



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

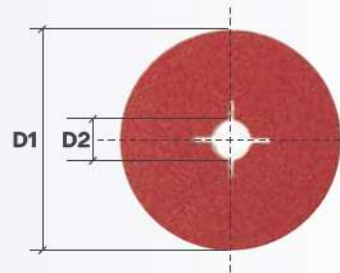
Your advantages

- > 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 \varnothing 180 mm and 235 mm)	S05 (only \varnothing 180 mm)
	Cross-shaped centre slot	S1	S11 (only \varnothing 180 mm and 235 mm)	S15 (only \varnothing 180 mm)
	Eight slot opening	S8		
	X-Lock	SX (only \varnothing 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:

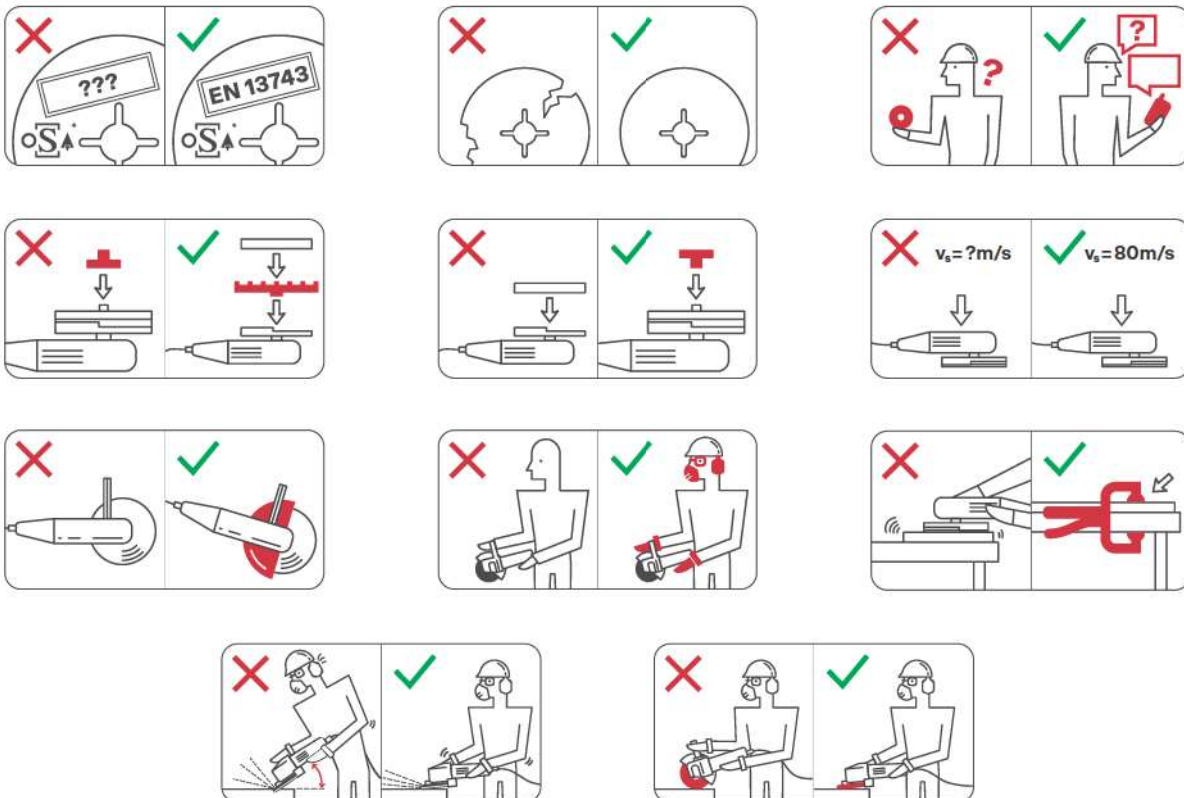
- > Fibre discs may only be used in conjunction with approved and correct backing pads.
- > The diameter of the fibre disc must not exceed that of the backing pad by more than 15 mm.
- > Plunge grinding is not permitted.
- > Appropriate safety equipment, such as goggles, work gloves and ear protection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



