



VSM PRODUCT RANGE 2024/2025

Valid as of January 2024.

The VSM information system

All product details at one glance

Series: **XK870F** (TOP SIZE)

Backing flexibility (here: very sturdy, please refer to page 27 for more details)

Additional grinding-active layer (here: VSM TOP SIZE, please refer to page 31 for more details)

VSM CERAMICS

Bonding: Full-resin bonded
Colour: Red
Backing: F-Cotton
Flexibility: Very flexible

Materials: Stainless Steel, Superalloys, Non-ferrous metal, Aluminium

Features: Medium pressure, Medium coated

Grain type
 Machine/Grinding application
 Developed for... (ordered by suitability)
 Also suitable for... (ordered by suitability)

XK870F grinds very aggressively even with low contact pressure. The very flexible backing adapts well to tight radii and fine contours. The grinding belt is particularly suitable for workpieces with very hard surfaces such as non-ferrous metals, stainless steels or superalloys. Also ideal for robot applications or hand grinding operations on the backstand, such as pre-sharpening knives.

Short description of product

Grit range:

16 20 24 30 36 40 50 60 80 100 120 150 180 220 240 280 320 360 400 500 600 800 1000 1200

P = Categorized according to the FEPA standard

Art. No.	Belt joint	Width (mm)	Length (mm)	Grit	Type	PU	Sales Unit
784111	E07	40	760	60	L	20	20
716552	E07	40	760	80	L	20	20
763246	E07	40	760	100	F	20	60
716563	E07	40	760	120	L	20	20
702515	E07	40	760	150	F	20	60

Minimum order quantity
 Packing unit
 Sorting
 F = Manufactured products
 L = Stock items

Machines/Grinding applications

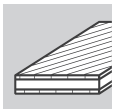


Additional grinding-active layers (for more information, please refer to page 31)



Materials

Metallic materials



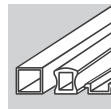
Superalloys



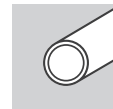
Stainless Steel



Unalloyed Steel

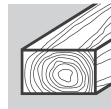


Aluminium

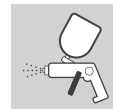


Non-ferrous metal

Non-metallic materials



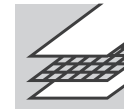
Wood



Lacquer



Glass/Stone/
Ceramic



Composite

Features

Product features



Open coated



Medium coated



Medium close coated



Close coated



Velour-backed

Product application



Also for wet grinding



Low to medium pressure



Medium pressure



Medium to high pressure

FEPA safety recommendations*

The pictograms with FEPA safety recommendations* are guidelines for the correct use of coated abrasives. It is in the interest of your own safety to comply with these guidelines. In addition, compliance with these guidelines ensures full performance of the abrasive.



Wear eye protection



Wear a mask



Wear ear protection



Wear protective gloves



Refer to instruction manual



Do not use if damaged



Only permitted for grinding at an angle > 10°



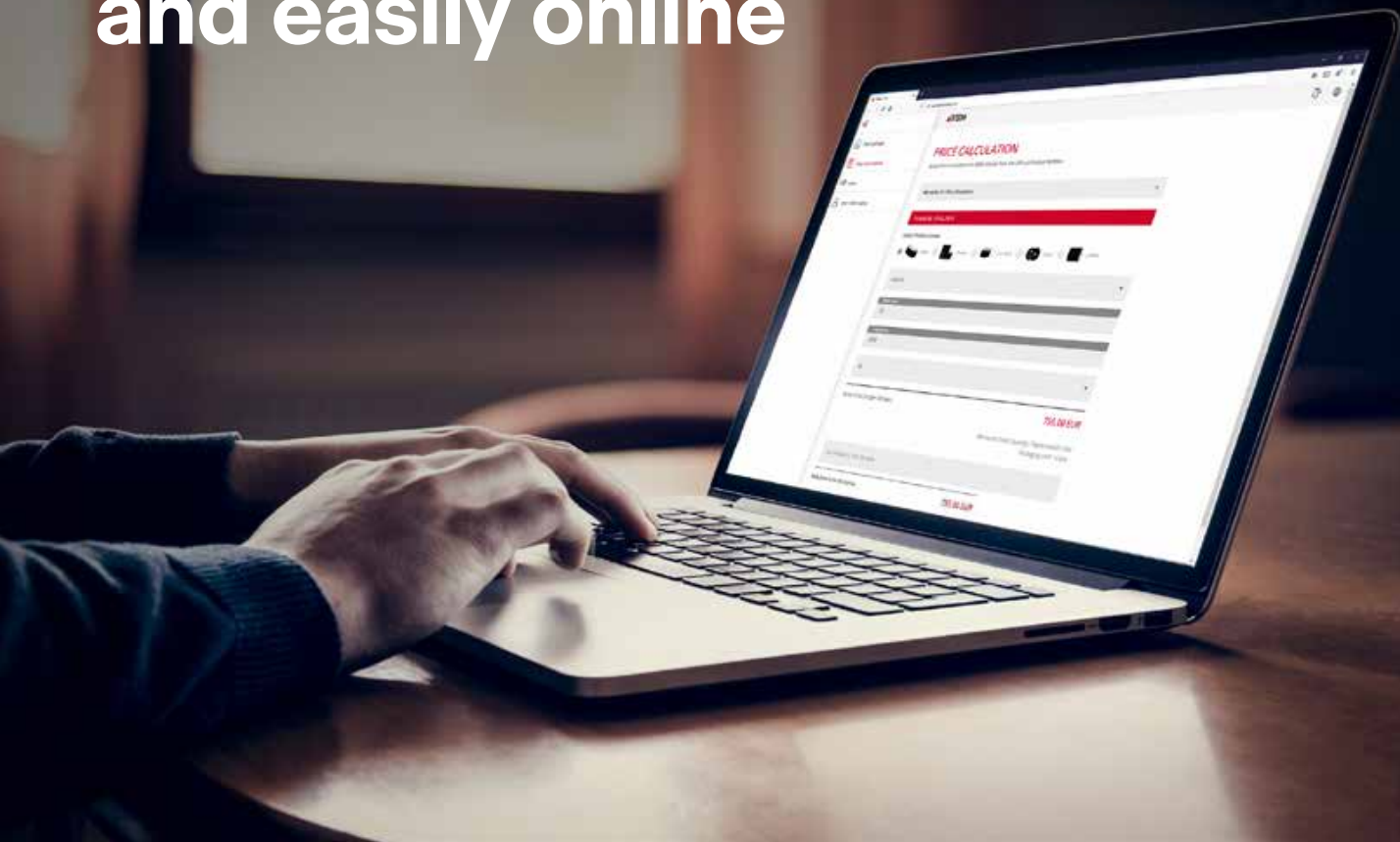
Only to be used with a back-up pad



Do not use for wet grinding

*The FEPA safety recommendations are published on our website. Visit us at www.vsmabrasives.com/service/downloads.

Calculate prices quickly and easily online



You can calculate the price of your abrasives quickly and easily online, or request them in the usual way from your contact person in the VSM sales service team.



Get started today:
b2b.vsmabrasives.com

Do you have any questions or suggestions?

If so, please email us at marketing@vsmabrasives.com

You need access authorisation?

Please contact your VSM sales service team. (See pages 6-9)



Contact

VSM Customer Service (Germany):

T +49 511 3526 **478**
vertrieb@vsmabrasives.com

VSM Customer Service (Worldwide):

T +49 511 3526 **479**
sales@vsmabrasives.com

www.vsmabrasives.com

HIGHLIGHTS

VSM ACTIROX	16
VSM ILUMERON	20
VSM ALU-X	22

Our cover model is a grinding expert and wears **ALU-X XF733** in size 180 mm, #36.



General

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Belts

Instructions for use	32
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Wide belts

> 300 mm width

Cloth	40
Paper	46
Non-woven	48

Belts

≤ 300 mm width

Cloth	49
Paper	81
Non-woven	83

File belts

Cloth	86
Non-woven	91

Discs

Instructions for use	92
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Fibre discs

100

Discs

Cloth	112
Paper	116
Non-woven	117

Rolls

Instructions for use	120
----------------------	-----

Cloth	122
Non-woven	127

Sheets and pads

Instructions for use	130
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Sheets · Cloth	132	Pads · Paper	135
Sheets · Paper	133	Pads · Non-woven	136

Accessories

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Magazines and holders	142	Back-up pads for discs with paper and cloth backings	144
Hand sanding block	142		
Back-up pads for fibre discs	143		



Successful all over the world

VSM is the brand name of **VSM - Vereinigte Schmirgel- und Maschinen-Fabriken AG** founded by Siegmund Oppenheim and Siegmund Seeligmann in 1864, and became a public limited company in 1898. Its headquarters is

located in Hanover-Hainholz, Germany, where the company was founded. VSM has more than 850 employees worldwide. With **more than 160 years of experience** in the manufacturing of quality abrasives, VSM is one of the global



FOR 160 YEARS

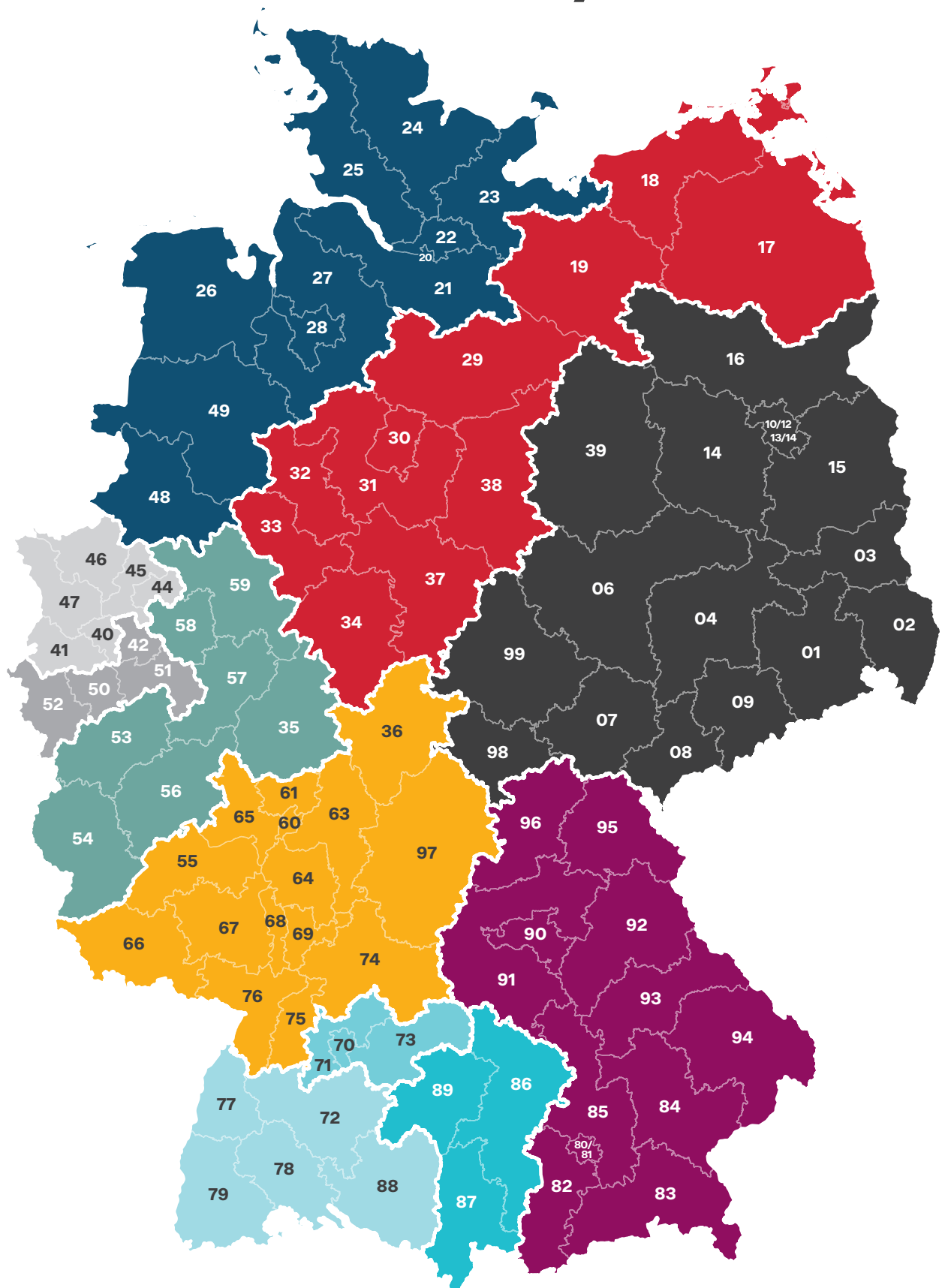
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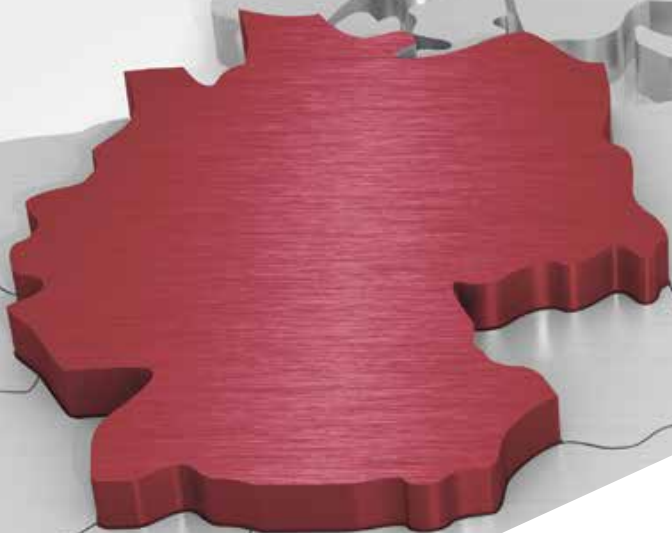
WE KNOW ABRASIVES

leaders in the abrasives market. Specialised in premium grinding solutions for the metal and wood industries, VSM's market activities are based on a company strategy which focuses on the success of its customers.

Satisfied customers are the only benchmark for our company's performance. International VSM subsidiaries and a global distribution network ensure that manufacturers can get our full support in every region of the world.

Our sales service team for Germany





Mareike Schröder

T +49 511 3526 252
F +49 511 3526 9252
mareike.schroeder
@vsmabrasives.com



Felix Eckes

T +49 511 3526 253
F +49 511 3526 9253
felix.eckes@vsmabrasives.com



Karin Schweidler

Key Account
T +49 511 3526 237
F +49 511 3526 9237
karin.schweidler
@vsmabrasives.com



Liv Bente

T +49 511 3526 226
F +49 511 3526 9226
liv.bente@vsmabrasives.com



Mario Wenzel

T +49 511 3526 239
F +49 511 3526 9239
mario.wenzel@vsmabrasives.com



Frederic Geffers

T +49 511 3526 235
F +49 511 3526 9235
frederic.geffers@vsmabrasives.com



Jens Wienert

T +49 511 3526 264
F +49 511 3526 9264
jens.wienert@vsmabrasives.com

Support throughout Germany - efficient, competent, reliable.

We provide
support globally -
give us a call!



**Anne-Kathrin
Winckler-Homes**

T +49 511 3526 225
F +49 511 3526 9225
anne-kathrin.winckler-homes
@vsmabrasives.com



**Marisol
Fernandez Da Silva**

T +49 511 3526 241
F +49 511 3526 9241
marisol.fernandez
@vsmabrasives.com



Sabine Kindschuh

T +49 511 3526 245
F +49 511 3526 9245
sabine.kindschuh
@vsmabrasives.com



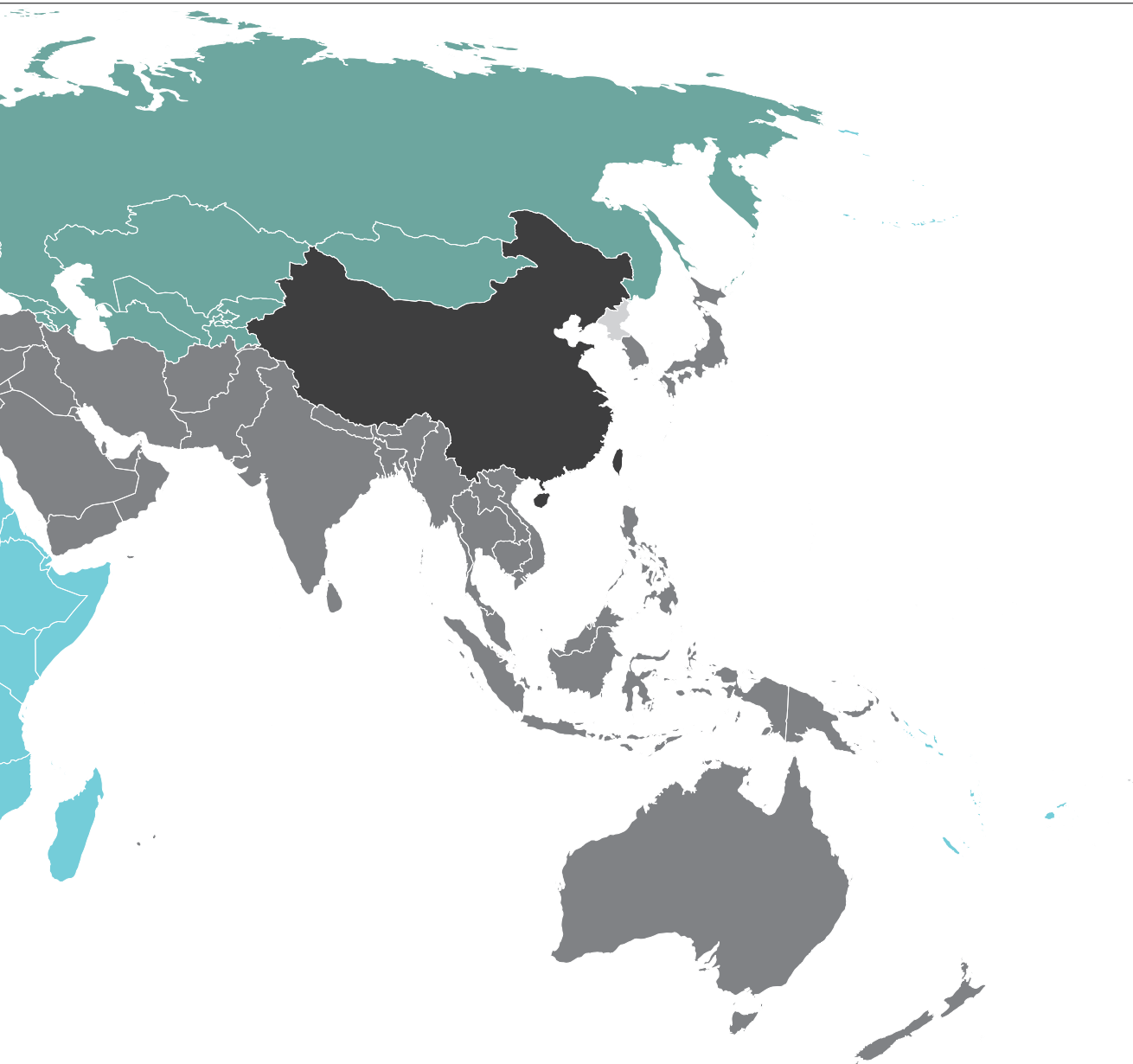
Yvonne Hanekopp

T +49 511 3526 257
F +49 511 3526 9257
yvonne.hanekopp
@vsmabrasives.com



Katharina Peine

T +49 511 3526 485
F +49 511 3526 9485
katharina.peine
@vsmabrasives.com



Our international sales team



Kirsten Milling
 T +45 72 7331 60
 F +45 72 7331 69
 kirsten.milling@vsmabrasives.com



Felix Eckes
 Israel
 T +49 511 3526 253
 F +49 511 3526 9253
 felix.eckes@vsmabrasives.com



Anastasios Fotiadis
 T +49 511 3526 243
 F +49 511 3526 9243
 anastasios.fotiadis@vsmabrasives.com



Mareike Schröder
 T +49 511 3526 252
 F +49 511 3526 9252
 mareike.schroeder@vsmabrasives.com

Technical abrasives seminars in Hanover

Benefit from our process expertise in abrasives

- > Expand your know-how of grinding processes and their potential for optimisation
- > Extensive machine pool for simulating your grinding operations
- > Talk directly to our abrasive technology specialists
- > High proportion of industry-related grinding tasks and exercises under expert guidance
- > Interpreter services available for seminars in one or more foreign languages (please ask for details)

> GRINDING TECHNOLOGY USER SEMINAR

- > Performance features of grain technologies
- > Configuring machine parameters to the abrasives used
- > Evaluation of surface analysis values
- > Optimisation of the grinding process
- > Hands-on grinding exercises in small groups

TECHNICAL ABRASIVES FORUM FOR DISTRIBUTORS

- > Knowledge transfer to ensure customer obtains optimum advice on grinding
- > Classification of the VSM product portfolio
- > Range for OEM and converter products
- > Practical grinding training, utilising real-world applications from industry and skilled trades

CUSTOMER-SPECIFIC SEMINAR ON GRINDING *(please ask for details)*

Send us your enquiry today and we will work with you to develop a tailor-made grinding seminar for your company. Possible seminar content

- > How do you identify the optimisation potential of your application?
- > Which abrasive is best suited for a desired scratch pattern?
- > How do different abrasive grain technologies affect your application?
- > How do you identify possible sources of error and counteract them?
- > What technical possibilities are there for assessing the surface quality and what are their respective benefits?

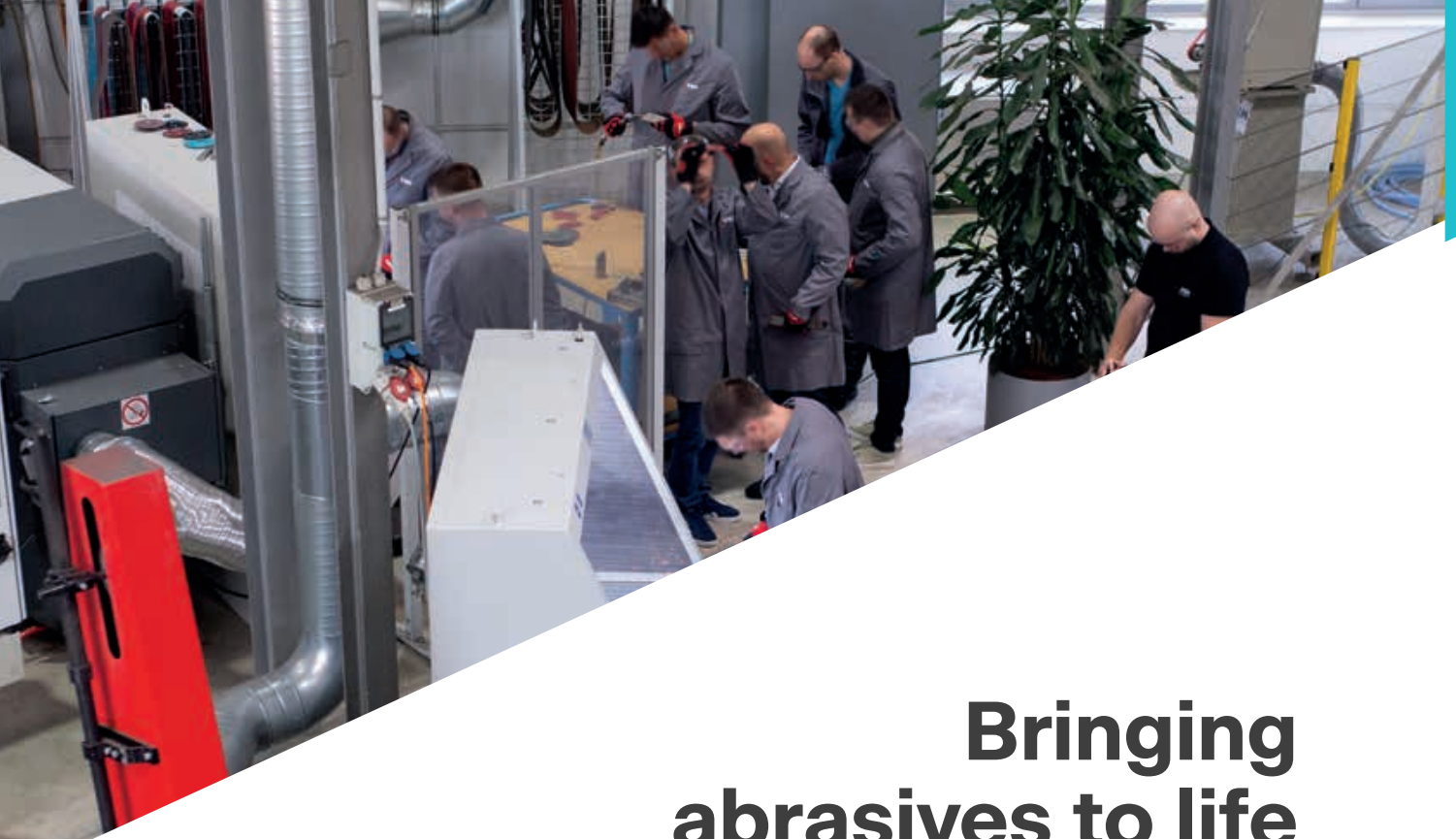


Interested in our VSM seminars?

Visit us at vsmabrasives.com/en/service/seminars

Call us on **+49 511 3526 222**

Mail us at: training@vsmabrasives.com



Bringing abrasives to life

The classroom seminars held in the VSM Competence Center at our company headquarters in Hanover give you hands-on experience with abrasives. Short theoretical sessions are followed by detailed practical blocks.

Our new 'grinding carousel' lets you try out many different grinding techniques in seven separate booths:

- > Centerless grinding machine
- > Flat grinding machine with 7 stations
- > Double backstand
- > Backstand with contact wheels in three levels of hardness
- > Planetary grinding machine
- > Angle grinder (various power levels)
- > Extensive range of power tools

How do different types of grain behave? Which grinding sequence can cut down on process steps? How are surface analysis devices used? Working in small groups, you'll learn about all of this and much more in special blocks dedicated to each of the machines.



In VSM's live webinars, our specialists take a close look at various abrasives and applications.

Thanks to the generous space offered on our premises, we can also set up large third-party machines, which lets us offer seminars on specially selected topics.

We look forward to your booking!

Become a grinding professional:

In just 30 to 60 minutes, our live webinars will give you useful tips and tricks for your everyday work, plus valuable insights into metalworking with any kind of abrasive.

VSM webinars – live from our Competence Center

Our machine pool – right on your desk

Use your precious time effectively and benefit from our expert knowledge. Experience practical applications that also have relevance for your own day-to-day work. We bring our entire machine pool to you – wherever you are. By chatting directly to our experts, you will get

valuable tips and tricks for your grinding processes. And all this comes to you as an online event, at a place of your choosing. And naturally in your language of choice, as required.

In the short space space of 30 to 60 minutes, you will gain a wealth of knowledge on a wide variety of topics. Check out the details of our latest VSM live webinars on the right hand page. The registration couldn't be easier: You don't need any special software – all you need is a computer, tablet or smartphone.



Interested in our VSM live webinars?

Visit us at vsmabrasives.com/en/service/webinars

Call us on **+49 511 3526 222**

Mail us at: webinar@vsmabrasives.com



Our live webinar topics at a glance



Inside out – what makes up a VSM abrasive?

What should you consider when choosing the right abrasive? How does the abrasive grain get onto the backing? And why is the term 'sanding paper' actually incorrect for most abrasives?



Reducing heat in the grinding process

Many users are well that workpieces will discolour if they become too hot during grinding. But did you know that too much heat actually causes structural changes in the metal?



Dynamic discs – comparing grinding, flap and fibre discs

Which technology is best for which application? What are grinding discs, flap discs and fibre discs – and what are their specific properties?



Measure - Evaluate - Change: Parameters optimise your grinding process

In this webinar we will show you how you can significantly improve your grinding process with simple parameter adjustments.



Visually? Haptically? Technically! - Measuring surface roughness in the spotlight

Even technically measured surfaces have a high potential for errors. We give you certainty in the assessment and evaluation of the surfaces you produce and therefore also your grinding process.



Quality made in Germany – the champion ceramic grain

An abrasive grain developed and made entirely in-house

Did you know that VSM produces its own ceramic grain at its Hanover site? This makes us one of only a handful of ceramic grain manufacturers worldwide. By producing our own abrasive grain, we can significantly influence the performance characteristics of our abrasives. And we also utilise our wealth of technical know-how to develop, produce and continuously optimise new grain technologies in-house – such as the geometrically shaped ceramic grain used in ACTIROX abrasives, for example.



Ceramic grain abrasives are required for demanding grinding tasks. We produce the grain for this in-house.

Backing materials finished on site

We also finish the backing materials for our abrasives ourselves, in our own fabric treatment plant. Why go to all this trouble? Because backing material quality is not only essential for abrasive grain adhesion, but also applies the stock removal forces to the respective workpiece. By adjusting the backing material characteristics to perfectly match our abrasives, we can significantly influence both the performance and the service life of the abrasive.



The backing materials for our abrasives are finished in our own facility in Hanover.

The perfect bond for VSM abrasives

Synthetic resin bonds ensure the best-possible adhesion of abrasive grain to the backing material. And the use of active abrasive fillers keeps grinding cool or improves chip clearance. These bonds are also manufactured and actively developed at VSM in Hanover. For high-performance high-quality abrasives – Made in Hanover.

Our quality promise

Finished goods and pre-assembled articles are subjected to continuous quality assurance testing in-house to verify their grinding performance or belt joints. These tests are carried out in our purpose-built, state-of-the-art Grinding Unit as well as our VSM Competence Center. We have also been certified to the ISO 9001:2015 standard for many years, and are a member of FEPA, oSa and VDS.

Producing our own preliminary products in-house is a special feature of VSM's abrasive production

Finishing of backing materials

Resin production

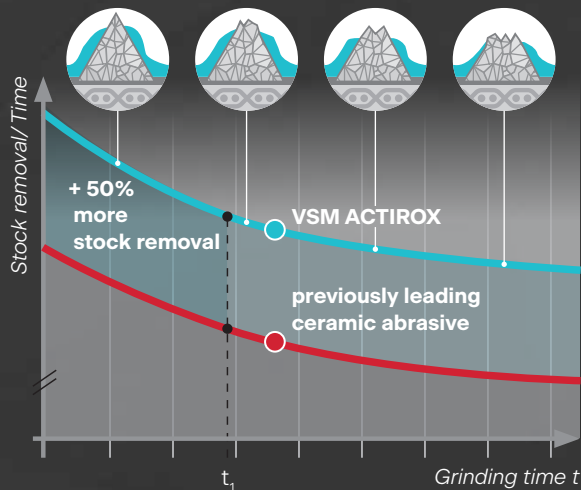
Production of abrasive grain

Coating and spreading

Basic goods



ACTIROX



Thanks to their extremely high stock removal rate, VSM ACTIROX fibre discs can process more workpieces in the same time.

