VSM
WE KNOW ABRASIVES



HIGH-PERFORMANCE FIBRE DISCS

High stock removal and fast grinding –
the advantages of VSM fibre discs

Your specialist for fibre



AF979 NEW

Developed for...



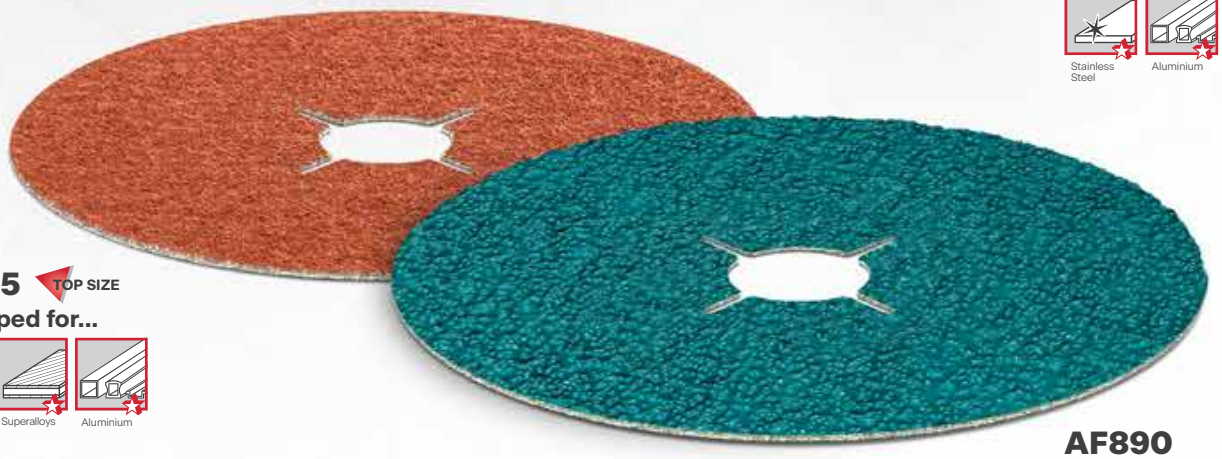
Unalloyed Steel | Aluminium

XF850 TOP SIZE

Developed for...



Stainless Steel | Aluminium | Unalloyed Steel



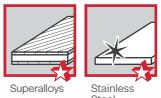
XF885 TOP SIZE

Developed for...

Stainless Steel | Superalloys | Aluminium

AF890

Developed for...



Superalloys | Stainless Steel

Your grinding task



Cleaning



Levelling of welding seams



Bevelling



Deburring

discs



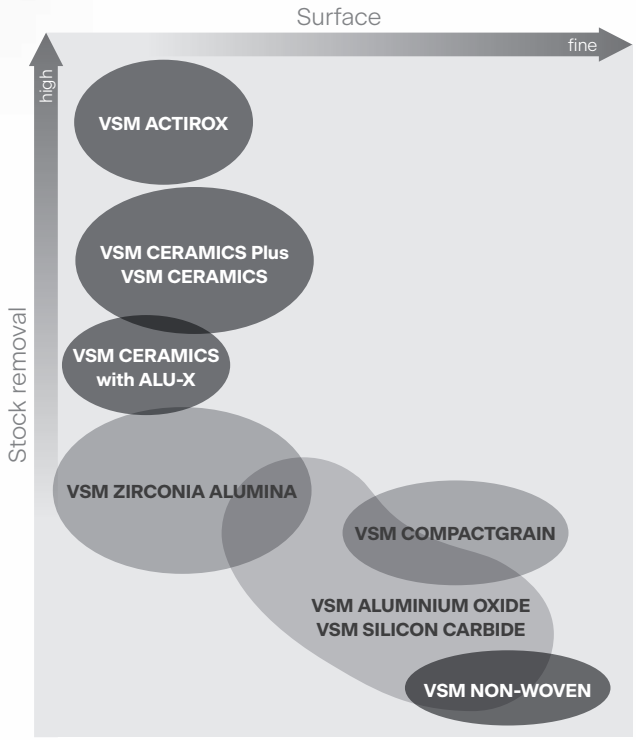
XF733 ALU-X

Developed for...



The experts for rough grinding

VSM fibre discs are ideal for all rough grinding work. They are available with the full range of VSM grain technologies: from **ACTIROX** and **CERAMICS Plus** to **COMPACTGRAIN** They are characterised by absolutely smooth running and a dimensionally stable vulcanised fibre backing. – This guarantees maximum user protection thanks to **oSa® certification,** even under extreme loads.



