



## OVERVIEW TABLE

### ABRASIVE MATERIALS AND APPLICATIONS

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## > USE OF THE TABLE

In this chapter we have listed all possible basic abrasive materials. The overview provides the grit type, the backing, the top coating if present, whether the material is waterproof, the grit size range, etc., for each type. At the end of the table, is mentioned for which application the material is suited and in which forms the material is available. Based on the properties discussed, you can then select the material that is best suited for your specific application.

If you know the final form (disc, roll, belt or sheet) you can also consult the relevant chapter.

Are you having difficulty getting a clear picture? Please do not hesitate to contact one of our experts. They will be more than happy to help you choose the best abrasive material for your specific application.

	Type	Backing	Weight	Type of grit	Top Coating	Waterproof	Maximum width	Properties	
<b>PAPER</b>	<b>SA331</b>	Film	-	A/O	●	●	1650	Open coated aluminium oxide grit with an active abrasive ingredient on a film backing. Extremely tear-resistant. Does not clog up, long life span, extremely large grit size range. Can be used for many purposes, especially with more intensive grinding operations. Ideal for finishing of soft wood types and car repair, paints, lacquers and varnishes. Used both wet and dry.	
	<b>CA330</b>	Paper	C	A/O	●	-	1650	Open coated aluminium oxide with grinding aid on flexible "C" paper. Very pliable and flexible, cannot saturate, adapts easily to the workpiece and guarantees a beautiful, even finish. Ideal for grinding primary coats, primers, sealers, lacquers, paint, varnish, filler and wood.	
	<b>KP915C</b>	Paper	C	A/O	-	●	ONLY IN SHEET FORM	High-quality and very flexible, waterproof sandpaper with aluminium oxide grit. The base consists of a flexible, easily pliable paper latex base with "C" weight. For use in the auto industry and, primarily with wet intermediate grinding of paints, lacquers and varnishes.	
	<b>KP905E</b>	Paper	E	A/O	-	-	1450	Antistatic, aluminium oxide on a strong "E" backing. Specially developed with a heavier, less tear-resistant backing for heavier, manual work and for applications on light manual grinding machines.	
	<b>KP949FO</b>	Paper	F	A/O	-	-	1420	Antistatic, semi-open coated aluminium oxide on a very strong "F" paper base. The antistatic property ensures the easy removal of dust. The KP949FO is a product that can be used for various purposes. Perfect grade for both dry and hard woods as well as for those of a softer quality with a higher level of resin.	

## > GRIT DESIGNATION

For most of the materials mentioned in the table, the range of grit size is given in the FEPA-indication (P). Only a different grit is used with Micro-Mesh and Trizact™, preceded by a letter code (see conversion table p. 55). For the tex and reinforced tex materials, no FEPA-grit indication is used. A letter indicator is used for the grit size of tex and reinforced tex.

Grit range (P)	APPLICATIONS										FORMS						
	Metal	Stainless steel	High-quality alloys	Non-ferrous	Aluminium	Hard wood	Soft wood	Glass/Stone	Plastics/Rubber	Car repair	Lacquers/Varnishes	Leather	Rolls	Belts	Discs	Sheets	Grip
Grip: 40-60-80-100-120-150-180-220-320-400-600-800-1000-1200-1500-2000 Without grip: 80-120-320-400	○	○	○	○	○	●			●	●			●		●	●	●
Grip: 40-60-80-100-120-150-180-220-240-320-400-500-600 Without grip: 60-80-100-120-150-180-220-320-400-500-600	○		○	○	○	●			●	●			●		●	●	●
Grip: 600-800-1000-1200 Without grip: 60-80-100-120-150-180-220-240-280-320-360-400-500-600-800-1000-1200			○	○	○				●	●					●	●	
40-60-80-100-120-150-180-220	○		○	○	●	●			○	○			●			●	
Grip: 40-60-80-100-120-150-180-220-240-320-400 Zonder grip: 40-50-60-80-100-120-150-180-220-240-280-320-400	○	○	○	○	●	●			○	○	○		●	●	●	●	●