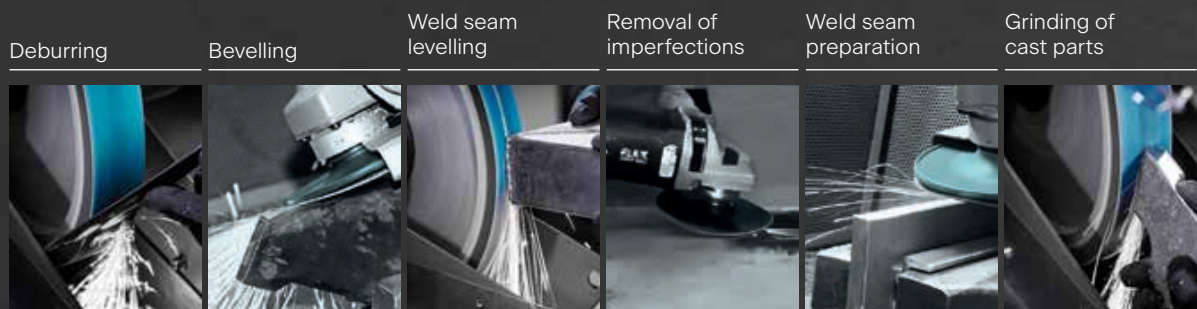
From deburring to grinding cast parts or levelling weld seams, you too can enjoy the benefits offered by **VSM ACTIROX**.

VSM ACTIROX utilises geometrically shaped ceramic abrasive grains that break down in a precise, predictable way. As they do, they constantly produce new, razor-sharp cutting edges. This ensures aggressive grinding and maximum stock removal.

YOUR ADVANTAGES

- > Maximum stock removal per time unit thanks to geometrically shaped ceramic grain
- > More workpieces processed per unit of time
- > Cooler grinding, preventing discolouration on stainless steels
- > Improved chip clearance – even when grinding aluminium

Your grinding task



Abrasive grain in top shape!

3 good reasons why AK890Y should be an essential part of your operation

1

Maximum stock removal results in **lower operating expenses**, such as energy and storage costs.

2

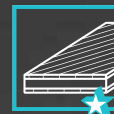
Low to medium contact pressures significantly reduce noise and vibrations, and therefore **reduce the strain on operators and machines**.

3

Faster grinding greatly **reduces processing times** – even when deburring and removing sprues or weld seams.



Developed for ...



Superalloys



Stainless Steel



Unalloyed Steel

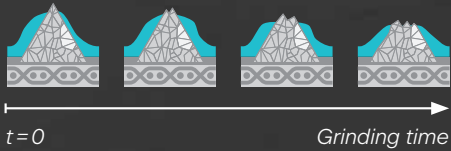


VSM ACTIROX
AK890Y

Product data sheet

ACTIROX

VSM is one of only a **handful of ceramic grain manufacturers in Germany and the rest of the world**. By producing our own abrasive grain at our Hanover site, we can significantly influence the performance characteristics of our VSM abrasives.



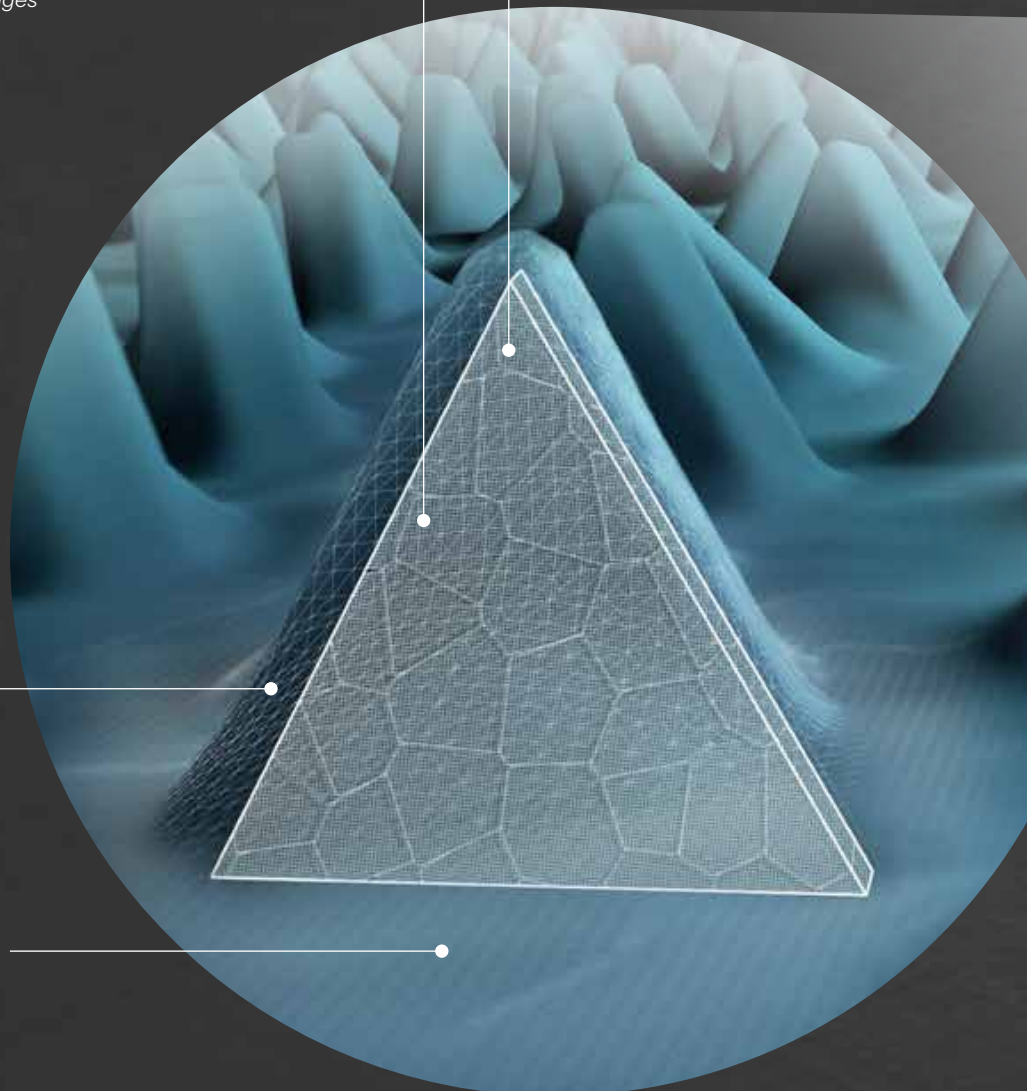
The geometrically shaped ceramic abrasive grain wears down in a defined manner, creating a series of new, sharp cutting edges

Upright abrasive grain for aggressive and faster grinding

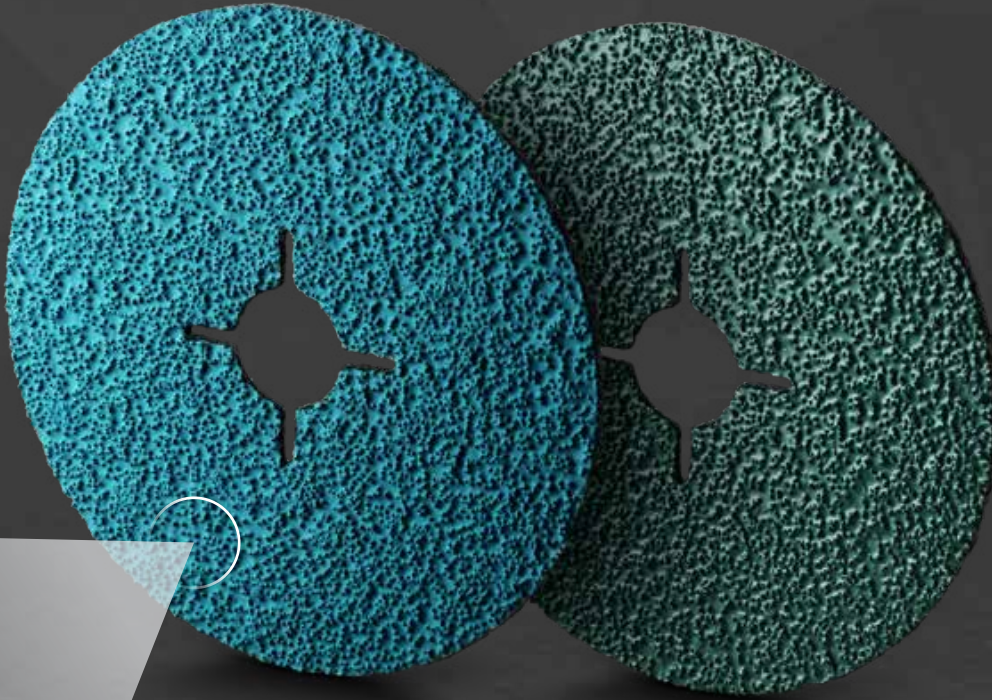
TOP SIZE

Enhanced stock removal and lower temperatures in the grinding zone thanks to the VSM TOP SIZE grinding-active top size coat

Cloth and vulcanised fibre backing materials have been developed in-house to handle the toughest jobs



Fibre discs for maximum stock removal



TOP SIZE



VSM ACTIROX
AF890

Product data sheet

Developed for ...



Superalloys



Stainless Steel



VSM ACTIROX
AF799

Product data sheet

Developed for ...



Aluminium



Unalloyed Steel

RECOMMENDED BACK-UP PADS

TURBO PAD 1



Hard, with cooling fins
(page 143)

TURBO PAD 2



Hard, with cooling fins,
cambered (page 143)

TURBO PAD 3



Extra hard, with cooling fins, cambered,
for maximum stock removal (page 143)

ILUMERON

Grinding stainless-steel surfaces

VSM ILUMERON degrades uniformly across its entire surface. This produces much finer surfaces than traditional long-term abrasives.

RK700X
VSM ILUMERON (AO)
grit size 1200



GU 153

Competing product
grit size 1200



GU 23

Product

Gloss Unit (GU)*

* **Gloss Units (GU)** are the unit of measure for gloss as measured by a gloss meter. A perfectly satin finish has a gloss level equal to 0 gloss units. High-gloss surfaces usually have a value of more than 70 GU.

YOUR ADVANTAGES

- > Workpieces can be ground and polished in a single step
- > Wild scratches are avoided in the grinding process
- > Particularly high gloss values
- > Significantly extended service life
- > A perfectly prepared surface for subsequent coating processes

Your grinding task

Cylindrical grinding



Planetary grinding



Wide belt grinding



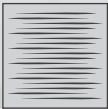
Flat grinding



Gives your workpiece the perfect shine



For fine surfaces with a very high gloss level



Consistent surface quality within extremely tight tolerances, which prevent "wild" scratches



Grinding and polishing in one single step



VSM ILUMERON
RK700X

Product data sheet

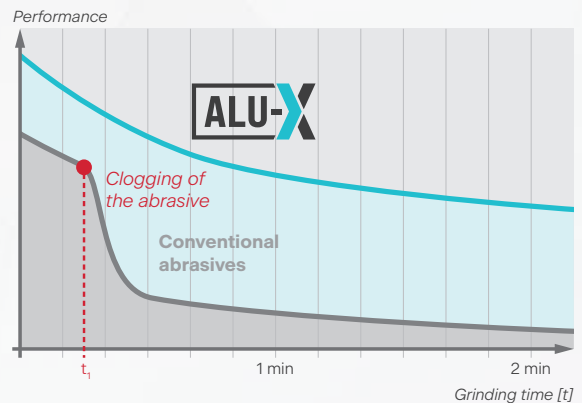


X-TREME performance

From X-PERTS for X-PERTS

ALU-X is the new series of abrasives developed by VSM to meet the specific requirements of grinding non-ferrous metals.

Here, the proven **VSM CERAMICS** grain technology with continuous self-sharpening is complemented by the additional grinding-active layer **VSM ALU-X**. The result: Improved chip removal, resulting in fewer tool changes, more workpieces per shift, more stock removal, and a grease-free workplace.



Grinding aluminium alloy bars (Ø 30 mm, AlSi12Cu) using fibre discs with grit size 24.

Your advantages at a glance

- > Specially developed for machining **aluminium and non-ferrous metals**
- > **VSM ALU-X significantly reduces** chip adhesion and thus also **clogging of the abrasive**; this, in turn, reduces the number of **tool changes**
- > **Grease-free and oil-free grinding** keeps the **workplace clean**.
- > **Increased performance** enables **faster workpiece machining** and lowers the process costs
- > **VSM** always delivers premium **made-in-Germany quality**



Your grinding task

Grinding of cast parts



Deburring



Removing welded seams



Preparing welded seams



Bevelling



Cleaning



Removing imperfections



Technical surface quality

ce – reduced chip adhesion



High stock removal rate and a longer service life



Reduced tool costs per workpiece



Reduced chip adhesion means fewer tool changes



Grease-free and oil-free grinding



VSM CERAMICS
XK733X



Product data sheet



The additional layer ALU-X significantly reduces chip adhesion during grinding of non-ferrous metals

Developed for:



Aluminium



Non-ferrous metal



Unalloyed Steel



VSM CERAMICS
XF733



Product data sheet

FOR
X-TREME
PERFORMANCE.

Recommended products

Backstand



	Material	Stock removal rate	Series	Grain technology	Backing	Features	Grit size	Contact pressure	From page
NEW	Stainless steel	▲▲▲	AK890Y	VSM ACTIROX	Cloth	▼ TOP SIZE, ⬭	36+	○	49
		▲▲	XK880Y	VSM CERAMICS Plus	Cloth	▼ TOP SIZE, ⬭	20 – 120	⊙	77
		▲	XK870X	VSM CERAMICS	Cloth	▼ TOP SIZE, ⬭	24 – 120	⊙	74
	Unalloyed steel	▲▲▲	XK785Y	VSM CERAMICS Plus	Cloth	⬭	36 – 80	●	70
		▲▲	XK760X	VSM CERAMICS	Cloth	⬭	24 – 120	⊙	68
		▲	ZK713X	VSM ZIRCONIA ALUMINA	Cloth	⬭ (24–150)	24 – 320	○	79
	NF-metals (aluminium, brass, copper...)	▲▲▲	XK885Y	VSM CERAMICS Plus	Cloth	▼ TOP SIZE, ⬭	20 – 120	●	78
NEW		▲▲	XK733X	VSM CERAMICS	Cloth	ALU-X ⬭	24 – 120	⊙	67
		▲	XK870F	VSM CERAMICS	Cloth	▼ TOP SIZE	60 – 400	⊙	72

Flat grinding



	Material	Stock removal rate	Series	Grain technology	Backing	Features	Grit size	Contact pressure	From page
Stainless steel		▲▲▲	RK700X	VSM ILUMERON	Cloth	⬭	120 – 1200	⊙	66
		▲▲	KK791Y	VSM COMPACTGRAIN Plus	Cloth	⬭	80 – 800	⊙	64
		▲	KK772J	VSM COMPACTGRAIN	Cloth	⬭	80 – 1200	○	61
Unalloyed steel		▲▲▲	RK700X	VSM ILUMERON	Cloth	⬭	120 – 1200	⊙	65
		▲▲	KK791Y	VSM COMPACTGRAIN Plus	Cloth	⬭	80 – 800	⊙	64
		▲	KK772J	VSM COMPACTGRAIN	Cloth	⬭	80 – 1200	○	61
NF-metals (aluminium, brass, copper...)				Contact us to find out more!					

Errors and omissions excepted. For special requirements, please contact your VSM application engineer.

Features:

- for low to medium contact pressure
- ⊙ for medium contact pressure
- for medium to high contact pressure
- ⬭ also suitable for wet application

Flexibility of the backing material (last letter of the series name):

- E extremely flexible
- F very flexible
- J flexible
- T semi-sturdy
- X sturdy
- Y very sturdy
- Z extremely sturdy

▼ **TOP SIZE** Grinding-active additional layer reduces the temperature in the grinding zone

ALU-X The combination of VSM CERAMICS and ALU-X significantly reduces chip adhesion

Centerless



Material	Stock removal rate	Series	Grain technology	Backing	Features	Grit size	Contact pressure	From page
Stainless steel	▲▲▲	RK700X	VSM ILUMERON	Cloth	♻️	120 – 1200	⊙	66
	▲▲	KK790Y	VSM COMPACTGRAIN Plus	Cloth	♻️	60 – 600	●	63
	▲	KK718X	VSM COMPACTGRAIN	Cloth	♻️	60 – 600	●	60
Unalloyed steel	▲▲▲	RK700X	VSM ILUMERON	Cloth	♻️	120 – 1200	⊙	66
	▲▲	KK790Y	VSM COMPACTGRAIN Plus	Cloth	♻️	60 – 600	●	63
	▲	KK712X	VSM COMPACTGRAIN	Cloth	♻️	80 – 600	⊙	59
NF-metals (aluminium, brass, copper...)			Contact us to find out more!					

Angle grinders



Material	Stock removal rate	Series	Grain technology	Backing	Features	Grit size	Recommended power rating	Contact pressure	From page	
Stainless steel	▲▲▲	AF890	VSM ACTIROX	Fibre	▼ TOP SIZE	36+, 60+, 80+	1,500 W	⊙	101	NEW
	▲▲	XF870	VSM CERAMICS	Fibre	▼ TOP SIZE	24 – 120	1,200 W	⊙	108	
	▲	XF850	VSM CERAMICS	Fibre	▼ TOP SIZE	36 – 80	1,200 W	⊙	107	
Unalloyed steel	▲▲▲	AF799	VSM ACTIROX	Fibre		36+, 60+, 80+	1,500 W	●	100	NEW
	▲▲	XF760	VSM CERAMICS	Fibre		24 – 80	1,200 W	⊙	106	
	▲	ZF713	VSM ZIRCONIA ALUMINA	Fibre		24 – 120	800 W	⊙	110	
NF-metals (aluminium, brass, copper...)	▲▲▲	XF885	VSM CERAMICS Plus	Fibre	▼ TOP SIZE	20 – 120	1,500 W	●	109	
	▲▲	XF733	VSM CERAMICS	Fibre	ALU-X	24, 36, 60, 80	1,200 W	⊙	105	NEW
	▲	ZF713	VSM ZIRCONIA ALUMINA	Fibre		24 – 120	800 W	⊙	110	



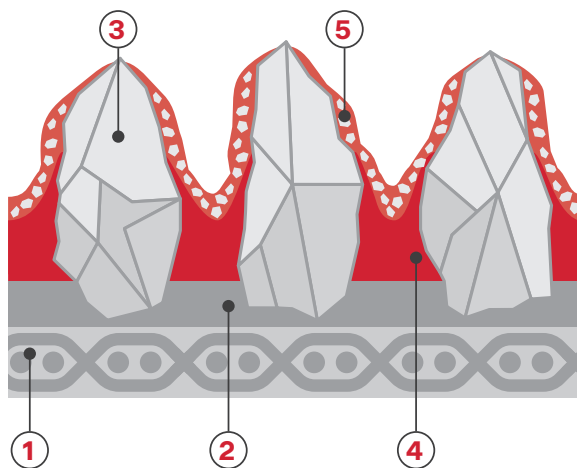


VSM grinding technology

Coated abrasives: schematic view

Coated abrasives consist of grains bonded to a flexible substrate. The substrate can have varying degrees of flexibility ranging from extremely flexible (E weight cotton backings) to

extremely sturdy (Z weight polyester backings). These substrates are used as backings for different types of abrasives: rolls, belts, discs and sheet goods.



A coated abrasive is made up of four to five different components

1. Backing material
2. Maker coat
3. Abrasive grain
4. Size coat
5. Optional coat: Additional grinding-active layer (TOP SIZE)

1 Backing material

The abrasive grain is bonded to a substrate which retains the grain and transfers the cutting forces to the workpiece. The substrates used by VSM as backing materials are:

Paper backing

- > Optimum stretching behaviour
- > Smooth running, special types of belt joints E13, E08 (page 34/35)
- > Lower weight in comparison to cloth backings
- > The lower the paper weight the more flexible is the backing

Cloth backing

- > Aramid, cotton, polyester and polycotton
- > High tear resistance
- > The flexibility of cloth backings varies between extremely flexible and extremely sturdy subject to the application
- > Standard belt joint E07, E08 (page 34/35)

Vulcanised fibre

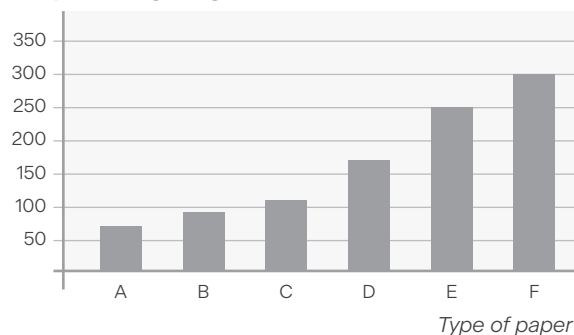
- > Multi-layer material made from special types of paper
- > Extremely sturdy backing material
- > Extremely high tear resistance
- > Used for making fibre discs

Thanks to having **our own cloth finishing plant** in Hanover, we are able to check the quality of the materials we use for each individual production step and ascertain that the same high level is maintained throughout. This guarantees that we use backing material with the best properties for our abrasives, which in turn translates into optimum performance.

VSM specifications paper

Backing	Paper weight	Typical applications
A-Paper	approx. 70 g/m ²	profile + surface grinding (hand)
B-Paper	approx. 100 g/m ²	profile + surface grinding (hand)
C-Paper	approx. 120 g/m ²	surface grinding (hand)
D-Paper	approx. 160 g/m ²	surface grinding (hand, machine)
E-Paper	approx. 250 g/m ²	surface grinding (hand)
F-Paper	approx. 300 g/m ²	surface grinding (hand)

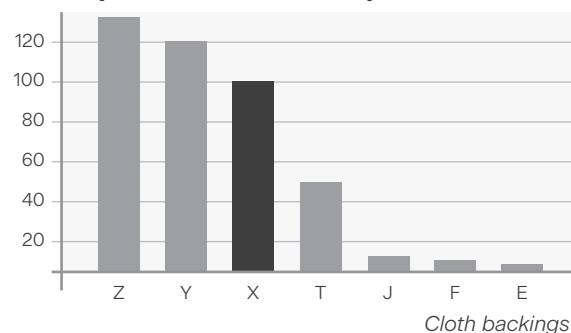
Paper weight [g/m²]



VSM specifications cloth

Backing	Flexibility	Typical applications
E-Cloth	extremely flexible	profiled workpieces
F-Cloth	very flexible	profiled workpieces
J-Cloth	flexible	profiled workpieces
T-Cloth	semi-sturdy	dynaflex
X-Cloth	sturdy	flat surfaces, edges, rotational bodies
Y-Cloth	very sturdy	flat surfaces, edges, rotational bodies
Z-Cloth	extremely sturdy	edge and surface grinding (machine)

VSM specification flexibility [%]



2 Maker coat

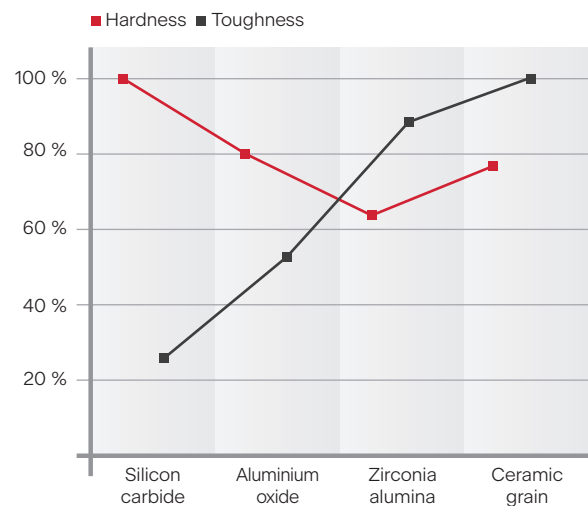
The maker coat holds the abrasive grain in place. In most cases, phenolic resins or urea resins are used as bonding agents. Specific properties such as flexibility or water-resistance are achieved by adding fillers.

3 Abrasive grain

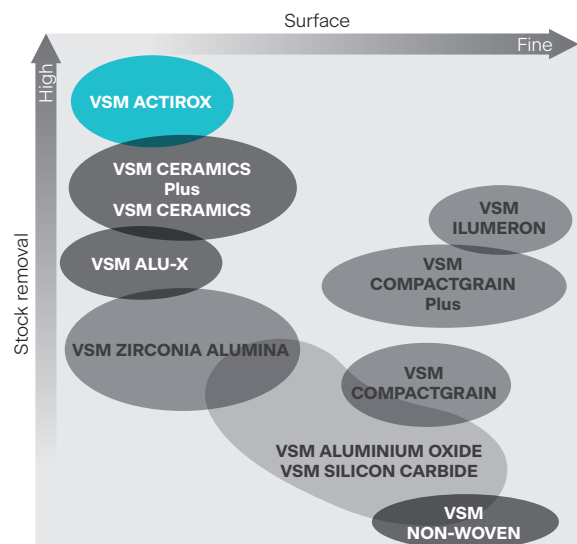
It is the abrasive grain which performs the actual job. It penetrates the workpiece and lifts the chip. High hardness, toughness and sharp edges are the most important characteristics of an abrasive grain. High-performance abrasives are made from the following synthetic materials:

- > Silicon carbide
- > Aluminium oxide (corundum)
- > Zirconia alumina
- > Ceramic grain
- > Cubic Boron Nitride (CBN)
- > Diamond

Hardness and toughness of different types of grain



The right grain for every application



VSM is **one of only a few manufacturers of ceramic grain worldwide and in Germany**. It is thanks to having our own ceramic grain production in Hanover, Germany that we have a decisive influence on the performance of VSM abrasives.

VSM grain technologies for high stock removal rates

NEW



VSM ACTIROX

- > **Geometrically formed** ceramic grain
- > Maximum stock removal and a faster cut for superalloys and stainless steels
- > Cool grinding extends the service life thanks to VSM TOP SIZE



VSM CERAMICS Plus

- > **Optimised self-sharpening effect** when processing high-alloyed steels ensures very high stock removal rates
- > Reduced temperature in the contact area
- > Significantly extended service life



VSM CERAMICS

- > Top product with **self-sharpening effect** for processing non-alloyed steels and stainless steels
- > High removal rate
- > Cool grinding allows longer contact times

VSM grain technologies for perfect surface finishes

NEW



VSM ILUMERON

- > **Full faced coated long-term abrasive** with special bonding
- > For fine and consistent surfaces with high gloss levels
- > Developed primarily for processing stainless steels, superalloys and non-alloyed steels



VSM COMPACTGRAIN Plus

- > **Long-term abrasive** that wears down uniformly to the backing material, achieving a consistent surface finish
- > Optimised reserve grain capacity
- > Improved bonding properties
- > Continuous self-sharpening thanks to the granulate structure



VSM COMPACTGRAIN

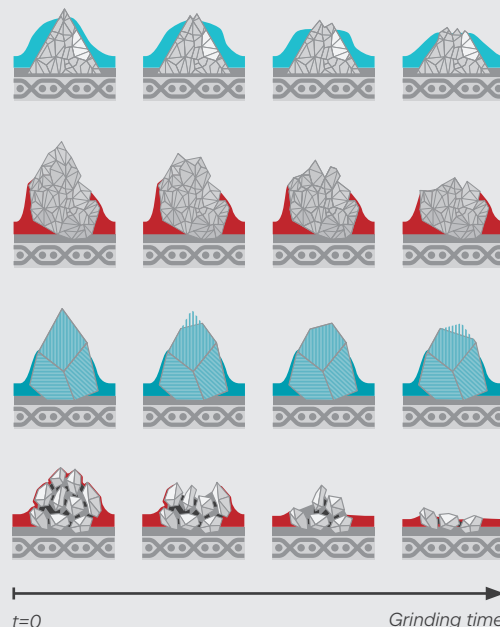
- > **Long-term abrasive** achieves reproducible surface finishes and consistent roughness
- > Uniform stock removal
- > Continuous self-sharpening thanks to the granulate structure

The VSM self-sharpening concept

The microcrystalline structure of the **VSM CERAMICS Plus** and **VSM CERAMICS** grain accounts for a more subtle breaking down of the grain and constantly produces sharper edges. This is what we call the optimized self-sharpening effect.

Aluminium oxide and zirconium oxide are finely dispersed throughout the microstructure of the **VSM ZIRCONIA ALUMINA**. The two materials break down in turn during the grinding process.

The long-term abrasives **VSM COMPACTGRAIN Plus** and **VSM COMPACTGRAIN** stand for a compact unit which consists of numerous abrasive grains. The used grains are torn out by the cutting forces involved whereby unused grain tips are being exposed.



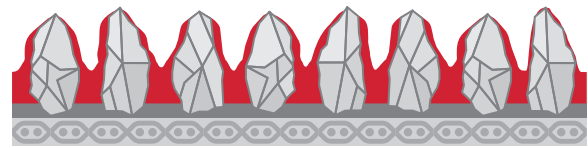
Types of coating

Different types of coating are used in order to benefit as much as possible from the grain properties and the space between the grains for chip removal. VSM uses standard, combination and open types of coating.

In a **Standard coating** the grain is bonded to the maker coat with the grain in an upright position. The gap between the grains may be narrow (closed coating density) or medium (coating density medium closed).

When applying a **Combi coating** supporting grains are placed in the gaps between the grains in order to retain the grain in position. This type of coating works best for applications where a machine limits the contact pressure.

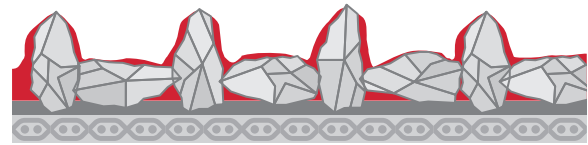
In an **Open coating** the grain is again in an upright position on the backing. However, the spacing between the abrasive grains is much bigger. The pressure spreads onto fewer grains so that the individual grain has to absorb much more of it. This in turn enhances the self-sharpening effect (page 29) and improves the chip removal.



Standard coating, closed-coated



Standard coating, medium closed-coated



Combi coating



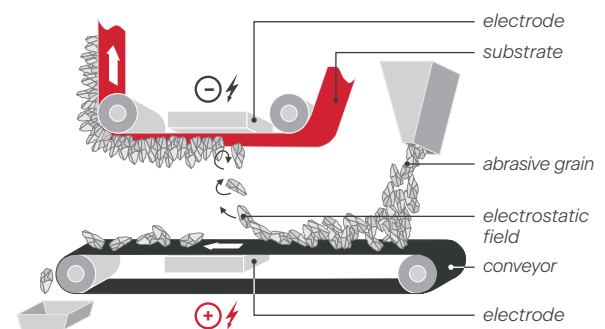
Open coating

Coating techniques

The orientation of the grains is decisive for the surface quality of the workpiece. VSM uses two different coating techniques to properly orientate the grains: **electrostatic coating** and **mechanical coating**.

The electrostatic coating process is a method where the grains are not scattered onto a substrate. They move upwards and accelerate towards the substrate while travelling through an electrostatic field. During this process the grains are oriented to achieve an upright position, in which they are bonded to the substrate. VSM

has its own facilities to integrate this process in-house. The result is a product with maximum sharpness.



The principle of electro static coating

4 Size coat

The size coat ensures proper anchoring of the abrasive grain. While the maker coat only adheres the grain to the backing, the size coat unites with the maker coat and ensures the fi-

nal anchoring of the grain and the proper total adhesive level. VSM adds fillers to its products which have a cooling effect and improve the efficiency of the abrasive.

