



ALU-X

**THE X-PERTS
FOR ALUMINUM**



FOR
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.

This is where the high-performance **VSM ceramic grain** meets the **VSM ALU-X** additional grinding-active layer. The result: Improved chip removal, fewer tool changes, more workpieces per shift, more stock removal and a grease-free workplace.

X-TREME performance -

ACTIROX

Geometrically shaped ACTIROX
abrasive grain



Your grinding task



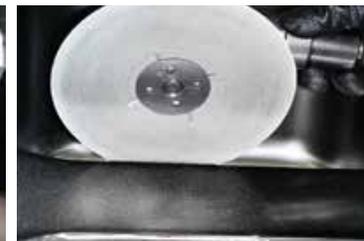
Grinding of cast parts



Deburring

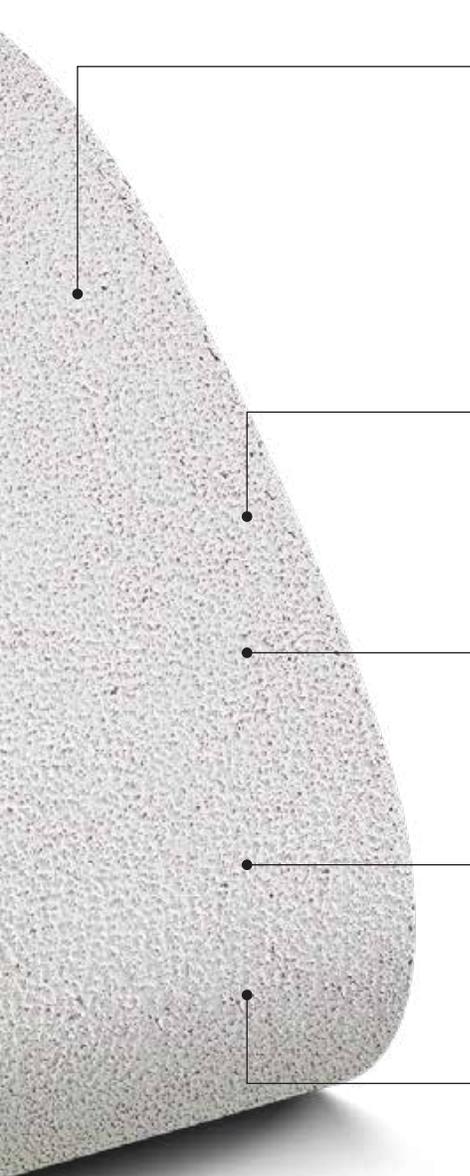


Removing welded seams



Preparing welded seams

- reduced chip adhesion



Proven CERAMICS technology with self-sharpening effect



Reduced chip adhesion means fewer tool changes



High stock removal rate and a longer service life



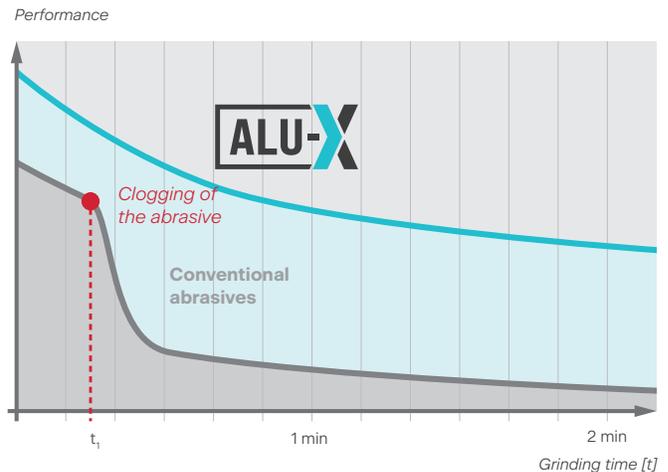
Reduced tool costs per workpiece



Grease-free and oil-free grinding

Your advantages at a glance

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



Grinding aluminum alloy bars (\varnothing 30 mm, AISi12Cu) using fiber discs with grit size 24.



Beveling



Cleaning



Removing imperfections



Technical surface quality

Six X-PERTS for aluminum grinding

Whether 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 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 a versatile all-purpose solution. The abrasive grain produces a matte scratch pattern and is particularly recommended for working on contours.