i 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

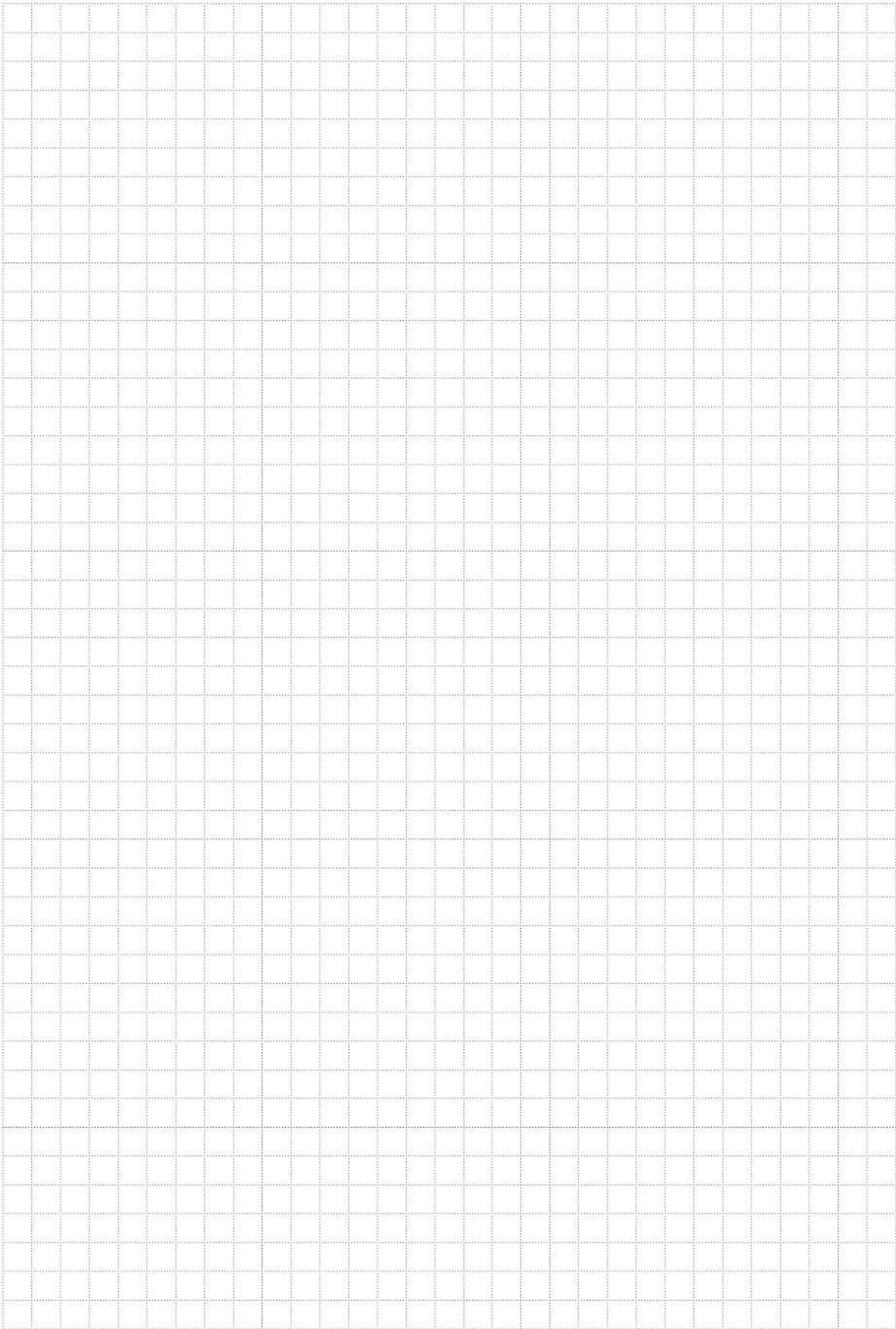
Hole patterns and models of discs with paper and cloth backings

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



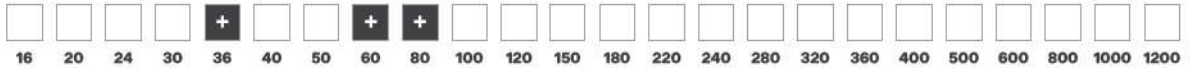
Features



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	ø (mm) ▼	ø 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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Version 11/23. Subject to change. **Other dimensions and grits / degrees of fineness upon request.**

AF890



VSM ACTIROX



Bonding	Full-resin bonded
Colour	Petrol
Backing	Vulcanised fibre

Materials



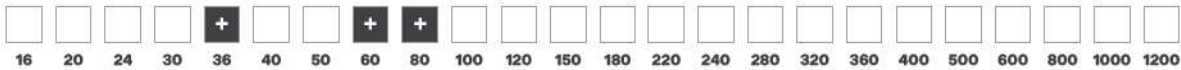
Features



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	ø (mm) ▼	ø 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