5 Additional grinding active layer

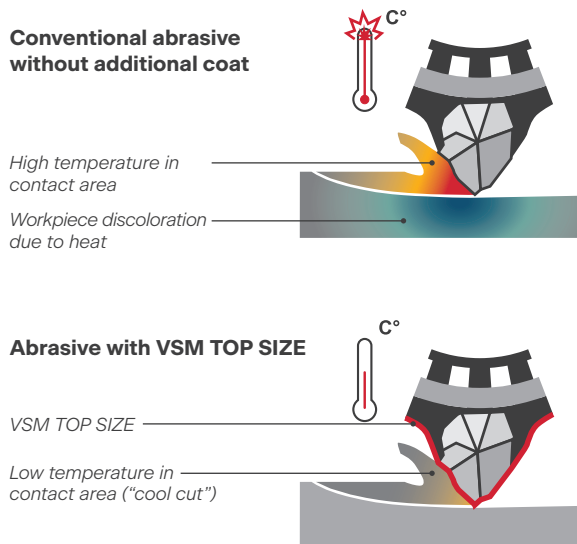
TOP SIZE

The **VSM TOP SIZE** coat is recommended for dry grinding of heat-resistant stainless steels and non-ferrous metals. Thanks to the additional layer with its grinding-inducing additives, the cutting performance is improved whilst the temperature in the contact area is reduced. In addition, the service life of the abrasive is dramatically enhanced.

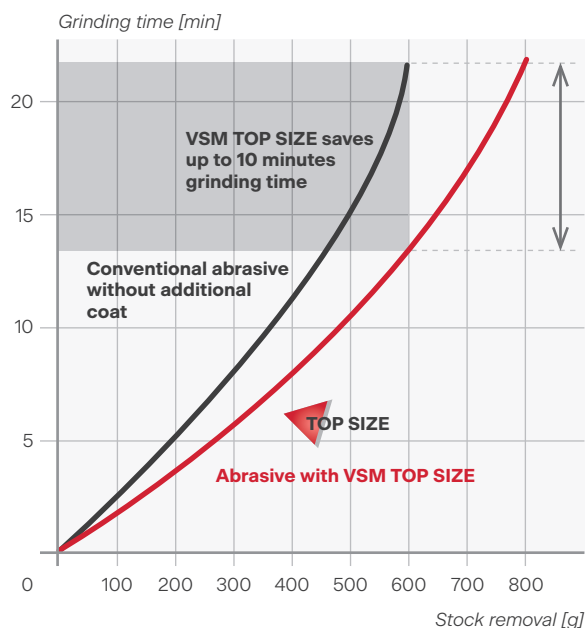
ALU-X

The **VSM ALU-X** additional layer reduces chip adhesion and thus reduces clogging of the abrasive. The service life is assured and extended so that excellent stock removal is achieved even after longer periods of use.

VSM CERAMICS with **ALU-X** is ideal for rough grinding applications. **VSM ALUMINUM OXIDE** abrasive belts with **ALU-X** produce a matte scratch pattern and are real all-rounders.



VSM specifications cloth (Stainless steel grinding)





VSM belts

Possible applications

- > Slack of belt grinding, grinding with contact shoe or contact wheel
- > Dry or wet grinding
- > Defined surface finishes in coil and sheet metal grinding
- > Removal of sprues and runners
- > Deburring
- > Smoothing and levelling of welds, spot welding and braze points
- > Edge and flat surface grinding
- > Removal of surface imperfections

Your advantages

- > Customised dimensions
- > Different types of belt joints – tailored to the application in question
- > High tear resistance and edge rigidity
- > Stretch-resistant



Minimum order quantities

for manufactured products (F-Types)

Shapes/Dimensions	Cloth	Paper	Non-woven
Conical sleeves	500 pcs	–	–
File belts Width up to 20 mm Length up to 760 mm	300 pcs	–	50 pcs
Rings Width up to 60 mm Length up to 377 mm	300 pcs	–	50 pcs
Short belts Length 1,000 mm or less	50 pcs	50 pcs	30 pcs
Narrow belts Width up to 300 mm Length 1,001 to 4.500 mm	20 pcs	30 pcs	5 pcs
Master belts Width 301 to 499 mm Length 1,600 +	20 pcs	30 pcs	5 pcs
Long belts Width up to 499 mm Length 4,501 mm +	20 pcs	20 pcs	5 pcs
Wide belts Width 500 mm +*)	5 pcs	10 pcs	2 pcs

*) Cloth up to 1.450 mm width, paper up to 1.420 mm width, non-woven up to 970 mm width

Dimensional tolerances

Belt width	Width tolerance
up to 20 mm	± 0,5 mm
21 mm to 50 mm	± 1 mm
51 mm to 1,000 mm	± 2 mm
1,001 mm +	± 3 mm

Belt length	Length tolerance
30 mm to 236 mm	0 mm to -1 mm
237 mm to 377 mm	0 mm to -2 mm
378 mm to 720 mm	± 2 mm
721 mm to 1,000 mm	± 3 mm
1,001 mm to 4,000 mm	± 5 mm
4,000 mm +	± 10 mm

Belt joints

VSM provides belts with a range of different types of belt joints to suit various machines and applications. Below you will find the most

common types listed. If you require more specific information about any of the joints listed below, please do not hesitate to contact us.

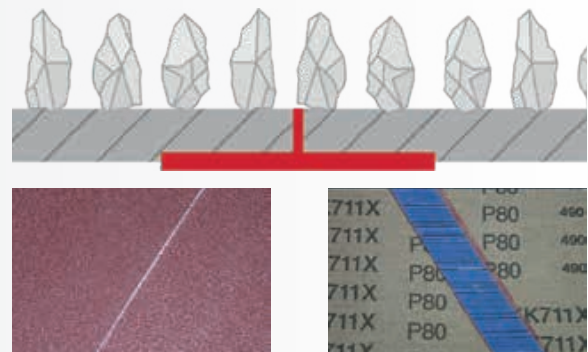
Belt joints with tape on the reverse

E07 for cloth backings

Our standard belt joint for abrasive belts with cloth backings

Straight cut. Ends are joined by means of a strip of tape on the reverse side of the belt.

Stable and sturdy standard type of joint suitable for all geometries. The E07 joint is mainly used for cloth belts and lends itself to almost any application.

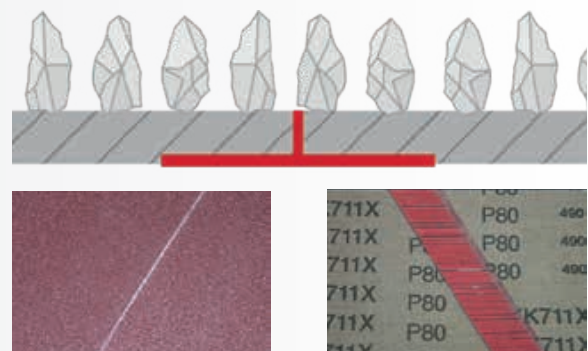


E08 for paper and cloth backings

Our thin standard belt joint for abrasive belts with paper and cloth backings

Straight cut. Ends are joined by means of a strip of tape on the reverse side of the belt.

Belt joint for a gentle removal of material in the contact zone, ensures a quiet grinding operation. The right joint for wide and narrow belts on a cloth backing.



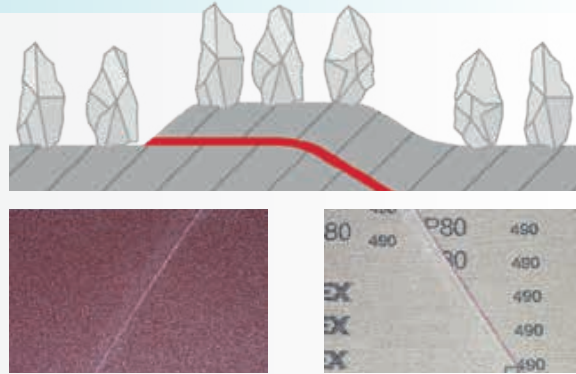
Belt joint overlaps

E13 for cloth backings

Straight cut. Both ends overlap.

This joint is mainly used for wide and narrow belts for flat grinding operations.

Our belt joint for abrasive belts with cloth backings

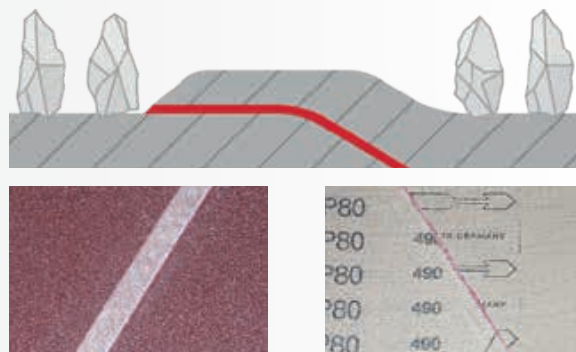


E14 for cloth backings

Straight cut. Both ends overlap, top-skived.

Suitable for flat grinding applications involving the use of a contact shoe. E14 is primarily used for woodworking.

Our belt joint for abrasive belts with cloth backings

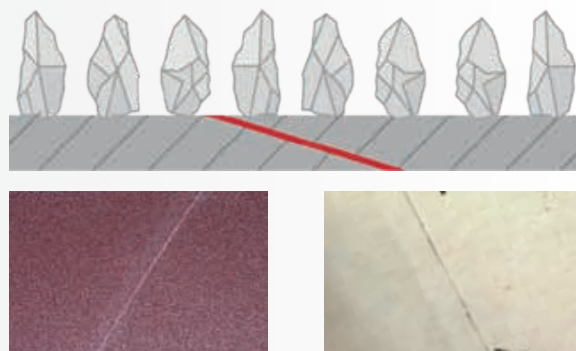


E13 for paper backings

Straight cut. Both ends overlap.

This joint is mainly used for wide and narrow belts on paper backings for flat grinding operations.

Our belt joint for abrasive belts with paper backings



Other belt joints are available on request.

The right belt for your machine

Brand	Type	W×L in mm
AEG	HBS1000E	12 × 305
	BBSE1100	100 × 560
Atlas Copco	G2403 Pro Bandschleifer	10 × 330
	G2404 Pro Bandschleifer	20 × 250
ATA	RAL20L	12 × 305
	BL16L	20 × 480
Black & Decker	KA 88	75 × 533
	KA 900 E	13 × 457
	KA 86	75 × 457
Bosch	GVS 350 AE	40 × 303
	PVS 300 AE	40 × 303
	PBS 60	60 × 400
	PBS 60 E	60 × 400
	GBS 75 AE	75 × 533
	PBS 75 A	75 × 533
	PBS 75 AE	75 × 533
	PBS 75 E	75 × 533
	PBS 7 A	75 × 457
	PBS 7 AE	75 × 533
De Walt	DW650	100 × 560
	DW650E	100 × 560
	DW432	75 × 533
	DW433	75 × 533
	DW433	75 × 533
Dynabrade	40352	13 × 457
	40353	13 × 457
	40320	13 × 457
	40321	13 × 457
	40324	13 × 457
	40335	13 × 457
	40381	13 × 457
	15300	13 × 457
	15400	13 × 457
	40326	6 × 520 12 × 520 16 × 520
	40330, 40503, 40615	6 × 520 12 × 520 16 × 520
	15360, 15420, 14000	6 × 610 12 × 610
	15401	12 × 520 16 × 560 20 × 520
	15003	3 × 305 6 × 305 9 × 305 12 × 305

Brand	Type	W×L in mm	
Fein / Grit	GX 75 / 75 2H	75 × 2000	
	GXC	75 × 2000	
	GI 75 (2H) / GI 150 (2H)	75 × 2000	
	GIS 75	75 × 2000	
	GIC, GIM	75 × 2000 150 × 2000	
	GI 100	100 × 1000	
	GXR	75 × 2250	
	GIL, GIS 150	150 × 2000	
	BF10-280E	3 × 520 6 × 520 12 × 520 16 × 520 20 × 520	
	RS10-70E	12 × 520 16 × 520 20 × 520 30 × 533	
	Festool	BS75	75 × 533
		BS 105	100 × 620
Flott	BSM 75 / 75A	75 × 2000	
	BSM 150 / 150A	150 × 2000	
	PBS 75 A	75 × 1000	
Güde	BTS 4000 ECO	100 × 920	
	BTS 4000	100 × 920	
Hitachi	SB10V2	100 × 610	
Makita	9910	75 × 457	
	9911	75 × 457	
	9902	75 × 533	
	9903	75 × 533	
	9920	75 × 610	
	9404J	100 × 610	
	9403	100 × 610	
	9031	30 × 533	
9032	30 × 533		
Metabo	BF 18 LTX 90	13 × 457	
	RB 18 LTX 90	30 × 533	
	BFE 9-90	13 × 457	
	BAE 75	75 × 533	
Milwaukee	BS 100 LE	100 × 620	
	HBSE 75 S	75 × 533	
PFERD	PBS 3 / 200 DH 99,	3 × 305 6 × 305	
	PWS 3 / 200 DH + BSVH 25,5	9 × 305 12 × 305	
	PBSA 5 / 160 HV 925	3 × 520 6 × 520 12 × 520 16 × 520 20 × 520 6 × 610 12 × 610	

Brand	Type	W×L in mm
PFERD (Cont.)	PBS 5 / 155 HV	6 × 610
		10 × 480
		16 × 480
		20 × 480
		25 × 480
	UBS 5 / 100 SI 925	3 × 520
		6 × 520
		12 × 520
		16 × 520
		20 × 520
	UBS 5 / 70 SI-R	6 × 610
		12 × 610
		30 × 533
		30 × 610
35 × 450		
BSG 10 / 35E	50 × 450	
	50 × 450	
BSG 10 / 50E	40 × 505	
	40 × 505	
WT 7 E M14 + BSVH 41, WZ 7 B + BSVH 36, WZ 10 B + BSVH 36	3 × 520	
	6 × 520	
	12 × 520	
	16 × 520	
	20 × 520	
WZ 4 A + BSVH 24	6 × 610	
	3 × 305	
	6 × 305 9 × 305 12 × 305	
Proxxon	BS / E	10 × 330
Rexon	BD480A	100 × 920
	BD460M	100 × 920
Rodac	RC 8430	10 × 330
	RC 8440	20 / 520
Ryobi	EBS800V	75 × 533
	EBS1310VFHG	100 × 610
SCANTOOL	SC 75	75 × 2000
	SC 150	150 × 2000
Scheppach	ksm 2500	150 × 2500
	ksm 2000	150 × 2000
	bts 800	100 × 920
SKIL	1215AA	75 × 457
	1210AA	75 × 457
Suhner	UBK 6-R	35+50 × 450
	UTG 9-R	30 × 610
	UTC 7-R	30 × 533
	LBH 7 D 35	35 × 450
	LBH 7 D 50	50 × 450
	UBC 10-R, LBC 16 H, WB 10, WB 7	6 × 520 12 × 520
	LBB 20 DH, WB 4	6 × 305 12 × 305
	FTM	30 × 610
	BSG 10 / 50	50 × 450
	BSG 10 / 35	35 × 450
Triton	TA 1200BS	75 × 533

No responsibility is taken for the correctness of this information.

Recommended products

Backstand



Material	Stock removal rate	Series	Grain technology	Backing	Features	Grit size	Contact pressure	From page
Stainless steel	▲▲▲	AK890Y	VSM ACTIROX	Cloth	▼ TOP SIZE, ⦿	36+	○	49
	▲▲	XK880Y	VSM CERAMICS Plus	Cloth	▼ TOP SIZE, ⦿	20 – 120	⊙	77
	▲	XK870X	VSM CERAMICS	Cloth	▼ TOP SIZE, ⦿	24 – 120	⊙	74
Unalloyed steel	▲▲▲	XK785Y	VSM CERAMICS Plus	Cloth	⦿	36 – 80	●	70
	▲▲	XK760X	VSM CERAMICS	Cloth	⦿	24 – 120	⊙	68
	▲	ZK713X	VSM ZIRCONIA ALUMINA	Cloth	⦿ (24–150)	24 – 320	○	79
NF-metals (aluminium, brass, copper...)	▲▲▲	XK885Y	VSM CERAMICS Plus	Cloth	▼ TOP SIZE, ⦿	20 – 120	●	78
	▲▲	XK733X	VSM CERAMICS	Cloth	ALU-X ⦿	24 – 120	⊙	67
	▲	XK870F	VSM CERAMICS	Cloth	▼ TOP SIZE	60 – 400	⊙	72

Flat grinding



Material	Stock removal rate	Series	Grain technology	Backing	Features	Grit size	Contact pressure	From page
Stainless steel	▲▲▲	RK700X	VSM ILUMERON	Cloth	⦿	120 – 1200	⊙	66
	▲▲	KK791Y	VSM COMPACTGRAIN Plus	Cloth	⦿	80 – 800	⊙	64
	▲	KK772J	VSM COMPACTGRAIN	Cloth	⦿	80 – 1200	○	61
Unalloyed steel	▲▲▲	RK700X	VSM ILUMERON	Cloth	⦿	120 – 1200	⊙	65
	▲▲	KK791Y	VSM COMPACTGRAIN Plus	Cloth	⦿	80 – 800	⊙	64
	▲	KK772J	VSM COMPACTGRAIN	Cloth	⦿	80 – 1200	○	61
NF-metals (aluminium, brass, copper...)			Contact us to find out more!					

Centerless



Material	Stock removal rate	Series	Grain technology	Backing	Features	Grit size	Contact pressure	From page
Stainless steel	▲▲▲	RK700X	VSM ILUMERON	Cloth	⦿	120 – 1200	⊙	66
	▲▲	KK790Y	VSM COMPACTGRAIN Plus	Cloth	⦿	60 – 600	●	63
	▲	KK718X	VSM COMPACTGRAIN	Cloth	⦿	60 – 600	●	60
Unalloyed steel	▲▲▲	RK700X	VSM ILUMERON	Cloth	⦿	120 – 1200	⊙	66
	▲▲	KK790Y	VSM COMPACTGRAIN Plus	Cloth	⦿	60 – 600	●	63
	▲	KK712X	VSM COMPACTGRAIN	Cloth	⦿	80 – 600	⊙	59
NF-metals (aluminium, brass, copper...)			Contact us to find out more!					

Errors and omissions excepted. For special requirements, please contact your VSM application engineer.

Features:

- for low to medium contact pressure
- ⊙ for medium contact pressure
- for medium to high contact pressure
- ⦿ also suitable for wet application

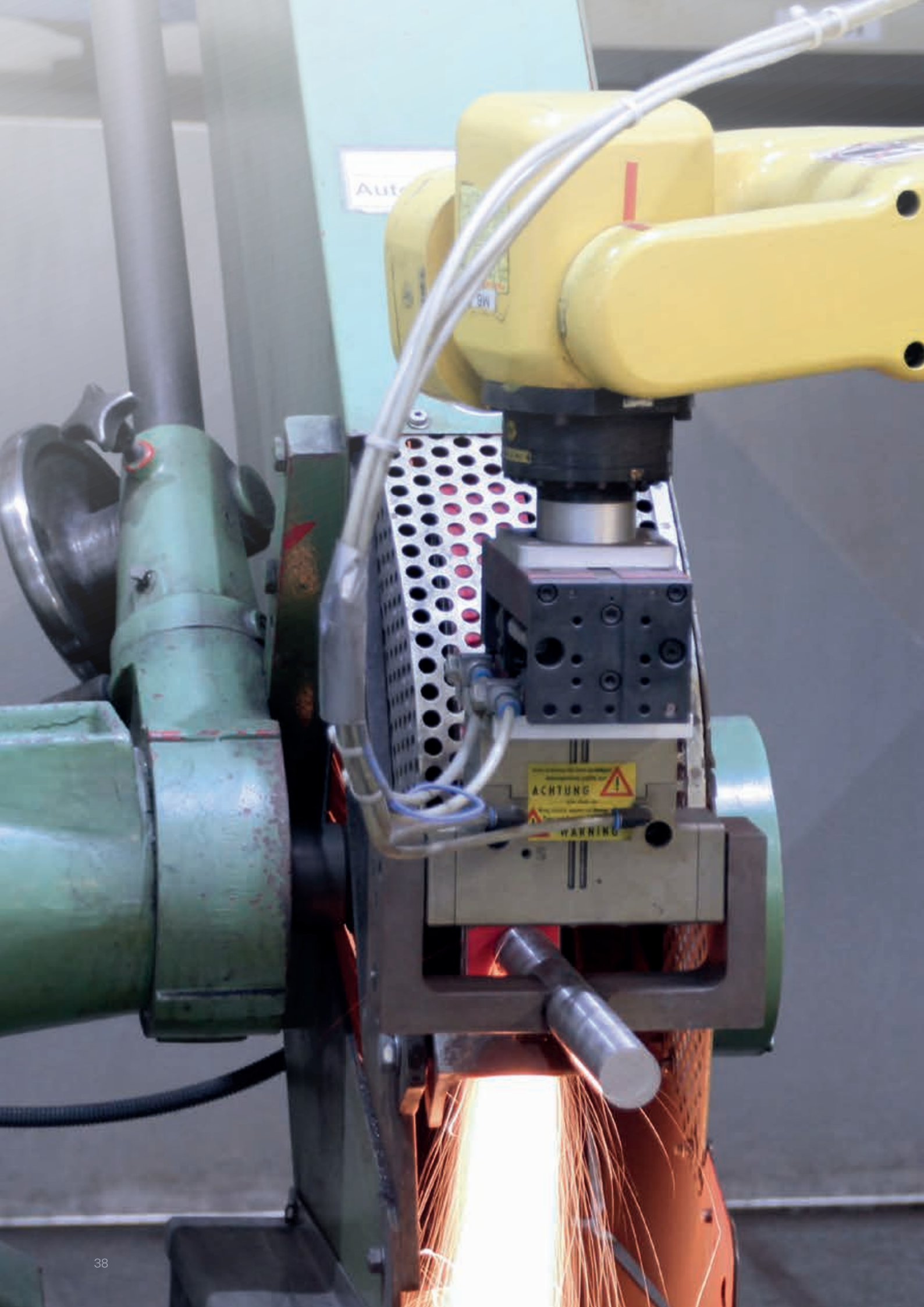
Flexibility of the backing material (last letter of the series name):

- E extremely flexible
- F very flexible
- J flexible
- T semi-sturdy
- X sturdy
- Y very sturdy
- Z extremely sturdy

▼ TOP SIZE Grinding-active additional layer reduces the temperature in the grinding zone



The combination of VSM CERAMICS and ALU-X significantly reduces chip adhesion



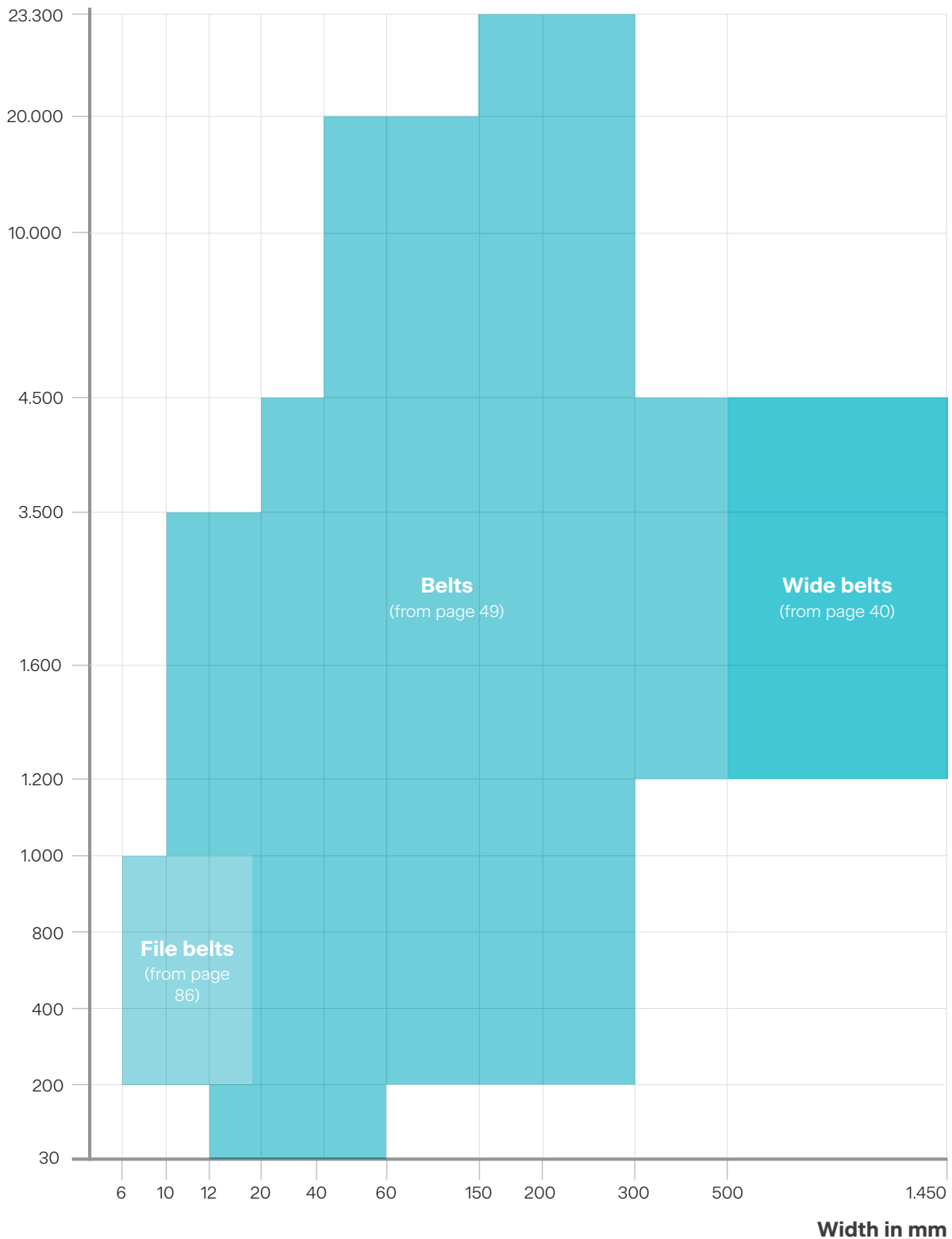
Auto

8W

ACHTUNG
WARNING

Belt classifications

Length in mm



Other dimensions upon request.

CK721X



VSM SILICON CARBIDE

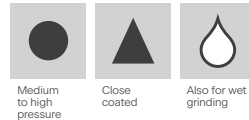


Bonding	Full-resin bonded
Colour	Black
Backing	X-Polyester (P24–P180) X-Cotton (P220–P600)
Flexibility	Sturdy

Materials



Features



Universally usable silicon carbide abrasive belt with high cutting capacity and wide range of grit sizes. Achieves a fine scratch pattern and ensures particularly brilliant gloss levels (high gloss unit). Since CK721X is oil- and water-resistant, the gloss level can be further increased by using grinding oils.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
768862	E07	1350	2620	24	F	3	6
768863	E07	1350	2620	36	F	3	6
716716	E07	1350	2620	40	F	3	6
781527	E07	1350	2620	50	F	3	6
764377	E07	1350	2620	60	F	5	5
743918	E07	1350	2620	80	F	5	5

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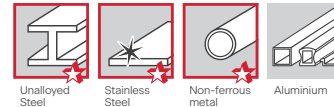
KK711X



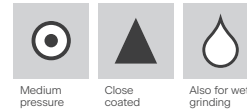
VSM ALUMINIUM OXIDE

Bonding	Full-resin bonded
Colour	Red-brown
Backing	X-Polyester (P20–P80) X-Cotton (P100–P400)
Flexibility	Sturdy

Materials



Features



Universal, high-performance aluminium oxide abrasive with a sturdy polyester or cotton cloth backing. The wide range of grit sizes makes it an excellent all-rounder: It can be used for deburring work with the P24, for example after laser cutting or water jet cutting. It also withstands extreme stresses, caused by sharp edges or sharp burrs, for example, and can also be used for polishing work with the P400.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
742728	E07	1370	2620	60	F	5	5
713025	E07	1370	2620	80	F	5	5
750617	E07	1370	2620	120	F	5	5
724443	E07	1370	2620	150	F	5	5
744443	E07	1370	2620	180	F	5	5
743447	E07	1370	2620	220	F	10	10
730068	E07	1370	2620	240	F	10	10
730071	E07	1370	2620	320	F	10	10
711160	E07	1370	2620	400	F	10	10

KK718X



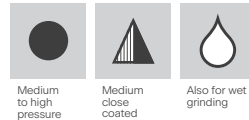
VSM COMPACTGRAIN (AO)

Bonding	Full-resin bonded
Colour	Red-brown
Backing	X-Polyester
Flexibility	Sturdy

Materials



Features



KK718X is ideal for centreless grinding of tubes and bars, or wire grinding on planetary grinding machines; with medium to high contact pressure. This long-term abrasive also excels when grinding flat steel in a throughfeed process. It creates a uniform scratch pattern and consistent surface roughness throughout its entire, very long service life.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
769232	E07	630	2620	80	F	3	6
736687	E07	630	2620	120	F	3	6
736705	E07	630	2620	180	F	3	6
772405	E07	630	2620	240	F	3	6
772406	E07	630	2620	320	F	3	6
746394	E07	630	2620	400	F	3	6
772409	E07	630	2620	600	F	3	6

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RK700X



VSM ILUMERON

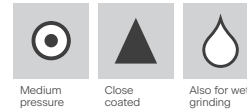


Bonding	Special bonded
Colour	Anthracite
Backing	X-Polyester
Flexibility	Sturdy

Materials



Features



ILUMERON

With RK700X, grinding and polishing can take place in a single processing step. This significantly increases productivity. The long-term abrasive also achieves a consistent surface quality within extremely tight tolerances. Thanks to the special manufacturing process, the abrasive grains are evenly distributed and wear down across the entire surface in a controlled manner. This prevents unwanted grinding grooves in the workpiece.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
709115	E08	630	2620	180	F	3	6
709116	E08	630	2620	240	F	3	6
750117	E08	630	2620	320	F	3	6
709118	E08	630	2620	400	F	3	6
709120	E08	630	2620	600	F	3	6
709121	E08	630	2620	800	F	3	6
709122	E08	630	2620	1000	F	3	6
709129	E08	630	2620	1200	F	3	6

XK870X

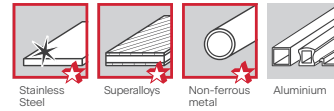


VSM CERAMICS

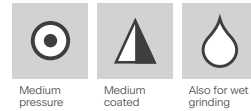


Bonding	Full-resin bonded
Colour	Red
Backing	X-Polyester
Flexibility	Sturdy

Materials



Features



Universal ceramic-grain workshop belt for a wide range of applications. Ideal for pre-sharpening knives. The additional TOP SIZE grinding-active layer also enables dry processing of stainless steel, since it significantly reduces the temperature in the grinding zone. A good alternative to XK760X when machining superalloys and stainless steels.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
733881	E07	1370	2150	24	F	2	6
748941	E07	1370	2150	40	F	3	6
788567	E07	1370	2150	60	F	3	6
733883	E07	1370	2150	80	F	3	6
733886	E07	1370	2150	120	F	5	5

ZK713X



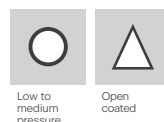
VSM ZIRCONIA ALUMINA

Bonding	Special bonded
Colour	Blue
Backing	X-Polyester (24–P150) X-Cotton (P180–P320)
Flexibility	Sturdy

Materials



Features



The ideal workshop grinding belt for daily use with different workpieces and materials. Versatile use on various machines for dry grinding, for example when deburring sheets. High stock removal rates even with low contact pressure.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
790117	E07	1380	1900	36	F	3	6
726422	E07	1380	1900	40	F	3	6
765797	E07	1380	1900	60	F	5	5
765798	E07	1380	1900	80	F	5	5
796556	E07	1380	1900	100	F	5	5
727565	E07	1380	1900	120	F	5	5
738965	E07	1380	1900	150	F	5	5
786504	E07	1380	1900	180	F	5	5
760414	E07	1380	1900	220	F	10	10
727562	E07	1380	1900	240	F	10	10
741539	E07	1380	1900	320	F	10	10

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CP501



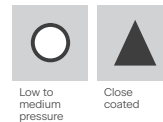
VSM SILICON CARBIDE

Bonding	Full-resin bonded
Colour	Black
Backing	E-Paper

Materials



Features



CP501 achieves surfaces with high gloss levels. The use of grinding oils can intensify the gloss and achieve an even finer scratch pattern. Thanks to the heavy paper backing, the silicon carbide abrasive belt demonstrates perfect flatness.

