

Segments

Applications

Products

VSM
WE KNOW ABRASIVES



VSM NON-WOVEN

Solutions for a perfect surface

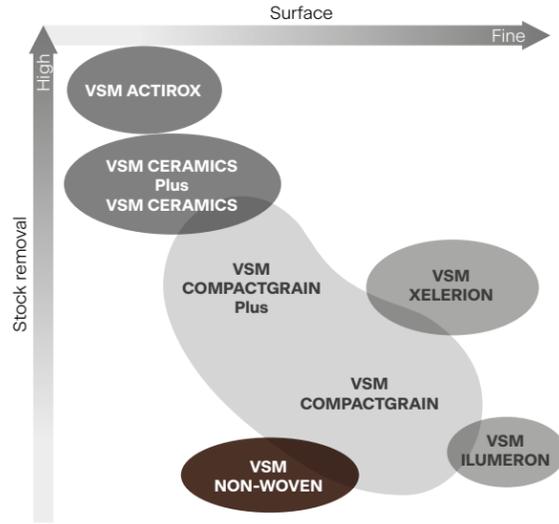
VSM NON-WOVEN – for optimal performance



Your advantages at a glance

- > **VSM NON-WOVEN** abrasives combine flexibility, precision, and performance for a flawless finish every time.
- > **Proven performance** trusted across industries including tank and machine construction, tool and valve manufacturing, automotive, and aerospace.
- > Even grain distribution and low contact pressure deliver a **consistent surface finish**.
- > **Outstanding conformability** allows flexible, elastic structure to adapt easily to intricate shapes.

The right grain for every application



Your application



Turbine blades Tools Tubes Furniture Automotive Kitchen Castings and forged parts Medical instruments

The performance lies in the structure

VSM offers the right non-woven solution for your specific application.

Designed for sharp, aggressive performance, **VSM NON-WOVEN** abrasives use aluminum oxide grains for matte finishes and silicon carbide for glossy results. This combination delivers consistent, high-quality performance across a wide range of surface finishing needs.

Thanks to their flexible, three-dimensional structure, non-woven products conform easily to the shape and geometry of the workpiece, ensuring even contact and uniform results.

VSM's abrasives are trusted across many industries, including tank and machinery manufacturing, tool production, valves and fittings, as well as the automotive and aerospace industries. Each application benefits from a solution tailored to its specific requirements.

Whether used for decorative satin finishes, surface cleaning, or light deburring, **VSM NON-WOVEN** products deliver a smooth, flawless finish every time.

Consistent surface finish

The three-dimensional non-woven structure distributes abrasive grains evenly, ensuring uniform results. It also maintains low contact pressure on the workpiece.

Outstanding conformability

Highly flexible and resilient, **VSM NON-WOVEN** products easily conform to complex shapes without compromising workpiece tolerances.

Extended service life

Continuous exposure of fresh abrasive grain delivers dependable, long-lasting performance.

Cool grinding

The open design reduces heat buildup and helps prevent loading and clogging.

Grinding applications

- > Surface finishing
- > Removal of scratches and lacquer
- > Cleaning
- > Rust removal
- > Bleding of welds
- > Light deburring

Materials

- > Stainless steel
- > Low-alloyed and unalloyed steel
- > Chrome- and chrome-nickel-steel
- > Nickel-base alloys
- > Titanium-base alloys
- > Castings
- > Aluminium alloys
- > Brass and bronze

Our Products

NON-WOVEN

VSM Series	Max width	Wide belts	Narrow belts	Discs	Quick change	Backing material	Features	Coarse	Medium	Fine	Very fine	Ultra fine
KV706X	63 in	⊙				Scrim	⊕ Low Stretch					
KV707D	39 in			⊙	⊙	Scrim	⊕					
KV707DHD	39 in			●		Scrim	⊕					
KV707T	39 in		○			Scrim	X-Flex					
KV707X	39 in	⊙	⊙			Scrim	⊕ Low Stretch					
KV707Y	39 in	⊙	⊙			Scrim	⊕ Low Stretch					
KV710X	39 in	⊙	⊙			Scrim	⊕ Low Stretch					

Key

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



Case Studies

Repair grinding



Workpiece	Turbine blades
Material	Aluminum Grade 2000 and 5000
Cutting speed	4000 RPM
Feed rate	Manual
Series	VSM NONWOVEN KV707T
Contact element	Rubber roll D 24:8, 90° Shore A
Grit size	40
Result	> 20% more workpieces compared to the competing product

Clean and finish



Workpiece	Custom components Aerospace, medical, food service
Material	Stainless, aluminum
Cutting speed	2000 SFPM
Feed rate	20 FPM
Series	VSM KV706X
Contact element	Rubber wheel
Grit size	400
Result	> Lasted 15% longer > Left a finer finish

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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