Product overview



VSM Series	Rolls (max. width)	Wide belts	Narrow belts	Discs	Backing	Grain technology	Features	24	36	40	50	60	80	100	120	150	180	220	240	320	400	600	
NEW AF733	57.5 in.			●	Fiber	ACTIROX	ALU-X		+			+	+										
XF733	57.5 in.			⊙	Fiber	VSM CERAMICS	ALU-X																
XK733X	58 in.	⊙	⊙		Cloth	VSM CERAMICS	ALU-X ◊																
KK732X	58 in.	⊙	⊙		Cloth	VSM ALUMINUM OXIDE	ALU-X ◊																
KK532F	41 in.	○	○		Cloth	VSM ALUMINUM OXIDE	ALU-X																
KP532E	57 in.	○	○		Paper	VSM ALUMINUM OXIDE	ALU-X																

Last updated: 01/2025. Other dimensions and grit sizes on request.

Features

○ for low to medium contact pressure ⊙ for medium contact pressure ● for medium to high contact pressure ◊ also suitable for wet grinding

Backing flexibility (last letter of series name):

E (paper) stiff **F** very flexible **X** sturdy

+ The plus in grinding performance

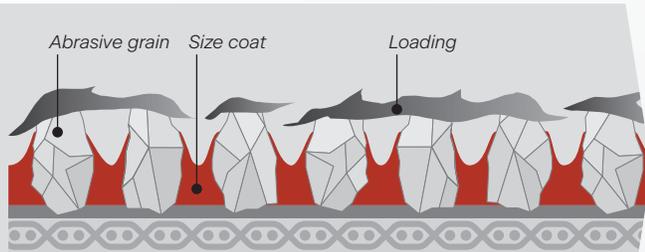
Practice has shown that **ACTIROX** abrasives have a **higher abrasive performance** than comparable conventional abrasives – with a consistent surface finish.



Ideal grinding of non-ferrous metals

Non-ferrous metals such as aluminum, bronze and copper are demanding materials that can easily clog the abrasive. This means, instead of being removed, the chips stick to the tips of the abrasives grain which causes loading. This prevents the abrasive grain from functioning and it

becomes unusable. The new **VSM ALU-X** additional layer reduces chip adhesion and minimizing clogging of the abrasive. The extended service life offers excellent stock removal even after long periods of use.



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



Fiber disc clogged with aluminum chips

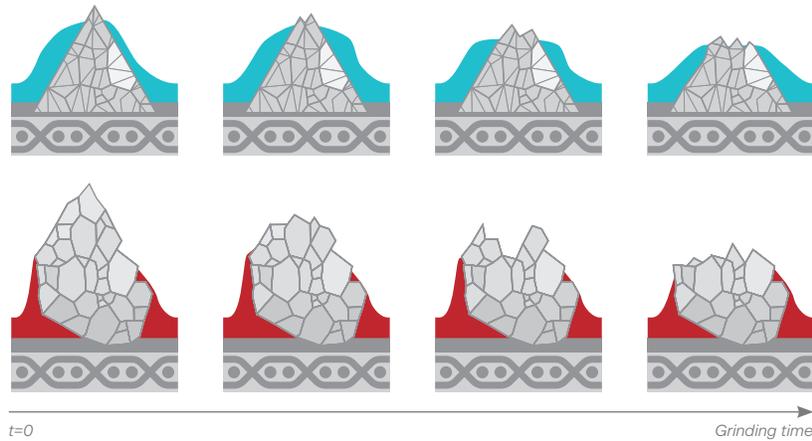


The VSM ALU-X additional layer significantly reduces adhesion; the abrasive can be used for longer.



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	Aluminum alloy
Cutting speed	8,600 RPM
Feed rate	Manual
Series	XF733
Disc dimensions	7" x 7/8"
Grit size	36

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

Welded seam levelling



Workpiece	Window frames
Material	Aluminum alloy
Cutting speed	9,630 RPM
Feed rate	Manual
Series	XF733
Disc dimensions	5" x 7/8"
Grit size	36, 60, 80

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

Removing sprues



Workpiece	Cast parts
Material	Aluminum alloy
Cutting speed	5,500 RPM
Feed rate	Manual
Series	XK733X
Contact element	3", 90° Shore A
Grit size	36

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

From X-PERTS for X-PERTS



Would you like to find out more about grinding non-ferrous metals, or request samples?

