



# BMA Abrasives spa



BMA stands for “Brusati Manifattura Abrasivi” and was one of the first coated abrasives manufacturer in Italy. Established in 1946 (formerly named as ATOV) BMA Abrasives focused on high quality products servicing woodworking industries and auto refinishing applications. In 1967 a new plant was built for the manufacture of resin bond coated abrasives with a jumbo roll width of 1’350 mm which enabled the company to meet the demands for wide belts for the woodworking industry.



In 1978 the jumbo roll making facilities were relocated to Borgo San Giovanni, near Lodi (50 km south of Milan). A completely new factory was built on a new site with modern equipment for jumbo rolls and finished products. The new maker was capable of producing jumbo rolls with a width of 1460 mm (57½ inches).

BMA Abrasives nowadays is located in Borgo San Giovanni, Italy, and offers a wide range of coated abrasive products for wood, lacquer and automotive applications.

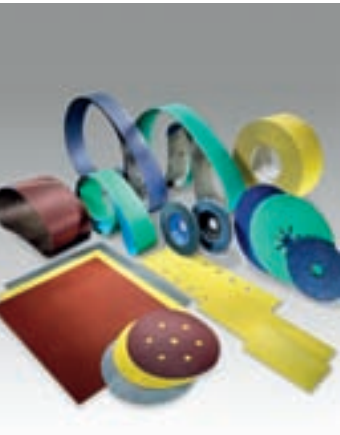
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# Coated Abrasives

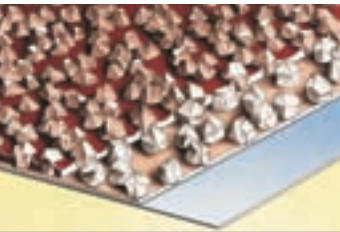
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Coated or flexible backed abrasives consist of three components: backing, adhesive bond and abrasive grain.

They are manufactured in a continuous process where abrasive grains are applied to the backing and anchored by bonding adhesives.

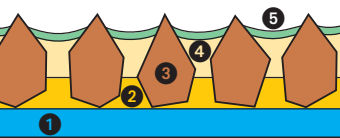
Coated abrasives lend themselves to a vast range of applications given the choice and possible combinations of primary components and the huge variety of product types available.



## Structure

The structure of a coated abrasive is indicated by the first fixing of the abrasive grains on the backing material using the base coat.

The second coat of binder (the size coat) is applied after a drying process, in order to anchor the abrasive grain permanently on the backing.



①

### Backing

Paper, cloth, combination, vulcanised fibre, plastic film, foam

②

### Base Coat

Artificial resin, leather glue

③

### Abrasive Grain

Garnet, emery, zirconia alumina, ceramic aluminium oxide, brown aluminium oxide, semi-friable aluminium oxide, white aluminium oxide, silicon carbide, synthetic diamond

④

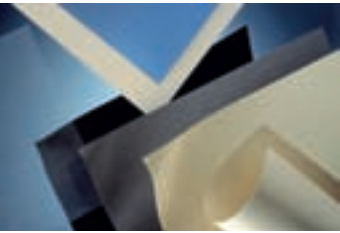
### Size Coat

Artificial resin, active ingredient, leather glue, filler

⑤

### Supplement

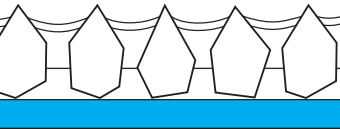
Stearate, cooling material



## Backing

Paper, cloth, combination, vulcanised fibre, plastic film or foam are used as backings for coated abrasives.

These backings give the abrasive very specific grip and adhesion, stretch, tear resistance, flexibility and stability properties.



## Paper

Paper (Code)	g/m <sup>2</sup>	Application Area
A	< 85	Hand sanding, fine sanding
B	86–110	Hand sanding
C	111–135	Hand sanding, portable sanders
D	136–220	Portable sanders
E	221–270	Machine sanding (light wide belt)
F	271–350	Machine sanding (wide belt)
G	351–500	Machine sanding (segmented belt)
H	> 500	Machine sanding (segmented belt)

## Cloth

Cloth (Code)	Properties	Application Area
H	Extremely flexible	Contour and profile sanding
JJ	Highly flexible	Contour and fine sanding
J	Flexible	Contour sanding
X	Rigid / heavy	High-performance sanding
Y	Rigid / extra heavy	High-performance sanding
Z	Heavy, weft thread reinforced	Wide belts

Please see separate leaflet for our cloth products.



