Mount the material closer to the cutting site
	Grinding pressure is too great	Reduce grinding pressure
	Disc width is too thin for the material/application	Increase disc width
Disc breakage	Disc is completely worn down	Replace disc
	Machine is operated incorrectly	Avoid lateral pressure on the disc
	Incorrect wheel flange diameter	Use wheel flange with identical diameters
	Cutting-off wheel is used for grinding	Cutting-off wheels may not be used for grinding!
Disc periphery is frayed	Material is not properly affixed	Mount the material closer to the cutting site
	Disc periphery is burned	Select a softer bond, decrease grinding pressure
Disc jumps	Material is not properly affixed	Mount the material closer to the cutting site
	Wheel flange is dirty or worn out	Clean wheel flange or replace wheel flange
	Bearing is defective	Replace machine or replace bearing
Bore hole is broken	Bore dimension and mount do not match	Use proper bore dimension or use a reducer ring
	Wheel flanges are of different sizes	Use wheel flanges that have the same diameters
	Machine is operated incorrectly	Reduce lateral pressure on the disc
	Cutting-off wheel is used for grinding	Cutting-off wheels may not be used for grinding!

Kronenflex® cut-off wheels and grinding discs

Applications guide



Recognize and avoid errors

Issue	Possible cause	Solution
Removal rate is too low	Shiny contact surface: bond is too hard	Select a softer bond
	Grinding pressure is too low	Increase grinding pressure
	Machine performance is too low	Use a more powerful machine
Disc is loaded/clogged	Bond is too hard	Select a softer bond
	Loading/clogging with NF-metals	Use softer bond or select a special cut-off wheel for NF-metals
	Grinding pressure is too low	Increase grinding pressure
Wear is too high	Grinding pressure is too high	Reduce grinding pressure
	Bond is too soft	Select a harder bond
	Machine RPM decreases too quickly	Reduce grinding pressure
	Machine performance is too low	Use a more powerful machine
Periphery is not rounded / breakage on the edge	Disc angle is too flat	Increase disc angle (at least 25°)
	Grinding pressure is too high	Reduce grinding pressure
Disc wobbles	The mount is not centered	Check bore diameter and mounting diameter and adjust accordingly
	Mounting shaft is worn	Replace machine
	Mounting flange is worn, dirty or incorrect	Replace / clean mounting flange / check dimensions
	Disc wobbles	Use a new disc

Grinding discs

Cut-off wheels

The safe use of Klingspor abrasives

Klingspor cut-off wheels and grinding discs are manufactured in accordance with the oSa and EN12413 standards, this ensures the highest level of user safety.



Wear safety goggles or glasses to protect the eyes



Wear safety gloves to protect hands



Wear dust mask



Observe safety instructions



Use ear muffs



Do not use for wet grinding

Kronenflex® large cut-off wheels

Applications guide

About the product

Klingspor Kronenflex large cut-off wheels are high performance, robust wheels for special uses with an outer diameter of 300 mm and more.

Its high lateral stability ensures safe operation also in connection with hard cutting applications. The optimized grits and resins are specifically created for the specific application areas. The cut-off wheels are known for their fast cuts and low thermal material loads, as well as their long service life.

Klingspor Kronenflex large cut-off wheels range from bench cutting to handheld machines, from railway construction to industrial uses on stationary machines. This product is the ideal solution if outstanding performance and a high degree of safety is what is needed.

Cutting-off wheels for different types of machines:

- ▶ Handheld machines 80m/s
- ▶ Handheld machines with a clamping device for vignonole rails 100m/s
- ▶ Transportable bench chop saws < 3KW
- ▶ Stationary saws / cutters up to 5KW
- ▶ Stationary saws / cutters > 5KW

ATTENTION! Stationary cut-off wheels may not be used with freehand machines!

Products for handheld machines

These products were developed for use with handheld machines (petrol, electric, high-frequency).

Please note that it is very important that the maximum operating speed setting on the machines and the maximum operating speed setting on the products match. 80 m/s and 100 m/s machines are available on the market. Klingspor large cut-off wheels for handheld machines are certified for 80 m/s hand held machines.

Products for railway construction with a clamping device are certified up to 100 m/s.

Products for transportable bench chop saws

Cutting-wheels for this product group are suitable for low-power bench chop saws. These products may not be used with large stationary and / or handheld machines.

They are known for their high cutting rate, which ensures fast and cool cutting.

Products for stationary saws / cutters

Stationary machines are best suited for economical and safe cutting of large cross-sections and heavy workpieces.

Products in this segment with their outstanding performance and long service life fulfil the most demanding requirements of stationary cutting. Good aggressiveness ensures low thermal loads when working on large cross sections.

Kronenflex® large cut-off wheels

Applications guide



Which cut-off wheel is used with which machine?

Large cut-off wheels for stationary machines and large cut-off wheels for handheld machines are designed differently and their build is optimised for the respective machine type. For safety reasons large cut-off wheels for stationary machines may never be used with hand held machines.

The bore diameter of a large cut-off wheel does not indicate if it is a wheel that can be used with a stationary machine or if it is a wheel that can be used with a hand held machine.

A binding overview regarding which Klingspor wheel type is to be used with which machine type is provided in the table below.

Type	ø [mm]	Bore ø [mm]	Machines	Safety	
				Max. operating speed	Application type (EN12413)
A 24 EXTRA	300	20/22,23	general handheld machines (petrol, electric, high frequency))	80 m/s	freehand grinding
C 24 EXTRA	300	20/22,23		80 m/s	
A 24 R SUPRA	250	32	stationary saws / cutters	100 m/s	>3 KW
	300	22,23/25,4/30/32		100 m/s	>3 KW
	350	25,4/32		100 m/s	stationary guided grinding >3 KW
	400	25,4/32/40		100 m/s	>3 KW
A 24 N SUPRA	350	25,4		100 m/s	>3 KW
A 24 R/06 SUPRA	400	25,4		100 m/s	>5 KW
A 24 R SPECIAL	300	20/22, 23/25,4	general handheld machines (petrol, electric, high frequency))	80 m/s	freehand grinding
	350	20/22, 23/25,4		80 m/s	
T 24 AX SPECIAL	300	22,23	general handheld machines (petrol, electric, high frequency, hydraulic) with a clamping device	100 m/s	stationary guided grinding
	350	22,23/25,4		100 m/s	
	400	25,4		100 m/s	
C 24 RA SPECIAL	300	20	general handheld machines, joint cutters (petrol, electric, high frequency))	80 m/s	freehand grinding
	350	20/25,4		80 m/s	
A 30 N SPECIAL	300	25,4	transportable bench chop saws, chop saws	80 m/s	<3 KW
	350	25,4		80 m/s	stationary guided grinding <3 KW
	400	25,4		80 m/s	<3 KW
C 24 RT SPECIAL	300	20	general handheld machines (petrol, electric, high frequency))	80 m/s	freehand grinding
C 24 RT/34 SPECIAL	300	20		80 m/s	

Kronenflex® cut-off wheels

About the product

Kronenflex® cut-off wheels are characterized by their wide range of applications which includes processing steel, stainless steel, all main NF metals, all types of casting, natural and artificial stones and asphalt. Wheels designed specifically for the respective applications are the guarantee of a high cutting performance.