Fineness range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
745612	E13	1350	2620	60	F	5	10
717344	E13	1350	2620	80	F	5	10
717345	E13	1350	2620	100	F	5	10
717346	E13	1350	2620	120	F	5	10
717348	E13	1350	2620	180	F	10	10
717349	E13	1350	2620	220	F	10	10
717351	E13	1350	2620	280	F	10	10
717352	E13	1350	2620	320	F	10	10
717353	E13	1350	2620	400	F	10	10

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XP780



VSM CERAMICS Plus

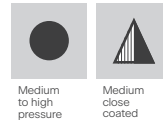


Bonding	Full-resin bonded
Colour	Red-brown
Backing	F-Paper

Materials



Features



XP780 combines the aggressiveness of the microcrystalline ceramic grain with a heavy, low-stretch paper backing. The optimised self-sharpening effect enables high cutting performance for rough work, such as the deburring of heavy plates, laser parts and punched parts. Suitable for long belt and wide belt applications with medium contact pressure.

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
799352	E13	1350	2620	60	F	5	10
760936	E13	1350	2620	80	F	5	10
760950	E13	1350	2620	100	F	5	10
768860	E13	1350	2620	120	F	5	10

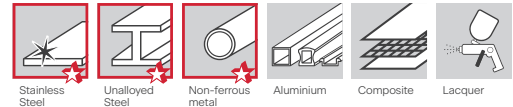
KV707X



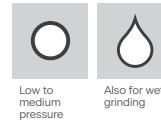
VSM NON-WOVEN (AO/SIC)

Bonding	Full-resin bonded
Colour	Coarse = brown (AO) Medium = red (AO) Very fine = blue (AO) Ultra fine = grey (SIC)
Backing	X-Polyester

Materials

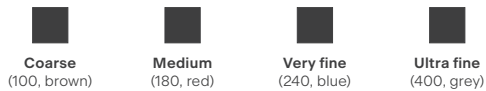


Features



Robust surface conditioning material with reinforced, low-stretch backing made of robust polyester. Wide range of applications: From deburring work to the final finishing of surfaces. Ideal for satin finishing sheets on wide belt machines or for use with cooling lubricants in centerless processes.

Fineness range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
761677	E07	930	1900	100	F	1	2
710135	E07	930	1900	180	F	1	2
718986	E07	930	1900	240	F	1	2
761740	E07	930	1900	400	F	1	2

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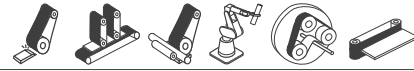
AK890Y ▶ TOP SIZE

NEW



VSM ACTIROX

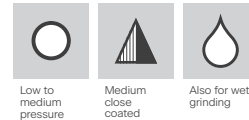
Bonding	Full-resin bonded
Colour	Petrol
Backing	Y-Polyester
Flexibility	Very sturdy



Materials



Features



ACTIROX

ACTIROX with geometrically shaped ceramic abrasive grain for maximum stock removal. An aggressive cut combined with low contact pressure results in less noise and vibration, and less strain for the machine and its operators. Faster grinding significantly reduces the machining time. The TOP SIZE coat results in a cool cut, which significantly reduces material waste and renders further reworking unnecessary.

Grit range:



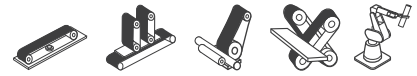
Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
709052	E07	50	2000	36+	L	10	10
755377	E07	50	2500	36+	F	10	20
794261	E07	50	3000	36+	F	10	20
709061	E07	50	3500	36+	L	10	10
709054	E07	75	2000	36+	L	10	10
754914	E07	75	2500	36+	F	10	20
753694	E07	75	3000	36+	F	10	20
709064	E07	75	3500	36+	F	10	20
777582	E07	100	2000	36+	F	10	20
753097	E07	100	2500	36+	F	10	20
784498	E07	100	3000	36+	F	10	20
783725	E07	100	3500	36+	F	10	20
709056	E07	150	2000	36+	L	10	10
708224	E07	150	2500	36+	F	10	20
780696	E07	150	3000	36+	F	10	20
709066	E07	150	3500	36+	F	10	20

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CK721X



VSM SILICON CARBIDE

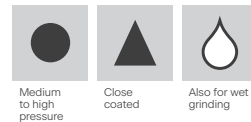


Bonding	Vollkunstharz
Colour	Schwarz
Backing	X-Polyester (P24–P180) X-Baumw. (P220–P600)
Flexibility	Robust

Materials



Features



Universally usable silicon carbide abrasive belt with high cutting capacity and wide range of grit sizes. Achieves a fine scratch pattern and ensures particularly brilliant gloss levels (high gloss unit). Since CK721X is oil- and water-resistant, the gloss level can be further increased by using grinding oils.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
745222	E07	30	533	60	F	20	60
700851	E07	30	533	80	F	20	60
700852	E07	30	533	100	F	20	60
700853	E07	30	533	120	F	20	60

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CK748X



VSM COMPACTGRAIN (SIC)



Bonding	Full-resin bonded
Colour	Red-brown
Backing	X-Polyester
Flexibility	Sturdy

Materials



Features



Especially suitable for applications with a small contact surface in the grinding zone. Ideal for cylindrical grinding operations and wire grinding with planetary grinding machines. Has a very long service life as a long-term abrasive with a continuous self-sharpening effect.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
751099	E07	100	2000	120	F	10	20
778596	E07	100	2000	180	F	10	20
701337	E07	100	2000	240	F	10	20
765682	E07	100	2000	320	F	10	20
765697	E07	100	2000	400	F	10	20
701371	E07	150	3500	80	F	5	20
701372	E07	150	3500	120	F	5	20
701373	E07	150	3500	180	F	5	20
701374	E07	150	3500	240	F	5	20
701375	E07	150	3500	320	F	5	20
701376	E07	150	3500	400	F	5	20

CK772T



VSM COMPACTGRAIN (SIC)

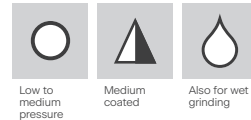


Bonding	Full-resin bonded
Colour	Grey
Backing	T-Polyester
Flexibility	Semi-sturdy

Materials



Features



CK772T creates fine surfaces; for example, when grinding welded tubes or when finishing knife blades. Thanks to the easily degrading reserve grains made of silicon carbide, the abrasive belt ensures a long service life and uniform surface roughness. Ideal for applications with soft contact elements or low contact pressure.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
707808	E07	150	2500	600	F	10	20
707810	E07	150	2500	800	F	10	20
728041	E07	150	2500	1200	F	10	20

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CK918X



VSM COMPACTGRAIN (SIC)

Bonding	Full-resin bonded
Colour	Black
Backing	X-Polyester
Flexibility	Sturdy

Materials



Features



Designed for surface finishing when grinding tubes and bars in a centreless process. CK918X is distinguished by a balanced combination of a long service life, uniform surface roughness, and high gloss levels. Thanks to the grain reserves, this long-term abrasive offers the benefits of reduced tool wear and fewer tool changes.

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
753616	E07	100	3500	240	F	10	20
731488	E07	100	3500	320	F	10	20
701419	E07	100	3500	400	F	10	20
701420	E07	100	3500	600	F	10	20
788050	E07	100	3500	800	F	10	20
726888	E07	100	3500	1000	F	10	20
799702	E07	100	3500	1200	F	10	20
723466	E07	150	2500	240	F	10	20
723467	E07	150	2500	320	F	10	20
701425	E07	150	2500	400	F	10	20
701426	E07	150	2500	600	F	10	20
701427	E07	150	2500	800	F	10	20
751166	E07	150	2500	1000	F	10	20
751167	E07	150	2500	1200	F	10	20
720468	E07	150	3500	240	F	5	20
720467	E07	150	3500	320	F	5	20
701433	E07	150	3500	400	F	5	20
701434	E07	150	3500	600	F	5	20
701435	E07	150	3500	800	F	5	20
751168	E07	150	3500	1000	F	5	20
701436	E07	150	3500	1200	F	5	20

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KK511F



VSM ALUMINIUM OXIDE

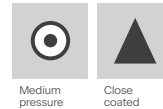


Bonding	Full-resin bonded
Colour	Red-brown
Backing	F-Cotton
Flexibility	Very flexible

Materials



Features



Universally applicable aluminium oxide abrasive belt with excellent cutting capacity. Good supplement to KK511J in the fine grit range. Ideal for machining tight radii and complex contours or fittings thanks to the highly flexible and adaptable backing. Can be used in manual grinding on backstands, in slack belt grinding, and in robot applications.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
783060	E07	50	3500	60	F	20	20
714102	E07	50	3500	80	F	20	20
794484	E07	50	3500	100	F	20	20
746491	E07	50	3500	120	F	20	20
772053	E07	50	3500	150	F	20	20
758407	E07	50	3500	180	F	20	20
780621	E07	50	3500	220	F	20	20
789626	E07	50	3500	240	F	20	20
732032	E07	50	3500	320	F	20	20
782066	E07	50	3500	360	F	20	20
732033	E07	50	3500	400	F	20	20
759089	E07	50	3500	500	F	20	20
792905	E07	50	3500	600	F	20	20

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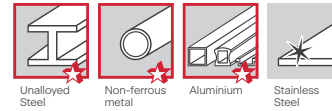
KK511J

VSM ALUMINIUM OXIDE

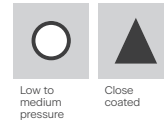


Bonding	Full-resin bonded
Colour	Red-brown
Backing	J-Cotton
Flexibility	Flexible

Materials



Features



Universally applicable abrasive belt with excellent cutting capacity. KK511J is a good alternative to KK511F when low contact pressure is required. Thanks to its adaptability, it is ideal for processing contours and for edge grinding.

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
770457	E07	50	3500	60	F	20	20
748534	E07	50	3500	80	F	20	20
751369	E07	50	3500	120	F	20	20
768892	E07	50	3500	150	F	20	20
748127	E07	50	3500	180	F	20	20
748589	E07	50	3500	220	F	20	20
742209	E07	50	3500	240	F	20	20
701902	E07	50	3500	280	F	20	20
701903	E07	50	3500	320	F	20	20
763955	E07	50	3500	400	F	20	20
707407	E07	50	3500	500	F	20	20
751388	E07	100	3500	60	F	20	20
701946	E07	100	3500	80	F	20	20
747588	E07	100	3500	100	F	20	20
701947	E07	100	3500	120	F	20	20
701948	E07	100	3500	150	F	20	20
701949	E07	100	3500	180	F	20	20
795141	E07	100	3500	240	F	20	20
782338	E07	100	3500	280	F	20	20
751341	E07	100	3500	320	F	20	20
747591	E07	100	3500	400	F	20	20
739468	E07	100	3500	500	F	20	20

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Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

KK711X

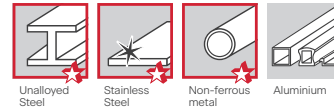


VSM ALUMINIUM OXIDE

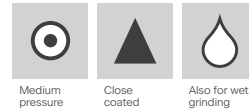


Bonding	Full-resin bonded
Colour	Red-brown
Backing	X-Polyester (P20–P80) X-Cotton (P100–P400)
Flexibility	Sturdy

Materials



Features



Universal, high-performance aluminium oxide abrasive with a sturdy polyester or cotton cloth backing. The wide range of grit sizes makes it an excellent all-rounder: It can be used for deburring work with the P24, for example after laser cutting or water jet cutting. It also withstands extreme stresses, caused by sharp edges or sharp burrs, for example, and can also be used for polishing work with the P400.

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
731478	E07	30	533	40	F	20	60
702637	E07	30	533	60	F	20	60
702638	E07	30	533	80	F	20	60
702639	E07	30	533	100	F	20	60
731479	E07	30	533	120	F	20	60
708379	E13	50	2000	40	L	10	10
708381	E13	50	2000	60	L	10	10
708382	E13	50	2000	80	L	10	10
708384	E13	50	2000	120	L	10	10
708386	E13	50	2000	180	L	10	10
708421	E13	50	2500	40	L	10	10
708422	E13	50	2500	50	F	10	20
708423	E13	50	2500	60	F	10	20
708424	E13	50	2500	80	F	10	20
708426	E13	50	2500	120	F	10	20
769906	E07	50	3500	24	L	10	10
702698	E07	50	3500	40	L	10	10
734793	E07	50	3500	50	F	10	20
702699	E07	50	3500	60	F	10	20
702700	E07	50	3500	80	F	10	20
702701	E07	50	3500	120	F	10	20

(continued on page 57)

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Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

KK711X

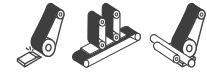
(continued from page 56)

Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
708685	E13	75	2000	36	F	10	20
708686	E13	75	2000	40	L	10	10
708688	E13	75	2000	60	L	10	10
708689	E13	75	2000	80	L	10	10
708690	E13	75	2000	100	L	10	10
708691	E13	75	2000	120	L	10	10
708692	E13	75	2000	150	F	10	20
708693	E13	75	2000	180	L	10	10
708694	E13	75	2000	220	F	10	20
708695	E13	75	2000	240	L	10	10
708696	E13	75	2000	280	F	10	20
708697	E13	75	2000	320	F	10	20
708698	E13	75	2000	400	F	10	20
763768	E14	100	1000	40	L	10	10
715752	E14	100	1000	60	L	10	10
757587	E14	100	1000	80	L	10	10
715753	E14	100	1000	100	L	10	10
715754	E14	100	1000	120	L	10	10
709206	E13	150	2000	40	L	10	10
709208	E13	150	2000	60	L	10	10
709209	E13	150	2000	80	L	10	10
709210	E13	150	2000	100	L	10	10
709211	E13	150	2000	120	L	10	10

KK711Y



VSM ALUMINIUM OXIDE

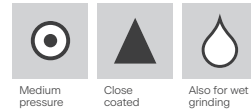


Bonding	Full-resin bonded
Colour	Red-brown
Backing	Y-Polyester (P36–P180) Y-Cotton (P220–P500)
Flexibility	Very sturdy

Materials



Features



Aluminium oxide abrasive belt for all types of application. Thanks to the very robust polyester backing, KK711Y offers high edge stability when applying low to medium contact pressure. Ideal complement to KK711X, if an even more robust backing is needed.

Grit range:



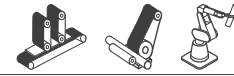
Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
732059	E07	150	2500	60	F	10	20
703076	E07	150	2500	80	F	10	20
703077	E07	150	2500	100	F	10	20
703079	E07	150	2500	180	F	10	20
751851	E07	150	2500	280	F	10	20
703082	E07	150	2500	320	F	10	20
703084	E07	150	3000	60	F	10	20
744457	E07	150	3000	120	F	10	20
702207	E07	150	3000	150	F	10	20
723540	E07	150	3000	180	F	10	20
732583	E07	150	3000	220	F	10	20
776973	E07	150	3000	240	F	10	20
732587	E07	150	3000	280	F	10	20
776974	E07	150	3000	320	F	10	20
732588	E07	150	3000	400	F	10	20
732593	E07	150	3000	500	F	10	20
712533	E07	150	3500	40	F	10	20
787484	E07	150	3500	60	F	10	20
702147	E07	150	3500	100	F	10	20
703093	E07	150	3500	120	F	10	20
703094	E07	150	3500	150	F	10	20
703620	E07	150	3500	180	F	10	20
703096	E07	150	3500	240	F	10	20
733693	E07	150	3500	280	F	10	20
703097	E07	150	3500	320	F	10	20
703619	E07	150	3500	400	F	10	20

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KK712X



VSM COMPACTGRAIN (AO)



Bonding	Full-resin bonded
Colour	Brown
Backing	X-Polyester
Flexibility	Sturdy

Materials



Features



KK712X is particularly suitable for flat grinding applications and for grinding operations with medium contact pressure. This long-term abrasive has the advantages of short initial grinding times, continuous self-sharpening, reduced tool wear, and thus fewer tool changes.

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
736834	E07	100	2500	80	F	10	20
703274	E07	100	2500	120	F	10	20
703275	E07	100	2500	180	F	10	20
745988	E07	100	2500	240	F	10	20
736833	E07	100	2500	320	F	10	20
703276	E07	100	2500	400	F	10	20
736832	E07	100	2500	600	F	10	20
703277	E07	100	3500	80	F	10	20
751937	E07	100	3500	120	F	10	20
751938	E07	100	3500	180	F	10	20
799191	E07	100	3500	240	F	10	20
765377	E07	100	3500	320	F	10	20
799192	E07	100	3500	400	F	10	20
762238	E07	100	3500	600	F	10	20
729307	E07	150	2500	80	F	10	20
703285	E07	150	2500	120	F	10	20
703286	E07	150	2500	180	F	10	20
703287	E07	150	2500	240	F	10	20
703288	E07	150	2500	320	F	10	20
703289	E07	150	2500	400	F	10	20
703290	E07	150	2500	600	F	10	20
738460	E07	150	3500	80	F	5	20
731493	E07	150	3500	120	F	5	20
740556	E07	150	3500	180	F	5	20
703296	E07	150	3500	240	F	5	20
703297	E07	150	3500	320	F	5	20
703298	E07	150	3500	400	F	5	20
703299	E07	150	3500	600	F	5	20

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KK718X



VSM COMPACTGRAIN (AO)



Bonding Full-resin bonded

Colour Red-brown

Backing X-Polyester

Flexibility Sturdy

Materials



Features



KK718X is ideal for centreless grinding of tubes and bars, or wire grinding on planetary grinding machines; with medium to high contact pressure. This long-term abrasive also excels when grinding flat steel in a throughfeed process. It creates a uniform scratch pattern and consistent surface roughness throughout its entire, very long service life.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
703573	E07	100	3500	120	F	10	20
703574	E07	100	3500	180	F	10	20
703575	E07	100	3500	240	F	10	20
703576	E07	100	3500	320	F	10	20
717314	E07	100	3500	400	F	10	20
703578	E07	100	3500	600	F	10	20
703603	E07	150	2500	60	F	10	20
703604	E07	150	2500	80	L	5	5
703605	E07	150	2500	120	L	5	5
703606	E07	150	2500	180	L	5	5
703607	E07	150	2500	240	L	5	5
703608	E07	150	2500	320	L	5	5
703609	E07	150	2500	400	L	5	5
703610	E07	150	2500	600	L	5	5
703622	E07	150	3000	80	F	5	20
729155	E07	150	3000	120	F	5	20
703624	E07	150	3000	180	F	5	20
703625	E07	150	3000	240	F	5	20
703626	E07	150	3000	320	F	5	20
703627	E07	150	3000	400	F	5	20
703628	E07	150	3000	600	F	5	20

(continued on page 61)

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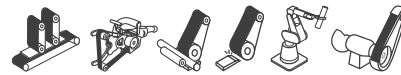
KK718X

(continued from page 60)

Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
703630	E07	150	3500	60	L	5	5
703631	E07	150	3500	80	F	5	20
703632	E07	150	3500	120	L	5	5
703633	E07	150	3500	180	L	5	5
703634	E07	150	3500	240	L	5	5
703635	E07	150	3500	320	L	5	5
703636	E07	150	3500	400	F	5	20
703637	E07	150	3500	600	L	5	5

KK772J

VSM COMPACTGRAIN (AO)

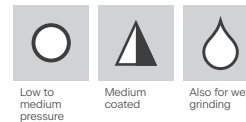


Bonding	Full-resin bonded
Colour	Grey
Backing	J-Polyester
Flexibility	Flexible

Materials



Features



Long-term abrasive for applications with low contact pressure or in combination with soft contact elements. The flexible backing enables the abrasive belt to mould well around contoured workpieces, such as punched parts. KK772J also achieves very good results in flat grinding when working with stainless steel and unalloyed steel.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
711274	E07	75	2000	80	F	10	20
771601	E07	75	2000	120	F	10	20
768345	E07	75	2000	180	F	10	20
768346	E07	75	2000	240	F	10	20
768351	E07	75	2000	320	F	10	20
768355	E07	75	2000	400	F	10	20
768356	E07	75	2000	600	F	10	20
768357	E07	75	2000	800	F	10	20
773707	E07	75	2000	1200	F	10	20

(continued on page 62)

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Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

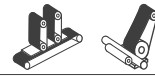
KK772J

(continued from page 61)

Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
764673	E07	100	3500	120	F	10	20
764674	E07	100	3500	180	F	10	20
770604	E07	100	3500	240	F	10	20
748672	E07	100	3500	320	F	10	20
771864	E07	100	3500	400	F	10	20
779510	E07	100	3500	600	F	10	20
779511	E07	100	3500	800	F	10	20
772517	E07	100	3500	1200	F	10	20
769382	E07	150	2500	120	F	10	20
769807	E07	150	2500	180	F	10	20
770101	E07	150	2500	240	F	10	20
770258	E07	150	2500	320	F	10	20
770479	E07	150	2500	400	F	10	20
747724	E07	150	2500	600	F	10	20
747725	E07	150	2500	800	F	10	20
773295	E07	150	2500	1000	F	10	20
773296	E07	150	2500	1200	F	10	20

KK790Y

VSM COMPACTGRAIN Plus

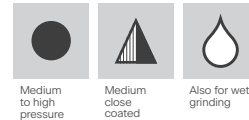


Bonding	Full-resin bonded
Colour	Red-brown
Backing	Y-Polyester
Flexibility	Very sturdy

Materials



Features



Latest generation of long-term abrasives with particularly large reserves of grain and with continuous self-sharpening effect. Developed for grinding tubes and bars in centreless processes and for wire grinding on planetary grinding machines – especially with high contact pressure. KK790Y allows an increase in feed speed in these applications.

Grit range:



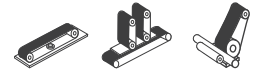
Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
739733	E07	150	2500	60	F	10	20
725673	E07	150	2500	80	F	10	20
716679	E07	150	2500	120	F	10	20
716673	E07	150	2500	180	F	10	20
747741	E07	150	2500	240	F	10	20
716709	E07	150	2500	320	F	10	20
716738	E07	150	2500	400	F	10	20
725982	E07	150	2500	600	F	10	20
717013	E07	150	3500	60	F	5	20
725804	E07	150	3500	80	F	5	20
751194	E07	150	3500	120	F	5	20
751195	E07	150	3500	180	F	5	20
765290	E07	150	3500	240	F	5	20
770478	E07	150	3500	320	F	5	20
727684	E07	150	3500	400	F	5	20
770481	E07	150	3500	600	F	5	20

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KK791Y



VSM COMPACTGRAIN Plus



Bonding Full-resin bonded

Colour Red-brown

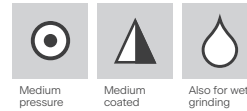
Backing Y-Polyester

Flexibility Very sturdy

Materials



Features



Latest generation of long-term abrasives, developed for applications with medium contact pressure. Ideal for flat grinding operations or pendulum grinding of welded tubes. Particularly when machining softer grade steels, a more even scratch pattern and a more uniform surface roughness are achieved.

Grit range:

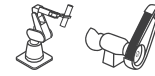


Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
709855	E07	150	2500	180	F	10	20
709865	E07	150	2500	240	F	10	20
709866	E07	150	2500	320	F	10	20
709874	E07	150	2500	400	F	10	20
709875	E07	150	2500	600	F	10	20
709879	E07	150	2500	800	F	10	20
709901	E07	150	3500	180	F	5	20
709902	E07	150	3500	240	F	5	20
709905	E07	150	3500	320	F	5	20
709907	E07	150	3500	400	F	5	20
709908	E07	150	3500	600	F	5	20
709909	E07	150	3500	800	F	5	20

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Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

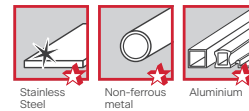
KK841F

VSM ALUMINIUM OXIDE

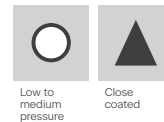


Bonding	Full-resin bonded
Colour	Red-brown
Backing	F-Cotton
Flexibility	Very flexible

Materials



Features



Aluminium oxide abrasive belt with TOP SIZE additional grinding-active layer. This reduces the temperature in the grinding zone and prevents discolouration of heat-sensitive materials such as stainless steel. The very flexible backing is ideal for manually machining highly contoured workpieces on backstands, when finishing knife blades, for example.

Grit range:

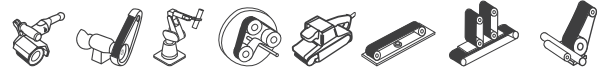


Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
781093	E07	50	3500	60	F	20	20
770412	E07	50	3500	80	F	20	20
704072	E07	50	3500	100	F	20	20
704073	E07	50	3500	120	F	20	20
704074	E07	50	3500	150	F	20	20
704075	E07	50	3500	180	F	20	20
745267	E07	50	3500	220	F	20	20
704076	E07	50	3500	240	F	20	20
784651	E07	50	3500	280	F	20	20
704078	E07	50	3500	320	F	20	20
752243	E07	50	3500	400	F	20	20

RK700X



VSM ILUMERON

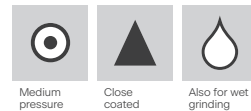


Bonding	Special bonded
Colour	Anthracite
Backing	X-Polyester
Flexibility	Sturdy

Materials



Features



ILUMERON

With RK700X, grinding and polishing can take place in a single processing step. This significantly increases productivity. The long-term abrasive also achieves a consistent surface quality within extremely tight tolerances. Thanks to the special manufacturing process, the abrasive grains are evenly distributed and wear down across the entire surface in a controlled manner. This prevents unwanted grinding grooves in the workpiece.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
708771	E08	150	2500	180	F	10	20
708772	E08	150	2500	240	F	10	20
708773	E08	150	2500	320	F	10	20
708774	E08	150	2500	400	F	10	20
708775	E08	150	2500	600	F	10	20
708776	E08	150	2500	800	F	10	20
708777	E08	150	2500	1000	F	10	20
708782	E08	150	2500	1200	F	10	20
782973	E08	150	3000	120	F	5	20
708783	E08	150	3000	180	F	5	20
708784	E08	150	3000	240	F	5	20
708790	E08	150	3000	320	F	5	20
708793	E08	150	3000	400	F	5	20
708794	E08	150	3000	600	F	5	20
708799	E08	150	3000	800	F	5	20
708803	E08	150	3000	1000	F	5	20
708808	E08	150	3000	1200	F	5	20
745233	E08	150	3500	120	F	5	20
708947	E08	150	3500	180	F	5	20
708952	E08	150	3500	240	F	5	20
708965	E08	150	3500	320	F	5	20
708967	E08	150	3500	400	F	5	20
708968	E08	150	3500	600	F	5	20
708969	E08	150	3500	800	F	5	20
708970	E08	150	3500	1000	F	5	20
708972	E08	150	3500	1200	F	5	20

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XK733X **ALU-X**

NEW



VSM CERAMICS

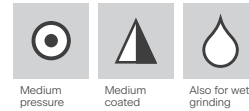
Bonding	Full-resin bonded
Colour	White
Backing	X-Polyester
Flexibility	Sturdy



Materials



Features



XK733X is a leader when it comes to machining aluminium and non-ferrous metals. The additional ALU-X layer and the semi-open coating result in reduced chip adhesion and optimised chip clearance. In addition, grease-free and oil-free grinding ensures a clean workplace.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
748924	E07	50	3500	24	F	10	20
711818	E07	50	3500	36	F	10	20
787640	E07	50	3500	40	F	10	20
762017	E07	50	3500	60	F	10	20
714393	E07	50	3500	80	F	10	20
742661	E07	50	3500	120	F	10	20
754263	E07	100	3500	24	F	10	20
787737	E07	100	3500	36	F	10	20
704797	E07	100	3500	40	F	10	20
732789	E07	100	3500	60	F	10	20
707570	E07	100	3500	80	F	10	20
732895	E07	100	3500	120	F	10	20

XK760X



VSM CERAMICS

Bonding Full-resin bonded

Colour Red-violet

Backing X-Polyester

Flexibility Sturdy

Materials



Features



Self-sharpening ceramic-grain abrasive belt as an all-rounder for processing unalloyed steel, for example when descaling slabs or for flat grinding of steel plates. Also suitable for wet grinding, since it is oil- and water-resistant.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
732184	E07	50	3500	24	F	10	20
721483	E07	50	3500	36	F	10	20
737084	E07	50	3500	40	F	10	20
737741	E07	50	3500	50	F	10	20
734139	E07	50	3500	60	F	10	20
750452	E07	50	3500	80	F	10	20
760928	E07	50	3500	100	F	10	20
790513	E07	50	3500	120	F	10	20
739035	E07	75	2000	24	F	10	20
738007	E07	75	2000	36	F	10	20
735829	E07	75	2000	40	F	10	20
739380	E07	75	2000	50	F	10	20
738006	E07	75	2000	60	F	10	20
737503	E07	75	2000	80	F	10	20
738004	E07	75	2000	100	F	10	20
750003	E07	75	2000	120	F	10	20
734240	E07	100	3500	24	F	10	20
734241	E07	100	3500	36	F	10	20
767060	E07	100	3500	40	F	10	20
729978	E07	100	3500	50	F	10	20
757518	E07	100	3500	60	F	10	20
796339	E07	100	3500	80	F	10	20
749432	E07	100	3500	100	F	10	20
769925	E07	100	3500	120	F	10	20

(continued on page 69)

L = Stock items / F = Manufactured products / P = Categorised according to the FEPA standard
Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

XK760X

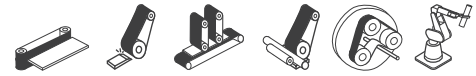
(continued from page 68)

Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
732463	E07	150	2500	24	F	10	20
732492	E07	150	2500	36	F	10	20
721523	E07	150	2500	40	F	10	20
737543	E07	150	2500	50	F	10	20
721541	E07	150	2500	60	F	10	20
706301	E07	150	2500	80	F	10	20
736624	E07	150	2500	100	F	10	20
706288	E07	150	2500	120	F	10	20
737724	E07	150	3500	24	F	10	20
737960	E07	150	3500	36	F	10	20
732466	E07	150	3500	40	F	10	20
737742	E07	150	3500	50	F	10	20
732029	E07	150	3500	60	L	10	10
703957	E07	150	3500	80	F	10	20
737752	E07	150	3500	100	F	10	20
737744	E07	150	3500	120	F	10	20
738344	E07	300	3500	36	F	5	20
736584	E07	300	3500	40	F	5	20
733204	E07	300	3500	60	F	5	20
738341	E07	300	3500	80	F	5	20
738342	E07	300	3500	100	F	5	20
737746	E07	300	3500	120	F	5	20

XK785Y



VSM CERAMICS Plus



Bonding	Full-resin bonded
Colour	Red-violett
Backing	Y-Polyester
Flexibility	Very sturdy

Materials



Features



Thanks to its very robust backing, this product is particularly well suited for high contact pressures and demanding grinding tasks such as bevelling. Ideal for grinding unalloyed steel. The microcrystalline ceramic grain with optimised self-sharpening effect ensures maximum stock removal performance. Ideal alternative to XK885Y if the TOP SIZE additional layer is not required.