### **Bonding**

BMA uses water-based bonding systems. These are mainly made with phenolic and urea resins with additives of different dispersions to impart flexibility to suit the application.

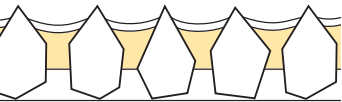
These systems enable us to manufacture both very tough, high-performance abrasives and extremely flexible finishing products.

Animal glues are used only in very rare cases nowadays.



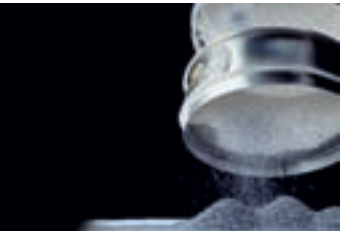
### **Base Coat**

The base coat prefixes the abrasive grains in the required position and distribution on the backing.



### **Size Coat**

The size coat finally interconnects the abrasive grains and binds them to the backing. Depending on the application area of the abrasive, softer, more elastic or harder, more tenacious binders are being used. The hardness of the binder influences the aggressiveness and the durability of the abrasive.

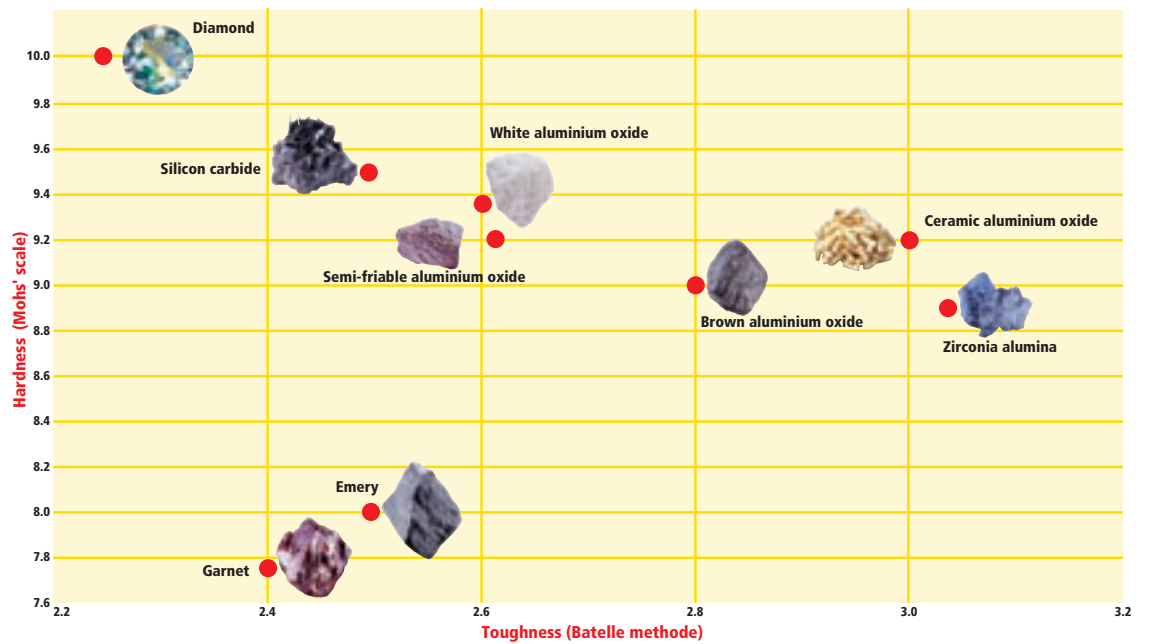
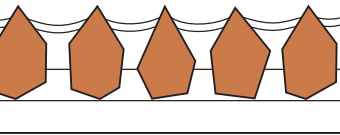


## Abrasive Grain

The raw materials most commonly used today for abrasive grains are silicon carbide and aluminum oxide in a wide variety of forms.

New abrasives like zirconia alumina and ceramic aluminum oxide are also gaining in popularity, while the use of natural minerals like garnet and emery is on a sharp decline.

The hardness and toughness of the abrasive grains depend on the raw material used and determine the characteristics and application of the abrasives.



