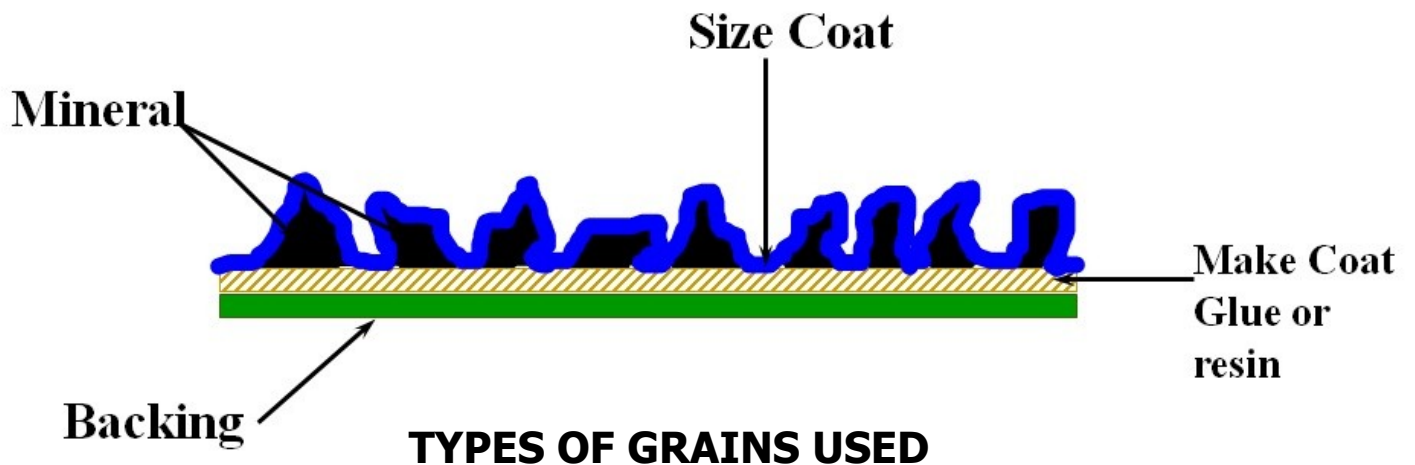


S + g abrasives Ltd

THE CUTTING EDGE OF INDUSTRY

Proudly New Zealand Owned & Operated

Coated Abrasive Construction



Brown aluminium oxide is a tough and durable grain. Suitable for sanding mild steel, wood products and painted surfaces.



Silicon Carbide is a sharp and friable grain. Suitable for sanding glass, ceramics and non ferrous metals.



Zirconia is a sharp and durable grain that cuts more aggressively and lasts longer than aluminium oxide. Used for sanding stainless steel, aluminium and most metals.



Ceramic grain is a sharp grain that macro fractures. It continually creates and exposes sharp cutting edges, which provides cooler cutting and longer life. Used for stainless steel, titanium and nickel alloys.

Grains and Coatings

Amount of grains

The performance is greatly affected by the amount of abrasive grains used.

For example, less grains results in an open coating which is highly resistant to clogging, whereas more grains produce a closed coating with good stock removal and a smooth surface finish.



Closed coating



Semi-open coating



Open coating

Additional Treatments

Stearate coating

Some products receive a special stearate coating treatment which is designed to prolong lifespan. Usually the stearate is based on zinc or calcium and is like small flakes applied on top of the abrasive.

Advantages:

- * As the stearate coating is worn off during use it prevents clogging and gives the product a longer lifespan.
- * The stearate reduces the initial cut and therefore produces a more consistent surface over the lifetime of the product.

Backing material

Although the backing material carries the layers, it also transfers the power of the sanding machine through to the surface. This means that larger grains, which demand more power from the sanding machine, also need a stronger backing material. When denibbing and sanding profiles, it is important to have a flexible backing material. Flexibility enables the sanding material to follow edges and profiles.

