

**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**

## Your grinding task


Deburring




Beveling




Leveling of welded seams




Cleaning




Removal of imperfections

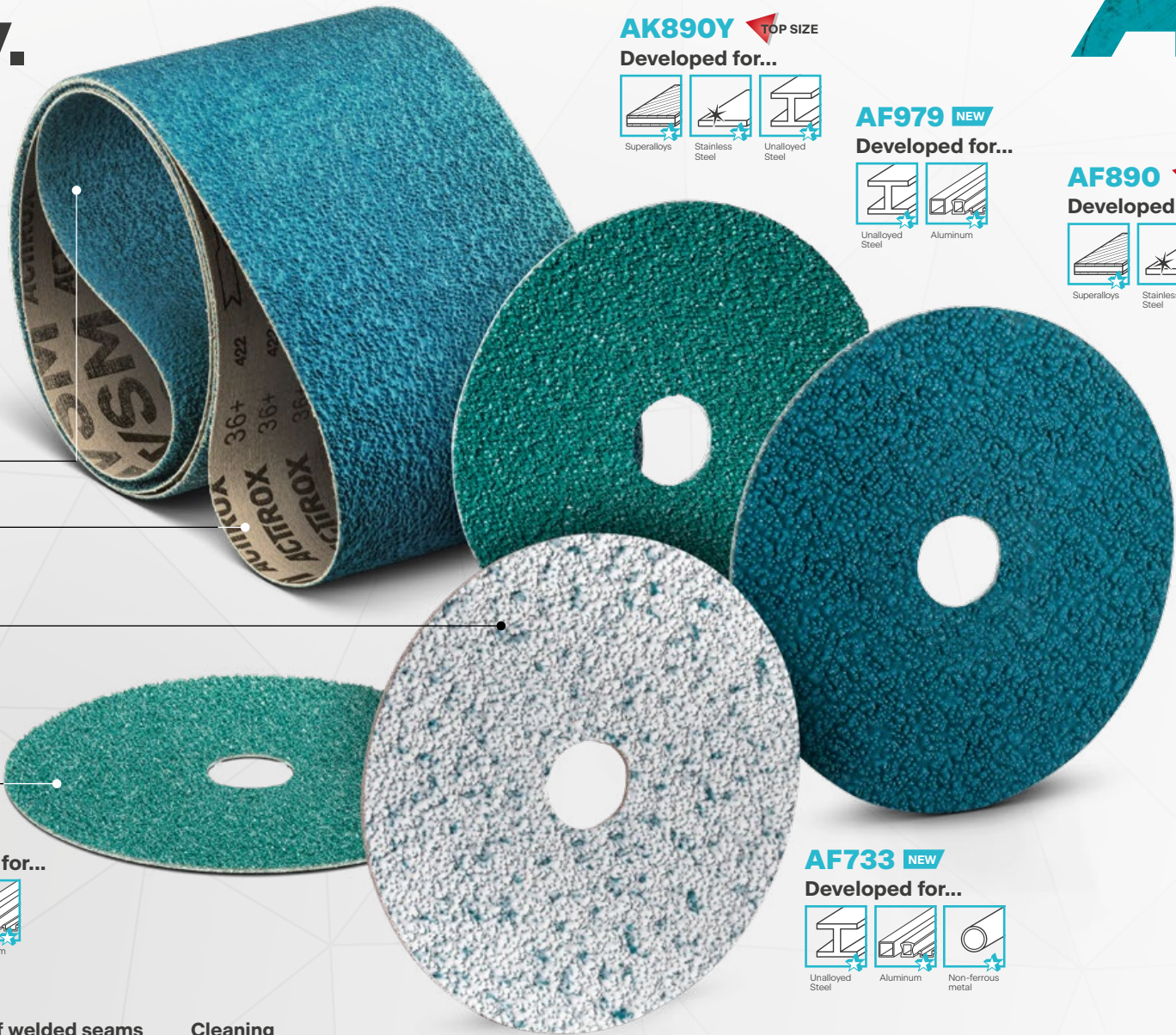


Grinding of cast parts



Weld seam preparation





**AK890Y**  **Developed for...**




**AF979**  **Developed for...**



**AF890**  **Developed for...**



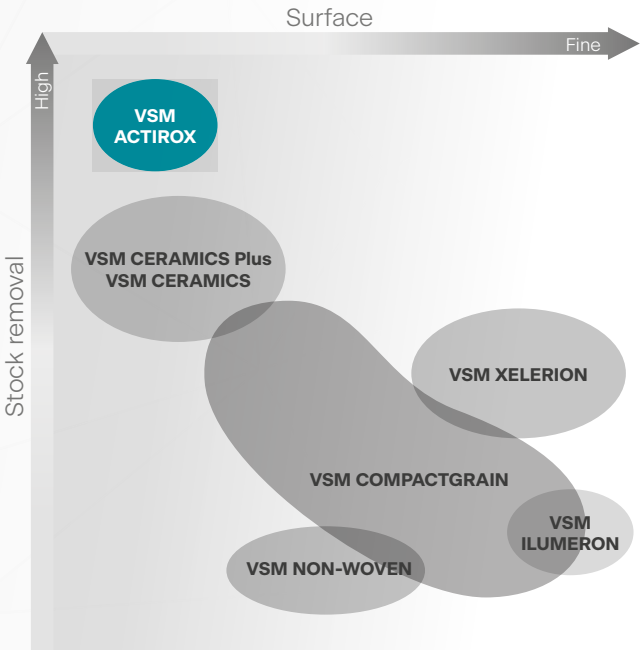
**AF799** **Developed for...**





**AF733**  **Developed for...**




# ACTIROX



## 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+
NEW	AK890Y	58 in.	○	○		○	Cloth	VSM ACTIROX	TOP SIZE ◇			+			+								
	AF733				●		Fiber	VSM ACTIROX	ALU-X			+			+	+							
NEW	AF890				●	●	Fiber	VSM ACTIROX	TOP SIZE			+			+	+							
	AF979				●		Fiber	VSM ACTIROX				+											
NEW	AF799				●		Fiber	VSM ACTIROX				+			+	+							
	AF733				●		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

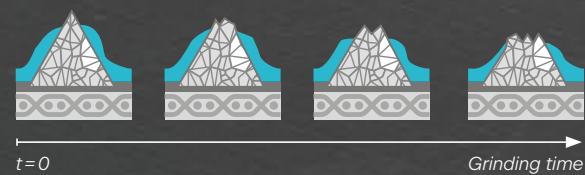
**Flexibility of the backing material** (last letter of the series name):  
Y very sturdy