## Grain Coating

### Electrostatic coating

The grits become charged electrostatically and attracted to the oncoming, with base coat coated backing.




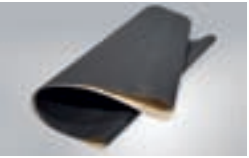
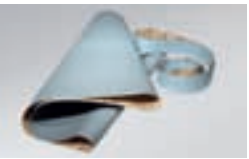




Electrostatically coated abrasives are more aggressive and get more sanding performance as mechanically coated abrasives.



### Mechanical coating

The grit falls by force of gravity onto the base coat coated backing and lie accidental on the backing. Mechanically coated abrasives are less aggressive.




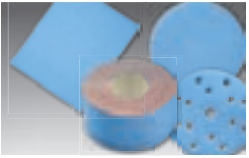
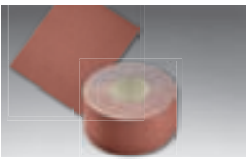

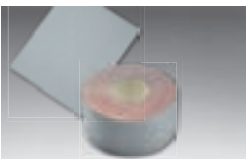
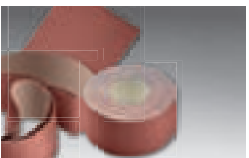

# Series Overview I

Series	MATERIAL			APPLICATION		BACKING						GRIT		GRIT SIZE														
	Wood	Lacquer	Automotive			Paper A	Paper B	Paper C	Paper D	Paper E	Paper F	Aluminium Oxide	Silicon Carbide	36	40	50	60	80	100	120	150	180	220	240	280	320	360	
<b>PHE</b> 	•	•		•	•					•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
<b>KGF</b> 	•	•		•						•	•	•			•		•	•	•	•	•	•	•	•	•	•	•	•
<b>KGS</b> 	•	•		•						•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•
<b>BLE</b> 		•		•						•		•									•	•	•	•	•	•	•	•
<b>CSE</b> 		•		•						•		•										•	•	•	•	•	•	•
<b>CAD</b> 		•	•	•						•		•										•	•	•	•	•	•	•
<b>RBE</b> 	•				•				•			•			•	•	•	•	•	•	•							



							CONVERSION FORM				JUMBO SIZE		SPECIALS		PAGE								
400	500	600	800	1000	1200		Sheet	Roll	Mini Roll	Soft Roll	Disc	Strip	Belt	Jumbo Roll	1400 mm	1420 mm	1440 mm	1170 mm	Antistatic	Latex backing	Semi- / Waterproof	Stearate	
								●			●			●			●		●				10
													●	●			●		●				11
●	●	●	●										●	●			●		●		●		12
●	●	●	●	●	●								●	●			●		●		●		13
●	●	●	●										●	●			●		●				14
●	●	●	●										●	●			●		●		●		15
								●	●					●			●						16

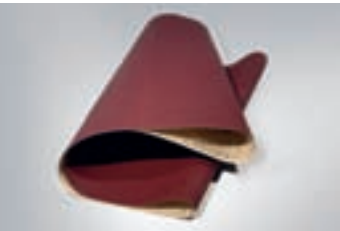
# Series Overview II

Series	MATERIAL			APPLICATION		BACKING						GRIT		GRIT SIZE															
	Wood	Lacquer	Automotive			Paper A	Paper B	Paper C	Paper D	Paper E	Paper F	Aluminium Oxide	Silicon Carbide	36	40	50	60	80	100	120	150	180	220	240	280	320	360		
<b>PKC</b> 	•	•	•	•	•			•	•			•			•		•	•	•	•	•	•	•	•	•	•	•	•	•
<b>BLC</b> 		•	•		•			•	•			•			•		•	•	•	•	•	•	•	•	•	•	•	•	•
<b>FGD</b> 	•				•			•				•			•		•	•	•	•	•	•							
<b>PTA</b> 	•	•		•	•			•				•						•	•	•	•	•	•	•	•	•	•	•	•
<b>CSA</b> 	•	•			•	•						•	•						•	•	•	•	•	•	•	•	•	•	•
<b>WNC</b> 	•	•	•	•	•			•	•			•			•		•	•	•	•	•	•	•	•	•	•	•	•	•
<b>WSC</b> 		•	•		•	•		•					•					•	•	•	•	•	•	•	•	•	•	•	•