Advantages at a glance

- Excellent handling with **no noise or vibration** plus **extra edge flexibility**
- **Optimum user protection** thanks to continuous quality assurance in line with stringent oSa® requirements
- **Maximum stock removal** and **faster grinding** thanks to geometrically shaped ceramic grain with **VSM ACTIROX**
- The **ALU-X additional layer** significantly reduces chip adhesion during grinding of non-ferrous metals
- **VSM fibre dics** are quality abrasives **made in Germany**

MADE IN GERMANY



Grinding of cast parts



Smoothing and polishing

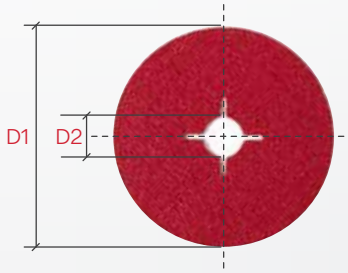


Removal of imperfections

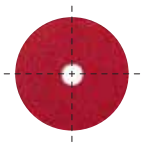
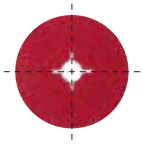
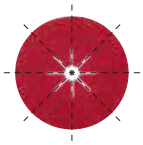
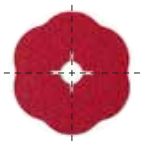
The perfect fibre disc for every application

Dimensions and shapes 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.



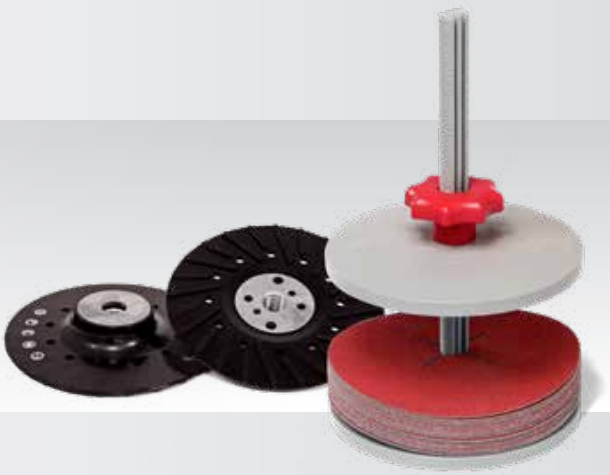
D1	D2
100 mm	16 mm
115 mm	22 mm
125 mm	22 mm
150 mm	22 mm
180 mm	22 mm
235 mm	22 mm

Fibre disc shapes		flat with centre hole	cambered with spherical cap, standard	cambered with recessed centre
	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-way slot	S8		
	X-Lock	SX (ø 115 mm and 125 mm only)		
	Special shapes (such as rosettes, polygon shapes) are available upon request.			

Accessories

> **VSM fibre disc holders** are ideal for properly storing. The unique holder firmly keeps the discs in place and prevents any deformation.

> VSM provides an extensive range of **backing pads** which are tailored to accomodate the VSM fibre discs.

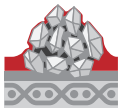


VSM grain technologies in the spotlight



VSM ACTIROX

- **Geometrically shaped** 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 COMPACTGRAIN

- **Long-term abrasive** achieves reproducible surface finishes and consistent roughness
- Continuous self-sharpening thanks to granulate structure



VSM SILICON CARBIDE

- **Very hard**
- Ideal for working titanium, glass, minerals, ceramic, china and stones



VSM ALUMINIUM OXIDE

- **Universal grain** for many different metal applications
- Ideal for intermediate grinding and finishing



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

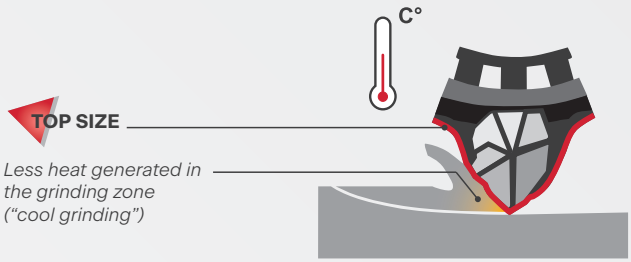
- Top product with **self-sharpening effect** for processing non-alloyed steels and stainless steels
- Cool grinding allows longer contact times