Material applications																				
Type	Steel	Hardened Steels	Tool steel	Stainless steel	High-alloy steels	Corrosion and acid proof steels	Aluminum	Bronze	Cooper	Brass	Zinc die-casting	Cast iron	Stone / concrete	Asphalt	Off-hand cutting using portable angle grinders	Stat. cutting using floor or bench chop saws	Off-hand cutting using gas driven saw/cutter 80m/s	Off-hand cutting using gas driven saw/cutter 100m/s	Stationary cutting < 5KW	Page
<i>EDGE SPECIAL</i>	○	○	●	●	●	●									●					159
<i>A 24 EXTRA</i>	●	○	●	○	○	○	○	○	○	○	○	○			●					160
<i>A 24 R SUPRA</i>	●	●	●	○	○	○					○	○			●					161
<i>A 24 N SUPRA INOX</i>	○	●	○	●	●	●	○	○	○	○					●					161
<i>A 46 N SUPRA</i>							●	●	●	●	○				●					162
<i>A 60 N SUPRA</i>	○	○	○	○	○	○	●	●	●	●	○	○			●					162
<i>A 24 R/36 SPECIAL INOX</i>	○	○	●	●	●	●									●					163
<i>A 36 TZ SPECIAL INOX</i>	○	○	●	●	●	●						○			●					163
<i>A 46 TZ SPECIAL INOX</i>	●	●	●	●	●	●	○	○	○	○	●				●					164
<i>A 46 VZ SPECIAL INOX</i>	○	○	●	●	●	●					○				●					164
<i>A 60 TZ SPECIAL INOX</i>	●	●	●	●	●	●	○	○	○	○	●	○			●					165
<i>A 960 TZ SPECIAL</i>	●	●	●	●	●	●	●	●	●	●	●	●			●					165
<i>A 980 TZ SPECIAL</i>	●	●	●	●	●	●	●	●	●	●	●	●			●					166
<i>Z 960 TX SPECIAL</i>	●	●	●	●	●	●	○	○	○	○	●	○			●					166
<i>A 60 S SUPRA</i>	●	●	●	○	○	○					○	○			●					167
<i>A 24 EXTRA</i>	●	○	●	○	○	○						○					●			168
<i>C 24 EXTRA</i>												○	●	○			●			168
<i>A 24 R SPECIAL</i>	●	●	●	●	●	●						○					●			169
<i>C 24 RA SUPRA</i>													○	●			●			169
<i>T 24 AX SPECIAL</i>	●	●																●		170
<i>A 24 R SUPRA</i>	●	●	●	○	○	○						○							●	170
<i>A 30 N Fast Cut SPECIAL</i>	●	○	○	○	○	○	○	○	○	○	○	○				●				171
<i>A 30 N SPECIAL</i>	●	○	○	○	○	○	○	○	○	○	○	○				●				171

● = main application ○ = possible applications

Kronenflex® cut-off wheels
for hand held machines



Designed by you – made by Klingspor

The **EDGE**

2 in 1

.045

Industry tested and approved.
Exceeding your expectations!



Delivered in the
Kronenflex® box

You asked for a wheel that features:

- ▶ Free Cutting – “less force on the grinder”
- ▶ Smooth Cutting – “smooth and clean cut”
- ▶ Reduced Vibration – “less wobbling, less kick back”

The EDGE delivers without compromising on:

- ▶ Safety – Look for the symbol of safety:
- ▶ Performance
- ▶ Productivity



www.edge.klingspor.ca

Cut-off wheel INOX

EDGE
SPECIAL



Quality	SPECIAL
Bond	■■■■■■■■■
Aggression	■■■■■■■■□
Service life	■■■■■■■■■

Applications:	
Stainless steel	●
Steel	●

Advantages: Short cutting times and long service life - Low thermal load - Low burr formation

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x .045 x 7/8		80 m/s	13,300 rpm	25	317818
4-1/2 x .045 x 7/8		80 m/s	13,300 rpm	25	317819
5 x .045 x 7/8		80 m/s	12,200 rpm	25	317820
5 x .045 x 7/8		80 m/s	12,200 rpm	25	317821

Please observe: Please see Applications Guide on page 147 - 155, 158.

Kronenflex® cut-off wheels

for hand held machines

Cut-off wheel

A 24

EXTRA



Quality	EXTRA	Applications:
Bond	■ ■ ■ ■ □ □ □ □	Metals ●
Aggression	■ ■ ■ ■ □ □ □ □	
Service life	■ ■ ■ ■ □ □ □ □	

Advantages: Proven a million times over - Standard wheel with outstanding price-performance ratio - For universal use in metalworking - Fast cutting of solid material

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 3/32 x 7/8		80 m/s	13,300 rpm	25	188461
4-1/2 x 1/8 x 7/8		80 m/s	13,300 rpm	25	209014
5 x 3/32 x 7/8		80 m/s	12,200 rpm	25	188463
5 x 1/8 x 7/8		80 m/s	12,200 rpm	25	209016
6 x 3/32 x 7/8		80 m/s	10,200 rpm	25	235374
9 x 1/8 x 7/8		80 m/s	6,600 rpm	25	13492

Kronenflex® cut-off wheels

for hand held machines



Cut-off wheel

A 24 R SUPRA



Quality	SUPRA	Applications:
Bond	■ ■ ■ ■ ■ □ □	Steel ●
Aggression	■ ■ ■ ■ □ □ □	Stainless steel ○
Service life	■ ■ ■ ■ □ □	Castings ○

Advantages: Optimized combination for use on steel - Can be used on stainless steel - Good cutting properties

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4 x 3/32 x 5/8		80 m/s	15,300 rpm	25	13754
4-1/2 x 3/32 x 7/8		80 m/s	13,300 rpm	25	13466
5 x 3/32 x 7/8		80 m/s	12,200 rpm	25	13738
7 x 1/8 x 7/8		80 m/s	8,500 rpm	25	13470
7 x 9/64 x 7/8		80 m/s	8,500 rpm	25	13474

Cut-off wheel INOX

A 24 N SUPRA



Quality	SUPRA	Applications:
Bond	■ ■ ■ □ □ □ □	Stainless steel ●
Aggression	■ ■ ■ ■ □ □ □	Aluminum ○
Service life	■ ■ ■ ■ □ □	

Advantages: Special recipe prevents smearing and clogging - High removal rate on stainless steel due to hardened aluminum oxide

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 3/32 x 7/8		80 m/s	13,300 rpm	25	3020
5 x 3/32 x 7/8		80 m/s	12,200 rpm	25	2951
6 x 3/32 x 7/8		80 m/s	10,200 rpm	25	235377

Kronenflex® cut-off wheels

for hand held machines

Cut-off wheel

A 46 N SUPRA



Quality	SUPRA
Bond	■ ■ ■ □ □ □ □ □
Aggression	■ ■ ■ ■ ■ □ □
Service life	■ ■ ■ ■ ■ □ □