							CONVERSION FORM							JUMBO SIZE				SPECIALS				PAGE	
400	500	600	800	1000	1200		Sheet	Roll	Mini Roll	Soft Roll	Disc	Strip	Belt	Jumbo Roll	1400 mm	1420 mm	1440 mm	1170 mm	Antistatic	Latex backing	Semi- / Waterproof	Stearate	
●	●	●					●	●	●	●	●	●	●	●			●					●	17
●	●	●	●	●	●					●	●	●		●			●			●	●		18
							●	●	●					●		●			●				19
●	●						●	●					●	●		●						●	20
●	●						●	●		●				●			●		●	●		●	21
●	●	●					●	●	●				●	●		●					●		22
●	●	●	●	●	●		●							●			●		●	●			23

# PHE

## for wooden material



The robust abrasive is used for wide belt, manual hand and hand machine sanding for hard applications and a complete removal of wooden materials, paint and metal. This allround product leaves perfect surfaces and due to the antistatic treatment, there is low dust adhesion on the abrasive belt, work piece and machine.

### Structure

Grit: Aluminium oxide  
 Coating: Semi-open coated  
 Backing: Paper F (P036-P080), E (P100-P320)  
 Adhesive: Resin  
 Specials: Antistatic






### Grit Range

P036-P320

### Advantages

- Universal allround product for wood applications
- Perfect surface
- Low dust adhesion on abrasive



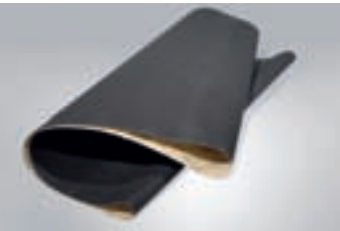
	Conversion	Dimension
	Belt	Narrow and wide belts on request
	Roll	120 mm×25 / 50 m 150 mm×25 / 50 m
	Disc	0 / 7 / 9 holes Ø 150 mm
	Disc	0 / 9 holes Ø 127 mm
	Jumbo Roll	1440 mm

Other conversion forms or dimensions available on request with minimum order quantities.

# KGF

## for resinous wooden material

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Suitable for any application on wood that is smearing or is containing oil or resin. This allround and special open-coated product leaves a perfect surface and due to the antistatic treatment, there is low dust adhesion on the abrasive belt, work piece and machine.

### Structure

Grit: Aluminium oxide  
Coating: Open coated  
Backing: Paper F (P040-P220), E (P240-P320)  
Adhesive: Resin  
Specials: Antistatic

### Grit Range

P040, P060-P320

### Advantages

- Ideal for wood that smears or wood containing oil or resin
- Ideal for use on automatic narrow and wide belt sander
- Low dust adhesion on abrasive belt
- Excellent finish on solid wood and veneers



Conversion	Dimension
Belt	Narrow and wide belts on request
Jumbo Roll	1440 mm

Other conversion forms or dimensions available on request with minimum order quantities.

# KGS

## for clogging material and all kinds of polyester varnish



KGS incorporates the advantages of KGF with an additional stearate coating which avoids clogging on the abrasive. It is ideal for the sanding of polyester lacquers, pigment polyester paints, melamine and wood that is smearing or is containing oil or resin. The antistatic treatment prevents dust adhesion on the abrasive belt, work piece and machine.

### Structure

Grit: Aluminium oxide (P060-P320),  
Silicon carbide (P360-P800)

Coating: Open coated

Backing: Paper F (P060-P220), E (P240-P800)

Adhesive: Resin

Specials: Stearate, antistatic

### Grit Range

P060-P800

### Advantages

- Ideal for wood that smears or wood containing oil or resin
- Ideal for use on automatic narrow and wide belt sander
- Low dust adhesion on abrasive belt
- Excellent finish on solid wood and veneers
- Additional stearate coating to prevent clogging



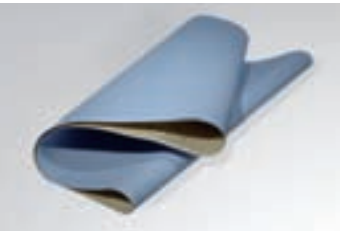
Conversion	Dimension
Belt	Narrow and wide belts on request
Jumbo Roll	1440 mm

Other conversion forms or dimensions available on request with minimum order quantities.

