

NON-WOVENS

**Solutions for
perfect surfaces**

Performance due to the structure

Sharp and cutting - depending on your application, you will achieve best results with either aluminium oxide or silicon carbide. The three-dimensional structure of the VSM non-woven adapts to the geometry of the work surface.

The most suitable non-woven for a host of applications

VSM non-woven is the material of first choice for a variety of industry sectors. Container and machine manufacturers, automotive, aerospace, fittings and tooling manufacturers as well as sink manufacturers will find the right non-woven product for their application, whether for decorative satin finishing, cleaning or light deburring – VSM non-woven guarantees the perfect finish.

Constant surface finish

- > Uniform grain dispersion in the three-dimensional structure
- > Low contact pressure on the workpiece

Good conformance

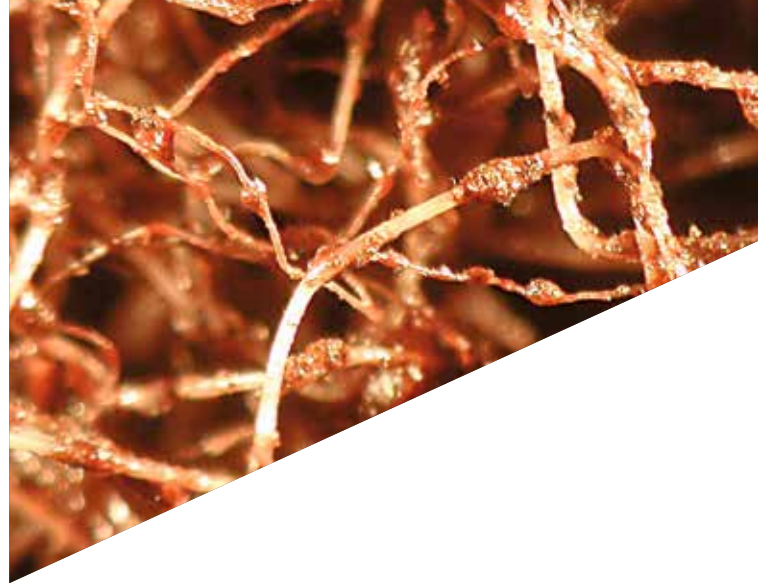
- > Flexible and elastic structure
- > Maintains the geometry of workpiece surface

Long service life

- > Continuous exposure of new grain

Cooler operation

- > Open three-dimensional structure
- > No clogging



Grinding processes:

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

Materials:

- > Stainless steel
- > Low-alloy and unalloyed steel
- > Chrome- and chrome-nickel-steel
- > Nickel-base alloys
- > Titanium-base alloys
- > Casting
- > Aluminium alloys
- > Brass and bronze
- > Plastic


Workpieces:


- > Tubes
- > Containers
- > Metal structures
- > Turbine blades
- > Sinks
- > Tools
- > Ski and snowboards
- > Car body parts
- > Forgings
- > Castings
- > Furniture parts (metal)




Surface Conditioning products


Ultra-fine density non-woven on a polyester backing

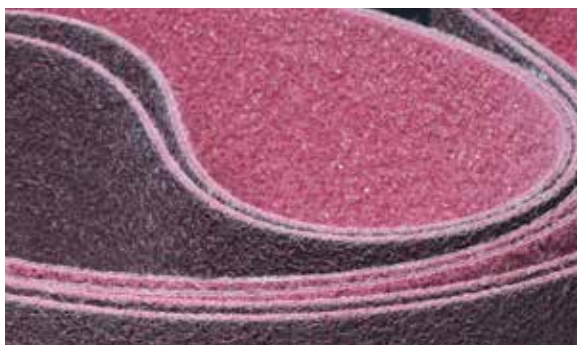
VSM KV707X Low Stretch 	
Application:	Automatic and robotic grinding, backstand grinding
Model:	Narrow, long and wide belts
Grain type:	Aluminium oxide (AO), Silicon carbide (SIC)
Grit size:	Coarse (100, brown) (AO) Medium (180, red) (AO) Fine (240, blue) (AO) Very fine (400, grey) (SIC)
Backing material:	Robust polyester backing with a fibre-bonded fibre non-woven

