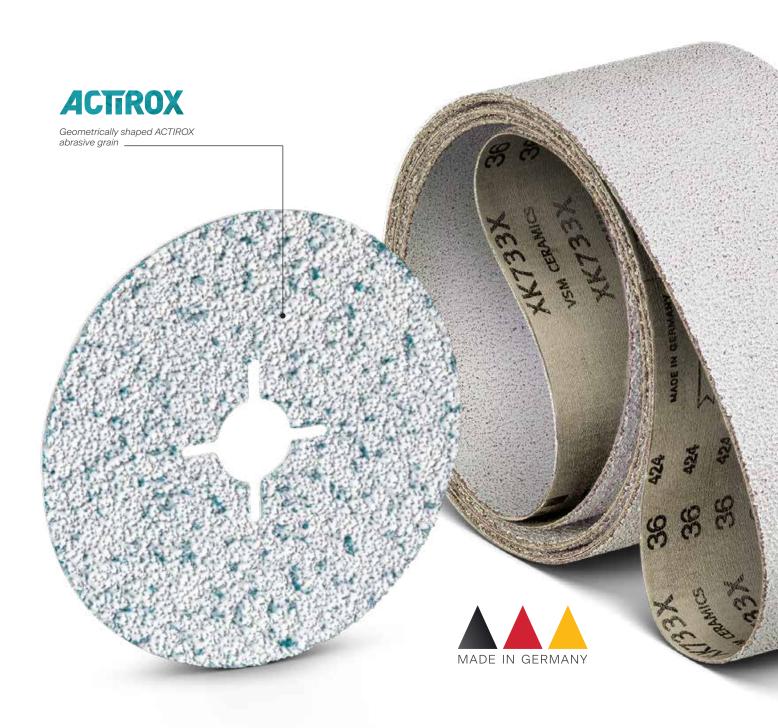






X-TREME performance -



Your grinding task



Grinding of cast parts



Deburring

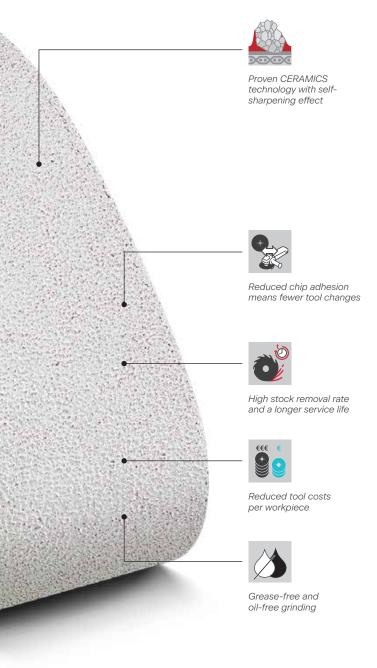


Removing welded seams



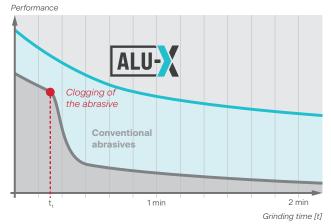
Preparing welded seams

- reduced chip adhesion



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
- > Increased performance enables faster workpiece machining and lowers the process costs
- > Grease-free and oil-free grinding keeps the workplace clean.
- > **VSM** always delivers premium **made-in-Germany** quality



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



Bevelling Clean





Cleaning

Removing imperfections

Technical surface quality

Six X-perts for aluminium grinding

Whether for preparing or removing weld seams, deburring, grinding sprues, grinding out flaws as part of repair grinding, or achieving the desired technical surface quality: virtually all grinding work with non-ferrous workpieces can be carried out easily with the **ALU-X** series from **VSM.**

Series with VSM ceramic grain, such as **ACTIROX** and **CERAMICS**, are ideal for coarse grinding applications. **VSM ALUMINUM OXIDE** abrasive belts are true all-rounders. The abrasive grain produces a matte scratch pattern and is particularly recommended for working on contours.

Product overview



Last updated: 03/2025. Other dimensions and grit sizes on request.

Features

O for low to medium contact pressure

for medium contact pressure

Backing flexibility (last letter of series name):

E (paper) stiff

F very flexible

X sturdy

+ The plus in grinding performance

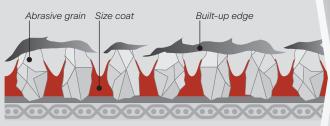
Practice has shown that **ACTIROX** abrasives have a **higher abrasive performance** than comparable conventional abrasives – with a consistent surface finish.