# BLE

## for paint, lacquer and varnish

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This blue coloured abrasive is perfectly appropriate for the sanding application on polyester paints, polyurethane, water based varnishes, melamine and fillers with high clogging and provides a good finish. Thanks to the antistatic treatment it reduces dust adhesion on the abrasive belt, work piece and machine to a minimum. The stearate makes this product particularly resistant to clogging.

### Structure

Grit: Aluminium oxide (special treatment)  
 Coating: Closed coated  
 Backing: Paper E  
 Adhesive: Resin over resin  
 Specials: Stearate, antistatic

### Grit Range

P150-P1200

### Advantages

- High stock removal
- Ideal for use on narrow and wide belt sander
- Low dust adhesion on abrasive belt
- Resistant to clogging



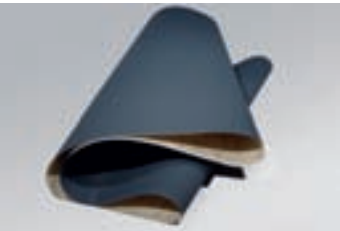
Conversion	Dimension
Belt	Narrow and wide belts on request
Jumbo Roll	1420 mm

Other conversion forms or dimensions available on request with minimum order quantities.

# CSE

## for all kinds of lacquer and varnish

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CSE offers the advantages of the silicon carbide grain on a strong paper. It is an excellent product for sanding of transparent polyester varnishes, keying and dulling of primers or intermediate and final sanding of thin varnishes. Thanks to the antistatic treatment, it reduces dust adhesion on the abrasive belt, work piece and machine to a minimum.

### Structure

Grit: Silicon carbide  
 Coating: Closed coated  
 Backing: Paper E  
 Adhesive: Glue  
 Specials: Antistatic

### Grit Range

P180-P800

### Advantages

- Soft structure and flexible bonding guarantee maximum surface smoothness
- Ideal for use on automatic narrow and wide belt sanders
- Low dust adhesion on abrasive
- For thin, difficult-to-sand varnishes
- Where surface gloss is paramount and surface quality is more important than high stock removal rates



Conversion	Dimension
Belt	Narrow and wide belts on request
Jumbo Roll	1420 mm

Other conversion forms or dimensions available on request with minimum order quantities.



# CAD

## for all kinds of lacquer and varnish

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Durable CAD is particularly suitable for sanding wood varnished with nitro, polyester, polyurethane, acrylic and synthetic. It provides a good and constant finish. Thanks to the antistatic treatment, it reduces dust adhesion on the abrasive belt, work piece and machine to a minimum. The stearate makes this product particularly resistant to clogging.

### Structure

Grit: Silicon carbide  
Coating: Closed coated  
Backing: Paper E  
Adhesive: Glue  
Specials: Stearate, antistatic

### Grit Range

P180-P800

### Advantages

- Best surface quality when sanding wood with any kinds of varnish
- Ideal for use on automatic narrow and wide belt sander
- Low dust adhesion on abrasive
- Resistant to clogging
- Long lifetime



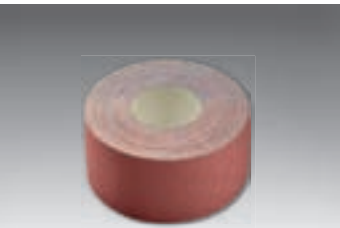
Conversion	Dimension
Belt	Narrow and wide belts on request
Jumbo Roll	1420 mm

Other conversion forms or dimensions available on request with minimum order quantities.

# RBE

## for wood, building and construction

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The robust abrasive is used for hand and hand machine sanding in the building and construction area for the complete removal on wood and iron. It leaves a very high quality surface when sanding on hard and raw wood.

### Structure

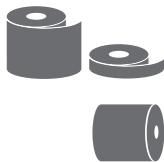
Grit: Aluminium oxide  
Coating: Closed coated  
Backing: Paper D  
Adhesive: Resin

### Grit Range

P040-P180

### Advantages

- High surface quality when sanding hard wood
- High material removal rate and fine surface all grit ranges
- High surface quality using fine grit sizes

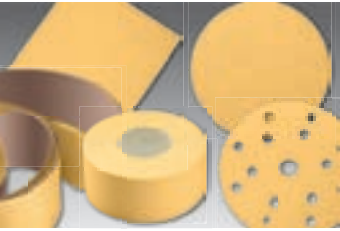


Conversion	Dimension
Roll / Mini Roll	115 mm×5 / 50 m
Jumbo Roll	1420 mm

Other conversion forms or dimensions available on request with minimum order quantities.