VSM KV707K Velcro (disc) 	
Application:	Angle grinder, Rotary sander (max. 30 m/s)
Model:	Discs
Grain type:	Aluminium oxide (AO)
Grit size:	Coarse (100, brown) (AO) Medium (180, red) (AO) Fine (240, blue) (AO)
Backing material:	Robust polyester backing

VSM KV707T X-Flex 	
Application:	Portable grinding machines
Model:	Short and file belts
Grain type:	Aluminium oxide (AO)
Grit size:	Coarse (100, brown) (AO) Medium (180, red) (AO) Fine (240, blue) (AO)
Backing material:	Flexible polyester backing with a fibre-bonded fibre non-woven

VSM KV707 fibre backing (disc)	
Application:	Angle grinder (max. 56 m/s)
Model:	Discs
Grain type:	Aluminium oxide (AO)
Grit size:	Coarse (100, brown) (AO) Medium (180, red) (AO)
Backing material:	Fibre backing

 also suited for wet grinding



Clean & Finish products

Soft, open fibre non-woven, usable on both sides

VSM KV701	
Application:	Rotary and orbital sanders, Manual grinding
Model:	Pads and rolls
Grain type:	Aluminium oxide (AO)
Grit size:	Coarse (100, red-brown) Medium (180, red-brown) Fine (280, red-brown)

VSM KV301	
Application:	Orbital sanders, Manual grinding
Model:	Pads and rolls
Grain type:	Aluminium oxide (AO)
Grit size:	Coarse (100, red-brown) Medium (180, red-brown) Fine (280, red-brown)

Suitable to the production of grinding tools e. g. shaft mounted wheels, flap wheels or discs.



VSM CV701	
Application:	Orbital sanders, Manual grinding
Model:	Pads and rolls
Grain type:	Silicon carbide (SIC)
Grit size:	Fine (280, grey) Very fine (400, grey) Ultra fine (1000, grey)

VSM CV301	
Application:	Orbital sanders, Manual grinding
Model:	Pads and rolls
Grain type:	Silicon carbide (SIC)
Grit size:	Very fine (400, grey) Ultra fine (1000, grey)

Suitable to the production of grinding tools e. g. shaft mounted wheels, flap wheels or discs.

VSM KV701K Velcro	
Application:	Angle grinder, Rotary sander (max. 30 m/s)
Model:	Discs
Grain type:	Aluminium oxide (AO)
Grit size:	Coarse (100, red-brown) Medium (180, red-brown) Fine (280, red-brown)

VSM KV101	
Application:	Manual grinding
Model:	Pads and rolls
Grain type:	Aluminium oxide (AO)
Grit size:	Fine (280, green)

Non-woven for long belt grinding

VSM KV701X	
Application:	Flat grinding (max. 10-12 m/s)
Model:	Long belts
Grain type:	Aluminium oxide (AO)
Grit size:	Medium (180, red-brown)
Backing material:	Non-woven web laminated on robust backing



The new VSM non-woven web on cloth backing can be used with lever operated contact rollers or lever operated and hand held contact pads. It is recommended for flat and lightly profiled parts made of stainless steel and standard steels as well as non-ferrous metals. It has been specially developed for grinding on long belt machines – with all the advantages of VSM non-woven material.



Grinding processes:

- > Grinding of flat and lightly profiled parts

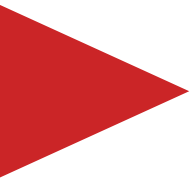
Materials:

- > Stainless steel
- > Low-alloy and unalloyed steel
- > Non-ferrous metals

Workpieces:

- > Metal sheets/plates
- > Containers
- > Casings
- > Control cabinets
- > Hoods
- > Cover sheets
- > Sinks





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