



ACTIROX

**ABRASIVE GRAIN
IN TOP SHAPE**

The plus in grinding performance





ACTIROX **MAXIMUM** **STOCK REMOVAL.** **FASTER** **CUT.**

Does the dirty work for you

The ACTIROX series offers the ideal abrasive for all coarse grinding applications.

From beveling and deburring to removing weld seams and mill scale, ACTIROX's five series are ready for action!

Made for metal. Made for experts. Made in Germany.

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.

Achieve **higher stock removal** than expected with standard grit sizes without a rougher surface. A real plus for your grinding process.



Maximum stock removal rate thanks to **geometrically shaped ceramic grain**



Very short processing times thanks to **faster grinding** compared to conventional ceramic grain abrasives



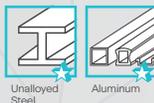
Improved chip production – particularly when grinding aluminum



Cool grinding with no discoloration and with a **long service life**



AF799
Developed for...



Your grinding task

Deburring



Beveling



Leveling of welded seams



Cleaning



Removal of imperfections



Grinding of cast parts



Weld seam preparation

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ACTIROX

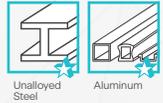
AK890Y **TOP SIZE**

Developed for...



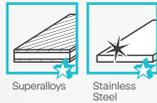
AF979 **NEW**

Developed for...



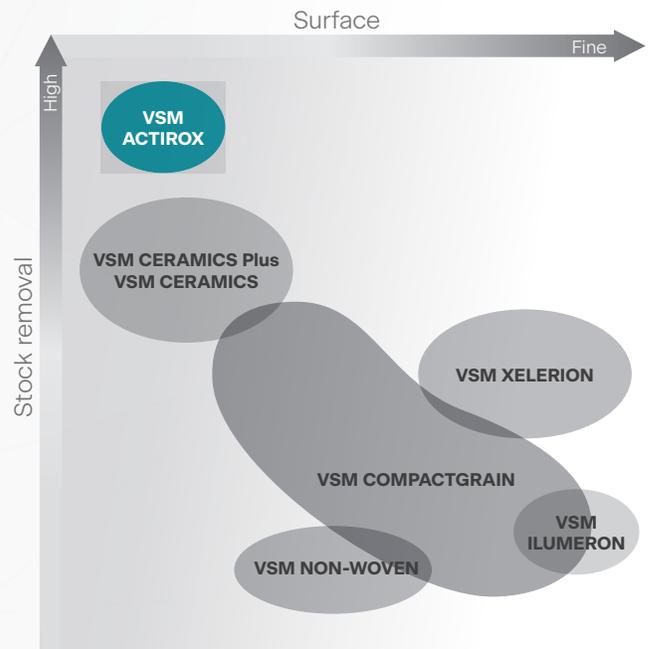
AF890 **TOP SIZE**

Developed for...



AF733 **NEW**

Developed for...



VSM ACTIROX products



VSM Series	Rolls (max. width)	Wide belts	Narrow belts	Discs	Quick change	Backing	Grain technology	Features	20+	24+	36+	40+	50+	60+	80+	100+	120+	150+	180+	240+	320+	400+		
AK890Y	58 in.	○	○		○	Cloth	VSM ACTIROX	▼ TOP SIZE ◊			+													
NEW AF733				●		Fiber	VSM ACTIROX	ALU-X			+			+	+									
AF890				●	●	Fiber	VSM ACTIROX	▼ TOP SIZE			+			+	+									
NEW AF979				●		Fiber	VSM ACTIROX				+													
AF799				●		Fiber	VSM ACTIROX				+			+	+									

- for low to medium contact pressure
- for medium to high contact pressure
- ◊ also suitable for wet grinding

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

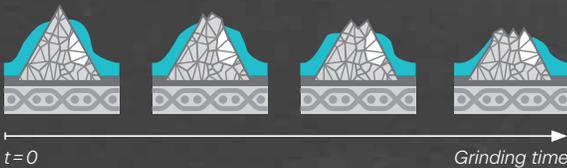
Flexibility of the backing material
(last letter of the series name):
Y very sturdy