Applications:
Aluminum ●

Advantages: Special combination prevents smearing and clogging - Optimized cutting performance on non-ferrous metals

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 3/32 x 7/8		80 m/s	13,300 rpm	25	170707
5 x 3/32 x 7/8		80 m/s	12,200 rpm	25	170708

Cut-off wheel

A 60 N SUPRA



Quality	SUPRA
Bond	■ ■ ■ □ □ □ □ □
Aggression	■ ■ ■ ■ ■ □ □
Service life	■ ■ ■ ■ ■ □ □

Applications:
Aluminum ●
Steel ○

Advantages: Special combination prevents smearing and clogging - Minimal burr formation

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 3/64 x 7/8		80 m/s	13,300 rpm	25	264297
5 x 3/64 x 7/8		80 m/s	12,200 rpm	25	264298

Kronenflex® cut-off wheels

for hand held machines



Cut-off wheel INOX

A 24 R/36 SPECIAL



Quality	SPECIAL
Bond	■ ■ ■ ■ □ □ □ □
Aggression	■ ■ ■ ■ ■ □ □ □
Service life	■ ■ ■ ■ ■ □ □ □

Applications:	
Stainless steel	●

Advantages: Special wheel for the nuclear industry - Free of iron, sulfur and chlorine

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
5 x 3/32 x 7/8		80 m/s	12,200 rpm	25	2825
7 x 1/8 x 7/8		80 m/s	8,500 rpm	25	60537

Cutting-off wheel INOX

A 36 TZ SPECIAL



Quality	SPECIAL
Bond	■ ■ ■ ■ ■ □ □ □
Aggression	■ ■ ■ ■ ■ ■ ■ □
Service life	■ ■ ■ ■ ■ □ □ □

Applications:	
Stainless steel	●
Steel	○

Advantages: Very good cutting performance, even with low grinding pressure

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 5/64 x 7/8		80 m/s	13,300 rpm	25	136549
7 x 5/64 x 7/8		80 m/s	8,500 rpm	25	136551

Kronenflex® cut-off wheels

for hand held machines

Cut-off wheel INOX

A 46 TZ SPECIAL



Quality *SPECIAL*

Bond	■ ■ ■ ■ ■ ■ ■ □
Aggression	■ ■ ■ ■ ■ ■ □ □
Service life	■ ■ ■ ■ ■ ■ ■ ■

Applications:

Stainless steel	●
Steel	○

Advantages: Minimal burr formation - High-performance cutting wheel with long service life

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4 x 1/16 x 5/8		80 m/s	15,300 rpm	25	194071
4-1/2 x 1/16 x 7/8		80 m/s	13,300 rpm	25	187170
4-1/2 x 1/16 x 7/8		80 m/s	13,300 rpm	25	235378
5 x 1/16 x 7/8		80 m/s	12,200 rpm	25	187171
5 x 1/16 x 7/8		80 m/s	12,200 rpm	25	235379
6 x 1/16 x 7/8		80 m/s	10,200 rpm	25	241472
6 x 1/16 x 7/8		80 m/s	10,200 rpm	25	263882
7 x 1/16 x 7/8		80 m/s	8,500 rpm	25	221161
7 x 1/16 x 7/8		80 m/s	8,500 rpm	25	312257
9 x 5/64 x 7/8		80 m/s	6,600 rpm	25	224084

Thin cut-off wheel & grinding disc

A 46 VZ SPECIAL



Quality *SPECIAL*

Bond	■ ■ ■ ■ ■ ■ ■ □
Aggression	■ ■ ■ ■ ■ ■ □ □
Service life	■ ■ ■ ■ ■ ■ ■ ■

Applications:

Stainless steel	●
NF metals	●
Steel	○

Advantages: Long service life - Multi-purpose: cutting and light rough grinding with one wheel - High aggressiveness in cutting - No change of wheel necessary

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 5/64 x 7/8		80 m/s	13,300 rpm	25	298176
5 x 5/64 x 7/8		80 m/s	12,200 rpm	25	298177

Kronenflex® cut-off wheels

for hand held machines



Cut-off wheel

A 60 TZ SPECIAL



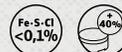
Quality	SPECIAL	Applications:
Bond	■■■■■■■□	Stainless steel ●
Aggression	■■■■■■■□	NF metals ●
Service life	■■■■■■■□	Steel ○

Advantages: Free of iron, sulfur and chlorine - Short cutting times - Minimal burr formation - Low thermal load

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 3/64 x 7/8		80 m/s	13,300 rpm	25	202400
4-1/2 x 3/64 x 7/8		80 m/s	13,300 rpm	25	233741
5 x 3/64 x 7/8		80 m/s	12,200 rpm	25	202401
5 x 3/64 x 7/8		80 m/s	12,200 rpm	25	233742

Cut-off wheel INOX

A 960 TZ SPECIAL



NEW

Quality	SPECIAL	Applications:
Bond	■■■■■■■	Stainless steel ●
Aggression	■■■■■■■□	Steel ●
Service life	■■■■■■■	

Advantages: Free of iron, sulfur and chlorine - Short cutting times and long service life - Low thermal load - Low burr formation - Optimized bonding for considerably longer service life - For diverse applications - 25 pieces delivered in the Kronenflex® box for long-lasting high performance and moisture protection

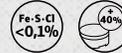
Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 3/64 x 7/8		80 m/s	13,300 rpm	25	322180
4-1/2 x 3/64 x 7/8		80 m/s	13,300 rpm	25	325290
5 x 3/64 x 7/8		80 m/s	12,200 rpm	25	322181
5 x 3/64 x 7/8		80 m/s	12,200 rpm	25	325291

Kronenflex® cut-off wheels

for hand held machines

Cut-off wheel INOX

A 980 TZ SPECIAL



NEW

Quality *SPECIAL*

Applications:

Bond	■■■■■■■□	Stainless steel	●
Aggression	■■■■■■■□	Steel	●
Service life	■■■■■■■□	NF metals	●

Advantages: Free of iron, sulfur and chlorine - Very short cutting times - Very precise and clean cuts - Low thermal load - Minimal burr formation, minimizing finish-machining - 25 pieces delivered in the Kronenflex® box for long-lasting high performance and moisture protection

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 1/32 x 7/8		80 m/s	13,300 rpm	25	322182
5 x 1/32 x 7/8		80 m/s	12,200 rpm	25	322183

Cut-off wheel INOX

Z 960 TX SPECIAL



NEW

Quality *SPECIAL*

Applications:

Bond	■■■■■■■	Stainless steel	●
Aggression	■■■■■■■	Alloys	●
Service life	■■■■■■■	Carbon steel	●
		Titanium	●

Advantages: Free of iron, sulfur and chlorine - Ideal for tough/hard materials such as titanium and high-alloy steels - Short cutting times and long service life due to self-sharpening zirconia alumina - Low thermal load - Low burr formation - 25 pieces delivered in the Kronenflex® box for long-lasting high performance and moisture protection

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 3/64 x 7/8		80 m/s	13,300 rpm	25	322184
4-1/2 x 3/64 x 7/8		80 m/s	13,300 rpm	25	325292
5 x 3/64 x 7/8		80 m/s	12,200 rpm	25	322185
5 x 3/64 x 7/8		80 m/s	12,200 rpm	25	325293

