VSM
WE KNOW ABRASIVES



VSM NON-WOVEN

Solutions for a perfect surface

The performance lies in the structure

Sharp and aggressive: aluminium oxide grains for matt surfaces and silicon carbide for a glossy finish. These are the features which always ensure the very best results for every application. Thanks to the flexible, three-dimensional structure of **VSM NON-WOVEN**, the products adapt perfectly to the geometry of the machined workpieces.

VSM has the non-woven products you need for your application

This makes **VSM NON-WOVEN** the abrasives of choice for various lines of industry. Tank and machine manufacturers, manufacturers of tools, valves and fittings and the automotive and aviation industries are only some of those industries which find the best possible product for their application in our range of products.

VSM NON-WOVEN ensure a flawless surface finish, irrespective of whether they are used for decorative satin finishes, cleaning or light deburring work.

A consistent surface finish

> thanks to the uniform distribution of the abrasive grains inside the three-dimensional fleece.
> thanks to the low contact pressure on the workpiece.

Excellent ability to adapt

> thanks to its flexibility and elasticity.
> does not compromise the tolerances of the workpiece.

Enhanced service life

> thanks to a continuous exposure of new grain.

Cool grinding

> thanks to the open three-dimensional structure of the product.
> thanks to practically no 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
> Plastic

Workpieces:

> Tubes
> Containers
> Sheets
> Metal structures
> Turbine blades
> Sinks
> Tools
> Ski und snowboards
> Car body parts
> Casts and forged parts
> Furniture parts (metal)



Surface Conditioning products

Thick, needle-felted non-woven on a polyester backing

VSM KV710X
Low Stretch & velour-backed non-woven (disc) ♢

Application	Robotic grinding, off-hand grinding, backstand, angle grinder, disc sander (max. 30 m/s)
Version	Narrow, long and wide belts, discs
Grain type	Aluminium oxide (AO), Silicon carbide (SIC)
Grit size	Coarse (100, brown) (AO) Medium (180, red) (AO) Very fine (240, blue) (AO) Ultra fine (400, grey) (SIC)
Backing material	Sturdy, low stretch polyester backing

VSM KV707X
Low Stretch ♢

Application	Robotic grinding, off-hand grinding, backstand
Version	Narrow, long and wide belts
Grain type	Aluminium oxide (AO), Silicon carbide (SIC)
Grit size	Coarse (100, brown) (AO) Medium (180, red) (AO) Very fine (240, blue) (AO) Ultra fine (400, grey) (SIC)
Backing material	Sturdy, low stretch polyester backing

VSM KV707T
T-Flex ♢

Application	File belts
Version	Short belts and file belts
Grain type	Aluminium oxide (AO)
Grit size	Coarse (100, brown) (AO) Medium (180, red) (AO) Very fine (240, blue) (AO)
Backing material	Flexible polyester backing

VSM KV707Y
Heavy Duty ♢

Application	Robot grinding, off-hand grinding, backstand
Version	Narrow, long and wide belts
Grain type	Aluminium oxide (AO)
Körnung	Medium (180, red) (AO)
Backing material	Very sturdy, firm polyester backing

VSM KV707K
Velour-backed non-woven (disc) ♢

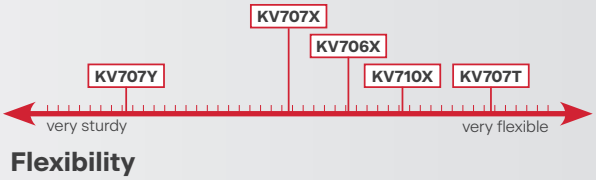
Application	Angle grinder, disc sander (max. 30 m/s)
Version	Discs
Grain type	Aluminium oxide (AO)
Grit size	Coarse (100, brown) (AO) Medium (180, red) (AO) Very fine (240, blue) (AO)
Backing material	Polyester backing with fleece loops on the upper surface of the backing

VSM KV706X
Low Stretch ♢

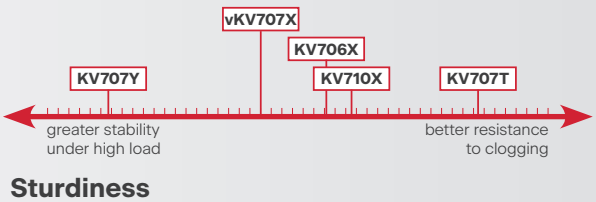
Application	Automatic and robotic grinding
Version	Narrow, long and wide belts
Grain type	Aluminium oxide (AO)
Grit size	Coarse (100, brown) (AO) Medium (180, red) (AO) Very fine (240, blue) (AO)
Backing material	Reinforced, low-stretch polyester backing

All VSM non-woven series are suitable for dry grinding
♢ also suitable for wet grinding





Flexibility



Sturdiness

Case studies

Repair grinding



Workpiece	Turbine blades
Material	Aluminium Grade 2000 and 5000
Cutting speed	4,000 rpm
Feed rate	Manual
Series	**KV707T**
Contact element	Rubber roll D 24:8, 90° Shore A
Grit size	180, 240

> **Result:** 20% more Workpieces compared to the competing product

Clean and finish



Workpiece	Cookware/Pots
Material	Steel
Cutting speed	20 m/s (65.6 fps)
Feed rate	10 m/min (32.8 ft/min)
Series	**KV701**
Contact element	Contact wheel: D = 300, smooth, rubber-coated, 40° Shore A
Grit size	240

> **Result:** 10% longer service life



Products for cleaning & finishing

Soft, open fibre fleece, both sides can be used



VSM KV701 / VSM CV701		
Application		Disc and orbital sanders, off-hand grinding, manual
Version		Pads and rolls
Grain type	KV701 CV701	Aluminium oxide (AO) Silicon carbide (SIC)
Grit size	KV701 KV701 KV701 CV701 CV701 CV701	Coarse (100, red-brown) (AO) Medium (180, red-brown) (AO) Fine (280, red-brown) (AO) Fine (280, grey) (SIC) Very fine (400, grey) (SIC) Ultra fine (1000, grey) (SIC)
Notes		Suitable for making abrasive tools such as wheels, rolls and discs.



VSM KV301 / VSM CV301		
Application		Orbital sander, off-hand grinding, manual
Version		Pads and rolls
Grain type	KV301 CV301	Aluminium oxide (AO) Silicon carbide (SIC)
Grit size	KV301 KV301 KV301 CV301 CV301	Coarse (100, red-brown) (AO) Medium (180, red-brown) (AO) Fine (280, red-brown) (AO) Very fine (400, grey) (SIC) Ultra fine (1000, grey) (SIC)



VSM KV701K nylon web, velours-backed	
Application	Angle grinder, disc sander (excentric rotation) (max. 30 m/s)
Version	Discs
Grain type	Aluminium Oxide (AO)
Grit size	Coarse (100, red-brown) (AO) Medium (180, red-brown) (AO) Fine (280, red-brown) (AO)

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