● = recommended application   ○ = possible application



	Type	Backing	Weight	Type of grit	Top Coating	Waterproof	Maximum width	Properties
<b>PAPER</b>	<b>KP950F</b>	Paper	F	ZIRC.	–	–	1650	Zirconium oxide grain on an "F" paper base. This product is ideally suited for grinding very hard and dry woods because of the extremely abrasive-resistant zirconium oxide grit. The KP950F is also highly efficient when using stainless steel.
	<b>SP717C</b>	Paper	C	S/C	–	◆	ONLY IN SHEET FORM	High-quality and very flexible waterproof sandpaper with a silicon carbide grit type. The base consists of a flexible, easily pliable latex backing with "C" weight. Primarily for applications in the auto industry and auto repair shops.
	<b>SP705EO</b>	Paper	E	S/C	●	–	1450	Antistatic silicon carbide grit on a "E" paper with the addition of zinc stearate. This paper is ideally suited for finishing. The addition of stearate ensures that the grinding process is cool and that the grit does not become saturated. Ideal for the intermediate grinding of primers, sealers, paints, varnishes, polyester and polyurethane lacquers, etc.
	<b>SP706F</b>	Paper	F	S/C	–	–	1250	Antistatic silicon carbide grit on a very strong "F" base. Ideally suited for use in sanding wooden floors and parquet.
	<b>LKE22</b>	Combination	–	S/C	–	–	1250	Combination abrasive material. A heavy F paper reinforced with a light fabric and provided with a very open silicon carbide grit structure. Primarily for use in sanding old and dirty wooden floors and parquet. Also suitable for removing old paint, glue and varnish layers or carpet remains.
<b>CLOTH</b>	<b>TF41</b>	Cotton	F	A/O	–	–	1420	Very flexible abrasive cloth, for manual use in metal working. Also a perfect partner for grinding hard wood types.
	<b>TF50</b>	Cotton	F	A/O	–	–	1420	High quality, very flexible grinding cloth, for general manual use in the metallurgical industry.
	<b>BTX22</b>	Cotton	X	A/O	–	–	1550	Aluminium oxide on an "X" cloth base. The quality is good for universal applications, with a very good price-performance ratio.
	<b>TX52</b>	Cotton	X	A/O	–	–	1420	A heavy "X" type of cloth abrasive with high-quality aluminium oxide. Ideal for use on all types of steel and cast iron. Also suitable for grinding hard and dry woods at medium to high pressure.

Grit range (P)	APPLICATIONS											FORMS				
	Metal	Stainless steel	High-quality alloys	Non-ferrous	Aluminium	Hard wood	Soft wood	Glass/Stone	Plastics / Rubber	Car repair	Lacquers / Varnishes	Leather	Rolls	Belts	Discs	Sheets
40-60-80-100-120-150-180-220	○	●	○	○	●	○	○	○	○	○	○	●	●	●	●	●
60-80-100-120-150-180-220-240-280-320-360-400-500-600-800-1000-1200-1500-2000-2500	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●
220-240-280-320-400-500-600-800			○	○	○	○	○	●	○	●	○	●	●	●	●	●
Grip: 24-36-40-60-80-100-120-220-320-400-500-600 Zonder grip: 24-36-40-50-60-80-100-120-150-180-220-240-280-320-400-500-600			○	●	●	●	●	●	●	●	●	●	●	●	●	●
16-20				●	●	○	○	○	●	●	●	●	●	●	●	●
36-40-50-60-80-100-120-150-180-220-240-280-320	●	●	●	●	●	●	○	○	○	○	●	●	●	●	●	●
40-60-80-100-120-150-180-220-240-280-320-400-500-800	●	●	●	●	●	●	○	○	○	○	●	●	●	●	●	●
16-24-36-40-50-60-80-100-120-150-180-240	○	○	○	○	●	●	●	○	○	○	○	○	●	●	●	●
16-24-36-40-50-60-80-100-120-150-180-220	●	○	○	○	○	●	○	○	○	○	●	●	●	●	●	●