Kronenflex® cut-off wheels

for hand held machines



Small cut-off wheel

A 60 S Supra SUPRA



Quality	SUPRA	Applications:
Bond	■ ■ ■ ■ □ □ □ □	Steel ●
Aggression	■ ■ ■ ■ □ □ □ □	Stainless steel ○
Service life	■ ■ ■ ■ □ □ □ □	Castings ○

Advantages: For universal use in hard-to-reach areas

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
2 x 1/16 x 3/8		80 m/s	38,195 rpm	50	314878
3 x 1/16 x 3/8		80 m/s	25,465 rpm	50	303581
3 x 1/32 x 1/4		80 m/s	25,465 rpm	100	303582
3 x 1/32 x 3/8		80 m/s	25,465 rpm	100	303583
4 x 1/32 x 3/8		80 m/s	19,100 rpm	100	303584

Mounting mandrels

SD 60 S



Advantages: Secure clamping of t small diameter cut-off wheels

Shaft	Max. wheel thick.	Wheel arbor	Thread diameter	Packing unit/pcs.	Article number
1/4	1/4	1/4 & 3/8	M-50P	1	303877

Kronenflex® large cut-off wheels

for for petrol driven saw / cutter

Cut-off wheel

A 24 EXTRA



Quality *EXTRA*

Bond	■ ■ ■ ■ □ □ □ □
Aggression	■ ■ ■ ■ □ □ □ □
Service life	■ ■ ■ ■ □ □ □ □

Applications:

Metals	●
--------	---

Advantages: Standard wheel with outstanding price-performance ratio - For universal use in metalworking - For use on gas-powered free-hand machines with a cutting speed of 80 m/s

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
12 x 9/64 x 20mm		80 m/s	5,100 rpm	10	288221

Cut-off wheel

C 24 EXTRA



Quality *EXTRA*

Bond	■ ■ ■ ■ □ □ □ □
Aggression	■ ■ ■ ■ □ □ □ □
Service life	■ ■ ■ ■ □ □ □ □

Applications:

Stone/Concrete	●
----------------	---

Advantages: Optimal for all mineral materials due to sharp, coarse SiC grit - For use on gas-powered free-hand machines with a cutting speed of 80 m/s

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
12 x 9/64 x 20mm		80 m/s	5,100 rpm	10	288223

Kronenflex® large cut-off wheels

for petrol driven saw / cutter



Cut-off wheel

A 24 R SPECIAL



Quality	SPECIAL	Applications:
Bond	■■■■■□□	Steel ●
Aggression	■■■■■□□	Stainless steel ○
Service life	■■■■■□□	Castings ○

Advantages: Fast cutting, also of solid material - Optimized combination for use on steel - Can be also used on stainless steel - For use on gas-powered free-hand machines with a cutting speed of 80 m/s

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
12 x 9/64 x 20mm		80 m/s	5,100 rpm	10	288245
14 x 5/32 x 20mm		80 m/s	4,400 rpm	10	288248
14 x 5/32 x 1		80 m/s	4,400 rpm	10	288250

Cut-off wheel

C 24 RA SPECIAL



Quality	SPECIAL	Applications:
Bond	■■■■■□□	Asphalt ●
Aggression	■■■■■□□	Stone/Concrete ○
Service life	■■■■■□□	

Advantages: Special combination for asphalt - No clogging - Sharp, coarse SiC grain - For use on gas-powered free-hand machines with a cutting speed of 80 m/s

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
14 x 5/32 x 20mm		80 m/s	4,400 rpm	10	288252

Cut-off wheels

Kronenflex® large cut-off wheels

for petrol driven saw / cutter with clamping device / for stationary cutting

Cut-off wheel

T 24 AX SPECIAL



Quality	SPECIAL	Applications:
Bond	■■■■■■■□	Steel ●
Aggression	■■■■■■■□	
Service life	■■■■■■■□	

Advantages: For universal use on all rail types - Very fast cutting - Maximum aggressiveness and service life due to hardened special aluminum oxide - For use on gas-powered cut-off machines with a cutting speed of 100 m/s and clamping device

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
14 x 5/32 x 1	— —	100 m/s	5,500 rpm	10	314014
16 x 5/32 x 1	— —	100 m/s	4,800 rpm	10	314035

Cut-off wheel

A 24 R SUPRA



Quality	SUPRA	Applications:
Bond	■■■■■■■□□	Steel ●
Aggression	■■■■■■□□□	Stainless steel ○
Service life	■■■■■■■□	Castings ○

Advantages: Optimized combination for use on steel - Can be used on stainless steel - Good cutting properties - Optimal for stationary 3 - 5 kW cutting-off machines

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
16 x 3/16 x 1	— —	100 m/s	4,800 rpm	10	292933

Kronenflex® large cut-off wheels for stationary cutting



Cut-off wheel

A 30 N Fast Cut SPECIAL



Quality	SPECIAL	Applications:
Bond	■ ■ ■ ■ □ □ □ □	Steel ●
Aggression	■ ■ ■ ■ ■ ■ ■ □	Stainless steel ○
Service life	■ ■ ■ ■ □ □ □ □	Aluminum ○
		Castings ○

Advantages: For universal use on bench cutting machines - Minimal burr formation

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
12 x 3/32 x 1		80 m/s	5,100 rpm	10	280176
14 x 1/8 x 1		80 m/s	4,400 rpm	10	280178

Cut-off wheel

A 30 N SPECIAL



Quality	SPECIAL	Applications:
Bond	■ ■ ■ ■ □ □ □ □	Steel ●
Aggression	■ ■ ■ ■ ■ ■ ■ □	Stainless steel ○
Service life	■ ■ ■ ■ □ □ □ □	Aluminum ○
		Castings ○

Advantages: For universal use on chop saws - Minimal burr formation - Can be used on table cutting-off machines < 3 kW

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
14 x 1/8 x 1		80 m/s	4,400 rpm	10	119628
16 x 9/64 x 1		80 m/s	3,800 rpm	10	119629

Kronenflex® grinding discs



About the product

Kronenflex® grinding discs are characterized by their permanent high level of attack and maximum stock removal. The optimum relationship between performance and service life is guaranteed up to the complete use of the disc.

Kronenflex® grinding discs are used in all major surface grinding applications, as well as for edge beveling and burr removal. Klingspor offers professional advice in selecting the right grinding disc for your application.

From general metalworking to material-related applications in steel, stainless steel and NF-metals, to the more specialized requirements of the nuclear industry, Klingspor has the products you need. Discs for stone grinding and cup grinding wheels round off our programme.

Our engineers are standing by to help you, should you have specific problems or technical questions. You may take advantage of our technical consulting services whether at Klingspor or directly on site.

Practical tips

The rule of thumb also applies to grinding discs: the harder the material, the softer the bond of the grinding disc.

In addition, the application plays a very decisive role.

Corners and burrs have very sharp edges and easily tear the grit out of the bond. We recommend the use of a hard bond.