Ideal machining of non-ferrous metals

Non-ferrous metals such as aluminium, bronze and copper are demanding materials that can easily clog the abrasive. This means that, instead of being removed, the chips stick to the tips of the abrasive grain: A built-up cutting edge is created. This prevents the abrasive grain from functioning and the abrasive becomes unusable.

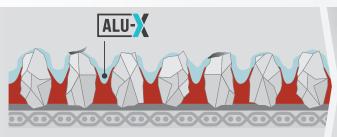
The new **VSM ALU-X** additional layer reduces chip adhesion and thus reduces clogging of the abrasive. The service life is assured and extended so that excellent stock removal is achieved even after longer periods of use.



Conventional abrasives: Chips stick to the grain tips and the abrasive becomes clogged.



Fibre disc clogged with aluminium chips

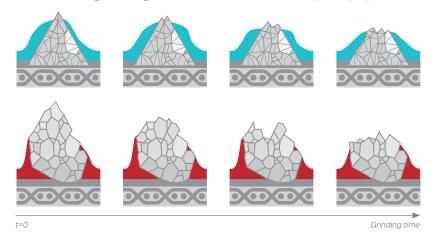


The VSM ALU-X additional layer significantly reduces adhesion; the abrasive can be used for longer.



VSM ALU-X: It is clear to see that significantly fewer chips stick.

The right grain for every application



VSM ACTIROX stands for maximum stock removal and increased productivity due to its geometrically shaped ceramic grain.

VSM CERAMICS abrasives are prized for their aggressive cut and very long service life. Continuous self-sharpening of the grain guarantees long-lasting high performance.

Case studies

Cleaning structural parts



Workpiece	Automotive bodywork
Material	Aluminium alloy
Cutting speed	80 m/s
Feed rate	Manual
Series	XF733
Disc dimensions	Ø 180 mm
Grit size	36

> Result: Twice the stock removal compared to the previous leading abrasive

Welded seam levelling



Workpiece	Window frames
Material	Aluminium alloy
Cutting speed	63 m/s
Feed rate	Manual
Series	XF733
Disc dimensions	Ø 125 mm
Grit size	36, 60, 80

> **Result:** 90% longer service life compared to conventional abrasives

Removing sprues



Workpiece	Cast parts
Material	Aluminium alloy
Cutting speed	28 m/s
Feed rate	Manual
Series	XK733X
Contact element	75 mm, 90° Shore A
Grit size	36

> Result: 35% longer service life compared to the competing product

From X-PERTS for X-PERTS





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 world-wide

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 Schmirgelund Maschinen-Fabriken AG Siegmundstraße 17

30165 Hanover, Germany T +49 511 3526 478 www.vsmabrasives.de

VSM Abrasives Hungary Ltd.

Leshegy út 31 2310 Szigetszentmiklós T + 36 24 519223 www.vsmabrasives.hu

Switzerland

PFERD-VSM (Schweiz) AG

Zürichstr. 38 B 8306 Brüttisellen T +41 44 805 2828 www.pferd-vsm.ch

Americas

T +1 905 827 0005

www.vsmabrasives.ca

VSM Abrasives Corp.

1012 East Wabash St.

O'Fallon, Mo. 63366

T +1 636 272 7432 us.vsmabrasives.com

VSM Abrasives Canada Inc.

2425 Wyecroft Road Unit #1

Oakville, Ontario, L6L 6R5

Latin America

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

Czech Republic

VSM Abrasives s.r.o.

River Garden, 5th Floor Rohanské nábřeží 678/23 18600 Praha T +420 277 015 300

PFERD-VSM Sp. z o.o.

www.vsmabrasives.cz

Ul. Polna 1A 62-025 Kostrzyn Wielkopolski T +48 61 8970 480 www.pferdvsm.pl

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

VSM Abrasivos Latinoamérica S.A.S.

VSM Impavide S.A.S.

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

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

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

VSM Abrasives Sverige AB

Stockholm Sweden M +46 73 077 70 32 www.vsmabrasives.se

Asia-Pacific

Singapore

VSM Abrasives Asia Pacific Pte. Ltd.

4 Battery Road #25. Bank of China Building Singapore 049908 T +66 2 513 7441 www.vsmabrasives-apac.com

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

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

Visit our website:

www.vsmabrasives.com