● = recommended application    ○ = possible application



	Type	Backing	Weight	Type of grit	Top Coating	Waterproof	Maximum width	Properties	
CLOTH	<b>TJ7</b>	Polyester-cotton	J	A/O	–	–	1420	Aluminium oxide on a flexible J-flex polyester cotton backing. Suitable for general use, for work on either metal or wood, where flexibility is important.	
	<b>JF4T</b>	Polyester-cotton	J/F	A/O	●	–	1420	High-quality aluminium oxide on a very flexible base with grinding aids. A technically innovative product with exceptional properties. Cool grinding process without discolouration. Ideally suited for high-quality finishing of medical implants, surgical instruments, knives, turbine blades, etc. Ideal quality for creating a consistent and equal finish on stainless steel. Its flexible base allows the JF4T to adapt easily to the shape of the workpiece.	
	<b>HA66</b>	Polyester	H	A/O	–	●	1420	High-quality aluminium oxide on "H" polyester backing. Can be applied to either a dry or wet surface. Mainly for use on all types of iron and steel. Suitable for heavier applications due to the tear-resistant polyester backing.	
	<b>KK718</b>	Polyester	Y	A/O Compact	–	●	1090	Aluminium oxide on heavy water-resistant polyester backing. This compact grit distinguishes itself by a constant, even and reproducible finish. The unique grit structure guarantees a significantly longer lifespan, resulting in fewer belt replacements. The KK718 can be used for both dry and wet applications.	
	<b>TZ59</b>	Cotton	X	ZIRC.	–	–	1420	High-quality aluminium/zirconium oxide on a highly resistant "X" backing. Ideal for professional applications on stainless steel, aluminium, metal, non-ferrous metals and hard wood.	
	<b>HZ72</b>	Polyester	Y	ZIRC.	–	●	1420	High-quality aluminium/zirconium oxide on a highly resistant "Y" polyester backing. Ideal for demanding applications on stainless steel, aluminum, metal and non-ferrous metal. High cut rate. Can be used both wet and dry.	
	<b>HZ8T</b>	Polyester	Y/H	ZIRC.	●	●	1420	100% zirconium oxide grit on a heavy "Y" polyester backing with grinding aids. The pure zirconium oxide ensures an extremely fast grinding process, whilst the active abrasive ingredient guarantees a very cool grinding process. This top product is ideal for heavy and fast grinding of primarily stainless steel and very hard types of steel.	

Grit range (P)	APPLICATIONS												FORMS				
	Metal	Stainless steel	High-quality alloys	Non-ferrous	Aluminium	Hard wood	Soft wood	Glass/Stone	Plastics / Rubber	Car repair	Lacquers / Varnishes	Leather	Rolls	Belts	Discs	Sheets	Grip
60-80-100-120-150-180-220-240-320-400	●	○	○	○	○	●	○				○		●				
J (60-80-100-120); F (150-180-220-320-400)	●	●	●	●	●								●				
80-100-120-150-180-220-240-320-400-500	●	○	○	○	○	○	○				○		●				
80-120-240-320-400-600	●	○	○										●				
36-40-50-60-80-100-120	●	●		●	●	●	○						●	●			●
24-36-40-50-60-80-120	●	●	○	●	●	○	○						●	●			●
36-40-50-60-80	●	●	●	○	○								●				