If on the other hand one is working on surfaces i.e. small welded seams, a disc that is too hard would easily become dull and no longer grip the material. The disc would achieve a good service life, but this would result in a low stock removal rate and high work costs.

For finish grinding the best disc bond is a medium or soft disc bond.

Material applications

Type	Steel	Hardened steels	Tool steel	Stainless steel	High alloy steels	Corrosion and acid proof steels	Aluminum	Bronze	Cooper	Brass	Zinc die-casting	Cast iron	Stone / concrete	Page
A 24 EXTRA	●	○	○	○	○	○					○	○		174
A 24 EXTRA T	●	○	○	○	○	○						○		174
A 24 R SUPRA	●	●	●	○	○	○						○		175
A 24 N SUPRA INOX	○	●	○	●	●	●								175
A 46 N SUPRA							●	○	○	○	○			176
A 24 R/01 SPECIAL	●	●	●	○	○	○								176
A 24 R/36 SPECIAL	○	○	○	●	●	●								177
A 24 TX SPECIAL	○	○	○	○	○	○						●		177
A 24 TZ SPECIAL	○	○	○	○	○	○						●		178
A 624 T SUPRA	●	●	●	●	○	○					○	●		178
A 30 M SPECIAL	●			●	○									179
TS 30 AP SPECIAL	●	●	●	●	●									179

● = main application ○ = possible applications

Kronenflex® grinding discs

for hand held machines

Grinding disc

A 24 EXTRA



Quality	EXTRA
Bond	■ ■ ■ ■ □ □ □ □
Aggression	■ ■ ■ ■ □ □ □ □
Service life	■ ■ ■ ■ □ □ □ □

Applications:
Metals ●

Advantages: Standard disc with excellent price-performance ratio - For universal use in metal-working - Excellent results on all standard angle grinders

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4 x 1/4 x 5/8		80 m/s	15,300 rpm	10	189004
4-1/2 x 1/4 x 7/8		80 m/s	13,300 rpm	10	188465
5 x 1/4 x 7/8		80 m/s	12,200 rpm	10	188466
6 x 1/4 x 7/8		80 m/s	10,200 rpm	10	235371
7 x 1/4 x 7/8		80 m/s	8,500 rpm	10	13444
9 x 1/4 x 7/8		80 m/s	6,600 rpm	10	13447

Grinding disc

A 24 EXTRA T



Quality	EXTRA
Bond	■ ■ ■ ■ ■ □ □ □
Aggression	■ ■ ■ □ □ □ □ □
Service life	■ ■ ■ ■ ■ □ □ □

Applications:
Metals ●

Advantages: Extra hard grinding disc - Optimal for edge work and for removal of stubborn burrs

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
7 x 1/4 x 7/8		80 m/s	8,500 rpm	10	13794

Kronenflex® grinding discs for hand held machines



Grinding disc

A 24 R SUPRA



Quality	SUPRA	Applications:
Bond	■ ■ ■ ■ □ □ □ □	Steel ●
Aggression	■ ■ ■ ■ □ □ □ □	Stainless steel ○
Service life	■ ■ ■ ■ □ □ □ □	Castings ○

Advantages: With optimized recipe for use on steel - Also suitable for use on stainless steel - Large product range

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 1/4 x 7/8		80 m/s	13,300 rpm	10	13401
5 x 1/4 x 7/8		80 m/s	12,200 rpm	10	13402
6 x 1/4 x 7/8		80 m/s	10,200 rpm	10	13403
7 x 1/4 x 7/8		80 m/s	8,500 rpm	10	13413
9 x 1/4 x 7/8		80 m/s	6,600 rpm	10	13433

Grinding disc INOX

A 24 N SUPRA



Quality	SUPRA	Applications:
Bond	■ ■ ■ □ □ □ □ □	Stainless steel ●
Aggression	■ ■ ■ ■ □ □ □ □	Aluminum ○
Service life	■ ■ ■ ■ □ □ □ □	

Advantages: High removal rate on stainless steel - Optimal ratio between removal and wear

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 1/4 x 7/8		80 m/s	13,300 rpm	10	2923
5 x 1/4 x 7/8		80 m/s	12,200 rpm	10	2922
7 x 1/4 x 7/8		80 m/s	8,500 rpm	10	13412

Kronenflex® grinding discs

for hand held machines

Grinding disc

A 46 N SUPRA



Quality	SUPRA
Bond	■ ■ ■ ■ □ □ □ □
Aggression	■ ■ ■ ■ ■ ■ □ □
Service life	■ ■ ■ ■ □ □ □ □

Applications:	
Aluminum	●

Advantages: No clogging when used on non-ferrous metals - Optimal ratio between removal and wear

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 1/4 x 7/8		80 m/s	13,300 rpm	10	6622
5 x 1/4 x 7/8		80 m/s	12,200 rpm	10	2226
7 x 1/4 x 7/8		80 m/s	8,500 rpm	10	13410

Grinding disc

A 24 R/01 SPECIAL



Quality	SPECIAL
Bond	■ ■ ■ ■ □ □ □ □
Aggression	■ ■ ■ ■ ■ ■ □ □
Service life	■ ■ ■ □ □ □ □ □

Applications:	
Steel	●
Stainless steel	○

Advantages: Special disc for pipeline and tank construction - Suitable for root seams - For repair of weld seams

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
5 x 3/16 x 7/8		80 m/s	12,200 rpm	10	130825
6 x 3/16 x 7/8		80 m/s	10,200 rpm	10	235383
7 x 3/16 x 7/8		80 m/s	8,500 rpm	10	13756

Kronenflex® grinding discs for hand held machines



Grinding disc

A 24 R/36 SPECIAL



Quality	SPECIAL
Bond	■ ■ ■ ■ □ □ □ □
Aggression	■ ■ ■ ■ □ □ □ □
Service life	■ ■ ■ ■ □ □ □ □

Applications:	
Stainless steel	●

Advantages: Special wheel for the nuclear industry - Free of iron, sulfur and chlorine - Optimal ratio between removal and wear

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 1/4 x 7/8		80 m/s	13,300 rpm	10	2488
5 x 1/4 x 7/8		80 m/s	12,200 rpm	10	2830
7 x 1/4 x 7/8		80 m/s	8,500 rpm	10	2463

Grinding disc

A 24 TX SPECIAL



Quality	SPECIAL
Bond	■ ■ ■ ■ ■ ■ □ □
Aggression	■ ■ ■ □ □ □ □ □
Service life	■ ■ ■ ■ □ □ □ □

Applications:	
Castings	●
Stainless steel	○
Steel	○

Advantages: Ideal for use on cast parts - High aggressiveness and long service life due to hardened aluminum oxide

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
5 x 1/4 x 7/8		80 m/s	12,200 rpm	10	231251
7 x 1/4 x 7/8		80 m/s	8,500 rpm	10	231252

Kronenflex® grinding discs

for hand held machines

Grinding disc

A 24 TZ SPECIAL



Quality	SPECIAL	Applications:
Bond	■■■■■■■□	Castings ●
Aggression	■■■■■■□□	Stainless steel ○
Service life	■■■■■■■□	Steel ○

