



X-TREME performance -



Your grinding task



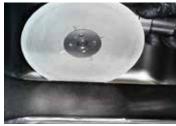
Grinding of cast parts



Deburring

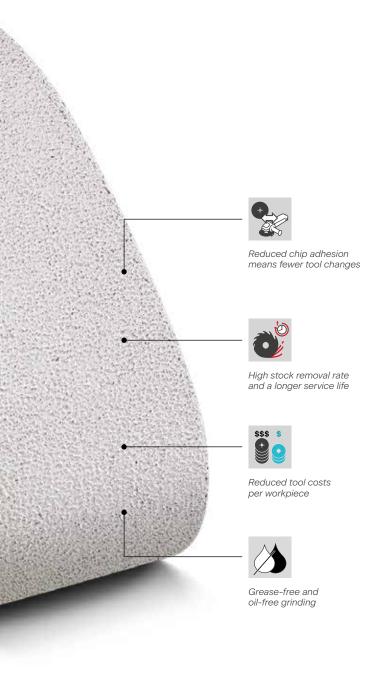


Removing welded seams



Preparing welded seams

reduced chip adhesion



Your advantages at a glance

- > Specially developed for 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

Clogging of the abrasive Conventional abrasives

Grinding aluminum alloy bars (Ø 30 mm, AlSi12Cu) using fiber discs with grit size 24



Cleaning



Performance



Removing imperfections

Technical surface quality

2 min

Five 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.

VSM CERAMICS with ALU-X is ideal for rough 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: 02/2024. Other dimensions and grit sizes on request.

O 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

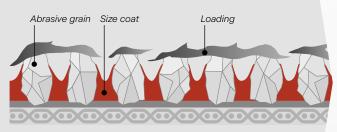
X sturdy



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

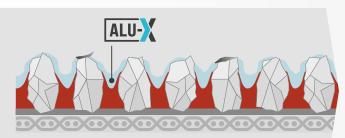
becomes unusable. The new **VSM ALU-X** additional layer reduces chip adhesion and minimizing clogging of the abrasive. The extended service life offers excellent stock removal even after longer periods of use.



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.

VSM CERAMICS for maximum stock removal









Grinding time

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

As top products for a large number of stationary and mobile grinding applications, **VSM CERAMICS** also have an excellent price-performance ratio.

t=O

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





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 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, the 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 the 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 Technical Center (TC) 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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