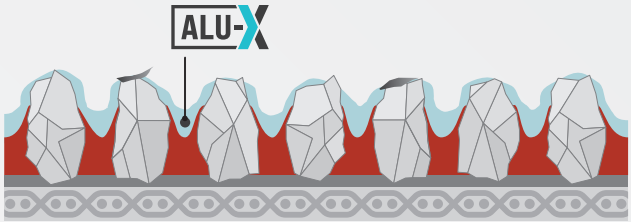
VSM ZIRCONIA ALUMINA

- Abrasive with **constant self-sharpening**
- Prolonged and high grinding performance
- Very high stock removal for medium pressure applications

VSM grinding-active additional layers



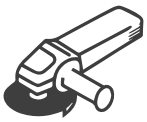
VSM TOP SIZE is recommended for dry machining heat-resistant stainless steels and non-ferrous metals. The grinding-active additional layer improves the cutting performance whilst reducing the temperature in the contact zone. This significantly extends the service life of the abrasive.



VSM ALU-X significantly reduces chip adhesion when processing non-ferrous metals and thus also reduces clogging of the abrasive. The service life is assured and extended so dramatically that excellent stock removal is achieved even after longer periods of use.



Product overview



Stock removal ◄——► Surface

	VSM Series	Grain technology	Features	16	20	24	30	36	40	50	60	80	100	120	150	180	220
NEW	AF979	VSM ACTIROX						+									
	AF890	VSM ACTIROX	TOP SIZE					+			+	+					
	AF799	VSM ACTIROX						+			+	+					
NEW	AF733	VSM ACTIROX	ALU-X					+			+	+					
	XF885	VSM CERAMICS Plus	TOP SIZE														
	XF870	VSM CERAMICS	TOP SIZE														
	XF850	VSM CERAMICS	TOP SIZE														
	XF760	VSM CERAMICS															
	XF733	VSM CERAMICS	ALU-X														
	KF736	VSM COMPACTGRAIN (AO)															
	ZF714	VSM ZIRCONIA ALUMINA															
	ZF713	VSM ZIRCONIA ALUMINA															
	KF808	VSM ALUMINIUM OXIDE	TOP SIZE														
	KF708	VSM ALUMINIUM OXIDE															
	SF08	VSM SILICON CARBIDE															

Last revised: 02/2025

Other dimensions and grit sizes upon request.