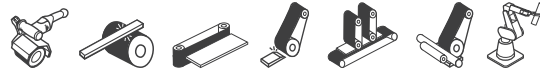
Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
741053	E07	150	2000	36	F	10	20
760117	E07	150	2000	40	F	10	20
747912	E07	150	2000	50	F	10	20
700393	E07	150	2000	60	F	10	20
774750	E07	150	2000	80	F	10	20

XK850X

VSM CERAMICS



Bonding	Full-resin bonded
Colour	Red
Backing	X-Polyester
Flexibility	Sturdy

Materials



Features



Self-sharpening ceramic grain abrasive belt with high initial aggressiveness and a cool cut thanks to the additional TOP SIZE grinding-active layer. More densely coated compared to XK870X, for high contact pressure applications and for machining aluminium or steel. Ideal for rough applications such as bevelling.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
705415	E07	75	2000	36	F	10	20
795748	E07	75	2000	40	F	10	20
739650	E07	75	2000	50	F	10	20
787997	E07	75	2000	60	F	10	20
720977	E07	75	2000	80	F	10	20
752947	E07	75	2000	120	F	10	20
705441	E07	150	2000	36	F	10	20
731014	E07	150	2000	40	F	10	20
793284	E07	150	2000	50	F	10	20
731051	E07	150	2000	60	F	10	20
731081	E07	150	2000	80	F	10	20
788449	E07	150	2000	120	F	10	20

XK870F

VSM CERAMICS



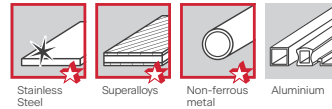
Bonding Full-resin bonded

Colour Red

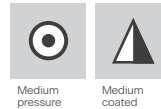
Backing F-Cotton

Flexibility Very flexible

Materials



Features



XK870F grinds very aggressively even with low contact pressure. The very flexible backing adapts well to tight radii and fine contours. The grinding belt is particularly suitable for workpieces with very hard surfaces such as non-ferrous metals, stainless steels or superalloys. Also ideal for robot applications or hand grinding operations on the backstand, such as pre-sharpening knives.

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
784111	E07	40	760	60	L	20	20
716552	E07	40	760	80	L	20	20
763246	E07	40	760	100	F	20	60
716563	E07	40	760	120	L	20	20
702515	E07	40	760	150	F	20	60
718695	E07	40	760	180	F	20	60
716576	E07	40	760	240	F	20	60
739368	E07	40	760	320	F	20	60
710780	E07	40	760	400	F	20	60
740770	E07	50	3500	60	F	20	20
731341	E07	50	3500	80	F	20	20
731342	E07	50	3500	100	F	20	20
712153	E07	50	3500	120	F	20	20
737785	E07	50	3500	150	F	20	20
724590	E07	50	3500	180	F	20	20
761334	E07	50	3500	240	F	20	20
761324	E07	50	3500	320	F	20	20
712130	E07	50	3500	400	F	20	20
757756	E07	100	3500	60	F	20	20
734835	E07	100	3500	80	F	20	20
736448	E07	100	3500	100	F	20	20
706518	E07	100	3500	120	F	20	20
755703	E07	100	3500	150	F	20	20
736450	E07	100	3500	180	F	20	20
770785	E07	100	3500	240	F	20	20
763021	E07	100	3500	320	F	20	20
706063	E07	100	3500	400	F	20	20

(continued on page 73)

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Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

XK870F

(continued from page 72)

Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
742659	E07	300	3500	60	F	10	20
734345	E07	300	3500	80	F	10	20
738435	E07	300	3500	100	F	10	20
738436	E07	300	3500	120	F	10	20
740913	E07	300	3500	150	F	10	20
736608	E07	300	3500	180	F	10	20
755356	E07	300	3500	240	F	10	20
761072	E07	300	3500	320	F	10	20
769551	E07	300	3500	400	F	10	20

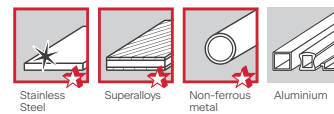
XK870J

VSM CERAMICS

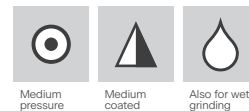


Bonding	Full-resin bonded
Colour	Red
Backing	J-Polyester
Flexibility	Flexible

Materials



Features



Self-sharpening ceramic-grain abrasive belt with smooth backing. Impressive results when working on very hard surfaces; with an aggressive cut and a very long service life. Slightly less flexible than XK870F, but a very good alternative for wet grinding applications. XK870J is very popular for pre-sharpening knives.

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
737790	E07	50	3500	60	F	20	20
721367	E07	50	3500	80	F	20	20
732540	E07	50	3500	100	F	20	20
735019	E07	50	3500	120	F	20	20
729708	E07	300	3500	60	F	10	20
733174	E07	300	3500	80	F	10	20
733175	E07	300	3500	100	F	10	20
753245	E07	300	3500	120	F	10	20

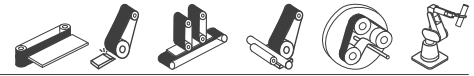
L = Stock items / F = Manufactured products / P = Categorized according to the FEPA standard
Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

XK870X

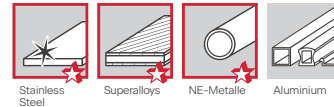


VSM CERAMICS

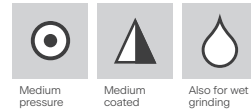
Bonding	Full-resin bonded
Colour	Red
Backing	X-Polyester
Flexibility	Sturdy



Materials



Features



Universal ceramic-grain workshop belt for a wide range of applications. Ideal for pre-sharpening knives. The additional TOP SIZE grinding-active layer also enables dry processing of stainless steel, since it significantly reduces the temperature in the grinding zone. A good alternative to XK760X when machining superalloys and stainless steels.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
759436	E07	30	533	40	F	20	60
743332	E07	30	533	60	F	20	60
739102	E07	30	533	80	F	20	60
734289	E07	30	533	100	F	20	60
739103	E07	30	533	120	F	20	60
739704	E07	50	450	40	F	20	60
733161	E07	50	450	60	F	20	60
749317	E07	50	450	80	F	20	60
749060	E07	50	450	100	F	20	60
739707	E07	50	450	120	F	20	60
732300	E07	50	2000	24	F	10	20
751384	E07	50	2000	36	L	10	10
734801	E07	50	2000	40	L	10	10
735368	E07	50	2000	60	L	10	10
733639	E07	50	2000	80	L	10	10
737754	E07	50	2000	100	F	10	20
744976	E07	50	2000	120	L	10	10
743175	E07	50	3500	24	F	10	20
721545	E07	50	3500	36	L	10	10
732533	E07	50	3500	40	L	10	10
729311	E07	50	3500	60	L	10	10
734912	E07	50	3500	80	L	10	10
733131	E07	50	3500	100	F	10	20
734084	E07	50	3500	120	F	10	20

(continued on page 75)

L = Stock items / F = Manufactured products / P = Categorized according to the FEPA standard
Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

XK870X

(continued from page 74)

Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
739140	E07	75	2000	24	L	10	10
738010	E07	75	2000	36	L	10	10
732818	E07	75	2000	40	L	10	10
737755	E07	75	2000	50	F	10	20
734972	E07	75	2000	60	L	10	10
734376	E07	75	2000	80	L	10	10
735394	E07	75	2000	100	F	10	20
733048	E07	75	2000	120	L	10	10
736863	E07	75	2500	40	F	10	20
734708	E07	75	2500	60	F	10	20
734707	E07	75	2500	80	F	10	20
739412	E07	75	2500	100	F	10	20
736864	E07	75	2500	120	F	10	20
736630	E07	75	3500	24	F	10	20
736635	E07	75	3500	36	F	10	20
737759	E07	75	3500	40	F	10	20
737024	E07	75	3500	50	F	10	20
732584	E07	75	3500	60	F	10	20
733376	E07	75	3500	80	F	10	20
793907	E07	75	3500	100	F	10	20
737760	E07	75	3500	120	F	10	20
748678	E07	100	1000	36	F	10	50
716705	E07	100	1000	40	F	10	50
762578	E07	100	1000	60	F	10	50
756927	E07	100	1000	80	F	10	50
751480	E07	100	1000	100	F	10	50
751426	E07	100	1000	120	F	10	50
730860	E07	100	2000	24	F	10	20
732925	E07	100	2000	36	F	10	20
736501	E07	100	2000	40	F	10	20
748460	E07	100	2000	60	F	10	20
755250	E07	100	2000	80	F	10	20
736508	E07	100	2000	120	F	10	20
759898	E07	100	3500	24	F	10	20
784166	E07	100	3500	36	F	10	20
734833	E07	100	3500	40	F	10	20
734682	E07	100	3500	50	F	10	20
736050	E07	100	3500	60	F	10	20
736051	E07	100	3500	80	F	10	20
742142	E07	100	3500	100	F	10	20
734973	E07	100	3500	120	F	10	20

(continued on page 76)

L = Stock items/F = Manufactured products / P = Categorised according to the FEPA standard
 Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

XK870X

(continued from page 75)

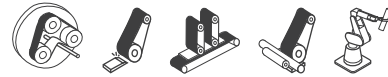
Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
743174	E07	150	2000	24	L	10	10
737761	E07	150	2000	36	L	10	10
735395	E07	150	2000	40	L	10	10
735114	E07	150	2000	60	L	10	10
735115	E07	150	2000	80	L	10	10
737762	E07	150	2000	120	L	10	10
733173	E07	150	3500	24	F	10	20
726399	E07	150	3500	36	F	10	20
731650	E07	150	3500	40	F	10	20
731142	E07	150	3500	50	F	10	20
731651	E07	150	3500	60	F	10	20
731652	E07	150	3500	80	F	10	20
740013	E07	150	3500	100	F	10	20
797983	E07	150	3500	120	F	10	20
757142	E07	300	3500	24	F	5	20
737769	E07	300	3500	36	F	5	20
733197	E07	300	3500	40	F	5	20
738437	E07	300	3500	50	F	5	20
733198	E07	300	3500	60	F	5	20
737770	E07	300	3500	80	F	5	20
737772	E07	300	3500	100	F	5	20
743376	E07	300	3500	120	F	5	20

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Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

XK880Y



VSM CERAMICS Plus

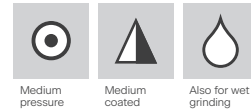


Bonding	Full-resin bonded
Colour	Red-brown
Backing	Y-Polyester
Flexibility	Very sturdy

Materials



Features



Microcrystalline ceramic-grain abrasive with optimised self-sharpening effect for excellent stock removal rates when grinding slabs, coils and sheets in wide belt and long belt grinding applications. Ideal for medium pressure bevelling. With a grit size of 20 to 120, it is ideal for removing scale from workpieces before finishing with a VSM surface conditioning material (e.g. KV707X).

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
794464	E07	50	3500	20	F	10	20
795216	E07	50	3500	24	F	10	20
794466	E07	50	3500	36	F	10	20
794474	E07	50	3500	40	F	10	20
795217	E07	50	3500	50	F	10	20
794487	E07	50	3500	60	F	10	20
794492	E07	50	3500	80	F	10	20
795218	E07	50	3500	100	F	10	20
794493	E07	50	3500	120	F	10	20
796480	E07	75	2000	20	F	10	20
796481	E07	75	2000	24	F	10	20
704819	E07	75	2000	36	F	10	20
709511	E07	75	2000	40	F	10	20
779871	E07	75	2000	50	F	10	20
704825	E07	75	2000	60	F	10	20
715088	E07	75	2000	80	F	10	20
761069	E07	75	2000	100	F	10	20
730313	E07	75	2000	120	F	10	20
770317	E07	150	2500	20	F	10	20
768586	E07	150	2500	24	F	10	20
727317	E07	150	2500	36	F	10	20
713624	E07	150	2500	40	F	10	20
780041	E07	150	2500	50	F	10	20
796561	E07	150	2500	60	F	10	20
796563	E07	150	2500	80	F	10	20
777308	E07	150	2500	100	F	10	20
714261	E07	150	2500	120	F	10	20

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Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

XK885Y ▶ TOP SIZE

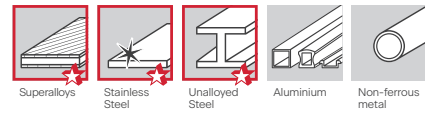


VSM CERAMICS Plus



Bonding	Full-resin bonded
Colour	Red-brown
Backing	Y-Polyester
Flexibility	Very sturdy

Materials



Features



Developed for applications with medium to high contact pressure, such as cylindrical grinding of piston rods, cylinders and rollers. Thanks to the optimised self-sharpening effect of the microcrystalline ceramic grain, it is also very well suited for reclamation grinding of slabs and the removal of scale layers in flat grinding.

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
710512	E07	50	2000	20	F	10	20
702196	E07	50	2000	24	F	10	20
702197	E07	50	2000	36	F	10	20
759204	E07	50	2000	40	F	10	20
755971	E07	50	2000	50	F	10	20
777489	E07	50	2000	60	F	10	20
767166	E07	50	2000	80	F	10	20
789391	E07	50	2000	100	F	10	20
771267	E07	50	2000	120	F	10	20
796483	E07	75	2000	20	F	10	20
796485	E07	75	2000	24	F	10	20
796599	E07	75	2000	36	F	10	20
709507	E07	75	2000	40	F	10	20
702359	E07	75	2000	50	F	10	20
704818	E07	75	2000	60	F	10	20
715117	E07	75	2000	80	F	10	20
756741	E07	75	2000	100	F	10	20
723165	E07	75	2000	120	F	10	20
702470	E07	150	3500	24	F	10	20
798639	E07	150	3500	36	F	10	20
710590	E07	150	3500	40	F	10	20
703917	E07	150	3500	50	F	10	20
798738	E07	150	3500	60	F	10	20
798739	E07	150	3500	80	F	10	20
711013	E07	150	3500	100	F	10	20
710622	E07	150	3500	120	F	10	20

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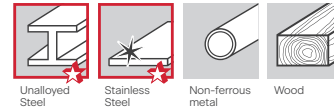
ZK713X

VSM ZIRCONIA ALUMINA

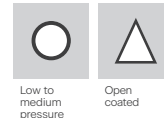


Bonding	Full-resin bonded
Colour	Blue
Backing	X-Polyester (24–P150) X-Cotton (P180–P320)
Flexibility	Sturdy

Materials



Features



The ideal workshop grinding belt for daily use with different workpieces and materials. Versatile use on various machines for dry grinding, for example when deburring sheets. High stock removal rates even with low contact pressure.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
712808	E13	50	2000	40	L	10	10
712810	E13	50	2000	60	L	10	10
712811	E13	50	2000	80	L	10	10
712812	E13	50	2000	100	F	10	20
752473	E07	50	3500	24	F	10	20
704368	E07	50	3500	36	F	10	20
704369	E07	50	3500	40	F	10	20
704370	E07	50	3500	50	F	10	20
704371	E07	50	3500	60	F	10	20
704372	E07	50	3500	80	F	10	20
712858	E13	75	2000	36	L	10	10
712859	E13	75	2000	40	L	10	10
712861	E13	75	2000	60	L	10	10
712862	E13	75	2000	80	L	10	10
712863	E13	75	2000	100	L	10	10
712864	E13	75	2000	120	L	10	10
712938	E13	100	2000	36	F	10	20
712939	E13	100	2000	40	L	10	10
712940	E13	100	2000	60	F	10	20
712985	E13	150	2000	36	L	10	10
712986	E13	150	2000	40	L	10	10
712988	E13	150	2000	60	L	10	10
712989	E13	150	2000	80	L	10	10
712990	E13	150	2000	100	L	10	10
712991	E13	150	2000	120	L	10	10

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ZK744X ▶ TOP SIZE

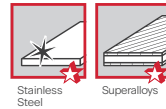


VSM ZIRCONIA ALUMINA



Bonding	Full-resin bonded
Colour	Blue
Backing	X-Polyester
Flexibility	Sturdy

Materials



Features



Ideal for rough grinding tasks such as bevelling. Thanks to the additional TOP SIZE grinding-active layer, it also prevents discolouration of the workpiece when dry grinding stainless steel. It can also be used in wet grinding.

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
745517	E07	50	3500	36	F	10	20
749747	E07	50	3500	40	F	10	20
749727	E07	50	3500	60	F	10	20
742941	E07	50	3500	80	F	10	20
746498	E07	75	2000	36	F	10	20
781108	E07	75	2000	40	F	10	20
771615	E07	75	2000	60	F	10	20
746366	E07	75	2000	80	F	10	20
774166	E07	75	3500	36	F	10	20
779533	E07	75	3500	60	F	10	20
774618	E07	75	3500	80	F	10	20

KP709

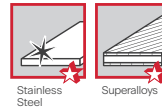


VSM ALUMINIUM OXIDE

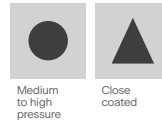


Bonding	Full-resin bonded
Colour	Red-brown
Backing	F-Paper

Materials



Features



KP709 is ideal for long belt applications with high contact pressure in the fine grit range up to P320. The backing, made of heavy F-paper, is low-stretch and achieves excellent flatness.

Grit range:



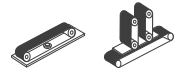
Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
777154	E13	150	7000	40	F	5	20
734676	E13	150	7000	60	F	10	20
742322	E13	150	7000	80	F	10	20
771922	E13	150	7000	120	F	10	20
742323	E13	150	7000	150	F	10	20
712625	E13	150	7800	40	F	5	20
712626	E13	150	7800	60	F	10	20
712627	E13	150	7800	80	F	10	20
712628	E13	150	7800	100	F	10	20
733062	E13	150	7800	120	F	10	20
735106	E13	150	7800	180	F	10	20
712630	E13	150	7800	220	F	10	20
712631	E13	150	7800	240	F	10	20
731159	E13	150	7800	320	F	10	20

L = Stock items / F = Manufactured products / P = Categorized according to the FEPA standard
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XP780



VSM CERAMICS Plus

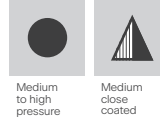


Bonding	Full-resin bonded
Colour	Red-brown
Backing	F-Paper

Materials



Features



XP780 combines the aggressiveness of the microcrystalline ceramic grain with a heavy, low-stretch paper backing. The optimised self-sharpening effect enables high cutting performance for rough work, such as the deburring of heavy plates, laser parts and punched parts. Suitable for long belt and wide belt applications with medium contact pressure.

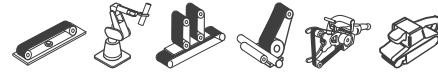
Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
734310	E08	150	7800	60	F	10	20
753828	E08	150	7800	80	F	10	20
753844	E08	150	7800	100	F	10	20
734311	E08	150	7800	120	F	10	20

KV707T

VSM NON-WOVEN (AO)

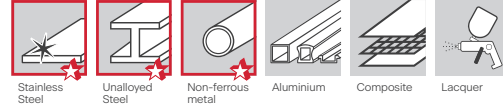


Bonding Full-resin bonded

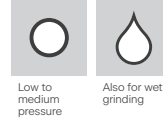
Colour Coarse = brown
Medium = red
Very fine = blue

Backing T-Polyester

Materials



Features



Surface conditioning material for deburring, removing rust, cleaning, and removing grinding grooves and old paint. The semi-robust backing ensures good adaptation to the shape of the workpiece and allows the use of cooling lubricants. Also ideal for the final finishing of surfaces.

Fineness range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
704140	E07	25	760	100	F	5	30
704139	E07	25	760	180	F	5	30
704138	E07	25	760	240	F	5	30
797414	E07	30	533	100	F	5	30
752364	E07	30	533	180	L	5	5
796705	E07	30	533	240	L	5	5

KV707X



VSM NON-WOVEN (AO/SIC)

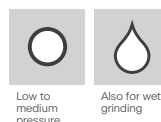


Bonding	Full-resin bonded
Colour	Coarse = brown (AO) Medium = red (AO) Very fine = blue (AO) Ultra fine = grey (SIC)
Backing	X-Polyester

Materials

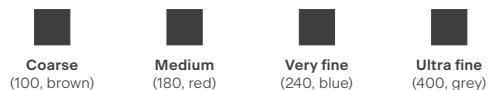


Features



Robust surface conditioning material with reinforced, low-stretch backing made of robust polyester. Wide range of applications: From deburring work to the final finishing of surfaces. Ideal for satin finishing sheets on wide belt machines or for use with cooling lubricants in centerless processes.

Fineness range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
752615	E07	50	3500	100	F	5	5
752619	E07	50	3500	180	F	5	5
752374	E07	50	3500	240	F	5	5
797400	E07	50	3500	400	F	5	5
752365	E07	75	2000	100	F	5	5
797044	E07	75	2000	180	L	5	5
752366	E07	75	2000	240	L	5	5
797045	E07	75	2000	400	F	5	5
796072	E07	100	3500	100	F	5	5
796515	E07	100	3500	180	F	5	5
762635	E07	100	3500	240	F	5	5
796605	E07	100	3500	400	F	5	5
703476	E07	150	2000	100	F	5	5
701329	E07	150	2000	180	L	5	5
796383	E07	150	2000	240	F	5	5
752311	E07	150	2000	400	F	5	5
796376	E07	150	2500	100	F	5	5
752378	E07	150	2500	180	L	5	5
752308	E07	150	2500	240	F	5	5
752309	E07	150	2500	400	F	5	5

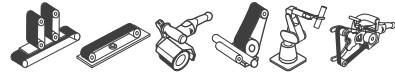
L = Stock items / F = Manufactured products / P = Categorized according to the FEPA standard
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KV710X

NEW



VSM NON-WOVEN (AO/SIC)

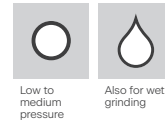


Bonding	Full-resin bonded
Colour	Coarse = brown (AO) Medium = red (AO) Very fine = blue (AO) Ultra fine = grey (SIC)
Backing	X-Polyester

Materials

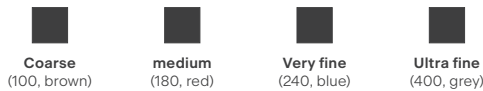


Features



Surface conditioning material with optimised, open fibre structure, without any inclusions or islands of resin. This non-woven abrasive has significantly reduced clogging; also when grinding non-ferrous metals. KV710X ensures a consistent scratch pattern throughout its entire, long service life. The backing is soft and flexible enough to adapt to the contours of the workpiece.

Fineness range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
747897	E07	100	3500	100	F	5	5
745278	E07	100	3500	180	F	5	5
789348	E07	100	3500	240	F	5	5
760652	E07	100	3500	400	F	5	5
702034	E07	100	9000	100	F	1	5
740337	E07	100	9000	180	F	1	5
737555	E07	100	9000	240	F	1	5
761257	E07	100	9000	400	F	1	5

KK711T

VSM ALUMINIUM OXIDE

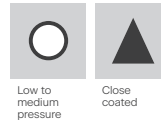


Bonding	Full-resin bonded
Colour	Red-brown
Backing	T-Cotton
Flexibility	Semi-sturdy

Materials



Features



Universally applicable aluminium oxide abrasive belt with a semi-robust cotton backing. Ideal for levelling welds in chemical or food tanks. Because it adapts well to the workpiece, it also enables optimal results at low to medium contact pressures.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
702311	E07	6	610	60	F	100	300
702302	E07	6	610	80	F	100	300
702304	E07	6	610	120	F	100	300
730528	E07	8	330	60	F	100	300
775607	E07	8	330	80	F	100	300
760848	E07	8	330	120	F	100	300
730530	E07	8	330	180	F	100	300
791287	E07	8	330	220	F	100	300
730531	E07	8	330	240	F	100	300
761346	E07	10	330	60	L	100	100
730536	E07	10	330	80	L	100	100
730537	E07	10	330	120	L	100	100
762864	E07	10	330	180	L	100	100
730552	E07	13	305	60	F	100	300
730553	E07	13	305	80	F	100	300
724261	E07	13	305	100	F	100	300
730555	E07	13	305	120	F	100	300
730557	E07	13	305	180	F	100	300
730558	E07	13	305	240	F	100	300
762872	E07	13	305	320	F	100	300
756564	E07	13	305	400	F	100	300

(continued on page 87)

KK711T

(continued from page 86)

Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
702374	E07	13	457	60	F	100	300
734505	E07	13	457	80	F	100	300
739065	E07	13	457	120	F	100	300
768923	E07	13	457	180	F	100	300
702383	E07	13	610	60	L	100	100
702384	E07	13	610	80	L	100	100
702385	E07	13	610	100	F	100	300
702386	E07	13	610	120	L	100	100
702387	E07	13	610	150	F	100	300
702388	E07	13	610	180	L	100	100
702389	E07	13	610	240	F	100	300
754816	E07	13	610	280	F	100	300
702390	E07	13	610	320	F	100	300
702392	E07	13	610	400	F	100	300
707735	E07	15	330	60	L	100	100
730565	E07	15	330	80	L	100	100
730567	E07	15	330	100	F	100	300
730568	E07	15	330	120	L	100	100
705546	E07	15	330	150	F	100	300
730569	E07	15	330	180	F	100	300
730570	E07	15	330	220	F	100	300
730571	E07	15	330	240	F	100	300
709370	E07	15	330	500	F	100	300
702397	E07	16	520	60	F	100	300
702398	E07	16	520	80	F	100	300
702400	E07	16	520	120	F	100	300
702401	E07	16	520	180	F	100	300
702427	E07	20	520	60	F	20	300
702428	E07	20	520	80	F	20	300
702429	E07	20	520	100	F	20	300
702430	E07	20	520	120	F	20	300
738265	E07	20	520	180	F	20	300
751622	E07	20	520	240	F	20	300
713543	E07	20	520	320	F	20	300

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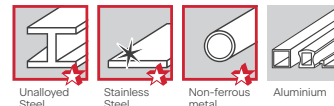
KK711X

VSM ALUMINIUM OXIDE

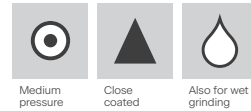


Bonding	Full-resin bonded
Colour	Red-brown
Backing	X-Polyester (20-80) X-Cotton (100-400)
Flexibility	Sturdy

Materials



Features



Universal, high-performance aluminium oxide abrasive with a sturdy polyester or cotton cloth backing. The wide range of grit sizes makes it an excellent all-rounder: It can be used for deburring work with the P24, for example after laser cutting or water jet cutting. It also withstands extreme stresses, caused by sharp edges or sharp burrs, for example, and can also be used for polishing work with the P400.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
702558	E07	6	520	40	F	100	300
702560	E07	6	610	40	F	100	300
739752	E07	10	330	40	L	100	100
702591	E07	13	610	40	L	100	100
702615	E07	20	520	40	L	20	20

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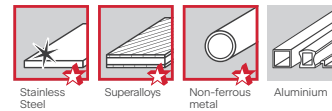
XK870T

VSM CERAMICS

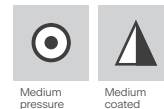


Bonding	Full-resin bonded
Colour	Red
Backing	T-Cotton
Flexibility	Semi-sturdy

Materials



Features



XK870T is especially suitable for grinding turbine blades, medical instruments and implants. The self-sharpening ceramic-grain grinding belt with additional grinding-active TOP SIZE layer reduces the temperature in the grinding zone and prevents discolouration of the workpiece.

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
797816	E07	10	330	40	L	100	100
797817	E07	10	330	60	L	100	100
711620	E07	10	330	80	L	100	100
797818	E07	10	330	120	L	100	100
741693	E07	13	457	40	F	100	300
776404	E07	13	457	60	F	100	300
776436	E07	13	457	80	F	100	300
708528	E07	13	457	120	F	100	300
790902	E07	13	610	40	F	100	300
782318	E07	13	610	60	F	100	300
790903	E07	13	610	80	F	100	300
790904	E07	13	610	120	F	100	300
790906	E07	20	520	40	F	20	300
790908	E07	20	520	60	F	20	300
790909	E07	20	520	80	F	20	300
790910	E07	20	520	120	F	20	300

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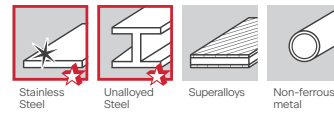
ZK713T

VSM ZIRCONIA ALUMINA

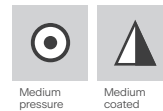


Bonding	Full-resin bonded
Colour	Blue
Backing	T-Cotton
Flexibility	Semi-sturdy

Materials



Features



Universally applicable, semi-flexible zirconia alumina abrasive. Achieves aggressive grinding on tough material surfaces, even with only moderate contact pressure. In addition to XK870T, it is also suitable for machining unalloyed steels.

Grit range:



Art. No.	Belt joint	Width (mm) ▼	Length (mm)	Grit	Type	PU	Sales Unit
730654	E07	10	330	40	L	100	100
730655	E07	10	330	60	L	100	100
734831	E07	10	330	80	L	100	100
700313	E07	10	330	120	L	100	100
704197	E07	12	520	40	F	100	300
742144	E07	12	520	60	F	100	300
732640	E07	12	520	80	F	100	300
704198	E07	12	520	120	F	100	300
704208	E07	13	610	40	L	100	100
704209	E07	13	610	60	L	100	100
704210	E07	13	610	80	L	100	100
704211	E07	13	610	120	L	100	100
746083	E07	20	520	40	F	20	300
790669	E07	20	520	60	F	20	300
774964	E07	20	520	80	F	20	300
741368	E07	20	520	120	F	20	300

L = Stock items / F = Manufactured products / P = Categorized according to the FEPA standard
Version 11/23. Subject to change. Other dimensions and grits/degrees of fineness upon request.

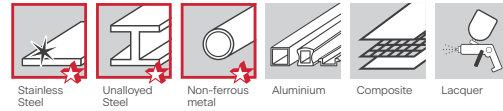
KV707T

VSM NON-WOVEN (AO)

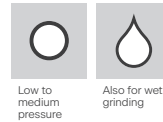


Bonding	Full-resin bonded
Colour	Coarse = Brown Medium = Red Very fine = Blue
Backing	T-Polyester

Materials

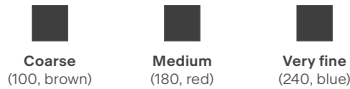


Features



Surface conditioning material for deburring, removing rust, cleaning, and removing grinding grooves and old paint. The semi-robust backing ensures good adaptation to the shape of the workpiece and allows the use of cooling lubricants. Also ideal for the final finishing of surfaces.

Grit range:



Art. No.	Belt joint	Width (mm) ▾	Length (mm)	Grit	Type	PU	Sales Unit
752682	E07	13	610	100	L	10	10
752683	E07	13	610	180	L	10	10
752684	E07	13	610	240	L	10	10
752667	E07	16	520	100	F	10	50
752668	E07	16	520	180	L	10	10
752669	E07	16	520	240	F	10	50

L = Stock items / F = Manufactured products / P = Categorized according to the FEPA standard
Version 11/23. Subject to change. Other dimensions and grits/degrees of fineness upon request.



VSM discs

Possible applications

- > Power tools
- > Deburring machines
- > Weld seam preparation and rework
- > Removal of gates and feeders
- > Rust removal
- > Repair grinding
- > Cleaning and deburring
- > Roughing and finish grinding
- > Machining of paints and varnishes

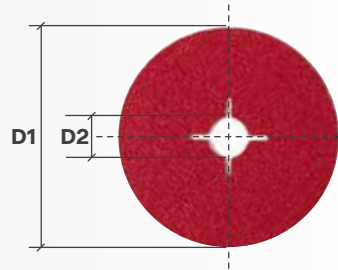
Your advantages

- > VSM fibre discs: Dimensionally stable vulcanised fibre backing, which lives up to the highest safety demands, certified by oSa®
- > Broad range of applications thanks to a selection of different dimensions and back-up pads with different degrees of hardness
- > Paper and cloth discs: available with velour backing or a self-adhesive coat
- > Different dimensions and hole patterns for almost any machine
- > Abrasives can quickly and easily be changed thanks to velour-backed discs and velour-backed plates.