A backing material made of cloth-woven thread is often stronger and more stable than a backing made of paper. Depending on the construction of the cloth, it can either be stiff or flexible. For paper backing the weight of the backing material is often lighter than cloth as it is used for sanding wood and painted surfaces.

Backing material specifications

<u>Backing material</u>	<u>Type</u>	<u>Weight</u>
Paper backings	A - paper	90 g/m ²
	B - paper	110 g/m ²
	C - paper	125 g/m ²
	D - paper	150 - 180 g/m ²
	E - paper	220 - 250 g/m ²
	F - paper	270 g/m ²
Cloth / Polyester backings	J - cloth	Soft Flexible
	X - cloth	Strong and Less Flexible
	Y - Polyester	Heavy Duty

Belt sanding speed guide

<u>Material</u>	<u>Speed range in meters per second</u>
Hard wood	15 - 24
MDF	15 - 21
Soft, resinous wood	12 - 18
Lacquer	3 - 15
Veneer	18 - 27
Stainless Steel	20 - 35
Titanium, Hard Metals	10 - 15
Nickel & Chrome	12 - 18
Mild Steel	20 - 35
Cast Iron & Non Ferrous	25 - 45
Aluminium	25 - 40
Carbon Steel	30 - 40
Plastics	10 - 20

Grain Sizes

<u>Grain Size</u>	<u>Inches</u>	<u>Microns</u>
	.0655	1660
20	.0528	1340
24	.0408	1035
30	.0365	930
36	.0280	710
46	.0200	508
60	.0160	406
80	.0105	266
100	.0068	173
120	.0056	142
150	.0048	122
180	.0034	86
240	.00248	63
320	.00128	32

CUSTOM MADE BELTS AND DISCS

EKAMANT

SWEDISH QUALITY

S + g abrasives

QUALITY SOURCED MATERIAL

BELTS - Can be made from 10mm Wide To 405mm Wide

DISCS - Can be made from 150mm Diameter To 405mm Diameter

RAW MATERIAL

Ekamant EKA1000F Open Coat F Weight Paper Anti Static
Suitable for sanding hard to soft wood.



Ekamant ARKFEO Extra Open Coat F Weight Paper Anti Static
Suitable for sanding soft or resinous wood.

Mirka Jepuflex Plus Closed Coat F Weight Paper Anti Static
Suitable for sanding hard wood.



Ekamant RKJFO Open Coat J Weight Cloth
Flexible Cloth backing suitable for sanding wood and soft metals,
Idea for bobbin sanders.

S + G GXK56 Closed Coat X Weight Cloth
Suitable for sanding metal and wood.



S + G R203 Zirconia Closed Coat Y Weight Polyester
Suitable most metals and ideal for stainless steel,

S + G Ceramic Closed Coat Z Weight Polyester Suitable for
Stainless Steel, Titanium and other hard to grind materials.



S + G Trizact X Weight Cloth With Engineered Abrasive Suitable
for Finishing of Stainless Steel, Titanium and Nickel Alloys.

EKA 1000 F

ANTISTATIC PAPER BACKING RANGE



EKA 1000 F is a general purpose product suitable for a wide range of applications and materials.

The efficient and durable aluminium oxide grit together with the robust paper backing enables high material removal rate and fine surface finish.

The antistatic paper backing together with an open coating, reduce clogging to a minimum, improving the life time of the product and contributes to a minimized dust load on the sanding surface.

TECHNICAL SPECIFICATION

Backing:	F-weight paper
Bonding:	Resin over resin
Treatment:	Antistatic paper backing
Grit:	Aluminium Oxide
Coating:	Open
Grit range:	P 40—P 240 (A-Range*) P 280—P 320 (B-Range*)
Width:	1370 mm

APPLICATIONS

Universal product for a lot of different sanding applications.