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

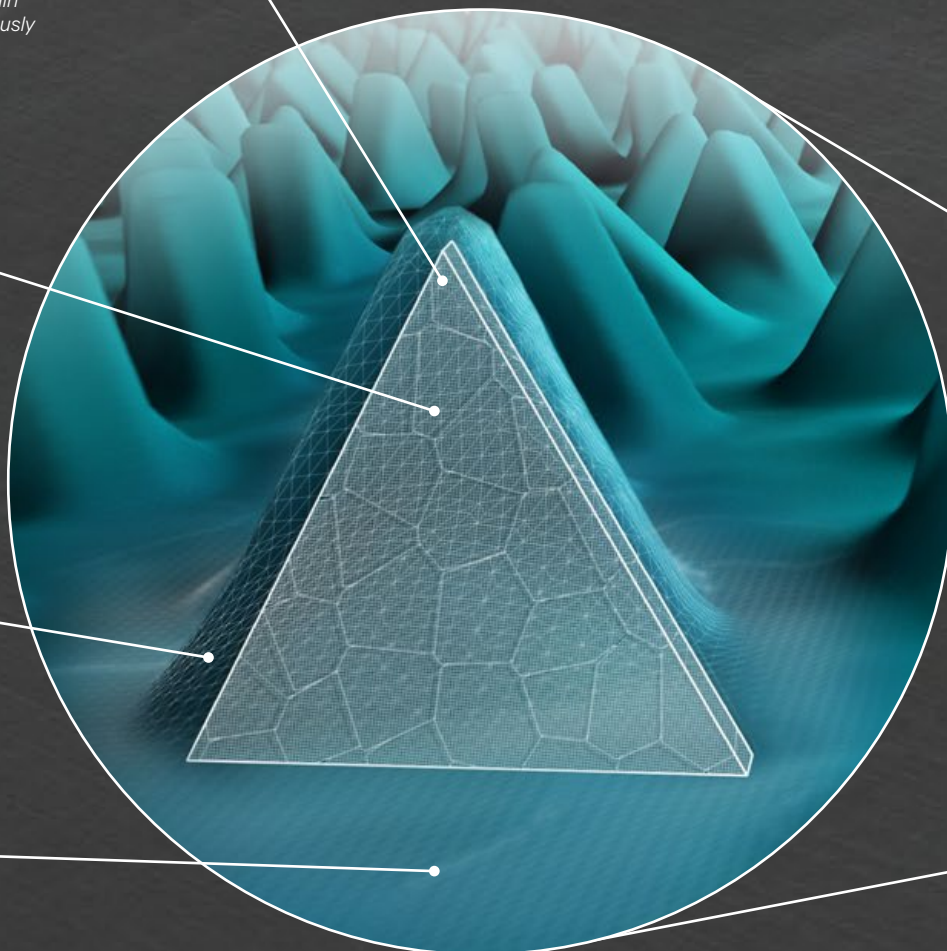
Aligned abrasives grain placement for aggressive and faster grinding

## 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.





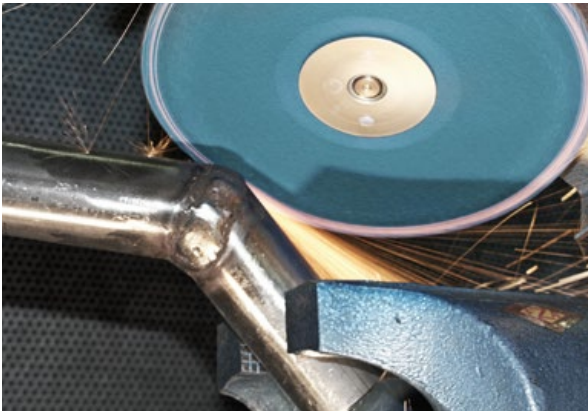
## For extreme applications

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

	<b>Workpiece</b>	Weld seam
	<b>Material</b>	Stainless steel
	<b>Contact element</b>	Back up pad, extra hard
	<b>Speed</b>	8,500 rpm
	<b>Power</b>	1,550 W
	<b>Feed</b>	Manual
	<b>Series</b>	<b>VSM ACTIROX AF890</b>
	<b>Disc diameter</b>	5" x 7/8"
<b>Grit size</b>		36+
> <b>Result:</b> Significantly increased productivity, up to 70% more workpieces are processed per shift		

## Grinding of cast parts

	<b>Workpiece</b>	Cast parts
	<b>Material</b>	Titanium alloy (ti al 6242)
	<b>Contact wheel</b>	Ø=14", 85° Shore A, 6:10 serration
	<b>Cutting speed</b>	11 m/s
	<b>Feed</b>	Manual
	<b>Series</b>	<b>VSM ACTIROX AK890Y</b>
	<b>Belt dimensions</b>	2 3/4 " x 138"
	<b>Grit size</b>	36+
<b>Auxiliary materials</b>		none
> <b>Result:</b> 15% more stock removal compared to the previous leading abrasive		

## Processing of cut edges

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



[vsmabrasives.com/en/service/webinars](https://vsmabrasives.com/en/service/webinars)



[vsmabrasives.com/en/service/seminars](https://vsmabrasives.com/en/service/seminars)

**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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