Advantages: High-performance grinding disc for casting and steel processing

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
7 x 1/4 x 7/8		80 m/s	8,500 rpm	10	164801
9 x 1/4 x 7/8		80 m/s	6,600 rpm	10	163501

Grinding disc

A 624 T SUPRA



NEW

Quality	SUPRA	Applications:
Bond	■■■■■■■□	Steel ●
Aggression	■■■■■■□□	Stainless steel ●
Service life	■■■■■■■□	Castings ●

Advantages: Special recipe for use on various materials - Optimal ratio between removal and wear

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 1/4 x 7/8		80 m/s	13,300 rpm	10	325215
5 x 1/4 x 7/8		80 m/s	12,200 rpm	10	325216
6 x 1/4 x 7/8		80 m/s	10,200 rpm	10	327077
7 x 1/4 x 7/8		80 m/s	8,500 rpm	10	325217
9 x 1/4 x 7/8		80 m/s	6,600 rpm	10	325218

Kronenflex® grinding discs for hand held machines



Grinding disc

A 30 M SPECIAL



Quality	SPECIAL	Applications:
Bond	■ ■ ■ ■ □ □ □ □	Steel ●
Aggression	■ ■ ■ ■ ■ □ □ □	Stainless steel ○
Service life	■ ■ ■ ■ □ □ □ □	

Advantages: 2 + 1 High performance grinding disc for working on stainless steel and steel processing

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 1/4 x 7/8		80 m/s	13,300 rpm	10	310899
5 x 1/4 x 7/8		80 m/s	12,200 rpm	10	310900
6 x 1/4 x 7/8		80 m/s	10,200 rpm	10	310901
7 x 1/4 x 7/8		80 m/s	8,500 rpm	10	310902

Cut-off wheel & grinding disc

TS 30 AP SPECIAL



Quality	SPECIAL	Applications:
Bond	■ ■ ■ ■ □ □ □ □	Stainless steel ●
Aggression	■ ■ ■ ■ ■ □ □ □	Steel ○
Service life	■ ■ ■ ■ □ □ □ □	

Advantages: Long service life - Multi-purpose: cutting and light rough grinding with one tool - High aggressiveness in cutting - No change of wheel necessary

Diameter x Width x Bore	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Article number
4-1/2 x 1/8 x 7/8		80 m/s	13,300 rpm	10	324378
5 x 1/8 x 7/8		80 m/s	12,200 rpm	10	314459
6 x 1/8 x 7/8		80 m/s	10,200 rpm	10	314460
7 x 1/8 x 7/8		80 m/s	8,500 rpm	10	324379



Flexible abrasives



About the product

The Sandflex Hand Block

...cleans, polishes and matt-finishes a large variety of materials including metal, wood, paints, plastics, rubber and paper. In addition to its commercial applications, the Sandflex Hand Block is also excellent for car care and jobs around the house like cleaning iron soleplates, ski edges etc. Sandflex performs even better when used with water, soap, paraffin oil or pastes. With four different grain sizes to choose from, you will find the right product for all types of materials and jobs.

Description	Type	Material applications											Page		
		Iron	Steel	Stainless steel	NF-metals	Wood	Paint / Varnish	Glass / Stone	Plastic	Leather	Paper	Ceramic		Porcelain	
Sand Flex	<i>SFK 655 block</i>	●	●	●	●	●	●	●	●	●	●	●	●	●	182

● = main application ○ = possible application

Flexible abrasives

Hand block

Hand block

SFK 655



Properties

Bonding agent	Plastic
Grain	SiC

Applications:

Paint/Varnish	●	Leather	●
Glass/Stone	●	Metals	●
Wood	●		
Plastic	●		

Advantages: Universal hand block for cleaning and finishing - Can be used on many materials - Cleaning performance is significantly increased by use of additives - Soft abrasion due to elastic structure - Can be used until completely worn down

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length x Height	Grit	Packing unit/pcs.	Article number
3 x 2 x 3/4	60	1	13801
3 x 2 x 3/4	120	1	13802
3 x 2 x 3/4	240	1	13803

Hand block

SFK 655



Properties

Bonding agent	Plastic
Grain	SiC

Applications:

Paint/Varnish	●	Leather	●
Glass/Stone	●	Metals	●
Wood	●		
Plastic	●		

Advantages: Universal hand block for cleaning and finishing - Can be used on many materials - Cleaning performance is significantly increased by use of additives - Soft abrasion due to elastic structure - Can be used until completely worn down

Available grits:

16 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200 1500 2000

Width x Length x Height	Grit	Packing unit/pcs.	Article number
3 x 2 x 3/4	60, 120, 240	6	72129

Notes



A large grid of small dots for taking notes, consisting of approximately 30 columns and 40 rows of dots.

Safety recommendations

Applications guide

General Principles of Safety

Abrasive products improperly used can be very dangerous.

- ▶ Always follow the instructions provided by the abrasive product and machine supplier.
- ▶ Ensure that the abrasive product is suitable for its intended use. Examine all abrasive products for damage or defects before mounting.
- ▶ Follow the correct procedures for handling and storage of abrasive products.

Be aware of the hazards likely during the use of abrasive products and observe the recommended precautions to be taken:

- ▶ Bodily contact with the abrasive product at operating speed.
- ▶ Injury resulting from product breakage during use.
- ▶ Grinding debris, sparks, fumes and dust generated by the grinding process.
- ▶ Noise
- ▶ Vibration

Use only abrasive products conforming to the highest standards of safety. These products will bear the relevant EN standard number and/or the inscription "oSa":

- ▶ EN 12413 for Bonded Abrasives.
- ▶ EN 13236 for Superabrasives.
- ▶ EN 13743 for Specific Coated Abrasives (vulcanised fibre discs, flap wheels, flap discs and spindle-mounted flap wheels).

Never use a machine that is not in good working order or one with defective parts. Employers should carry out a risk assessment on all individual abrasive processes to determine the appropriate protective measures necessary. They should ensure that their employees are suitably trained to carry out their duties. More detailed information on the safe use of abrasive products, comprehensive Safety Codes are available from FEPA or your National Trade Association.

- ▶ FEPA Safety Code for Bonded Abrasives and Precision Superabrasives.
- ▶ FEPA Safety Code for Superabrasives for Stone and Construction.
- ▶ FEPA Safety Code for Coated Abrasives.

Precautions against likely hazards

Bodily contact with the abrasive product

- ▶ Always take great care and attention when using abrasive products. Tie back long hair and do not wear loose clothing, ties and jewellery.
- ▶ Prevent accidental start up of the machine before mounting or changing an abrasive product. Isolate machines from their power source where necessary.
- ▶ Never remove guards from machines where fitted and ensure they are in good condition and properly adjusted before starting the machine.
- ▶ Always use gloves and suitable clothing where the workpiece or machine is handheld. For gloves, a minimum protection level of EN 388 Category 2 is recommended.
- ▶ After switching off the machine, ensure the product has come to rest before leaving the machine unattended.