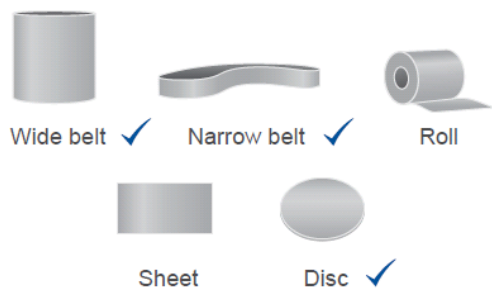
Wood: Soft Wood and Hard Wood

Board: MDF and HDF

Lacquer:

Specials: Leather, Textile, Stainless Steel

RECOMMENDED FORMS



EKAMANT
SWEDISH QUALITY COATED ABRASIVES

Ekamant AB, Järnvägsgatan 44, SE-285 23 Markaryd, Sweden / www.ekamant.com

ARKFEO

ANTISTATEX® RANGE



ARKFEO has extra open grit distribution which reduces clogging of the belt when sanding soft and resinous wood. The excellent cutting action of the aluminium oxide grit enables minimal fibre rising and more even surface.

The Antistatex® treatment provides a fully antistatic effect which further improves the lifetime of the product.

TECHNICAL SPECIFICATION

Backing:	F-weight paper
Bonding:	Resin over resin
Treatment:	Fully Antistatic
Grit:	Aluminium Oxide
Coating:	Extra-Open
Grit range:	P 40—P 100 (A-Range*) P 120—P 180 (B-Range*)
Width:	1370 mm standard, 1420 mm per request

APPLICATIONS

Calibrating and intermediate sanding of solid wood and veneer.

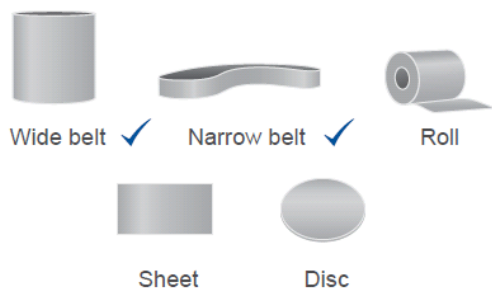
Wood: Soft Wood and Medium hard Wood

Board: Particle board

Lacquer:

Specials: Rubber

RECOMMENDED FORMS

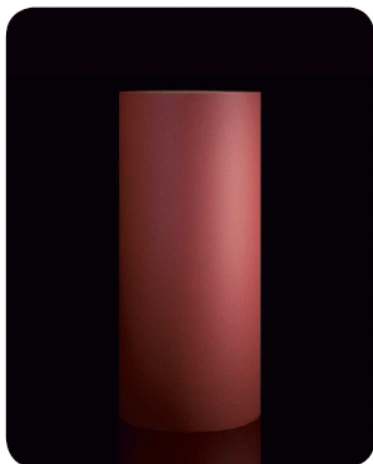


EKAMANT
SWEDISH QUALITY COATED ABRASIVES

Ekamant AB, Järnväggsgatan 44, SE-285 23 Markaryd, Sweden / www.ekamant.com

RKJFO

CLOTH RANGE



RKJFO is an Abrasive product with a backing of extra flexible J- cloth of cotton.

The product is highly adaptable to contours, curves, profiles and especially suitable for profile and hand sanding of all materials.

TECHNICAL SPECIFICATION

Backing: Extra flexible J – cloth of cotton

Bonding: Resin over resin

Treatment:

Grit: Aluminium Oxide

Coating: Open

Grit range: P 60—P 320, P 400 (A-Range*)
P 360, P 500—P 600 (B-Range*)

Width: 1370 mm

APPLICATIONS

J- cloth product for narrow belts and rolls.

Wood: Soft Wood and Hard Wood

Board: MDF and Particle board

Lacquer:

Specials: Composite and Metal

RECOMMENDED FORMS



Wide belt



Narrow belt ✓



Roll ✓



Sheet ✓



Disc



EKAMANT
SWEDISH QUALITY COATED ABRASIVES

Ekamant AB, Järnväggsgatan 44, SE-285 23 Markaryd, Sweden / www.ekamant.com

THE SECRET BEHIND ABRANET®



With Abranet, Mirka has succeeded with something where many others have previously failed – to develop a completely even sanding net. A sanding net with thousands of holes provides a phenomenal dust extraction. The maximum distance from each sanding particle to the closest dust extraction hole is 0.5 mm! Abranet's clever construction provides many advantages. Because the dust is being continuously sucked away, sanding is virtually dust free. Tests have shown that the dust release from Abranet is only minuscule when compared to the dust released from traditional abrasives with dust extraction. When the abrasive and the sanding surface are constantly kept dust free, the lifespan of the abrasive is extended. Since the abrasive maintains its aggressive properties over the entire

surface, sanding becomes more even and efficient. The sanding result will also be better. Since it is always possible to see what is being sanded, there will be a completely different control over the work, meaning that over-sanding, for example, can be avoided.

Additionally, Abranet will solve many old dull problems, such as the formation of so-called "dust pills" and clogging. Since dust can no longer collect in lumps on the sanding discs to the same extent, there is no longer a danger that sanded dust will build up and create grooves on the sanding surface, or fill up the disc and so reduce its sanding capacity.

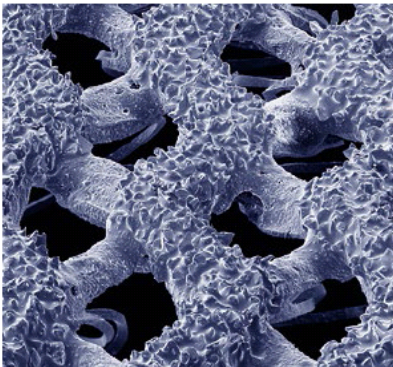
No wonder everyone chooses Abranet!

Try ABRANET® and you will not regret it!



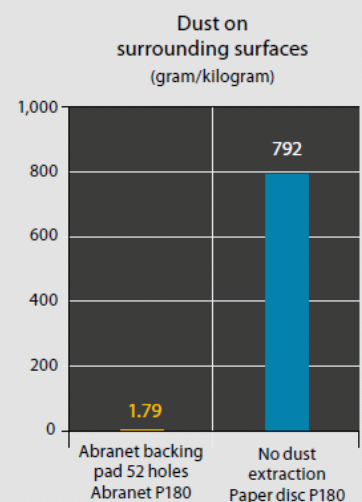
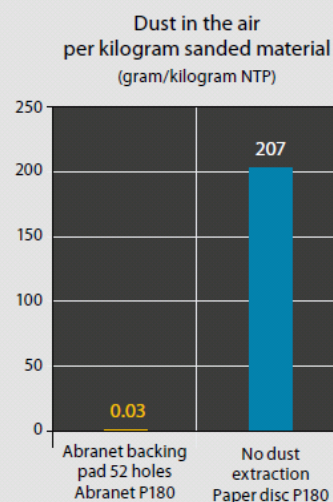
NEW FEELING

Abranet gives a whole new feeling to sanding, since it makes the work easy and efficient. Those who've once used Abranet don't want to change back!



HOW MUCH LONGER?

Abranet's lifespan depends on the type of material being sanded. Generally, it seems as though the disc would last twice as long as traditional abrasives. However, in certain cases where a normal disc would become clogged easily, when sanding soft surfaces for example, Abranet can last up to 10 times longer. When hand sanding with a sheet, Abranet is by far superior compared to competing products.



TEST WINNER

Laboratory tests show that Abranet has solved the dust problem. The amount of dust in the air when machine sanding with Abranet is 6,900 times less than when sanding using traditional abrasives without dust extraction.

When Abranet was compared to a traditional 6-hole sanding disc with dust extraction system, Abranet also proved itself to be completely superior. The dust concentration from Abranet was max. 0.15 mg/m³, while the corresponding figure for the traditional sanding disc was 1.6 mg/m³.

We advise users to follow the FEPA and UAMA recommendations regarding the protection equipment suitable for the method as well as the material being sanded. These recommendations should always be made after conducting a risk assessment at the place of work.

Tests also show that besides the air being much cleaner when sanding with Abranet, the surrounding surfaces, for example, are also much cleaner. This means considerable savings in cleaning costs.