● = recommended application   ○ = possible application

	Type	Backing	Weight	Type of grit	Top Coating	Waterproof	Maximum width	Properties
<b>CLOTH</b>	<b>FX87</b>	Polyester	Y	CER.	●	💧	1480	High-quality ceramic abrasive grit with an active abrasive ingredient on a highly tear-resistant polyester backing. The most up-to-date self-sharpening ceramic grit makes the FX87 a real top product. FX87 is characterised by high machining capacity, even on high alloy steel. The FX87 performs best under average or high working pressure and with a moderate to hard abrasive contact.
	<b>WC44</b>	Cotton	X/W	S/C	—	💧	1420	Silicon carbide on a waterproof "X" cotton backing. Suited for working glass and stone, both dry and wet. Can also be used to work non-ferrous metals, plastics, polyesters and rubber.
	<b>CJ83</b>	Polyester-cotton	J	S/C	—	—	1420	Silicon carbide on a flexible polyester cotton base. Ideal for working on aluminium, high quality alloys, polyesters and plastics.
	<b>CJ91</b>	Polyester cotton	J	S/C	—	—	1420	Silicon carbide on a flexible polyester cotton base. Ideal for working on non-ferrous metals, aluminium, high-quality alloys, porcelain, polyesters and plastics.
	<b>HC25</b>	Polyester	H	S/C	—	💧	1420	Silicon carbide on a waterproof "H" polyester backing. Suited for working glass and stone, both dry and wet. Can also be used to work non-ferrous metals, aluminium, plastics, polyesters and rubber.
	<b>QNSH</b>	Mesh	—	S/C	—	💧	910	Open polyester web structure to which grit is anchored on both sides.
	<b>237AA</b>	Cotton	X	A/O Trizact™	—	—	660	This is a product of the Trizact™ family (3M). Trizact™ is an innovative grinding material produced with perfectly calibrated aluminium oxide grit in a pyramid shape. This three-dimensional grit of identical height ensure quick stock removal and an even and replicable finish without deep scratching or risk of burrs. This product has been especially developed for material that is difficult to work, such as stainless steel and exotic alloys, as used in aviation and space travel and in the medical sector. In addition, it has been used successfully in the finishing of copper, bronze, aluminium, composite materials and synthetic materials. The 237AA is not suited for use on titanium.
	<b>337DC</b>	Cotton	X	A/O Trizact™	—	—	660	The properties of the quality of the 337DC Trizact™ are similar to those of the 237AA, but the 337DC has a higher stock removal capacity.

Trizact™ is a registered trademark of the 3M Company.

Grit range (P)	APPLICATIONS													FORMS			
	Metal	Stainless steel	High-quality alloys	Non-ferrous	Aluminium	Hard wood	Soft wood	Glass/Stone	Plastics / Rubber	Car repair	Lacquers / Varnishes	Leather	Rolls	Belts	Discs	Sheets	Grip
36-40-50-60-80-100-120	●	●	●	○	○								●	●	●		●
280-320-400	○	○	○	●	○					●	●			●			
80-100-120-150-180		○	●	○	●					○	●			●			
240-320	○	○	●	●	●				○	●				●			
24-36-40-60-80-100-120-150-180-220	○	○	○	●	●				●	●				●			
40-60-80-100-120-150-180-220-320-400-600						○	●		○	●			●	●	●		
A160 (P120)-A100 (P220)-A80 (P240)-A65 (P280)-A45 (P400)-A30 (P600)-A16 (P1400)-A6 (P2000)	○	●	●	●	●								●	●	●		●
A300 (P80)-A160 (P120)-A100 (P220)-A65 (P280)-A45 (P400)	○	●	●	●	●								●	●	●		●