Injury caused by product breakage

- ▶ Always handle abrasives with great care, they are easily damaged. Examine all products for defects or damage before use.
- ▶ Store abrasives in dry, frost-free conditions avoiding wide variations in temperature. Ensure they are properly protected and supported to prevent damage and distortion.
- ▶ Coated abrasives should be stored at 18-22° C, 45-65% relative humidity.
- ▶ Abrasive belts should be hung on a rod or peg not less than 50mm diameter.
- ▶ Never use an abrasive product beyond its expiry date where marked. Observe the recommended shelf life for the following specific products; Resinoid and Shellac products 3 years, Rubber products 5 years, Vitified products 10 years.
- ▶ Check abrasive product or package for any warnings or other safety information.
- ▶ Ensure that the correct abrasive product is selected. Never use a product if it cannot be properly identified.
- ▶ Follow the instructions provided by the abrasive product or machine supplier when mounting abrasive products. Observe any mounting indications marked on the product such as direction of run or mounting position.
- ▶ Never force the abrasive product onto the mounting fixture or modify it to fit.
- ▶ Never exceed the maximum operating speed where specified.
- ▶ Check that the correct mounting devices are used and that they are undistorted, clean and free from burrs.
- ▶ Use mounting blotters where supplied.
- ▶ Do not tighten the mounting device excessively.
- ▶ After mounting or re-mounting an abrasive product, conduct a trial run at operating speed with the guard in place for at least 30 seconds, standing clear of the machine before use.
- ▶ Never remove guards from machines where fitted and ensure they are in good condition and properly adjusted.
- ▶ Ensure that the workpiece is secure and properly supported. Ensure that work rests are properly adjusted and secure.
- ▶ Never start the machine with the workpiece in contact with the abrasive product.
- ▶ Never apply excessive force or shock to the abrasive product or let it overheat.
- ▶ Do not grind on the part of the product that is not designed for the operation
- ▶ Avoid grinding with the edge of abrasive belts, use the centre of the belt if possible.
- ▶ Avoid clogging and uneven wear to ensure that the abrasive product is working efficiently. Dress frequently where appropriate.
- ▶ Let the abrasive product stop naturally, not by applying pressure to its surface.
- ▶ Turn off and spin out excess coolant before stopping the machine.
- ▶ Do not leave abrasive belts under tension when not in use.

	Not permitted for hand-held or manually-guided grinding		Not permitted for wet grinding		Not permitted for face grinding		Do not use if damaged
	Only permitted with a back-up pad		Wear hearing protection		Read the instructions		Wear gloves
	Wear a respirator		Wear eye protection		Only permitted for wet cutting		Only permitted for use on totally enclosed machines

Safety recommendations

Applications guide



Grinding debris – sparks, dust and fumes

- ▶ Exposure to dust generated from workpiece and/or abrasive materials can result in lung damage and/or other physical injury.
- ▶ All dry grinding processes should be provided with adequate extraction facilities.
- ▶ Do not use abrasive products near flammable materials.
- ▶ The use of respirators complying with EN149 is recommended for dry grinding processes even if extraction systems are provided.
- ▶ Guards where provided should be adjusted to deflect sparks and debris away from the operator.
- ▶ Take additional measures to protect people working nearby.
- ▶ Eye protection is recommended for all machine applications for abrasives. For handheld machines or workpiece, goggles or full face shields are recommended.
- ▶ Eye protection with a minimum protection of EN166 Grade B is recommended.
- ▶ Ensure that the correct abrasive product is selected. An unsuitable product can produce excessive debris and dust.

Noise

- ▶ Ear protection complying with EN352 is recommended for all applications where the workpiece or machine is handheld, irrespective of the noise level.
- ▶ Ensure that the correct abrasive product is selected. An unsuitable product can produce excessive noise.

Vibration

- ▶ Processes where the workpiece or machine is handheld can cause vibration injury.
- ▶ Action needs to be taken if tingling, pins and needles or numbness is experienced after 10 minutes continuous use of the abrasive product.
- ▶ The effects of vibration are more pronounced in cold conditions so keep the hands warm and exercise hands and fingers regularly. Use modern equipment with low vibration levels.
- ▶ Maintain all equipment in good condition and stop the machine and have it checked if excessive vibration occurs.
- ▶ Use good quality abrasive products and keep them in good condition during their life.
- ▶ Maintain mounting flanges and backing pads in good condition and replace if worn or distorted.
- ▶ Do not grip the workpiece or machine too tightly and do not exert excessive pressure on the abrasive product.
- ▶ Avoid continuous use of the abrasive product.
- ▶ Use the correct product. An unsuitable product can produce excessive vibration.
- ▶ Don't ignore the physical symptoms of vibration – seek medical advice.

Disposal of abrasives

- ▶ Used or defective abrasives should be disposed in accordance with local or national regulations.
- ▶ Further information can be obtained from material safety data sheets provided by the supplier.
- ▶ Be aware that the abrasive product may be contaminated with material from the workpiece or process after use.
- ▶ Disposed abrasive products should be damaged to prevent them from being taken from waste skips and re-used.

SAFETY RECOMMENDATIONS FOR THE USE OF ABRASIVE BELTS:

1. General safety recommendations

- ▶ Ensure that quality and dimensions of the belt are correct for the machine and type of application. Refer to the machine manufacturer's instructions.
- ▶ Do not use near easily flammable material.
- ▶ Prevent long hair, loose clothes or jewellery from getting into contact with the machine and being pulled in. Take precautionary measures.
- ▶ Ensure that people nearby are protected from chips, sparks, debris, fumes, dust or noise. Belt grinding operations may produce high concentrations of dust, gas or mist, which can represent a health hazard as well as a risk of explosion.
- ▶ Do not open the guard or put down the machine until the belt has come to a complete standstill.

2. Specific safety recommendations

- ▶ Abrasive belts can tear. Please take precautions against risks by tearing of belt (e.g. protective clothing and devices, safety equipment of machinery).
- ▶ Abrasive machines, which do not have a completely closed guard require comprehensive protective equipment of the user (e.g. protective gloves, leather aprons, face shield, dust mask).
- ▶ Check the locking mechanism of the machine cover. Do not remove guards. Any contact with running belts can result in serious injuries.
- ▶ When mounting, refer to direction of running advice, if necessary.
- ▶ Make sure the workpiece is held correctly or is mechanically secured.
- ▶ Start the machine and wait until belt has reached its full operational speed before grinding.
- ▶ Belts should only be used dry unless specified as suitable for wet grinding (please contact the manufacturer if in any doubt).
- ▶ Use the centre of the belt, if possible, and grind as flat as possible. Avoid grinding with the edge of the belt as well as strong punctual loading e.g. through sharp or sharp-edged workpieces.
- ▶ Do not exert excessive pressure and prevent the belt from overheating.
- ▶ Check the belts in use periodically for wear and tear or damage (e.g. cracks at edges, fracturing or strong wear and tear in the joint) and replace the belts if necessary.

Due to the extraordinary variety of applications and machine constructions, these recommendations are limited to basic aspects of safety. Further safety regulations and instructions can be taken from the respective legislation, decrees and technical standards.