Last revised: 01/2025

ACTIROX

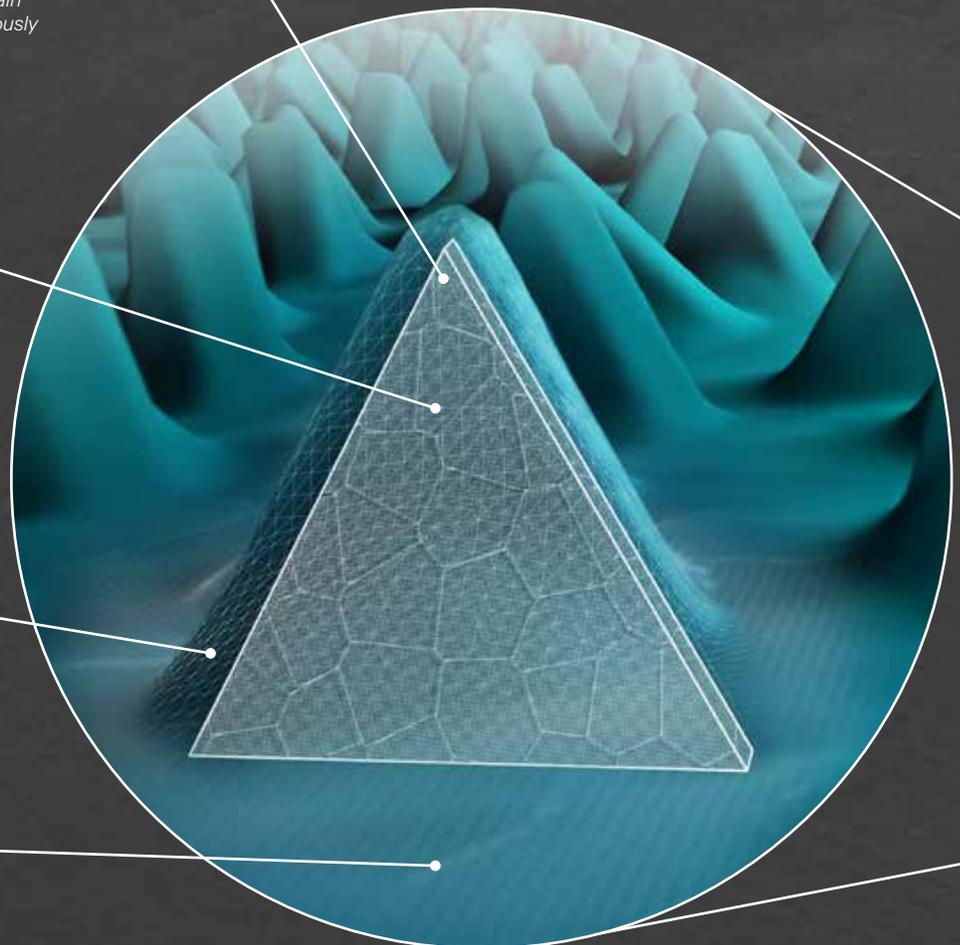
For years, VSM ceramic grain abrasives have been synonymous with high stock removal rates and a long service life: this is due to their unique self-sharpening effect.

VSM ACTIROX is the name of the latest generation of abrasives for optimal stock removal. Thanks to the geometrically shaped abrasive grains, it achieves aggressive and quick grinding for maximum stock removal.



The geometrically shaped ceramic abrasive grain breaks down in a defined manner and continuously produces new sharp cutting edges

Aligned abrasives grain placement for aggressive and faster grinding



TOP SIZE

Enhanced grinding capacity and reduced temperature in the grinding area thanks to the VSM TOP SIZE grinding-active additional layer

ALU-X

The ALU-X additional layer significantly reduces chip adhesion during grinding of non-ferrous metals

Abrasive grain in top shape – also available as a belt!

3 reasons why **AK890Y** should be an essential part of your operation

1

Maximum stock removal resulting in **lower operating expenses**

2

Low to medium contact pressures minimize noise and vibrations, which helps **reduce strain on operators and machines.**

3

Faster grinding greatly **reduces processing times** – even when deburring and removing sprues or weld seams.



For extreme applications

The new **ACTIROX AF979** fiber disc is our **secret weapon for all hard cases.**

The heavy-duty variant of the **proven AF799** offers even more than an extremely long service life. With its consistent stock removal rate, it is highly resilient, and even burnt edges on plasma-cut workpieces present no problem.



Case studies

Weld seam leveling, stainless steel



Workpiece	Weld seam
Material	Stainless steel
Contact element	Back up pad, extra hard
Speed	8,500 rpm
Power	1,550 W
Feed	Manual
Series	VSM ACTIROX AF890
Disc diameter	5" x 7/8"
Grit size	36+

> **Result:** Significantly increased productivity, up to 70% more workpieces are processed per shift

Grinding of cast parts



Workpiece	Cast parts
Material	Titanium alloy (ti al 6242)
Contact wheel	Ø=14", 85° Shore A, 6:10 serration
Cutting speed	11 m/s
Feed	Manual
Series	VSM ACTIROX AK890Y
Belt dimensions	2 3/4 " x 138"
Grit size	36+
Auxiliary materials	none

> **Result:** 15% more stock removal compared to the previous leading abrasive

Processing of cut edges



Workpiece	Plasma-cut components
Material	S355JR
Contact element	Back up pad, extra hard
Speed	12,000 rpm
Power	1,800 W
Feed	Manual
Series	VSM ACTIROX AF979
Disc diameter	5 x 7/8"
Grit size	36+

> **Result:** 50% more stock removal compared to the previous leading abrasive

From X-PERTS for X-PERTS



Would you like to find out more about ACTIROX,
or request samples?

Call us at:
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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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us.actirox.com



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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