# PKC

## for wood, lacquer, primer and filler



The ideal allround product for hand or hand machine sanding of any kind of wooden materials, lacquers, paints, primers and fillers. The stearate makes this product particularly resistant to clogging.

### Structure

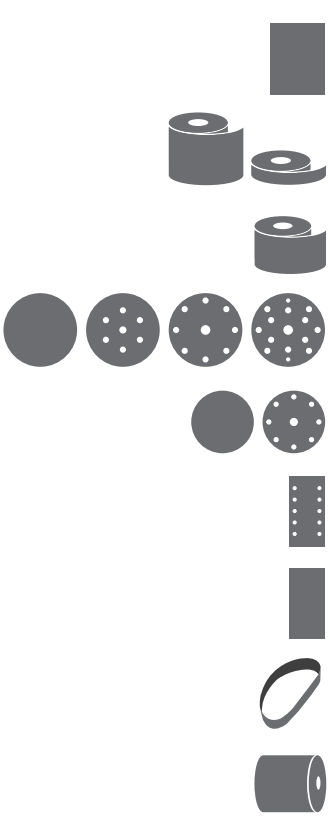
Grit: Aluminium oxide  
 Coating: Open coated  
 Backing: Paper D (P040-P100), C (P120-P600)  
 Adhesive: Resin  
 Specials: Stearate

### Grit Range

P040, P060-P600

### Advantages

- Suitable for a universal and wide range of applications
- Ideal for hand use and portable sanders
- Low clogging



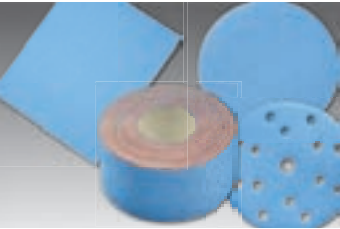
Conversion	Dimension
Sheet	230 mm×280 mm
Roll / Mini Roll	120 mm×50 m 150 mm×50 m 115 mm×5 m
Soft Roll	115 mm×25 m
Disc	0 / 7 / 9 / 15 holes Ø 150 mm
Disc	0 / 9 holes Ø 127 mm
Strip	10 holes 115×228 mm
Strip	0 holes 70×127 mm
Belt	Narrow belts on request
Jumbo Roll	1440 mm

Other conversion forms or dimensions available on request with minimum order quantities.

# BLC

## for paint, lacquer and automotive

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This highly flexible abrasive containing latex-paper combines a high stock removal, due to a special grit type, with a great finish. It is ideal for hand machine sanding of primers, fillers, paints and all types of varnishes. The stearate makes this product particularly resistant to clogging.

### Structure

Grit: Aluminium oxide (special treatment)  
 Coating: Open coated  
 Backing: Paper D (P040-P080), C (P100-P1200)  
 Adhesive: Resin over resin  
 Specials: Stearate, latex backing





### Grit Range

P040, P060-P320, P400-P1200

### Advantages

- High stock removal with good finish
- Ideal for manual use thanks to high flexibility
- Low clogging



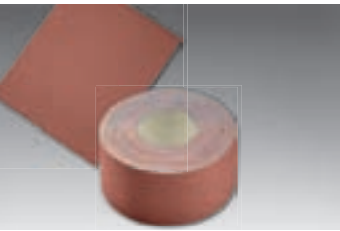
	Conversion	Dimension
	Soft Roll	115 mm×25 m
	Disc	0 / 7 / 15 holes Ø 150 mm
	Strip	0 holes 70×127 mm
	Jumbo Roll	1440 mm

Other conversion forms or dimensions available on request with minimum order quantities.

# FGD

## for wood, building and construction

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This favourable product is especially developed for hand and hand machine sanding of paint, wood and filler or any other surfaces particularly clogging such as cement, gypsum, plaster, plasterboard.