Legend

AO = ALUMINIUM OXIDE

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

ALU-X Grinding-active additional layer, significantly reduces chip adhesion

Recommended backing pads

TURBO PAD 1



Hard, with cooling ribs

TURBO PAD 2



Hard, with cooling ribs, cambered

TURBO PAD 3

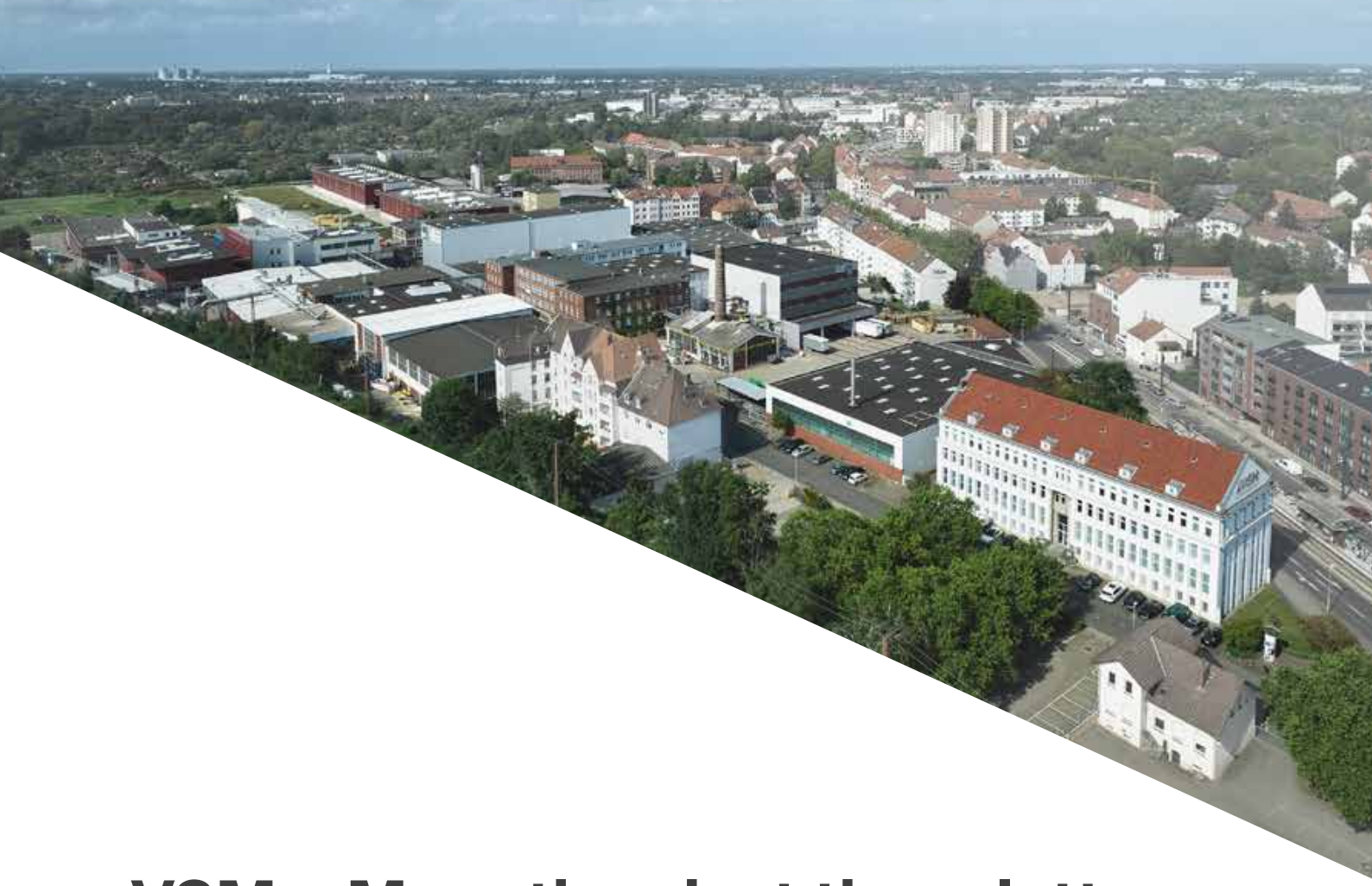


Extra hard, with cooling ribs, cambered, for maximum stock removal

Universal backing pad



Medium-hard



VSM – More than just three letters

VSM stands for competence, quality and customer orientation.

Very few others understand grinding processes like we do. Not only do we grind every surface to precision, we also analyse the specific grinding applications of our customers so that we can always find the best, long-term solution. Process-related expertise is one of the distinguishing features of VSM.

We know abrasives

Because we understand them. VSM develops and produces all the main preliminary products such as backing fabrics, resinoid bonds and abrasive grains at its Hanover site. By doing so, we fulfil our high, self-imposed requirements in industry, the commercial and trade sector. The continuous development of further grain compositions, their refinement and processing ensures that VSM remains one of the most experienced manufacturers of ceramic grain worldwide.

Application-based expertise

We see the entire grinding processes of our customers as a challenge. A global network of VSM specialists provides expert advice wherever it is needed irrespective of whether your company is large or small. Thanks to our close collaboration with machine manufacturers, cutting fluid experts and research institutes, we ensure that our customers can benefit from technological trends as soon as possible.

We make our expertise available for you

The VSM Competence Center (CC) in Hanover provides an opportunity for product training, seminars and extensive application tests. Customer applications can be adjusted and results reviewed. This service from VSM reduces downtimes and productivity losses for our customers.

Certified and recognized worldwide

VSM has been certified to ISO standard 9001:2008 as its basis for quality assurance for many years. In addition, it is a member of FEPA, oSa and the German Abrasives Association (VDS).

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 II
Rohanské nábřeží 678/23
CZ 18600 Praha
P: +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.vsmabrasives.es

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 Brüttisellen
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

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

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

Latin America
VSM Latinoamérica S.A.S.
Carrera 7 No. 116 – 50.
WeWork Building, Floor 5
Office 5-115
Bogotá, Colombia
M +57 317 641 6748
www.vsmabrasivos.com

Asia-Pacific

Singapore
VSM Abrasives Asia Pacific Pte. Ltd.
9 Raffles Place #24-01
Republic Plaza Tower 1
Singapore 048619
T +66 2 513 7441
www.vsmabrasives-apac.com

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., Samsennok
Huay Kwang, Bangkok 10310
T +66 2 513 7441
www.vsmabrasives-apac.com

Visit our website:
www.vsmabrasives.com

VSM is a registered trademark of VSM · Vereinigte Schmirgel- und Maschinen-Fabriken AG, Hanover.
Subject to technical changes. VSM · P/FIB/08.WW/07.26/en/1