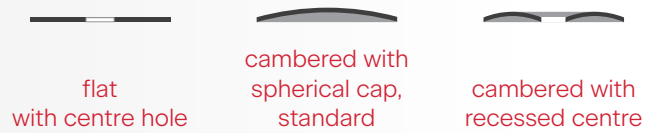
Types of fibre discs

VSM fibre discs are suitable for a large range of applications. This is why they are available in a variety of different dimensions and shapes. In addition to slotted discs with a cross-shaped centre slot other shapes such as discs with a circular opening in the middle are included in our offering.



D1	D2
100 mm	16 mm
115 mm	22 mm
125 mm	22 mm
150 mm	22 mm
180 mm	22 mm
235 mm	22 mm

Shapes of fibre discs



	Non-slotted	S0	S01 (only ø 180 mm and 235 mm)	S05 (only ø 180 mm)
	Cross-shaped centre slot	S1	S11 (only ø 180 mm and 235 mm)	S15 (only ø 180 mm)
	Eight slot opening	S8		
	X-Lock	SX (only ø 115 mm and 125 mm)		
	Other special shapes (such as rosettes, polygon shapes) are available upon request			

GENERAL WORKING AND SAFETY INSTRUCTIONS FOR THE USE OF FIBRE DISCS

The safety instructions for the use of coated abrasives according to DIN EN 13743 must be complied with. Among other things, this means that the following applies:

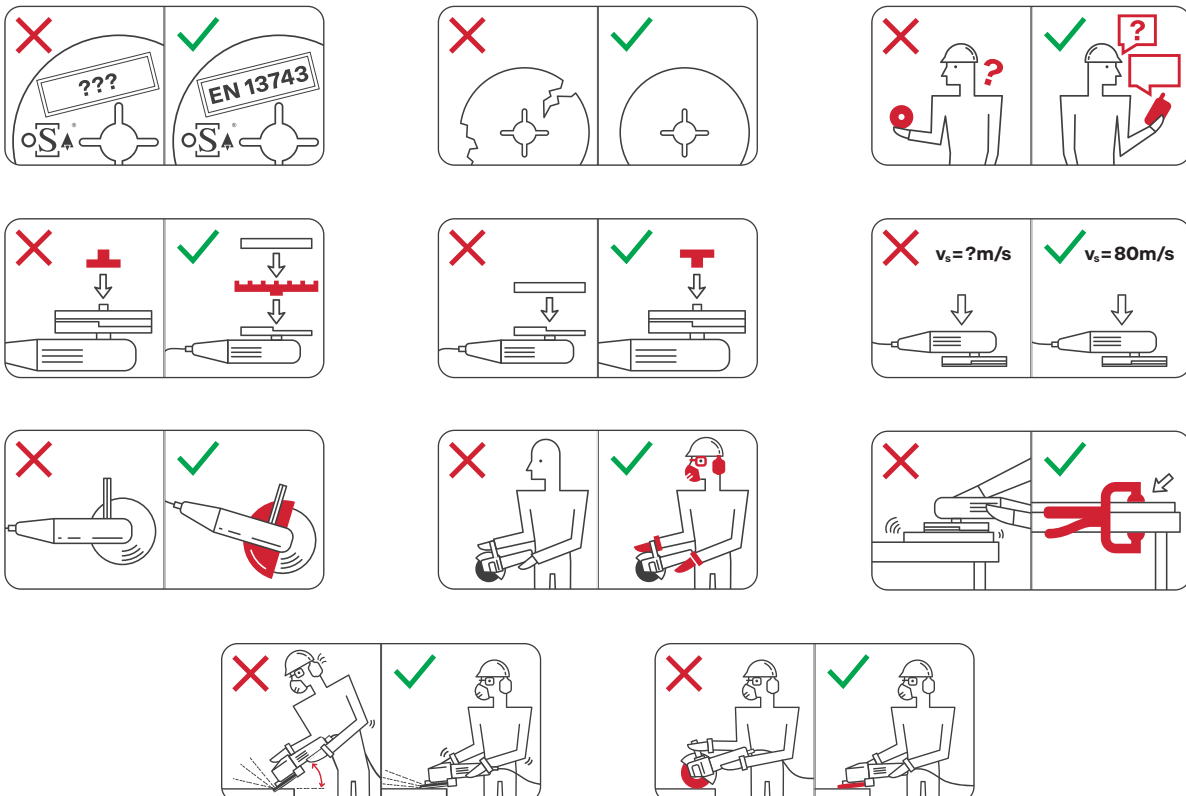
- > Fibre discs may only be used in conjunction with approved and correct backing pads.
- > The diameter of the fibre disc must not exceed that of the backing pad by more than 15 mm.
- > Plunge grinding is not permitted.
- > Appropriate safety equipment, such as goggles, work gloves and ear protection must be worn before any work is commenced.

The maximum admissible peripheral surface speed (v_s) is 80 m/s. Depending on the diameter of the disc the maximum rpm (n_{max}) is:

- | | |
|------------------------|------------------------|
| > 100 mm: 15,300 1/min | > 150 mm: 10,200 1/min |
| > 115 mm: 13,300 1/min | > 180 mm: 8,500 1/min |
| > 125 mm: 12,200 1/min | > 235 mm: 6,500 1/min |



VSM instructions for work safety



VSM fibre discs: Safety certificate issued by oSa®

What does oSa® mean?

oSa® stands for "Organisation for the Safety of Abrasives". Since it was founded in 2000, the oSa® has become an internationally acclaimed centre of excellence for the safety of abrasive tools.

The oSa® trademark: A sign for proven safety

Only quality tested tools are given the internationally protected oSa® trademark. These tools are in demand worldwide and clearly distinguish themselves from those of suppliers with no clear safety profile. The right to use the oSa® trademark is only granted to those companies which voluntarily undertake to adhere to the European safety standards for abrasive tools and accept to comply with stricter manufacturing and testing requirements. This means that abrasives approved by this organisation live up to the highest safety standards. Provided

general working and safety instructions are adhered to, the users of these abrasive tools enjoy maximum protection.

As a member of the oSa®, VSM complies with the following:

- > The entire production process of VSM abrasives is monitored
- > VSM has a certified quality management system
- > VSM carries out regular production controls according to EN standards
- > VSM abrasives are fully traceable
- > VSM is committed to the best possible working conditions and the highest level of environmental protection



More information

Check the oSa® safety certificate given to VSM on the Internet at:

www.vsmabrasives.com/service/downloads

For more information on oSa® go to
www.osa-abrasives.org

Recommended products

Angle grinders



	Material	Stock removal rate	Series	Grain technology	Backing	Features	Grit size	Recommended power rating	Contact pressure	From page
NEW	Stainless steel	▲▲▲	AF890	VSM ACTIROX	Fibre	▼ TOP SIZE	36+, 60+, 80+	1,500 W	●	101
		▲▲	XF870	VSM CERAMICS	Fibre	▼ TOP SIZE	24 – 120	1,200 W	⊙	108
		▲	XF850	VSM CERAMICS	Fibre	▼ TOP SIZE	36 – 80	1,200 W	⊙	107
NEW	Unalloyed steel	▲▲▲	AF799	VSM ACTIROX	Fibre		36+, 60+, 80+	1,500 W	●	100
		▲▲	XF760	VSM CERAMICS	Fibre		24 – 80	1,200 W	⊙	106
		▲	ZF713	VSM ZIRCONIA ALUMINA	Fibre		24 – 120	800 W	○	110
NEW	NF-metals (aluminium, brass, copper...)	▲▲▲	XF885	VSM CERAMICS Plus	Fibre	▼ TOP SIZE	20 – 120	1,500 W	●	109
		▲▲	XF733	VSM CERAMICS	Fibre	ALU-X ⓪	24, 36, 60, 80	1,200 W	○	105
		▲	ZF713	VSM ZIRCONIA ALUMINA	Fibre		24 – 120	800 W	○	110

Errors and omissions excepted. For special requirements, please contact your VSM application engineer.



Features:

- for low to medium contact pressure
- ⊙ for medium contact pressure
- for medium to high contact pressure

▼ **TOP SIZE** Grinding-active additional layer reduces the temperature in the grinding zone




ALU-X The combination of VSM CERAMICS and ALU-X significantly reduces chip adhesion

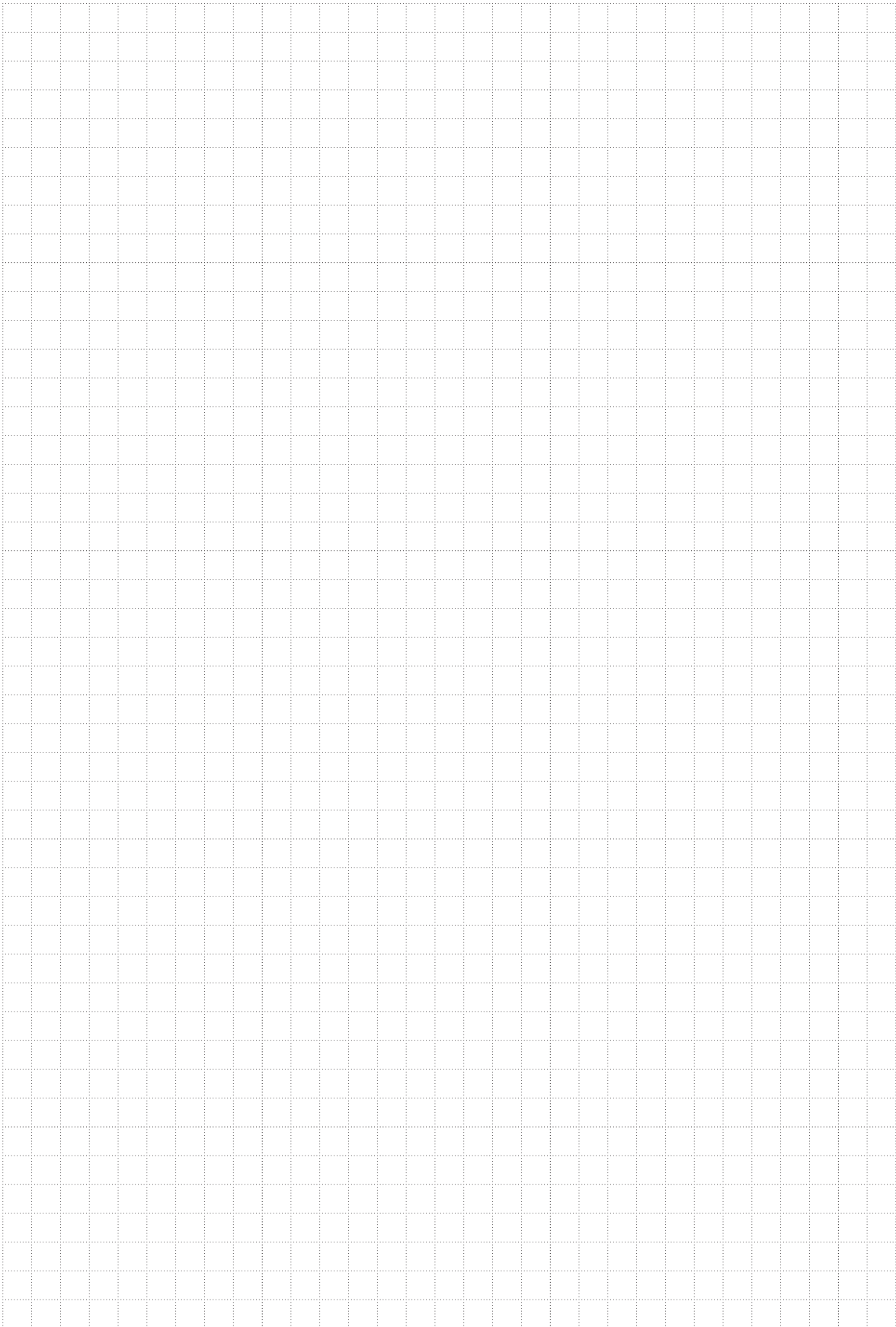
Hole patterns and models of discs with paper and cloth backings

Shape of disc		Version
	Without hole pattern	S
	With hole pattern	S0*

*to be completed with a drawing number when ordering.

Drawing numbers (Z-No.) for discs with paper and cloth backings

Shape of disc		Diameter	Perforation
	Z-Nr. 019	ø 150 mm	6 holes ø 10 mm Pitch circle ø 80 mm
	Z-Nr. 021	ø 125 mm	8 holes ø 10 mm Pitch circle ø 65 mm
	Z-Nr. 076	ø 150 mm	8 holes ø 10 mm Pitch circle ø 120 mm Centre hole ø 18 mm
Number of holes and hole pattern flexible for all popular brands, such as: Bosch, Fein, Festool, Flex, Makita and Metabo.			



AF799



VSM ACTIROX

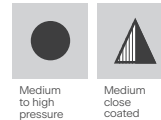


Bonding	Full-resin bonded
Colour	Dark Petrol
Backing	Vulcanised fibre

Materials



Features



ACTIROX

Maximum stock removal and improved chip removal: Even when grinding aluminium. The geometrically shaped ceramic grain achieves fast grinding has a very long service life. Recommended for angle grinders in the upper power range.

Grit range:



Art. No.	Specification	∅ (mm) ▼	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
720833	S1E	115	22	36+	L	25	200
787862	S1E	115	22	36+	L	50	50
758484	S1E	115	22	60+	L	50	50
758492	S1E	115	22	80+	L	50	50
720834	S1E	125	22	36+	L	25	200
792369	SXE	125	22	36+	L	25	200
787863	S1E	125	22	36+	L	50	50
758485	S1E	125	22	60+	L	50	50
758481	S1E	125	22	60+	L	25	200
758496	S1E	125	22	80+	L	50	50
758490	S1E	125	22	80+	L	25	200
720835	S1E	180	22	36+	L	25	200
787864	S1E	180	22	36+	L	50	50
758486	S1E	180	22	60+	L	50	50
758501	S1E	180	22	80+	L	50	50

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AF890

NEW



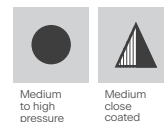
VSM ACTIROX

Bonding	Full-resin bonded
Colour	Petrol
Backing	Vulcanised fibre

Materials



Features



ACTIROX

Maximum stock removal rate and a high initial aggressiveness thanks to the geometrically shaped ceramic grain. Ideal for machining stainless steels and superalloys with a cool cut and no discolouration thanks to the TOP SIZE additional grinding-active layer. AF890 achieves its full performance when used with angle grinders in the upper power range.

Grit range:



Art. No.	Specification	∅ (mm) ▾	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
720053	S1E	115	22	36+	L	25	200
709157	SXE	115	22	36+	L	50	50
758537	S1E	115	22	60+	L	50	50
758596	S1E	115	22	80+	L	50	50
720054	S1E	125	22	36+	L	25	200
792486	SXE	125	22	36+	L	25	200
709158	S1E	125	22	36+	L	50	50
758533	S1E	125	22	60+	L	25	200
758555	S1E	125	22	60+	L	50	50
758577	S1E	125	22	80+	L	25	200
758599	S1E	125	22	80+	L	50	50
720055	S1E	180	22	36+	L	25	200
709159	S1E	180	22	36+	L	50	50
758556	S1E	180	22	60+	L	50	50
758601	S1E	180	22	80+	L	50	50

KF708



VSM ALUMINIUM OXIDE

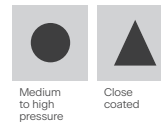


Bonding	Full-resin bonded
Colour	Red-brown
Backing	Vulcanised fibre

Materials



Features



Universal aluminium oxide fibre disc with a wide grit-size spectrum. Ideal for workshop use with different materials, from stainless steel to wood. The special bonding used for hand-held machines significantly increases the service life.

Grit range:



Art. No.	Specification	∅ (mm) ▼	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
799283	S1E	115	22	16	L	50	50
799284	S1E	115	22	24	L	50	50
799285	S1E	115	22	36	L	50	50
799287	S1E	115	22	40	L	50	50
799289	S1E	115	22	50	L	50	50
799292	S1E	115	22	60	L	50	50
799298	S1E	115	22	80	L	50	50
799306	S1E	115	22	100	L	50	50
799315	S1E	115	22	120	L	50	50
799316	S1E	125	22	16	L	50	50
799322	S1E	125	22	24	L	50	50
788166	S1E	125	22	36	L	50	50
799339	S1E	125	22	40	L	50	50
799364	S1E	125	22	50	L	50	50
799366	S1E	125	22	60	L	50	50
788170	S1E	125	22	80	L	50	50
799324	S1E	125	22	100	L	50	50
799373	S1E	125	22	120	L	50	50

(continued on page 103)

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KF708

(continued from page 102)

Art. No.	Specification	∅ (mm) ▼	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
727845	S1E	150	22	24	L	50	50
727847	S1E	150	22	36	L	50	50
727849	S1E	150	22	50	L	50	50
727850	S1E	150	22	60	L	50	50
727851	S1E	150	22	80	L	50	50
799374	S1E	180	22	16	L	50	50
799388	S1E	180	22	24	L	50	50
799425	S1E	180	22	36	L	50	50
799428	S1E	180	22	40	L	50	50
799429	S1E	180	22	50	L	50	50
799440	S1E	180	22	60	L	50	50
799441	S1E	180	22	80	L	50	50
799442	S1E	180	22	100	L	50	50
799444	S1E	180	22	120	L	50	50

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KF808



VSM ALUMINIUM OXIDE

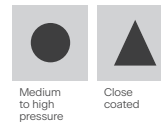


Bonding	Full-resin bonded
Colour	Red-brown
Backing	Vulcanised fibre

Materials



Features



Aluminium oxide fibre disc with TOP SIZE grinding-active layer for processing stainless steel. KF808 supplements the application spectrum of KF708 in that it can grind heat-sensitive workpieces without causing discoloration.

Grit range:



Art. No.	Specification	ø (mm) ▼	ø Centre hole (mm)	Grit	Type	PU	Sales Unit
799451	S1E	115	22	36	L	50	50
799471	S1E	115	22	50	L	50	50
799488	S1E	115	22	60	L	50	50
799499	S1E	115	22	80	L	50	50
799501	S1E	115	22	100	L	50	50
799504	S1E	115	22	120	L	50	50
799505	S1E	115	22	150	L	50	50
799506	S1E	115	22	180	L	50	50
799542	S1E	115	22	220	L	50	50
799560	S1E	125	22	36	L	50	50
799571	S1E	125	22	50	L	50	50
788193	S1E	125	22	60	L	50	50
788194	S1E	125	22	80	L	50	50
799574	S1E	125	22	100	L	50	50
763561	S1E	125	22	120	L	50	50
799592	S1E	125	22	150	L	50	50
799613	S1E	125	22	180	L	50	50
799618	S1E	125	22	220	L	50	50
799621	S1E	180	22	36	L	50	50
799635	S1E	180	22	60	L	50	50
799637	S1E	180	22	80	L	50	50
799670	S1E	180	22	150	L	50	50
799681	S1E	180	22	180	L	50	50
799690	S1E	180	22	220	L	50	50

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Version 11/23. Subject to change. Other dimensions and grits / degrees of fineness upon request.

XF733 **ALU-X**

NEW



VSM CERAMICS

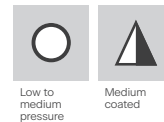


Bonding	Full-resin bonded
Colour	White
Backing	Vulcanised fibre

Materials



Features



Improved chip clearance results in a longer service life and high stock removal rates. Especially when grinding aluminium and non-ferrous metals. The open coating of ceramic grain with self-sharpening effect also offers an impressively aggressive cutting action.

Grit range:



Art. No.	Specification	∅ (mm) ▼	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
787586	S1E	115	22	24	L	50	50
787587	S1E	115	22	36	L	50	50
787588	S1E	115	22	60	L	50	50
787591	S1E	115	22	80	L	50	50
787592	S1E	125	22	24	L	50	50
787594	S1E	125	22	36	L	50	50
787599	S1E	125	22	60	L	50	50
787600	S1E	125	22	80	L	50	50
787601	S1E	180	22	24	L	50	50
787602	S1E	180	22	36	L	50	50
787609	S1E	180	22	60	L	50	50
787611	S1E	180	22	80	L	50	50

XF760

VSM CERAMICS

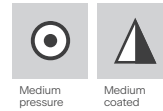


Bonding	Full-resin bonded
Colour	Red-violet
Backing	Vulcanised fibre

Materials



Features



The all-rounder for machining unalloyed steel. Self-sharpening ceramic-grain fibre disc achieves excellent results and a long service life when removing weld seams and when bevelling. Ideal alternative to XF870 if the additional TOP SIZE layer can be omitted.

Grit range:



Art. No.	Specification	∅ (mm) ▼	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
737774	S1E	115	22	24	L	50	50
731279	S1E	115	22	36	L	50	50
737737	S1E	115	22	40	L	50	50
737728	S1E	115	22	50	L	50	50
731281	S1E	115	22	60	L	50	50
731282	S1E	115	22	80	L	50	50
737776	S1E	125	22	24	L	50	50
731283	S1E	125	22	36	L	50	50
737738	S1E	125	22	40	L	50	50
737731	S1E	125	22	50	L	50	50
731284	S1E	125	22	60	L	50	50
731287	S1E	125	22	80	L	50	50
737777	S1E	180	22	24	L	50	50
731289	S1E	180	22	36	L	50	50
731290	S1E	180	22	60	L	50	50
731292	S1E	180	22	80	L	50	50

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XF850

VSM CERAMICS

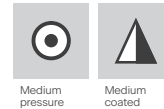


Bonding	Full-resin bonded
Colour	Red
Backing	Vulcanised fibre

Materials



Features



Self-sharpening ceramic-grain fibre disc with high initial aggressiveness. Ideal for cutting aluminium or steel and for machining small contact surfaces, such as in bevelling operations or when removing welds. The additional TOP SIZE layer improves stock removal while reducing the temperature in the grinding zone.

Grit range:



Art. No.	Specification	∅ (mm) ▼	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
766608	S1E	115	22	36	L	50	50
766874	S1E	115	22	40	L	50	50
766909	S1E	115	22	50	L	50	50
766922	S1E	115	22	60	L	50	50
766927	S1E	115	22	80	L	50	50
766959	S1E	125	22	36	L	50	50
766976	S1E	125	22	40	L	50	50
767027	S1E	125	22	60	L	50	50
767043	S1E	125	22	80	L	50	50

XF870



VSM CERAMICS

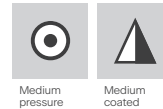


Bonding	Full-resin bonded
Colour	Red
Backing	Vulcanised fibre

Materials



Features



Self-sharpening ceramic-grain fibre disc with additional TOP SIZE grinding-active layer for processing stainless steels and superalloys; for example for bevelling or for removing weld seams. Ideal alternative to the XF760, if heat-sensitive workpieces need to be machined without causing discolouration.

Grit range:



Art. No.	Specification	ø (mm) ▼	ø Centre hole (mm)	Grit	Type	PU	Sales Unit
737048	S1E	115	22	24	L	50	50
731252	S1E	115	22	36	L	50	50
731254	S1E	115	22	40	L	50	50
731255	S1E	115	22	50	L	50	50
731257	S1E	115	22	60	L	50	50
731258	S1E	115	22	80	L	50	50
737045	S1E	115	22	100	L	50	50
731259	S1E	115	22	120	L	50	50
737051	S1E	125	22	24	L	50	50
731262	S1E	125	22	36	L	50	50
731263	S1E	125	22	40	L	50	50
731264	S1E	125	22	50	L	50	50
731267	S1E	125	22	60	L	50	50
731268	S1E	125	22	80	L	50	50
737050	S1E	125	22	100	L	50	50
731270	S1E	125	22	120	L	50	50
737053	S1E	180	22	24	L	50	50
731273	S1E	180	22	36	L	50	50
731274	S1E	180	22	40	L	50	50
731275	S1E	180	22	50	L	50	50
731276	S1E	180	22	60	L	50	50
731277	S1E	180	22	80	L	50	50
731278	S1E	180	22	120	L	50	50

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Version 11/23. Subject to change. Other dimensions and grits / degrees of fineness upon request.

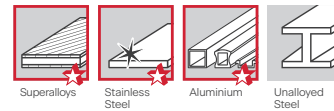
XF885

VSM CERAMICS Plus

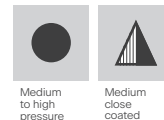


Bonding	Full-resin bonded
Colour	Red-brown
Backing	Vulcanised fibre

Materials



Features



CERAMICS Plus meets TOP SIZE: XF885 has microcrystalline ceramic grains with optimised self-sharpening effect. With the grinding-active additional layer, the fibre disc is optimised for machining superalloys, stainless steels and aluminium and has an impressively aggressive yet cool grinding action and a very long service life. The even further improved performance ensures very high stock removal rates during bevelling or weld seam processing.

Grit range:



Art. No.	Specification	∅ (mm) ▼	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
795234	S1E	115	22	20	L	50	50
795235	S1E	115	22	24	L	50	50
795236	S1E	115	22	36	L	50	50
795238	S1E	115	22	40	L	50	50
795239	S1E	115	22	50	L	50	50
795240	S1E	115	22	60	L	50	50
795241	S1E	115	22	80	L	50	50
795243	S1E	115	22	100	L	50	50
795245	S1E	115	22	120	L	50	50
795247	S1E	125	22	20	L	50	50
795248	S1E	125	22	24	L	50	50
795249	S1E	125	22	36	L	50	50
795250	S1E	125	22	40	L	50	50
795251	S1E	125	22	50	L	50	50
795252	S1E	125	22	60	L	50	50
795253	S1E	125	22	80	L	50	50
795255	S1E	125	22	100	L	50	50
795258	S1E	125	22	120	L	50	50
795259	S1E	180	22	20	L	50	50
795260	S1E	180	22	24	L	50	50
795261	S1E	180	22	36	L	50	50
795263	S1E	180	22	40	L	50	50
795264	S1E	180	22	50	L	50	50
795266	S1E	180	22	60	L	50	50
795267	S1E	180	22	80	L	50	50
795268	S1E	180	22	100	L	50	50
795269	S1E	180	22	120	L	50	50

L = Stock items / F = Manufactured products / P = Categorised according to the FEPA standard
Version 11/23. Subject to change. Other dimensions and grits / degrees of fineness upon request.

ZF713



VSM ZIRCONIA ALUMINA

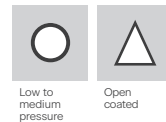


Bonding	Full-resin bonded
Colour	Blue
Backing	Vulcanised fibre

Materials



Features



Open-coated zirconia alumina fibre disc that grinds aggressively even with low contact pressure and ensures high stock removal rates. Ideal for use with angle grinders in the low to medium power range. Developed for surface grinding in tank construction and for grinding turbine components.

Grit range:



Art. No.	Specification	∅ (mm) ▼	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
799699	S1E	115	22	24	L	50	50
799700	S1E	115	22	36	L	50	50
799701	S1E	115	22	40	L	50	50
799703	S1E	115	22	50	L	50	50
799704	S1E	115	22	60	L	50	50
799705	S1E	115	22	80	L	50	50
799706	S1E	115	22	100	L	50	50
799707	S1E	115	22	120	L	50	50
799708	S1E	125	22	24	L	50	50
799709	S1E	125	22	36	L	50	50
799710	S1E	125	22	40	L	50	50
799711	S1E	125	22	50	L	50	50
799712	S1E	125	22	60	L	50	50
799713	S1E	125	22	80	L	50	50
799714	S1E	125	22	100	L	50	50
799715	S1E	125	22	120	L	50	50
750844	S1E	180	22	24	L	50	50
750845	S1E	180	22	36	L	50	50
799716	S1E	180	22	40	L	50	50
776790	S1E	180	22	60	L	50	50

L = Stock items / F = Manufactured products / P = Categorised according to the FEPA standard
Version 11/23. Subject to change. **Other dimensions and grits / degrees of fineness upon request.**

ZF714

VSM ZIRCONIA ALUMINA



Bonding Full-resin bonded

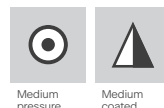
Colour Blue

Backing Vulcanised fibre

Materials



Features



Zirconia alumina fibre disc, with semi-open coating, for applications with medium contact pressure. Angle grinders even in the low to medium power range achieve aggressive grinding with high stock removal rates. Ideal for bevelling unalloyed and stainless steels and for vehicle construction applications.

Grit range:



Art. No.	Specification	∅ (mm) ▼	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
799719	S1E	115	22	24	L	50	50
799720	S1E	115	22	36	L	50	50
738140	S1E	115	22	40	L	50	50
738141	S1E	115	22	50	L	50	50
752611	S1E	115	22	60	L	50	50
799721	S1E	115	22	80	L	50	50
799722	S1E	115	22	120	L	50	50
799723	S1E	125	22	24	L	50	50
799725	S1E	125	22	36	L	50	50
799727	S1E	125	22	40	L	50	50
799741	S1E	125	22	60	L	50	50
799742	S1E	125	22	80	L	50	50
799743	S1E	125	22	120	L	50	50

KK772K



VSM COMPACTGRAIN (AO)



Bonding	Full-resin bonded
Colour	Grey
Backing	J-Polyester
Flexibility	Flexible

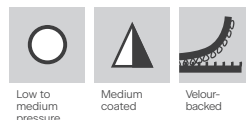
Materials



Stainless Steel

Unalloyed Steel

Features



Low to medium pressure

Medium coated

Velour-backed

Compact-grain velour disc with grain reserves made of aluminium oxide that wear down easily, for continuous self-sharpening with low contact pressure. Thanks to its wide grit-size spectrum, KK772K is suitable for many areas of application, from rough to fine grinding. Achieves constant stock removal and uniform surfaces over its entire, very long service life.

Grit range:



Art. No.	Specification	ø (mm) ▼	Grit	Type	PU	Sales Unit
702436	S	115	80	F	50	2000
702437	S	115	120	L	50	50
702438	S	115	180	L	50	50
771843	S	115	240	L	50	50
735603	S	115	320	L	50	50
735605	S	115	400	L	50	50
735623	S	115	600	L	50	50
702433	S	115	800	F	50	2000
702442	S	115	1000	F	50	2000
702447	S	115	1200	F	50	2000
708628	S	125	80	L	50	50
708641	S	125	120	L	50	50
708648	S	125	180	L	50	50
708651	S	125	240	L	50	50
708654	S	125	320	L	50	50
708672	S	125	400	L	50	50
708676	S	125	600	L	50	50
708682	S	125	800	L	50	50
708703	S	125	1200	L	50	50

*) designed for use with VSM back-up pad ZKLF for low and medium speed angle grinders (page 144).

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Version 11/23. Subject to change. **Other dimensions and grits / degrees of fineness upon request.**

XK760K

VSM CERAMICS

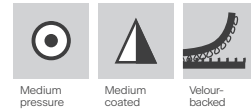


Bonding	Full-resin bonded
Colour	Red-violet
Backing	X-Polyester
Flexibility	Sturdy

Materials



Features



Multi-purpose ceramic-grain velour disc with self-sharpening effect and aggressive grinding. Has a very long service life when processing stainless steel tanks and containers. XK760K is used especially by metalworking plants that manufacture items for the food, chemical and pharmaceutical industries.