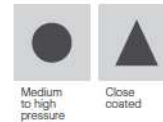


Bonding	Full-resin bonded
Colour	Red-brown
Backing	Vulcanised fibre

Materials

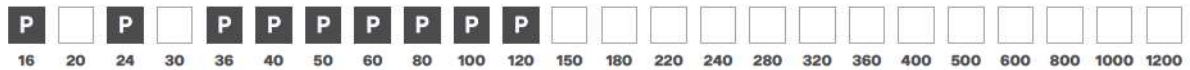


Features



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	ø (mm) ▼	ø 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	ø (mm) ▼	ø 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

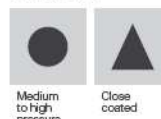


Bonding	Full-resin bonded
Colour	Red-brown
Backing	Vulcanised fibre

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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XF733 **ALU-X**

NEW



VSM CERAMICS

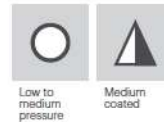


Bonding	Full-resin bonded
Colour	White
Backing	Vulcanised fibre

Materials

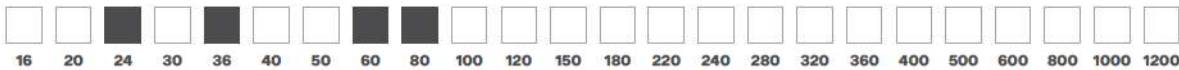


Features



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

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Fibre discs

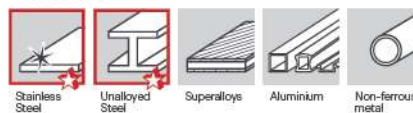
XF760

VSM CERAMICS

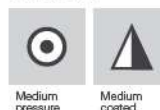


Bonding	Full-resin bonded
Colour	Red-violet
Backing	Vulcanised fibre

Materials

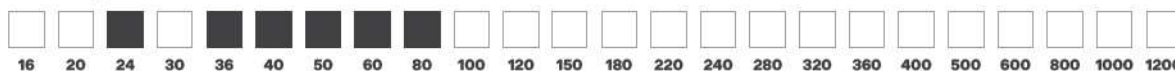


Features



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	ø (mm) ▼	ø 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

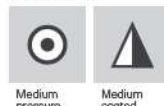
Colour Red

Backing Vulcanised fibre

Materials

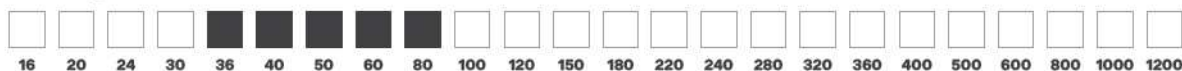


Features



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

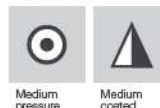


Bonding	Full-resin bonded
Colour	Red
Backing	Vulcanised fibre

Materials

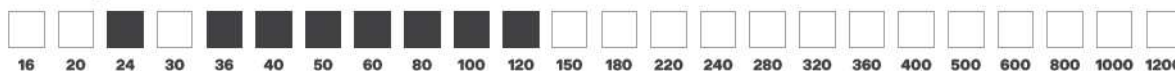


Features



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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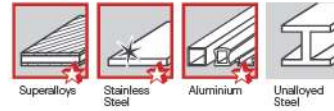
XF885

VSM CERAMICS Plus



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

Materials

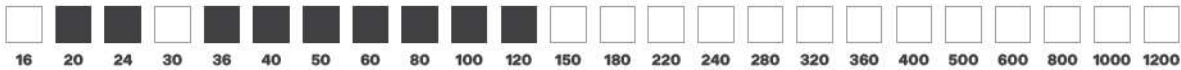


Features



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	ø (mm) ▼	ø 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

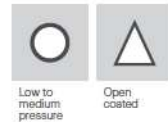


Bonding	Full-resin bonded
Colour	Blue
Backing	Vulcanised fibre

Materials

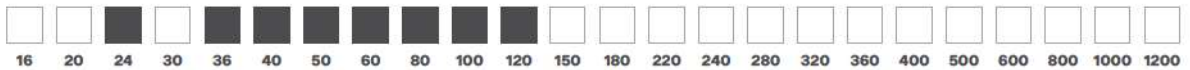


Features



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

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

ZF714

VSM ZIRCONIA ALUMINA

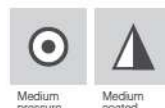


Bonding	Full-resin bonded
Colour	Blue
Backing	Vulcanised fibre

Materials

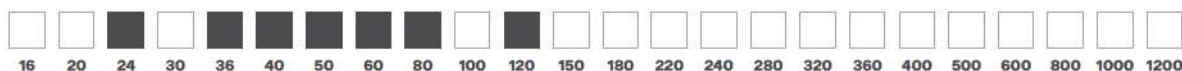


Features



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

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