Call us at:
800 737 0176

Or send us an email:
us.info@vsmabrasives.com

We impart expert knowledge and give comprehensive practical tips in our **webinars** and **seminars**:

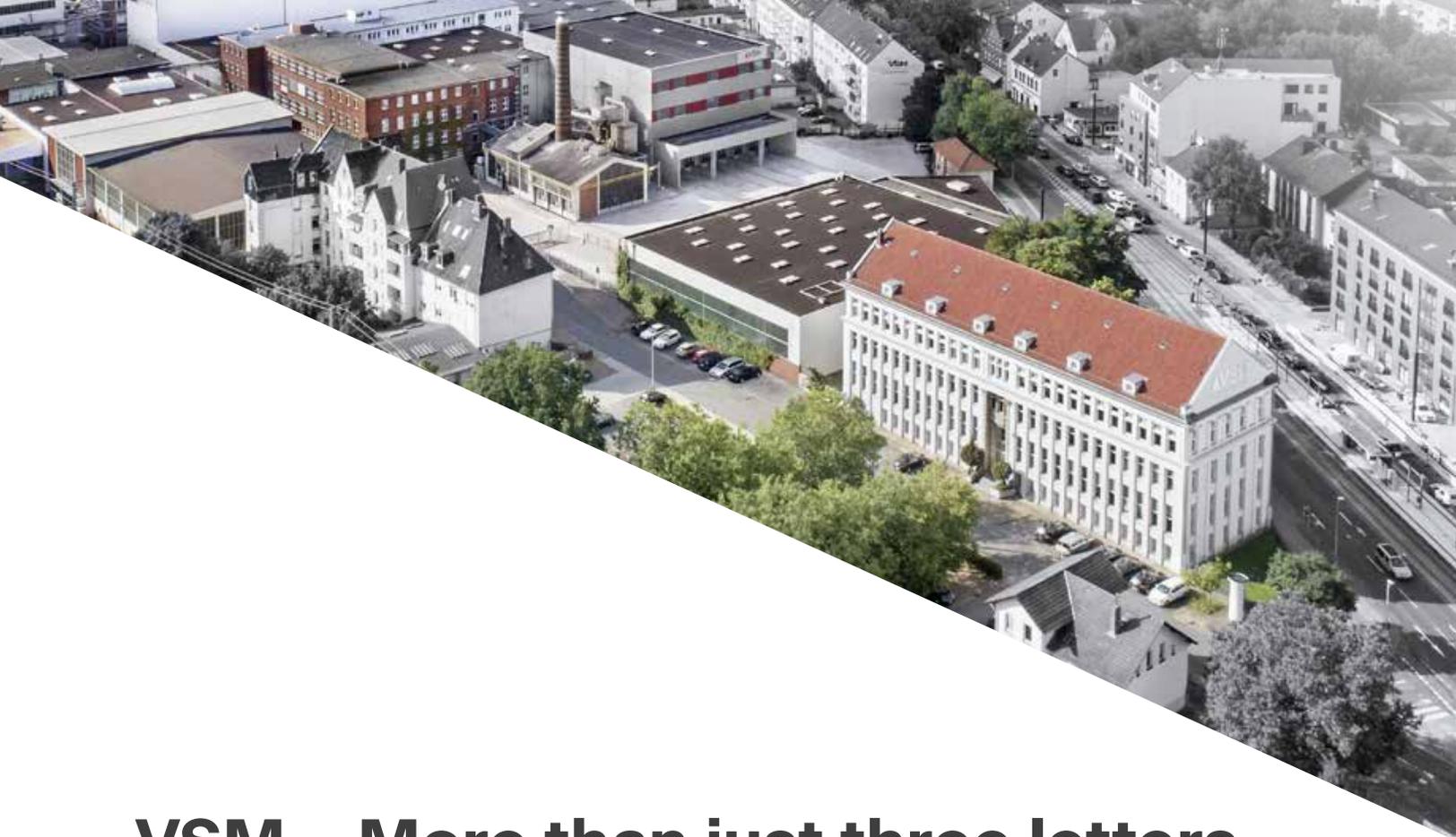


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VSM – More than just three letters

VSM stands for competence, quality and customer service.

Few others understand grinding processes like we do. Not only do we grind every surface to precision, we also analyze 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

VSM develops and produces all the main components such as backing fabrics, resin bonds and abrasive grains at its Hanover site. By doing so, we fulfill our high, self-imposed requirements in industrial, commercial and trade sectors. 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 all 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.

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).



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