



**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

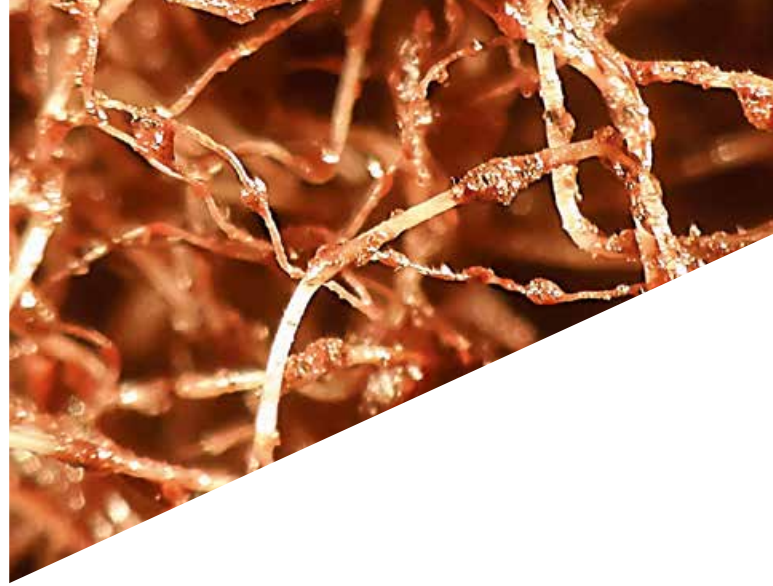
- > thanks to its flexibility and elasticity.
- > does not compromise the tolerances of the workpiece.

### 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)



# Non-woven for long belt grinding

## VSM KV701X / VSM CV701X

<b>Application</b>		Flat grinding (max. 10 – 12 m/s)
<b>Version</b>		Long belts
<b>Grain type</b>	KV701X	Aluminium oxide (AO)
	CV701X	Silicon carbide (SIC)
<b>Grit size</b>	KV701X	Coarse (100, red-brown) (AO)
	KV701X	Medium (180, red-brown) (AO)
	KV701X	Fine (280, red-brown) (AO)
	CV701X	Fine (280, grey) (SIC)
	CV701X	Very fine (400, grey) (SIC)
	CV701X	Ultra fine (1000, grey) (SIC)
<b>Backing material</b>		Non-woven web laminated on a sturdy backing

The new **VSM NON-WOVEN** on a cloth backing can be used with a contact roll, a platen or a pad. 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 materials.

### Grinding applications:

- > Grinding of flat and slightly profiled parts

### Materials:

- > Stainless steel
- > Low-alloyed and unalloyed steels
- > Non-ferrous metals



### Workpieces:

- > Sheet metal/metal plates
- > Containers
- > Casings
- > Control cabinets
- > Extractor hoods
- > Cover sheets
- > Sinks

# Surface Conditioning products

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

## VSM KV707Y Heavy Duty ◊

<b>Application</b>	Automatic machine grinding, robot grinding, off-hand grinding, backstand
<b>Version</b>	Narrow, long and wide belts
<b>Grain type</b>	Aluminium oxide (AO)
<b>Grit size</b>	Medium (180, red) (AO)
<b>Backing material</b>	Very sturdy, firm polyester backing

## VSM KV707X Low Stretch ◊

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

## VSM KV707T T-Flex ◊

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

## Flexibility



## Sturdiness



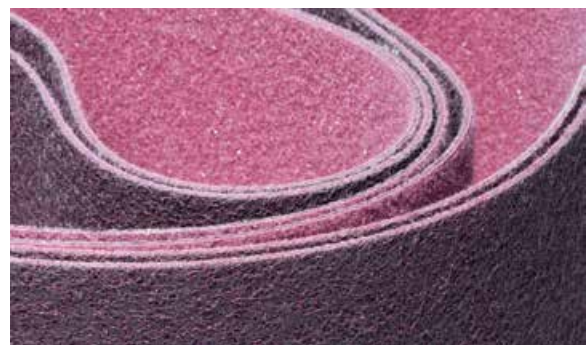
## VSM KV707K velour-backed non-woven (disc) ◊

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

## VSM KV707 non-woven on fibre backing (disc)

<b>Application</b>	Angle grinder (max. 56 m/s)
<b>Version</b>	Discs
<b>Grain type</b>	Aluminium oxide (AO)
<b>Grit size</b>	Coarse (100, brown) (AO) Medium (180, red) (AO)
<b>Backing material</b>	Fibre backing