Grit range:



Art. No.	Specification	∅ (mm) ▼	Grit	Type	PU	Sales Unit
718473	S	125	40	L	25	25
701252	S	125	60	L	50	50
777090	S	125	80	L	50	50

*) designed for use with VSM back-up pad ZKL for medium and high speed angle grinders and for VSM back-up pad ZKLF for low and medium speed angle grinders (page 144).

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Version 11/23. Subject to change. **Other dimensions and grits / degrees of fineness upon request.**

XK870K



VSM CERAMICS



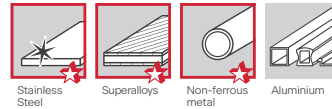
Bonding Full-resin bonded

Colour Red

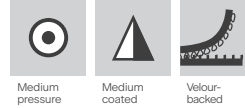
Backing X-Polyester

Flexibility Sturdy

Materials



Features



Self-sharpening ceramic grain for grinding stainless steels and superalloys. Ideal for cleaning, deburring and levelling bodywork components in the automotive industry. The TOP SIZE grinding-active layer significantly reduces the temperature in the grinding zone.

Grit range:



Art. No.	Specification	ø (mm) ▼	Grit	Type	PU	Sales Unit
748301	S	115	60	L	50	50
746670	S	115	80	L	50	50
754790	S	115	100	L	50	50
719437	S	115	120	L	50	50
748295	S	125	60	L	50	50
748299	S	125	80	L	50	50
754916	S	125	100	L	50	50
745161	S	125	120	L	50	50
748308	S	150	60	L	50	50
748309	S	150	80	L	50	50
754792	S	150	100	L	50	50
745162	S	150	120	L	50	50

*) designed for use with VSM back-up pad ZKL for medium and high speed angle grinders and for VSM back-up pad ZKLF for low and medium speed angle grinders (page 144).

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Version 11/23. Subject to change. **Other dimensions and grits / degrees of fineness upon request.**

ZK713K

VSM ZIRCONIA ALUMINA

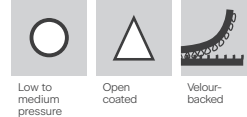


Bonding	Full-resin bonded
Colour	Blue
Backing	X-Polyester
Flexibility	Sturdy

Materials



Features



Zirconia alumina velour disc for very high stock removal rates with low contact pressure. Good alternative to XK870K for machining unalloyed steels, and if the TOP SIZE grinding-active additional layer can be omitted.

Grit range:



Art. No.	Specification	∅ (mm) ▼	Grit	Type	PU	Sales Unit
749515	S	150	40	L	25	25
759314	S	150	60	L	50	50
759316	S	150	80	L	50	50

*) designed for use with VSM back-up pad ZKL for medium and high speed angle grinders and for VSM back-up pad ZKLF for low and medium speed angle grinders (page 144).

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Version 11/23. Subject to change. **Other dimensions and grits / degrees of fineness upon request.**

KP131K

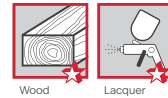


VSM ALUMINIUM OXIDE

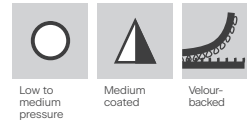


Bonding	Full-resin bonded
Colour	Brown
Backing	C-Paper (60-120) B-Paper (150-400)

Materials



Features



Thanks to its good chip clearance and low tendency to clog, KP131K is ideal for machining wood or painted surfaces.

Grit range:



Art. No.	Specification	∅ (mm)	∅ Centre hole (mm)	Grit	Z-No.	Type	PU	Sales Unit
714262	S0	125		60	021	L	50	50
714263	S0	125		80	021	L	50	50
714264	S0	125		100	021	L	50	50
714265	S0	125		120	021	L	50	50
714266	S0	125		180	021	L	50	50
714267	S0	125		240	021	L	50	50
714302	S0	150	18	60	076	L	50	50
714303	S0	150	18	80	076	L	50	50
714304	S0	150	18	100	076	L	50	50
745952	S0	150	18	120	076	L	50	50
714313	S0	150	18	150	076	L	50	50
714317	S0	150	18	180	076	L	50	50
714318	S0	150	18	240	076	L	50	50
714321	S0	150	18	400	076	L	50	50
714270	S0	150		60	019	L	50	50
714271	S0	150		80	019	L	50	50
714272	S0	150		100	019	L	50	50
714273	S0	150		120	019	L	50	50
714280	S0	150		150	019	L	50	50
714285	S0	150		180	019	L	50	50
714286	S0	150		240	019	L	50	50
714287	S0	150		320	019	L	50	50
714290	S0	150		400	019	L	50	50

*) designed for use with VSM back-up pad ZKL for medium and high speed angle grinders (page 144).

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Version 11/23. Subject to change. **Other dimensions and grits / degrees of fineness upon request.**

KV701K



VSM NON-WOVEN (AO)

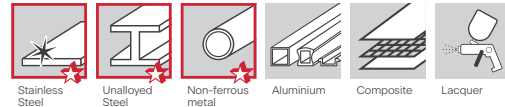


Bonding Full-resin bonded

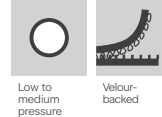
Colour Red-brown

Material Polyamide fibre

Materials



Features



Velour non-woven disc with a soft structure for optimum adaptation to the shape of the workpiece. Ideal for cleaning tasks or for surface finishing in container construction for the chemical, food and kitchen industries. The open non-woven fabric prevents clogging and ensures a long service life.

Fineness range:



Art. No.	Specification	∅ (mm) ▾	Grit	Type	PU	Sales Unit
729010	S	115	100	L	10	10
729011	S	115	180	L	10	10
729012	S	115	280	L	10	10
702114	S	125	100	L	10	10
702115	S	125	180	L	10	10
749390	S	125	280	L	10	10
729013	S	150	100	L	10	10
729014	S	150	180	L	10	10
729015	S	150	280	L	10	10

*) designed for use with VSM back-up pad ZKL for medium and high speed angle grinders (page 144).

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Version 11/23. Subject to change. **Other dimensions and grits / degrees of fineness upon request.**

KV707K



VSM NON-WOVEN (AO)

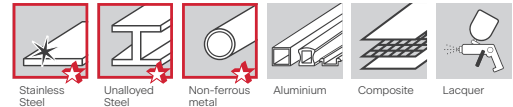


Bonding Full-resin bonded

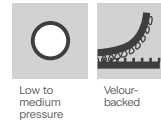
Colour Coarse = brown
Medium = red
Very fine = blue

Material X-Polyester

Materials



Features



Surface conditioning velour disc with a wide range of applications, from deburring work to the final finishing of surfaces of cast, forged or punched parts.

Fineness range:



Art. No.	Specification	∅ (mm) ▼	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
752671	S	115		100	L	20	20
752672	S	115		180	L	20	20
752673	S	115		240	L	20	20
790868	S0	125	22	100	L	20	20
790871	S0	125	22	180	L	20	20
752674	S	125		100	L	20	20
752675	S	125		180	L	20	20
752676	S	125		240	L	20	20
761760	S	150		100	L	20	20
761761	S	150		180	L	20	20
761762	S	150		240	L	20	20

*) designed for use with VSM special back-up pad ZVL for low and medium speed angle grinders (page 144).

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Version 11/23. Subject to change. **Other dimensions and grits / degrees of fineness upon request.**

KV710X

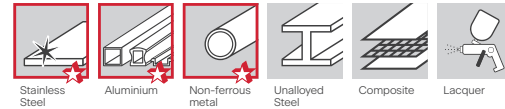


VSM NON-WOVEN (AO/SIC)



Bindung	Full-resin bonded
Farbe	Coarse = brown (AO) Medium = red (AO) Very fine = blue (SIC) Ultra fine = grey (SIC)
Trägermaterial	X-Polyester

Materials



Features



Surface conditioning velour disc with an optimised fibre structure for a longer service life. Thanks to robust polyester backings, and fineness grades ranging from coarse to ultra fine, this product is suitable for a wide range of applications, from deburring work to finishing surfaces with high gloss grades. The open non-woven fabric prevents clogging and smearing, even with non-ferrous metals, and ensures a long service life and a larger quantity of ground workpieces.

Fineness range:



Art. No.	Specification	∅ (mm) ▼	∅ Centre hole (mm)	Grit	Type	PU	Sales Unit
707356	SO	115	22	100	F	20	100
707365	SO	115	22	180	L	20	20
707381	SO	115	22	240	F	20	100
707460	SO	125	22	100	L	20	20
707471	SO	125	22	180	L	20	20
707492	SO	125	22	240	L	20	20
741556	SO	125	22	400	L	20	20
707558	SO	150	22	100	F	20	100
707572	SO	150	22	180	F	20	100
707677	SO	150	22	240	F	20	100
707707	SO	180	22	100	F	20	100
707857	SO	180	22	180	F	20	100
707898	SO	180	22	240	F	20	100

*) designed for use with VSM special back-up pad ZVL for low and medium speed angle grinders (page 144).
The centre hole ∅ 22 mm is pre-punched and can be removed when using the back-up pad ZVLZ.

L = Stock items / F = Manufactured products / P = Categorized according to the FEPA standard
Version 11/23. Subject to change. **Other dimensions and grits / degrees of fineness upon request.**



VSM rolls

Possible applications

- > Manual grinding
- > Easy deburring
- > Smoothing, cleaning and roughing in order to prepare workpiece for further surface finishing
- > Roughing and polishing of surfaces and of shaped and profiled parts
- > Removing of paint and varnish coats

Specifications

Specification	Description
R	Rolls without packaging
RSPA	Rolls with plastic core (sleeve packaging)
RSPB	Economy rolls, in a box with integrated cutter

Dimensional tolerances for cut rolls

Width	Tolerance
> 1,000 mm	± 3 mm
51 mm to 1,000 mm	± 2 mm
≤ 50 mm	± 1 mm

Length	Tolerance
all	± 1 m



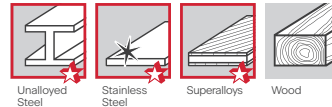
KK114F

VSM ALUMINIUM OXIDE

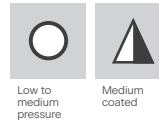


Bonding	Full-resin bonded
Colour	Red-brown
Backing	F-Cotton
Flexibility	Very flexible

Materials



Features



KK114F belongs on every workbench: It can be used universally in off-hand grinding. It moulds around the finest contours thanks to its very flexible backing and can be easily torn off to the required length.

Grit range:



Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
726485	RSPA	25	M50	60	L	50	50
726486	RSPA	25	M50	80	L	50	50
726487	RSPA	25	M50	100	L	50	50
726488	RSPA	25	M50	120	L	50	50
726489	RSPA	25	M50	150	L	50	50
726490	RSPA	25	M50	180	L	50	50
726491	RSPA	25	M50	220	L	50	50
726492	RSPA	25	M50	240	L	50	50
726494	RSPA	25	M50	320	L	50	50
726496	RSPA	25	M50	400	L	50	50
726527	RSPA	40	M50	40	L	50	50
726529	RSPA	40	M50	60	L	50	50
726530	RSPA	40	M50	80	L	50	50
726531	RSPA	40	M50	100	L	50	50
726532	RSPA	40	M50	120	L	50	50
726533	RSPA	40	M50	150	L	50	50
726534	RSPA	40	M50	180	L	50	50
726535	RSPA	40	M50	220	L	50	50
726536	RSPA	40	M50	240	L	50	50
726538	RSPA	40	M50	320	L	50	50
726540	RSPA	40	M50	400	L	50	50

(continued on page 123)

**RSPA = Rolls with plastic core/RSPB = Rolls in a box with integrated cutter/
L = Stock items/F = Manufactured products / P = Categorized according to the FEPA standard
Version 11/23. Subject to change. Other dimensions and grits/degrees of fineness upon request.**

KK114F

(continued from page 122)

Art. No.	Specification	Width (mm) ▼	Length (m)	Grit	Type	PU	Sales unit
726555	RSPA	50	M50	40	L	50	50
726557	RSPA	50	M50	60	L	50	50
726558	RSPA	50	M50	80	L	50	50
726559	RSPA	50	M50	100	L	50	50
726560	RSPA	50	M50	120	L	50	50
726561	RSPA	50	M50	150	L	50	50
726562	RSPA	50	M50	180	L	50	50
726563	RSPA	50	M50	220	L	50	50
726564	RSPA	50	M50	240	L	50	50
726565	RSPA	50	M50	280	L	50	50
726566	RSPA	50	M50	320	L	50	50
726568	RSPA	50	M50	400	L	50	50
726645	RSPB	25	M50	40	L	50	50
726647	RSPB	25	M50	60	L	50	50
726648	RSPB	25	M50	80	L	50	50
726649	RSPB	25	M50	100	L	50	50
726650	RSPB	25	M50	120	L	50	50
726651	RSPB	25	M50	150	L	50	50
726652	RSPB	25	M50	180	L	50	50
726654	RSPB	25	M50	240	L	50	50
726656	RSPB	25	M50	320	L	50	50
726657	RSPB	25	M50	400	L	50	50
726658	RSPB	40	M50	40	L	50	50
726659	RSPB	40	M50	60	L	50	50
726660	RSPB	40	M50	80	L	50	50
726661	RSPB	40	M50	100	L	50	50
726662	RSPB	40	M50	120	L	50	50
726663	RSPB	40	M50	150	L	50	50
726664	RSPB	40	M50	180	L	50	50
726666	RSPB	40	M50	240	L	50	50
726668	RSPB	40	M50	320	L	50	50
726669	RSPB	40	M50	400	L	50	50
761131	RSPB	50	M50	40	L	50	50
726671	RSPB	50	M50	60	L	50	50
726672	RSPB	50	M50	80	L	50	50
726673	RSPB	50	M50	100	L	50	50
726674	RSPB	50	M50	120	L	50	50
726675	RSPB	50	M50	150	L	50	50
726676	RSPB	50	M50	180	L	50	50
761133	RSPB	50	M50	240	L	50	50
761134	RSPB	50	M50	320	L	50	50
761135	RSPB	50	M50	400	L	50	50

(continued on page 124)

**RSPA = Rolls with plastic core/RSPB = Rolls in a box with integrated cutter/
L = Stock items/F = Manufactured products / P = Categorised according to the FEPA standard
Version 11/23. Subject to change. Other dimensions and grits/degrees of fineness upon request.**

KK114F

(continued from page 123)

Art. No.	Specification	Width (mm) ▼	Length (m)	Grit	Type	PU	Sales unit
720569	R	100	M50	40	L	50	50
720571	R	100	M50	60	L	50	50
720572	R	100	M50	80	L	50	50
720573	R	100	M50	100	L	50	50
720574	R	100	M50	120	L	50	50
720575	R	100	M50	150	L	50	50
720576	R	100	M50	180	L	50	50
720577	R	100	M50	220	L	50	50
720578	R	100	M50	240	L	50	50
720580	R	100	M50	320	L	50	50
720582	R	100	M50	400	L	50	50
720593	R	110	M50	80	L	50	50
720594	R	110	M50	100	L	50	50
720595	R	110	M50	120	L	50	50
720597	R	110	M50	180	L	50	50
720598	R	110	M50	220	L	50	50
720601	R	110	M50	320	L	50	50
720602	R	110	M50	400	L	50	50
720610	R	115	M50	40	L	50	50
720612	R	115	M50	60	L	50	50
720613	R	115	M50	80	L	50	50
720614	R	115	M50	100	L	50	50
720615	R	115	M50	120	L	50	50
720616	R	115	M50	150	L	50	50
720617	R	115	M50	180	L	50	50
720619	R	115	M50	240	L	50	50
720620	R	115	M50	320	L	50	50
720622	R	115	M50	400	L	50	50
720624	R	120	M50	40	L	50	50
720626	R	120	M50	60	L	50	50
720627	R	120	M50	80	L	50	50
720628	R	120	M50	100	L	50	50
720629	R	120	M50	120	L	50	50
720630	R	120	M50	150	L	50	50
720631	R	120	M50	180	L	50	50

**RSPA = Rolls with plastic core/RSPB = Rolls in a box with integrated cutter/
L = Stock items/F = Manufactured products / P = Categorized according to the FEPA standard**
Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

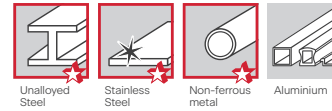
KK711X

VSM ALUMINIUM OXIDE

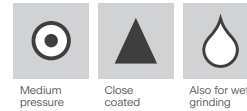


Bonding	Full-resin bonded
Colour	Red-brown
Backing	X-Polyester (P20–P80) X-Cotton (P100–P400)
Flexibility	Sturdy

Materials



Features



Universal, high-performance aluminium oxide abrasive with a sturdy polyester or cotton cloth backing. The wide range of grit sizes makes it an excellent all-rounder: It can be used for deburring work with the P24, for example after laser cutting or water jet cutting. It also withstands extreme stresses, caused by sharp edges or sharp burrs, for example, and can also be used for polishing work with the P400.

Grit range:



Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
722771	R	300	M50	40	L	50	50
722772	R	300	M50	50	L	50	50
722773	R	300	M50	60	L	50	50
722774	R	300	M50	80	L	50	50
722775	R	300	M50	100	L	50	50
722776	R	300	M50	120	L	50	50
722777	R	300	M50	150	L	50	50
722778	R	300	M50	180	L	50	50
722780	R	300	M50	240	L	50	50
722781	R	300	M50	280	L	50	50
722782	R	300	M50	320	L	50	50
722783	R	300	M50	400	L	50	50

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L = Stock items/F = Manufactured products / P = Categorized according to the FEPA standard
Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

ZK713X

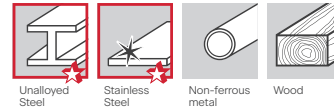


VSM ZIRCONIA ALUMINA

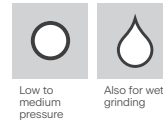


Bonding	Full-resin bonded
Colour	Blue
Backing	X-Polyester (24–P150) X-Cotton (P180–P320)
Flexibility	Sturdy

Materials



Features



The ideal workshop grinding belt for daily use with different workpieces and materials. Versatile use on various machines for dry grinding, for example when deburring sheets. High stock removal rates even with low contact pressure.

Grit range:



Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
724871	R	300	M50	24	F	50	50
724872	R	300	M50	36	F	50	50
724873	R	300	M50	40	F	50	50
724874	R	300	M50	50	F	50	50
724875	R	300	M50	60	F	50	50
724876	R	300	M50	80	F	50	50
724877	R	300	M50	100	F	50	50
724878	R	300	M50	120	F	50	50
724879	R	300	M50	150	F	50	50
798320	R	300	M50	180	F	50	50
798337	R	300	M50	220	F	50	50
798321	R	300	M50	240	F	50	50
798322	R	300	M50	320	F	50	50

**RSPA = Rolls with plastic core/RSPB = Rolls in a box with integrated cutter/
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Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

CV701



VSM NON-WOVEN (SIC)



Bonding Full-resin bonded

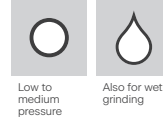
Colour Grey

Material Polyamide fibre

Materials



Features



A clean and finish product with fine grit sizes (280, 400, 1000) as a supplement to KV701. Ideal for off-hand grinding or in combination with disc and orbital sanders. Both sides of the open non-woven fibre fabric can be used and it is suitable for use in the production of grinding tools such as grinding wheels, drums or discs.

Fineness range:



Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
720488	R	100	M10	400	L	10	10
720490	R	115	M10	280	L	10	10
720491	R	115	M10	400	L	10	10
720492	R	115	M10	1000	L	10	10

RSPA = Rolls with plastic core/RSPB = Rolls in a box with integrated cutter/
 L = Stock items/F = Manufactured products / P = Categorized according to the FEPA standard
 Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**

KV301

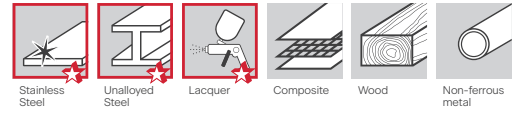


VSM NON-WOVEN (AO)

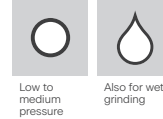


Bonding	Full-resin bonded
Colour	Red-brown
Material	Polyamide fibre

Materials



Features



Open-texture clean & finish non-woven for off-hand grinding. Both sides can be used. Ideal for cleaning hand tools and metal fittings as well as creating a defined scratch pattern. Available in medium grit sizes (100, 180, 280).

Fineness range:



Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
751152	R	100	M10	180	L	10	10
751153	R	100	M10	280	L	10	10
751243	R	115	M10	100	L	10	10
751244	R	115	M10	180	L	10	10
751245	R	115	M10	280	L	10	10

RSPA = Rolls with plastic core/RSPB = Rolls in a box with integrated cutter/
 L = Stock items/F = Manufactured products / P = Categorized according to the FEPA standard
 Version 11/23. Subject to change. Other dimensions and grits/degrees of fineness upon request.

KV701

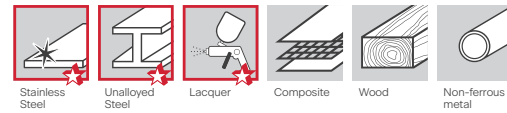


VSM NON-WOVEN (AO)

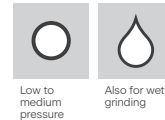


Bonding	Full-resin bonded
Colour	Red-brown
Material	Polyamide fibre

Materials



Features



Clean and finish product with medium grit sizes (100, 180, 280) for use with disc and orbital sanders. The non-woven has an impressively long service life – even when processing turbine blades. Both sides can be used. The open-texture non-woven fibre fabric can also be used in the manufacture of grinding tools such as grinding wheels, drums or discs.

Fineness range:



Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
724696	R	100	M10	280	L	10	10
724698	R	115	M10	100	L	10	10
780454	R	115	M10	180	L	10	10
724699	R	115	M10	280	L	10	10

RSPA = Rolls with plastic core/RSPB = Rolls in a box with integrated cutter/
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 Version 11/23. Subject to change. **Other dimensions and grits/degrees of fineness upon request.**



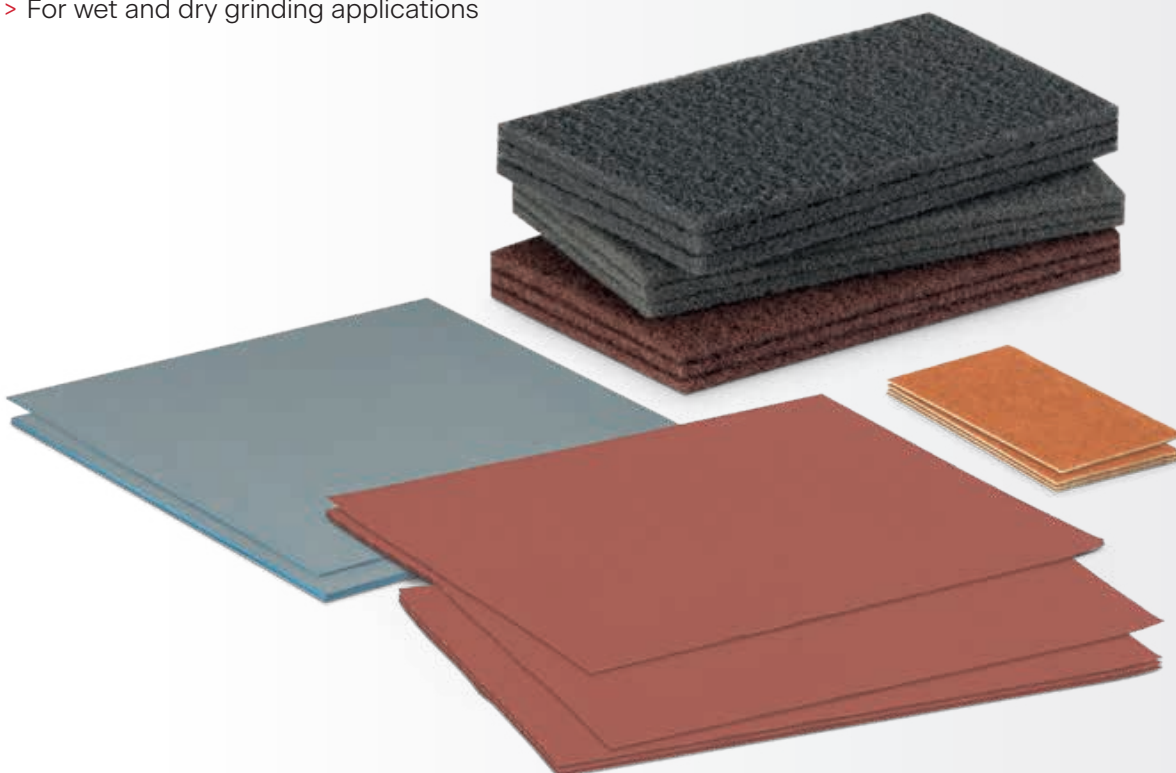
VSM sheets and pads

Possible applications

- > Manual grinding
- > Easy deburring
- > Smoothing, cleaning and roughing in order to prepare workpiece for further surface finishing
- > Roughing and polishing of surfaces and of shaped and profiled parts
- > Removing of paint and varnish coats
- > Paints and coats in the car repair sector

Your advantages

- > For universal use
- > Flexible handling
- > May be cut or torn to measure
- > For wet and dry grinding applications



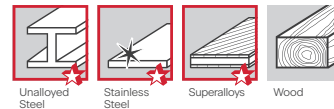
KK114F

VSM ALUMINIUM OXIDE

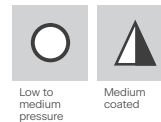


Bonding	Full-resin bonded
Colour	Red-brown
Backing	F-Cotton
Flexibility	Very flexible

Materials



Features



KK114F belongs on every workbench: It can be used universally in off-hand grinding. It moulds around the finest contours thanks to its very flexible backing and can be easily torn off to the required length.

Grit range:

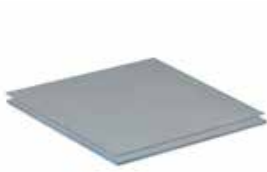


Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
700037	B	230	280	40	L	50	50
700038	B	230	280	50	L	50	50
700039	B	230	280	60	L	50	50
700040	B	230	280	80	L	50	50
700041	B	230	280	100	L	50	50
700042	B	230	280	120	L	50	50
700043	B	230	280	150	L	50	50
700044	B	230	280	180	L	50	50
700045	B	230	280	220	L	50	50
700046	B	230	280	240	L	50	50
700047	B	230	280	280	L	50	50
700048	B	230	280	320	L	50	50
700049	B	230	280	360	L	50	50
700050	B	230	280	400	L	50	50

L = Stock items / F = Manufactured products / P = Categorized according to the FEPA standard
Version 11/23. Subject to change. Other dimensions and grits / degrees of fineness upon request.

CP918A

VSM SILICON CARBIDE

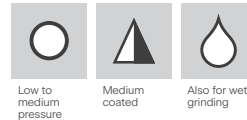


Bonding	Full-resin bonded
Colour	Black
Backing	A-Paper

Materials



Features



The specialist product for the sanding and intermediate sanding of paint coatings: The silicon carbide on lightweight latex paper achieves good adaptability to the workpiece contours, also in wet grinding.

Grit range:

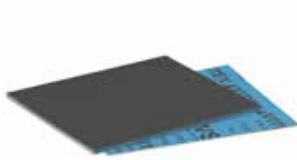


Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
700012	B	230	280	220	L	50	50
700013	B	230	280	240	L	50	50
700014	B	230	280	280	L	50	50
700015	B	230	280	320	L	50	50
700016	B	230	280	360	L	50	50
700017	B	230	280	400	L	50	50
700018	B	230	280	500	L	50	50
700019	B	230	280	600	L	50	50
700020	B	230	280	800	L	50	50
700021	B	230	280	1000	L	50	50
700022	B	230	280	1200	L	50	50

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Version 11/23. Subject to change. Other dimensions and grits / degrees of fineness upon request.

CP918C

VSM SILICON CARBIDE



Bonding	Full-resin bonded
Colour	Black
Backing	C-Paper

Materials



Features



Low to medium pressure



Medium coated



Also for wet grinding

Silicon carbide abrasive on a stable, harder latex paper for machining painted surfaces, using dry or wet grinding techniques.

Grit range:



Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
700024	B	230	280	100	L	50	50
700025	B	230	280	120	L	50	50
700026	B	230	280	150	L	50	50
700027	B	230	280	180	L	50	50

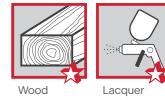
KP131K

VSM ALUMINIUM OXIDE

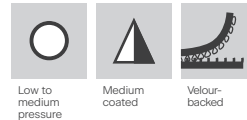


Bonding	Full-resin bonded
Colour	Brown
Backing	C-Paper (P60-P120) B-Paper (P150-P400)

Materials



Features



Thanks to its good chip clearance and low tendency to clog, KP131K is ideal for machining wood or painted surfaces.



for **Vitexo hand sanding block**
(page 142)

Grit range:



Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
740807	B	67	140	60	L	500	500
740808	B	67	140	80	L	500	500
740867	B	67	140	100	L	500	500
740868	B	67	140	120	L	500	500
740869	B	67	140	150	L	500	500
740870	B	67	140	180	L	500	500
740871	B	67	140	240	L	500	500

CV301

VSM NON-WOVEN (SIC)

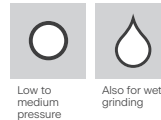


Bonding	Full-resin bonded
Colour	Grey
Material	Polyamide fibre

Materials

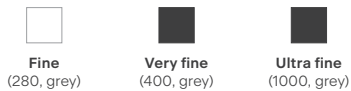


Features



A clean and finish non-woven fibre fabric for excellent adaptation to the shape of the workpiece in off-hand grinding. For machining cast, forged and punched parts, and for grinding coils, sheets or wire. Recommended for clean and finish applications for medical instruments and containers. The silicon carbide grains embedded in the non-woven achieve fine scratch patterns with high gloss levels.

Fineness range:



Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
751136	B	150	229	400	L	10	10
751137	B	150	229	1000	L	10	10

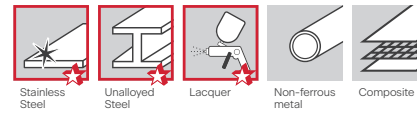
CV701

VSM NON-WOVEN (SIC)

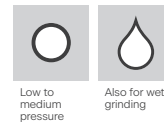


Bonding	Full-resin bonded
Colour	Grey
Material	Polyamide fibre

Materials



Features



A clean and finish product with fine grit sizes (280, 400, 1000) as a supplement to KV701. Ideal for off-hand grinding or in combination with disc and orbital sanders. Both sides of the open non-woven fibre fabric can be used and it is suitable for use in the production of grinding tools such as grinding wheels, drums or discs.