### Structure

Grit: Aluminium oxide  
Coating: Open coated  
Backing: Paper C  
Adhesive: Glue

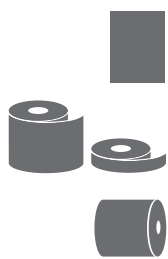


### Grit Range

P040, P060-P180

### Advantages

- Low clogging
- Efficient application
- Specially developed for hand use
- Can be folded to any required size



Conversion	Dimension
Sheet	230 mm×280 mm
Roll / Mini Roll	115 mm x 5 / 50 / 100 m
Jumbo Roll	1420 mm

Other conversion forms or dimensions available on request with minimum order quantities.

# PTA

## for wood and all kinds of varnish

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PTA offers a perfect finish on surfaces and is ideal for machine use as well as for hand use. The stearate makes this product particularly resistant to clogging.

### Structure

Grit: Aluminium oxide  
 Coating: Semi-open coated  
 Backing: Paper C  
 Adhesive: Resin  
 Specials: Stearate





### Grit Range

P080-P500

### Advantages

- Perfect finish to every surface
- Can be cut to required dimensions
- Specially developed for hand use
- Low clogging



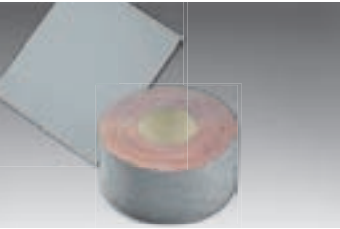
	Conversion	Dimension
	Sheet	230 mm×280 mm
	Roll	120 mm×50 / 100 m
	Belt	Narrow belts on request
	Jumbo Roll	1440 mm

Other conversion forms or dimensions available on request with minimum order quantities.

# CSA

## for wood and all kinds of varnish

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This very flexible product based on latex-paper is ideal for hand sanding of any type of lacquered wood. It offers perfect results with intermediate sanding applications. The stearate makes this product particularly resistant to clogging.

### Structure

Grit: Aluminium oxide (P120-P220),  
Silicon carbide (P240-P500)

Coating: Semi-open coated

Backing: Paper A

Adhesive: Resin

Specials: Stearate, latex backing







### Grit Range

P120-P500

### Advantages

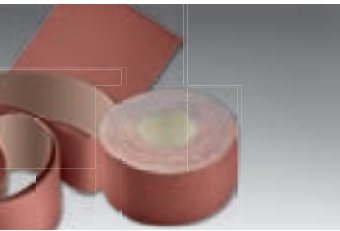
- Very good results with intermediate sanding applications
- Ideal for hand use thanks to very high flexibility
- Low clogging

	Conversion	Dimension
	Roll	115 mm×100 m
	Soft Roll	115 mm×10 m
	Sheet	230 mm×280 mm
	Jumbo Roll	1170 mm

Other conversion forms or dimensions available on request with minimum order quantities.

# WNC

## for paint, wooden material and automotive



This flexible and semi-waterproof quality is used for hand and machine sanding to smoothen and remove paint, wooden material or any kind of surface except for glass and marble. The high aggressiveness of the abrasive enables a high removal rate.

### Structure

Grit: Aluminium oxide  
Coating: Semi-open coated  
Backing: Paper D (P040-P080), C (P100-P600)  
Adhesive: Resin  
Specials: Semi-waterproof





### Grit Range

P040, P060-P600

### Advantages

- No reduction of quality after some soaking time
- No troublesome curling
- Very high aggressiveness
- Can be folded and cut to any required size



	Conversion	Dimension
	Sheet	230 mm×280 mm
	Roll / Mini Roll	115 mm×5 / 50 / 100 m
	Belt	Narrow belts on request
	Jumbo Roll	1400 mm

Other conversion forms or dimensions available on request with minimum order quantities.



# WSC

## for wet sanding

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This silicon carbide product provides an excellent performance on any automotive applications and is suitable for finishing operations on hard primers, fillers, paints, lacquers, plastics, marbles and glasses. The flexible and waterproof quality is suitable for any wet application.

### Structure

Grit: Silicon carbide  
Coating: Closed coated  
Backing: Paper C (P080-P220), A (P240-P1200)  
Adhesive: Resin  
Specials: Waterproof, latex and anti-slip backing



### Grit Range

P080-P1200

### Advantages

- May be used wet or dry
- High surface quality
- Cutting, good finish



	Conversion	Dimension
	Sheet	230 mm×280 mm
	Jumbo Roll	1170 mm

Other conversion forms or dimensions available on request with minimum order quantities.







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