General Terms and Conditions of Trade

("Terms of Sale")

1. General Information – Application of Terms of Sale

- (1) Our Terms of Sale are the only terms of sale which apply to all transactions. We do not acknowledge additional or revised terms or conditions of sale, unless we previously have agreed to such additional or revised terms in writing.
- (2) All agreements made between us and a purchaser for the sale of goods are deemed to include these Terms of Sale.
- (3) Our terms of sale also shall apply to all further sale transactions with a purchaser even if such transactions are not in writing.

2. Bid – Bid Materials

- (1) If an order is submitted in the form of a bid, we shall have fourteen (14) days after receipt of the bid to either accept or reject the order.
- (2) We retain all intellectual property ownership rights including copyright applicable to all illustrations, drawings, estimates and all other related documentation associated with a bid, including all documents classified as "confidential". Before disclosing any of our intellectual property to third parties, the purchaser shall obtain our express written permission to such disclosure.

3. Prices – Payment Conditions, Packaging, Shipping

- (1) Unless indicated otherwise in the order confirmation, our prices are "ex works prices", including packaging. If custom packaging is required, the customer is responsible for the additional costs of such custom packaging in addition to the ex works prices.
- (2) We reserve the right to change our prices as a consequence of increases or decreases in our costs after the date of the sale of goods contract, in particular as a consequence of changes in wages or material costs.
- (3) We package all goods with our choice of packaging materials suitable for the means of transportation.
- (4) We select the means of transportation, unless other agreed in writing with the purchaser. Freight will be prepaid with our choice of carrier for orders of \$500 or more after all applicable discounts. The purchaser bears all costs for special shipping arrangements, including express or next day shipping arrangements.
- (5) Upon the purchaser's request, we will cover the shipment of goods with a transportation insurance policy provided that the purchaser bears all costs for such insurance policy.
- (6) Unless specified in the sale of goods order the net purchase price (without deductions) is due within thirty (30) days from the invoice date.
- (7) No discounts shall apply unless expressly agreed in writing.
- (8) We confirm our rights as an unpaid seller under Part IV of the Sale of Goods Act (Ontario).

4. Passing of Risk

All risk associated with the goods is passed to and assumed by the purchaser upon the transfer of the goods to the forwarding agent or carrier at our premises, and in any event, upon leaving our premises, unless other conditions have been expressly agreed upon in writing.

5. Delivery Time

- (1) The confirmation of the delivery time of the goods is dependent upon full disclosure and clarification by the purchaser of all technical questions affecting the goods and the delivery of the goods to the purchaser.
- (2) In addition, compliance with our delivery obligation is conditional upon the timely and proper fulfillment of the purchaser's obligations, failing which we shall have no obligation to deliver the goods.
- (3) If the purchaser delays its acceptance of the goods, or knowingly is in default of any of the purchaser's obligations, we shall have the right to claim damages, including additional expenses resulting from such default and we reserve the right to claim any other damages resulting from such default by the purchaser.
- (1) If the purchaser is in default under paragraph (3) above, the risk of loss or the deterioration of the purchased goods passes to the purchaser immediately upon such default in acceptance or payment.
- (4) Delivery and shipping dates reflect our estimate based on production requirements.
- (5) We shall be liable if a delay and delivery arises from an intentional or grossly negligent breach by us for which we are liable. If the delay and delivery does not arise from an intentional default by us, the liability for damages is limited to special damages.
- (6) We also shall be liable if the delay in delivery arises from default of a major contractual obligation by us, provided that, such liability for damages is limited to special damages.

6. Liability for defects

- (1) We give no implied warranty or condition as to the quality or fitness for any particular purpose of goods supplied to the purchaser and there are no representations or warranties regarding the goods supplied to the purchaser except as expressly set out in these Terms of Sale.
- (2) The purchaser shall carry out appropriate test procedures with random samplings, before using the delivered goods for the intended purpose. Slight discrepancies in the colour of our products are not considered a defect.
- (3) If a defect in the purchased goods is detected we have a choice of correcting the defect or substituting new replacement goods to the purchaser.

General Terms and Conditions of Trade

("Terms of Sale")



- (4) If, after the substitution or correction of defective goods, the goods are still defective, the purchaser shall have the option of either withdrawing from the contract or claiming a reduction in the purchase price.
- (5) If the purchaser is entitled to damages instead of repeat performance, our liability for damages is limited to special damages.
- (6) In the case of coated abrasives delivered on large rolls (jumbo rolls), we will compensate those portions with discrepancies recognized by us by the addition of at least an equivalent amount of material which is free of defects.

7. Return Goods Policy

- (1) Merchandise returns are subject to the following conditions:
- (2) The returned product(s) must be authorized by Klingspor and accompanied by a claim number
- (3) The product(s) must be standard stock items
- (4) The product(s) must have been purchased within the previous 12 months
- (5) The product(s) must be in their original package(s) and in re-salable condition
- (6) The product(s) must be returned via prepaid delivery
- (7) A restocking charge of 15% will be applied to all returns and subsequently billed to the customer

8. Limited Warranty

- (1) We warrant that the goods delivered to a purchaser are of the type specified and conform to our specifications, or to Buyer's specifications if agreed to in writing by us, and shall be free from defects in material and workmanship when compared to the applicable specifications. We shall not be responsible or liable for any consequential damages or costs of any nature, including but not limited to, freight, labour costs, lost profits, economic loss of any kind, downtime, personal injury or death, or any other loss or damage to person(s) or property and shall be liable only to the extent of the purchase price of the goods. This limited warranty does not cover goods damaged after being shipped by us to the purchaser or any claim which is not directly due to defects in original material or workmanship of the goods. This limited warranty does not apply to goods altered or repaired by any party other than us.
- (2) This limited warranty is the only warranty given by us and is in lieu of all other warranties either expressed or implied by statute, at common law, or otherwise.

9. Jurisdiction or Applicable Law

This Agreement shall be governed by and interpreted in accordance with the laws of the Province of Ontario and the laws of Canada and the parties shall submit to the jurisdiction of the Courts of the Province of Ontario. Any provision hereof prohibited by law shall be ineffective to the extent of such prohibition, without invalidating the remaining provisions hereof.

KLINGSPOR Inc.

We are not liable for misprints.

Notes



Grid of dots for notes

Notes



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Safety

Klingspor products are marked with the oSa label



What does oSa mean?

In a host of applications grinding and cutting require very high peripheral speeds from the rotating abrasive product. These products must therefore be particularly safe so as to stand up to the extreme mechanical and thermal stress.

Regrettably there are no globally binding safety requirements for abrasive products.

This is why responsible manufacturers of abrasive products from a number of European countries set up the Organization for the Safety of Abrasives (oSa) in 2000 and thus setting a clear signal against inferior and dangerous products.

The user recognises these quality grade products from the oSa trade name. They signify to the manufacturer and trader a reduced liability risk, a market and competitive benefit and an image gain.

As a part of their in-house quality management system, the manufacturers see to it that the exact provisions are kept to and that only safe, high quality abrasive products are produced and marketed. The fact that the oSa – Organization for the Safety of Abrasives issues the worldwide protected oSa trademark to members is confirmation of this internal commitment. The oSa label does not mean that the Organization for the Safety of Abrasives or its institutions assume any liability of the designated products.



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