Fineness range:



Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
709736	B	150	229	400	L	10	10
709738	B	150	229	1000	L	10	10

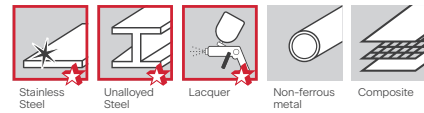
KV301

VSM NON-WOVEN (AO)

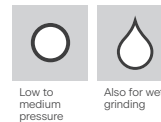


Bonding	Full-resin bonded
Colour	Red-brown
Material	Polyamide fibre

Materials



Features



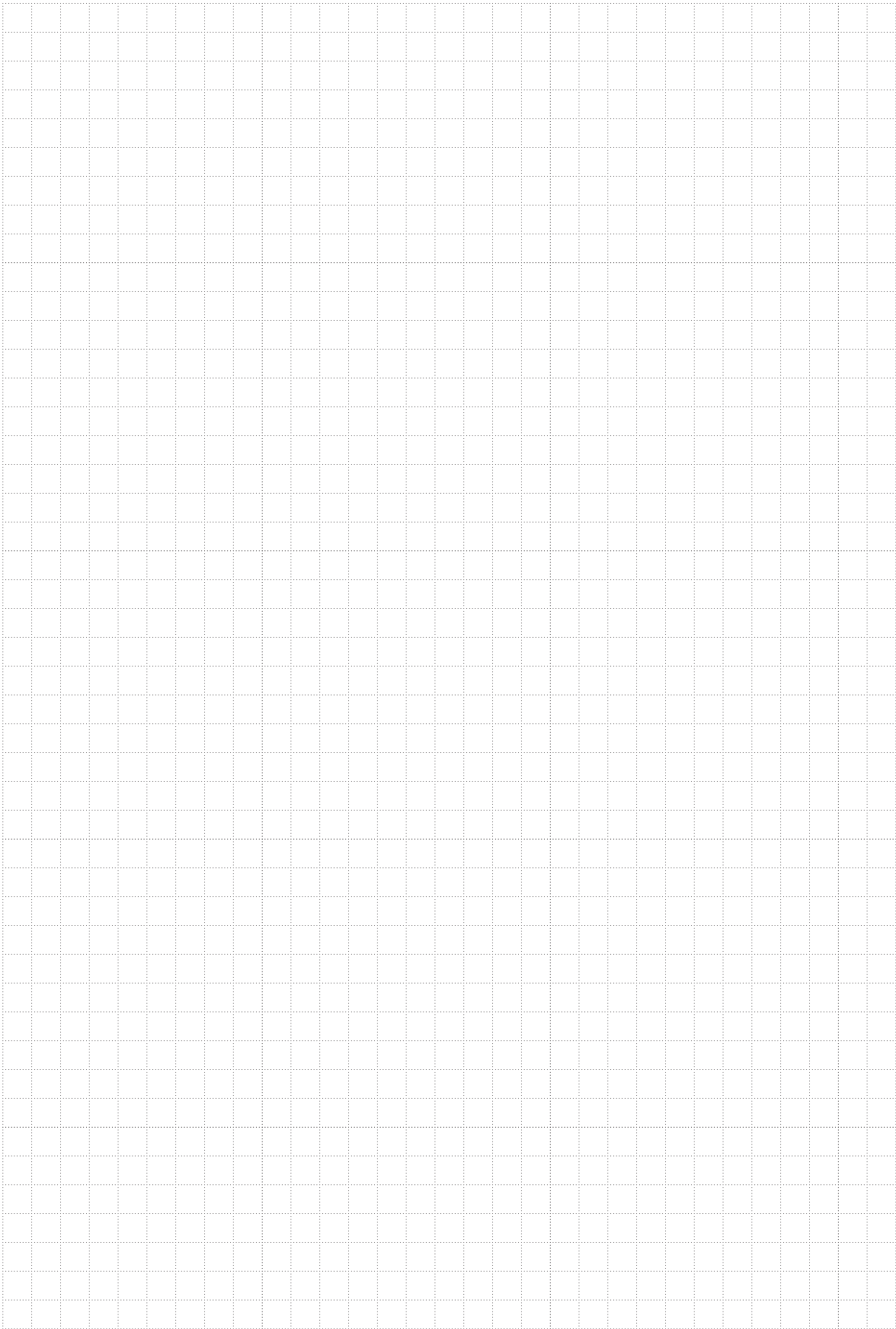
Open-texture clean & finish non-woven for off-hand grinding. Both sides can be used. Ideal for cleaning hand tools and metal fittings as well as creating a defined scratch pattern. Available in medium grit sizes (100, 180, 280).

Fineness range:



Art. No.	Specification	Width (mm) ▾	Length (m)	Grit	Type	PU	Sales unit
751133	B	150	229	100	L	10	10
751134	B	150	229	180	L	10	10
751135	B	150	229	280	L	10	10

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Version 11/23. Subject to change. **Other dimensions and grits / degrees of fineness upon request.**





VSM accessories

VSM accessories for abrasives simplify operations and increase efficiency

- > The tear-off mechanism of roll holders reduces consumption.
- > VSM back-up pads in various shapes and models guarantee safe support, stability and cool handling.



Magazines and holders



Roll magazine

The VSM magazine which holds a supply of up to five rolls for proper storage at the workplace. It makes it possible to use just what is needed thanks to a tear-off mechanism. Designed for rolls with a maximum width of 50 mm.

Art. No.	Designation	Type	PU	Sales Unit
799521	Z5R	L	1	1



Roll holder

VSM roll holder for proper storage of one roll at the workplace. Designed for rolls with a maximum width of 50 mm.

Art. No.	Designation	Type	PU	Sales Unit
718874	Z1R	L	1	1



Fibre disc holder

For the proper storage of fibre discs of up to \varnothing 235 mm, with centre hole \varnothing 22 mm. To be kept at the workplace. Firmly clamped to prevent distortions.

Art. No.	Designation	\varnothing (mm)	Type	PU	Sales Unit
752690	ZFI	180	L	1	1

Hand sanding block



VSM Vitexo hand sanding block, double-sided use

The VSM hand sanding block features an ergonomic shape and is highly flexible. VSM velour-backed pads may be used on either side. The hand sanding block is a multipurpose tool. Pads for the hand sanding block can be found on page 137.

Art. No.	Designation	Width (mm)	Length (mm)	Type	PU	Sales Unit
731027	ZKL	67	140	L	16	16

L = Stock items: Delivery time 48 hours. Version 11/23. Subject to change.

Back-up pads for fibre discs



Back-up pad, medium-hard

Backing pad for smooth transitions from the grinding zone to the surrounding area. Very easy handling. Suitable for medium- to heavy-duty use.

Art. No.	Designation	ø (mm)	Thread	Type	PU	Sales Unit
790893	ZFI	115	M14	L	10	10
790894	ZFI	125	M14	L	10	10
790895	ZFI	150	M14	L	10	10
790896	ZFI	180	M14	L	10	10



TURBO PAD 1 – Back-up pad, hard, with cooling fins

Cooling fins and holes in the pad reduce the amount of heat generated during grinding. Cooler grinding extends the service life of the abrasive. For heavy-duty use. Allows very good control of the angle grinder on the workpiece.

Art. No.	Designation	ø (mm)	Thread	Type	PU	Sales Unit
731302	ZFT1	115	M14	L	10	10
731303	ZFT1	125	M14	L	10	10
783387	ZFT1	150	M14	L	10	10
731306	ZFT1	180	M14	L	10	10



TURBO PAD 2 – Back-up pad, hard, with cooling fins, cambered

The cooling fins reduce the amount of heat generated during grinding. Cooler grinding extends the service life of the abrasive. The cambering improves stock removal and reduces the amount of vibration. For heavy-duty use and for processing flat and slightly contoured workpieces.

Art. No.	Designation	ø (mm)	Thread	Type	PU	Sales Unit
767210	ZFT2	115	M14	L	10	10
767271	ZFT2	125	M14	L	10	10
767271	ZFT2	180	M14	L	10	10
758852	ZFT2	125	XLOCK	L	1	1



TURBO PAD 3 – Back-up pad, extra hard, with cooling fins, cambered

The cooling fins reduce the amount of heat generated during grinding. Cooler grinding extends the service life of the abrasive. Ensures a significant increase in performance and maximised stock removal, especially with AF890. Enables selective grinding with a clearly defined grinding zone. Recommended for flat workpieces and very heavy-duty applications.

Art. No.	Designation	ø (mm)	Thread	Type	PU	Sales Unit
776385	ZFT3	115	M14	L	10	10
776386	ZFT3	125	M14	L	10	10
776387	ZFT3	180	M14	L	10	10
788462	ZFT3	115	5/8UN	L	10	10
788469	ZFT3	125	5/8UN	L	10	10
788498	ZFT3	180	5/8UN	L	10	10

L = Stock items: Delivery time 48 hours. Version 11/23. Subject to change.

Back-up pads for paper and cloth discs



Back-up pads for velour-backed discs, hard

Hard velour-backed back-up pad for use on medium and high speed angle grinders.

Art. No.	Designation	ø (mm)	Thread	Type	PU	Sales Unit
731018	ZKL	115	M14	L	10	10
731020	ZKL	125	M14	L	10	10
731021	ZKL	150	M14	L	10	10



Back-up pad for velour-backed discs, soft, with cellular rubber

Velour-backed back-up pad with a 12 mm cellular rubber layer. For use on low and medium speed angle grinders.

Art. No.	Designation	ø (mm)	Thread	Type	PU	Sales Unit
761661	ZKLF	115	M14	L	10	10
783366	ZKLF	125	M14	L	10	10



Back-up pad for non-woven discs

Special back-up pad for non-woven discs KV707K (page 119) and KV710X (page 120). For use on low and medium speed angle grinders.

Art. No.	Designation	ø (mm)	Thread	Type	PU	Sales Unit
731023	ZVL	115	M14	L	10	10
731024	ZVL	125	M14	L	10	10



Back-up pad for non-woven discs, with centering collar

Special back-up pad for non-woven discs KV707K (page 119) and KV710X (page 120), ø 125 mm with center hole ø 22 mm (page 119). For use on low and medium speed angle grinders.

Art. No.	Designation	ø (mm)	ø centering collar (mm)	Thread	Type	PU	Sales Unit
795272	ZVLZ	125	22	M14	L	10	10

L = Stock items: Delivery time 48 hours. Version 11/23. Subject to change.

General Terms & Conditions

§ 1 Scope

1. These terms and conditions shall not apply to contracts with endusers.
2. Otherwise these terms and conditions shall apply exclusively unless otherwise agreed in writing. Conflicting or deviating terms and conditions of the customer are not binding for us, even if we have not expressly objected to these or have made the delivery in the knowledge of conflicting terms and conditions.

§ 2 Contract

1. Our offers are without obligation with regard to price, quantity, delivery and lead time. Customer orders shall only become binding upon receipt of written acceptance in the form of printed confirmation (invoice or delivery note).
2. Other orders, instructions, explanations and notifications of the customer are valid without a form. Subsequent changes are to be clearly marked as such. The burden of proof for the contents as well as the correct and complete transmission shall be done by the party who refers thereto.
3. Insofar as the written form is requested for explanations remote data transmission and all other legible forms shall be deemed equivalent to a written form provided the sender can be identified.

§ 3 Scope of deliveries and services

1. Insofar as documents (drawings, technical data, etc.) are enclosed with our offers, these are estimations only and in particular are not guaranteed. Advice which we may provide in terms of application technology either verbally, in writing and through tests is carried out to the best of our knowledge and is deemed as non-binding advice with regard to possible property rights of third parties. It does not release the customer from their own verification of the products delivered by us for their suitability for the intended processes and purposes.
2. The right is also expressly reserved to make changes in the productions methods, the recipes, the materials, etc. after the contract as long as the price and/or the essential specifications or the delivery time are not changed thereby.
3. We reserve the right to over- and under-deliver to a manufacturing tolerance of 10 % of the ordered quantity. The customer cannot derive any rights from such a discrepancy in quantities.

§ 4 Delivery dates

1. The delivery dates stated by us are non-binding. The pre-requisite is the full clarification of all questions relating to technical details. Any deviations need to be expressly agreed in writing.
2. If a specific delivery time is expressly agreed in writing we shall only be deemed in default after a separate written reminder and after expiry of the final deadline stated therein, which must be reasonable.
3. Force majeure of all kinds, unforeseeable disruption to operation, transport or shipment, fire damage, flooding, unforeseeable lack of manpower, energy, raw materials or auxiliary materials, strikes, lock-outs, government orders or other impediments for which we are not responsible, which reduce, delay or prevent or make unreasonable the production, the shipment, the acceptance or the use, release from the obligation to deliver and/or accept during the duration of the disruption. If the delivery and/or receipt is exceeded by more than 8 weeks as a result of the disruption then both parties are entitled to cancellation. With partial or full loss of our procurement sources we are not obliged to cover our requirements from third party sub-suppliers.
4. We reserve the right to make partial and/or early deliveries.
5. The adherence to delivery deadline by us presumes the timely and proper execution all contractual duties of the customer in particular his payment obligations.

§ 5 Risk Transfer, shipment, packaging

1. The risk of deterioration, loss or damages to the delivered goods shall pass to the customer upon despatch or collection by the customer. Unless otherwise agreed in writing, we reserve the right to choose the shipment route and the type of shipment.
2. There are no costs for standard packaging. Special packaging will be charged at cost. Costs associated with any special customer requests will also be charged to the customer. The same shall apply to increases in the cargo rates which occur after conclusion of the contract, possible additional re-routing costs, storage costs, etc., insofar as carriage paid delivery was not agreed.
3. Deliveries into countries abroad are made upon basis of the current Incoterms 2020.

§ 6 Price, payment terms, security

1. Our prices are valid for minimum net order values of EUR 160,--. Individual line items are subject to minimum quantities for made to order and stock items as shown in the relevant price list. The minimum order value of EUR 160,-- must be reached. For orders less than EUR 160,-- net we shall charge a surcharge of EUR 15,-- or increase the order to EUR 160,-- taking into account our sales units. Orders of less than EUR 60,-- net will not be delivered.
2. The prices which apply on the date upon which the order is placed shall be invoiced unless otherwise expressly agreed in writing. Should we generally increase our prices during the time between conclusion of the contract and delivery then the customer is entitled to cancel the contract within a period of 2 weeks after publication of the price increase unless the price increase is due explicitly to an increase in cargo rates. The right of cancellation shall not apply to permanent supply contracts (Continuous Obligation contracts). Deposits and pre-payments are to be made plus value added tax.
3. In case of changes in the financial circumstances of the customer after conclusion of the contract which may raise doubts about the customer meeting the payment obligation, or if we only become aware of such circumstances, then we shall be entitled to withhold the delivery of the goods until a) the customer either makes a pre-payment payment or b) has provided reasonable collateral. If the latter is not carried out within a reasonable period of time we are entitled to cancel the contract, also insofar as we have not provided the service yet.
4. Retention on the part of the customer is excluded. He may only offset against undisputed claims or claims which have been declared final and absolute.
5. We shall grant cash discount of 2 % (excluded bills of exchange) for payments received within 14 days from invoice date. The payment terms are 30 days net cash. The customer shall be deemed in default, without a reminder, with the expiry of the 30th day after invoice date. We reserve the right to use payments to settle the oldest due invoice item plus the interest on default and costs accrued on this amount in the following order: costs, interest, principal claim.
6. Bills of exchange and cheques are only accepted as conditional payment. The acceptance of bills of exchange requires our express written consent. In such a case the bank, discount and collection charges shall be charged separately to the account of the customer.

§ 7 Customer Claims for quality defects

1. We shall only accept rectification for quality defects according to the statutory regulations by improving defects in the recipe, the quality or in the design or delivering substitute goods at our choice free of charge within a reasonable period of time. Other or further claims of the customer owing to quality defects are excluded. Subclause 5 below remains unaffected.
2. In case of a complaint of quality defects samples of the reported goods are to be sent to us for assessment. The balance of the goods under complaint is to be kept available without specific request for the duration of one month – at no charge to us – on request these goods are to be returned to us for inspection.
3. Even with the existence of quality defects we are only obliged to subsequent rectification if the customer specifies in writing the recognisable quality defects according to §§ 377, 378 HGB [Commercial Code] within a period of 10 days after receipt of the goods and has informed us within this period unless he has resold the item in normal business transactions before discovery or identification of the quality.
4. Product specifications or other features of the delivered goods, which are mentioned in the order documents, do not include any warranted properties and/or guarantees.
5. If we are not willing to correct quality defects or are not in a position, within a reasonable time frame set to us, then the customer is entitled to cancel the contract or demand a reduction in the purchase price. Further claims of the customer, no matter for what legal grounds, – in particular claims for damages, also those of a non-contractual type – are excluded insofar as we, our executives and other vicarious agents can only be accused of ordinary negligence as a breach of duty. We shall only be liable for indirect damages and for damages which were not foreseeable at the time when the contract was concluded if there is a case of gross negligence. Mandatory statutory liability regulations remain unaffected.
6. The warranty period is 2 years from risk transfer.

§ 8 Retention of title

1. Title of goods shall only pass to the customer if he has met all his liabilities from the business relationship with us including secondary claims, claims for damages and the redemption of cheques/bills of exchange. This shall also apply to claims of such companies, in which we directly hold 50 % shares or more. The retention of title shall also continue to exist if individual claims are included in a current account and the balance is drawn and recognised.
 2. A possible processing or conversion of reserved goods by the customer is always undertaken on our behalf. If the reserved goods are processed with other items which do not belong to us we shall acquire the co-ownership for the new items as a ratio of the value of the reserved goods to the other processed items at the time of processing. Incidentally the same shall apply to the items produced as for the reserved goods themselves.
 3. We are entitled to demand that the reserved goods from the customer without setting a final deadline and without cancellation of the contract if he is in default with his obligations with us. The return of the reserved goods shall only represent a cancellation of the contract if we expressly declare this in writing.
 4. The customer is entitled to resell the delivered items. However he hereby assigns all claims to us which he acquires against the buyer or third parties from the resale no matter whether the reserved goods are resold without or after processing. The assignment comprises all claims with all secondary and security rights including bills of exchange and cheques. If reserved goods are sold together with other items at a total price the assignment shall be limited to the pro rata amount from our invoice for the co-sold reserved goods. If goods are sold in which we have a co-ownership share according to the above rules then the assignment is limited to that part of the claim, which corresponds with the co-ownership share of the goods delivered by us. If the customer uses the reserved goods for finishing items which are the property of a third party against payment he hereby assigns in advance his remuneration claim against the third party to us for the afore-mentioned security purpose. As long as the customer meets his payment obligations in time he is entitled to claims from a resale or a finishing process himself. He is not entitled to pledges of any assignments whatsoever.
 5. If our claims appear at risk to us, then the customer must inform his buyers of the assignment upon request and provide us with all necessary information and documents. The customer must inform us immediately of any claims of third parties to the reserved goods and assigned claims.
 6. If the value of the collateral to which we are entitled exceeds our claims which are to be secured against the customer by more than 20 % then we are, upon request of the customer, obliged to release collateral items.
- The collateral item to be released shall be chosen by us.

§ 9 Trademarks

1. It is not permitted to offer or deliver substitute products instead of our products with reference to these products nor to use the word „substitute“ in connection with our product designations no matter whether protected or not, in price lists and similar documentation nor to compare these with the designations of substitute products.
2. It is further not permitted when using our products for manufacturing purposes or further processing, to use our product designations, in particular our trademarks, on such goods or their packaging or in printed format and advertising material without our prior consent – in particular as a specification of a part. The delivery of products under a trademark is not to be classed as consent for the use of this trademark for the products produced from these.

§ 10 Place of performance and jurisdiction; applicable law; validity clause

1. The place of performance for the delivery is the respective shipment department, the place for payment is Hanover.
2. The place of jurisdiction for both parties is Hanover. We are also entitled to make our claims at the general place of jurisdiction of the customer.
3. German law shall apply exclusively. Customary trade terms are to be interpreted according to the respective applicable Incoterms. If agreed that we shall bear customs and import duties of the country of destination any increases in such duties which come into force between the submission of the order confirmation and delivery of the goods shall be for the account of the customer. All other fees, taxes and costs associated with the purchase contract shall also be borne by the customer.
4. Should individual clauses of these terms and conditions be invalid in whole or in part this shall have no effect on the validity of the other clauses or the other parts of such clauses. The parties must replace an invalid clause with a clause that, as far as possible, corresponds to the commercial intention of the invalid clause and is valid.

§ 11 Data protection

According to Art. 6 para. 1 sentence 1 lit. f) GDPR we point out that we store personal data, of which we are made aware of during the contract.

§ 12 International purchase contracts

Insofar as the buyer is registered outside Germany German law shall apply exclusively under the inclusion of the CISG. In this case the following special terms shall apply notwithstanding the afore-mentioned sales terms:

1. Contract amendments or cancellations must be made in writing. This shall also apply to agreements with regard to the cancellation of this written form clause.
2. We shall be liable to the buyer for damages according to the statutory provisions, insofar as a breach of contract is due to willful or gross negligent breach of duty for which we are responsible; or a fault of our representatives or vicarious agents shall be attributed to us. We shall also be liable according to the statutory provisions insofar as we breach an essential contractual duty.
3. In the event of delivery of goods in breach of the contract the buyer shall only be entitled to cancel the contract or to substitute delivery if claims for damages against us are excluded or it is not deemed reasonable for the buyer to use the goods which are in breach of the contract and claim for remaining damages. In these cases we are initially entitled to remedy the defect. If the remedy of the defect fails and/or it leads to an unreasonable delay the buyer is entitled, at his choice, to declare the contract null and void or demand substitute delivery. The buyer is also entitled to do this if the remedy of the defects causes unreasonable inconvenience or there is uncertainty about the reimbursement of possible expenses of the buyer. The remedy of the defect shall be deemed as failed after the second unsuccessful attempt.
4. Responses of the customer to an offer from us which assume an acceptance, however contain supplements or deviations, always represent a rejection of our offer associated with a new offer of the buyer, even if the supplements or deviations do not essentially change the conditions of the offer.
5. We do not guarantee that the goods delivered by us comply with the standards and laws at the location, at which the goods delivered by us are used or where they are resold unless it concerns international standards, i.e. in particular possible ISO Standard which apply to the goods or the buyer has informed us of the standards or other applicable regulations before conclusion of the contract and we have expressly confirmed their compliance. The technical compatibility of the goods delivered by us with tools and machines of the buyer or his buyers is the responsibility of the buyer unless we have expressly confirmed this.
6. The interest for arrears is 11 percentage points above the base lending rate according to § 247 BGB in the respective version.
7. If we have to repay the purchase price this shall bear interest according to Art. 84 Par. 1 CISG at the statutory interest rate according to § 246 BGB [Civil Code], should we be in arrears the interest rate valid on the day when arrears commenced will apply.
8. Notwithstanding Art. 90 CISG contracts made under the law of other countries are not valid.

Status: Hanover, November 2023

VSM AG

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of coated abrasives.

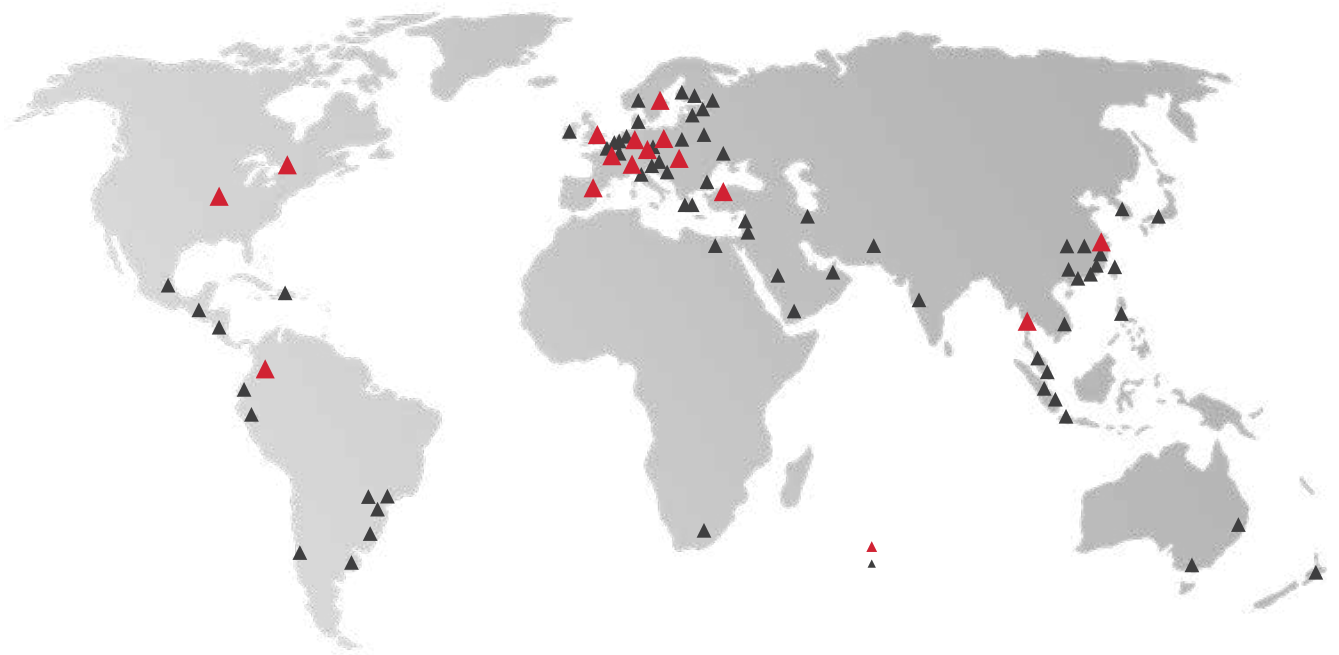


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Internal research and development – High vertical integration

High vertical integration VSM has its own internal grain and cloth production and develops almost all of its preliminary products itself.

VSM series register

	Series	Wide belts	Belts	File belts	Fibre discs	Discs	Rolls	Sheets and pads
NEW	AF799	-	-	-	100	-	-	-
NEW	AF890	-	-	-	101	-	-	-
NEW	AK890Y	-	49	-	-	-	-	-
	CK721X	40	50	-	-	-	-	-
	CK748X	-	51	-	-	-	-	-
	CK772T	-	52	-	-	-	-	-
	CK918X	-	53	-	-	-	-	-
	CP501	46	-	-	-	-	-	-
	CP918A	-	-	-	-	-	-	133
	CP918C	-	-	-	-	-	-	134
	CV301	-	-	-	-	-	-	136
	CV701	-	-	-	-	-	127	137
	KF708	-	-	-	102	-	-	-
	KF808	-	-	-	104	-	-	-
	KK114F	-	-	-	-	-	122	132
	KK511F	-	54	-	-	-	-	-
	KK511J	-	55	-	-	-	-	-
	KK711T	-	-	86	-	-	-	-
	KK711X	41	56	88	-	-	125	-
	KK711Y	-	58	-	-	-	-	-
	KK712X	-	59	-	-	-	-	-
	KK718X	42	60	-	-	-	-	-
	KK772J	-	61	-	-	-	-	-
	KK772K	-	-	-	-	112	-	-
	KK790Y	-	63	-	-	-	-	-
	KK791Y	-	64	-	-	-	-	-
	KK841F	-	65	-	-	-	-	-
	KP131K	-	-	-	-	116	-	135
	KP709	-	81	-	-	-	-	-
	KV301	-	-	-	-	-	130	138
	KV701	-	-	-	-	-	129	-

	Series	Wide belts	Belts	File belts	Fibre discs	Discs	Rolls	Sheets and pads
	KV701K	-	-	-	-	117	-	-
	KV707K	-	-	-	-	118	-	-
	KV707T	-	83	91	-	-	-	-
	KV707X	48	84	-	-	-	-	-
	KV710X	-	85	-	-	119	-	-
	RK700X	43	66	-	-	-	-	-
	XF733	-	-	-	105	-	-	-
	XF760	-	-	-	106	-	-	-
	XF850	-	-	-	107	-	-	-
	XF870	-	-	-	108	-	-	-
	XF885	-	-	-	109	-	-	-
	XK733X	-	67	-	-	-	-	-
	XK760K	-	-	-	-	113	-	-
	XK760X	-	68	-	-	-	-	-
	XK785Y	-	70	-	-	-	-	-
	XK850X	-	71	-	-	-	-	-
	XK870F	-	72	-	-	-	-	-
	XK870J	-	73	-	-	-	-	-
	XK870K	-	-	-	-	114	-	-
	XK870T	-	-	89	-	-	-	-
	XK870X	44	74	-	-	-	-	-
	XK880Y	-	77	-	-	-	-	-
	XK885Y	-	78	-	-	-	-	-
	XP780	47	82	-	-	-	-	-
	ZF713	-	-	-	110	-	-	-
	ZF714	-	-	-	111	-	-	-
	ZK713K	-	-	-	-	115	-	-
	ZK713T	-	-	90	-	-	-	-
	ZK713X	45	79	-	-	-	126	-
	ZK744X	-	80	-	-	-	-	-

Closer to you



Europe

Germany (Headquarters)

VSM · Vereinigte Schmirgel- und Maschinen-Fabriken AG
Siegmundstraße 17
30165 Hanover, Germany
T +49 511 3526 478
www.vsmabrasives.de

Czech Republic

VSM Abrasives s.r.o.
River Garden, 5th Floor
Rohanské nábřeží 678/23
18600 Praha
T +420 277 015 300
www.vsmabrasives.cz

France

VSM Impavide S.A.S.
52 Avenue Marcel Paul
93297 Tremblay en France
T +33 1 4151 0300
www.vsmabrasives.fr

Great Britain

VSM Abrasives Ltd.
Unit 5, Joplin Court Sovereign
Business Park, Crownhill
Milton Keynes, MK8 0JP
T +44 19 0831 0207
www.vsmabrasives.co.uk

Hungary

VSM Abrasives Hungary Ltd.
Leshegy út 31
2310 Szigetszentmiklós
T +36 24 519223
www.vsmabrasives.hu

Poland

PFERD-VSM Sp. z o.o.
Ul. Polna 1A
62-025 Kostrzyn Wielkopolski
T +48 61 8970 480
www.pferdvsm.pl

Spain

VSM · VITEX ABRASIVOS IBERICA, S.A.U.
Ctra. de Molins de Rei,
79A, Nave 8
08191 Rubí (Barcelona)
T +34 93 697 3411
www.vsmabrasivos.com

Sweden

VSM Abrasives Sverige AB
Stockholm
Sweden
M +46 73 077 70 32
www.vsmabrasives.se

Switzerland

PFERD-VSM (Schweiz) AG
Zürichstr. 38 B
8306 Brüttsellen
T +41 44 805 2828
www.pferd-vsm.ch

Turkey

STARCKE VSM VITEX Zimpara Teknolojisi Sanayi ve Dis Ticaret Ltd. Sti.
AYOSB Gazi Bulvari 8.
Sokak No: 5, Tuzla Istanbul
T +90 216 591 06 17
T +90 216 591 07 01
www.starckevsm.com

Americas

Canada

VSM Abrasives Canada Inc.
2425 Wycroft Road Unit #1
Oakville, Ontario, L6L 6R5
T +1 905 827 0005
www.vsmabrasives.ca

Latin America

VSM Latinoamérica S.A.S.
Carrera 9 No. 115-06
Edificio Tierra Firme Piso 17
Bogota, Colombia
T +57 601 639 8489
M +57 316 8311705
www.vsmabrasivos.com

USA

VSM Abrasives Corp.
1012 East Wabash St.
O'Fallon, Mo. 63366
T +1 636 272 7432
us.vsmabrasives.com

Asia

China

VSM Abrasives (China) Co. Ltd.
Rooms 203/205, Building C,
No. 38, Xuxiang Road, Qingpu
District, Shanghai, P.R. China
Postal Code: 201702
T +86 21 5976 2011
www.vsmabrasives.com.cn

Thailand

VSM Abrasives Asia Pacific Pte. Ltd. Thailand Representative Office
444 Olympia Thai Tower, 13th FL
Ratchadaphisek Rd., Samsenok
Huay Kwang, Bangkok 10310
T +66 2 513 7441
www.vsmabrasives-apac.com

Visit our website:

www.vsmabrasives.com