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



# Products for cleaning & finishing

Soft, open fibre fleece, both sides can be used



## VSM KV701 / VSM CV701

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

## VSM KV301 / VSM CV301

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



## VSM KV701K velour-backed non-woven

<b>Application</b>		Angle grinder, disc sander (max. 30 m / s)
<b>Version</b>		Discs
<b>Grain type</b>		Aluminium oxide (AO)
<b>Grit size</b>	Coarse	(100, red-brown) (AO)
	Medium	(180, red-brown) (AO)
	Fine	(280, red-brown) (AO)



# A worldwide leader in abrasives.



## Europe

### Germany (Headquarters)

**VSM - Vereinigte Schmirgel- und Maschinen-Fabriken AG**  
Siegmundstraße 17  
30165 Hannover  
T +49 511 3526 478  
www.vsmabrasives.de

### Czech Republic

**VSM Abrasives s.r.o.**  
River Garden, 5th Floor  
Rohanské nábřeží 678/23  
18600 Praha  
T +420 277 015 300  
www.vsmabrasives.cz

### France

**VSM Impavide S.A.S.**  
52 Avenue Marcel Paul  
93297 Tremblay en France  
T +33 1 4151 0300  
www.vsmabrasives.fr

### Great Britain

**VSM Abrasives Ltd.**  
Unit 5, Joplin Court Sovereign  
Business Park, Crownhill  
Milton Keynes, MK8 0JP  
T +44 19 0831 0207  
www.vsmabrasives.co.uk

### Hungary

**VSM Abrasives Hungary Ltd.**  
Leshegy út 31  
2310 Szigetszentmiklós  
T +36 24 519223  
www.vsmabrasives.hu

### Poland

**PFERD-VSM Sp. z o.o.**  
Ul. Polna 1A  
62-025 Kostrzyn Wielkopolski  
T +48 61 8970 480  
www.pferdvsmlp

### Russia

**VSM AG - Russian Representative Office**  
141006, Moscow region  
c. Mytishchi Volkovskoe  
roadway vl. 5a, str. 1, of. 208  
T +7 499 346 35 27  
www.vsmabrasives.ru

### Spain

**VSM - VITEX ABRASIVOS IBERICA, S.A.U.**  
Ctra. de Molins de Rei,  
79A, Nave 8  
08191 Rubí (Barcelona)  
T +34 93 697 3411  
www.vsmabrasives.es

### Sweden

**PFERD-VSM AB**  
Radiovägen 3B  
18155 Lidingö  
T +46 8 5647 2300  
www.pferd-vsm.se

### Switzerland

**PFERD-VSM (Schweiz) AG**  
Zürichstr. 38 B  
8306 Brüttsellen  
T +41 44 805 2828  
www.pferd-vsm.ch

### Turkey

**STARCKE VSM VITEX Zimpara Teknolojisi Sanayi ve Dis Ticaret Ltd. Sti.**  
Yan Sanayi Sitesi  
Nubuk Cad. No: 8, Kat 1 - 4  
34953 Istanbul/Tuzla  
T +90 216 591 07 01  
www.starckevsm.com

## Americas

### Canada

**VSM Abrasives Canada Inc.**  
2425 Wyecroft Road Unit #1  
Oakville, Ontario  
L6L 6R5  
T +1 905 827 0005  
www.vsmabrasives.ca

### Latin America

**VSM Latinoamérica S.A.S.**  
Carrera 9 No. 115 - 06  
Edificio Tierra Firme Piso 17  
Bogota, Colombia  
T +57 1 639 8489  
M +57 316 8311705  
www.vsmabrasives-latinamerica.com

## Asia

### China

**VSM Abrasives (China) Co. Ltd.**  
Rooms 203/205, Building C,  
No. 38, Xuxiang Road, Qingpu  
District, Shanghai, P.R. China  
Postal Code: 201702  
T +86 21 5976 2011  
www.vsmabrasives.com.cn

### Thailand

**VSM AG - Thailand Representative Office**  
444 Olympia Thai Tower, 13<sup>th</sup> FL  
Ratchadaphisek Rd., Samsennok  
Huay Kwang, Bangkok 10310  
T +66 2 513 7441  
www.vsmabrasives-apac.com

### USA

**VSM Abrasives Corp.**  
1012 East Wabash St.  
O'Fallon, Mo. 63366  
T +1 636 272 7432  
us.vsmabrasives.com



Visit our website at  
[www.vsmabrasives.com](http://www.vsmabrasives.com)