● = recommended application    ○ = possible application



	Type	Backing	Weight	Type of grit	Top Coating	Waterproof	Maximum width	Properties
<b>CLOTH</b>	<b>2971</b>	Cotton	J	A/O Siasphere	●	💧	1070	The Siasphere is an innovative abrasive material with perfectly calibrated aluminium oxide grains in a spherical shape. This three-dimensional grit of exactly the same height ensures faster machining and a uniform and replicable finish without deep scratching or risk of burrs. This product is specially designed for materials which are difficult to machine such as stainless steel and exotic alloys in aeronautic and aerospace industry and in the medical sector. But in addition we also have successful applications in the finishing of copper, bronze, aluminium, composite materials and plastics. The 2971 is not suitable for the machining of titanium. The Siasphere has been specially developed for the use in belts and is the most efficient in this form.
	<b>2970</b>	Cotton	JJ	A/O Siasphere	●	💧	1070	The Siasphere is an innovative abrasive material with perfectly calibrated aluminium oxide grains in a spherical shape. This three-dimensional grit of exactly the same height ensures faster machining and a uniform and replicable finish without deep scratching or risk of burrs. This product is specially designed for materials which are difficult to machine such as stainless steel and exotic alloys in aeronautic and aerospace industry and in the medical sector. But in addition we also have successful applications in the finishing of copper, bronze, aluminium, composite materials and plastics. The 2970 is not suitable for the machining of titanium. The Siasphere has been specially developed for the use in belts and is the most efficient in this form.
	<b>MFR</b>	Cotton	F	Calibrated A/O	—	💧*	500	Micro-Mesh is a concept whereby extremely precisely calibrated grit crystals are bonded with a flexible glue on a supple cotton base. Due to the elastic positioning, this grit always comes in contact with the workpiece at a positive angle. This ensures a constant and even scratch depth. This ingeniously thought out design guarantees an extremely even, constant and precise finishing pattern.
	<b>MFX</b>	Cotton	J	Calibrated A/O	—	💧*	500	Micro-Mesh is a concept whereby extremely precisely calibrated grit crystals are bonded with a flexible glue on a supple cotton base. Due to the elastic positioning, this grit always comes in contact with the workpiece at a positive angle. This ensures a constant and even scratch depth. This ingeniously thought out design guarantees an extremely even, constant and precise finishing pattern.
	<b>W445</b>	Polyester	Y	CORK	—	💧	1320	Cork on a polyester backing. Specially designed for working glass borders. After water is added, a better finish is achieved and the life span of the belt is extended.

Grit range (P)	APPLICATIONS												FORMS				
	Metal	Stainless steel	High-quality alloys	Non-ferrous	Aluminium	Hard wood	Soft wood	Glass/Stone	Plastics / Rubber	Car repair	Lacquers / Varnishes	Leather	Rolls	Belts	Discs	Sheets	Grip
240-320-400-600	○	●	●	●	●									●			
800	○	●	●	●	●									●			
MFR1500 (P600)-MFR1800 (P1200)-MFR2400 (P1500)-MFR3200 (P2500)-MFR3600 (P3000)-MFR4000 (P4000)-MFR6000 (P5000)-MFR8000 (P6000)-MFR12000 (P8000)		●	●	○	○	○		○	●	○			●		●	●	●
MFX180 (P600)-MFX240 (P1200)-MFX320 (P1500)-MFX400 (P3000)-MFX600 (P3500)-MFX800 (P4000)-MFX1200 (P6000)		●	●	○	○	○		○	●	○			●	●	●	●	●
-								●						●			

● = recommended application    ○ = possible application

	Type	Backing	Weight	Type of grit	Top Coating	Waterproof	Maximum width	Properties
<b>TEX</b>	<b>A/O</b>	Nylon web	–	A/O	–	💧	1500	The nylon fibres are combined into a three-dimensional web structure using thermo-setting synthetic resin, and are available in various grit types with an aluminium oxide grit. The result is an elastic abrasive material with an open structure that is easy to use and provides an even and constant finish. The tex material does not affect the geometrical shape of the work pieces. A/O creates a good long-lasting finish at high speeds.
	<b>S/C</b>	Nylon web	–	S/C	–	💧	1500	The nylon fibres are combined into a three-dimensional web structure using thermo-setting synthetic resin, and are available in various grit sizes with silicon carbide grit. The result is an elastic abrasive material with an open structure that is easy to use and provides an even and constant finish. The tex material does not affect the geometrical shape of the work pieces. In comparison with the A/O, S/C provides a finer, more even and matt texture. Primarily used to create a decorative finish.
	<b>CP</b>	Nylon web	–	A/O CP	–	💧	610	The nylon fibres are combined into a three-dimensional web structure using thermo-setting synthetic resin with an aluminium oxide grit type. The result is an elastic abrasive material with an open structure that is easy to use and provides an even and constant finish. The tex material does not affect the geometrical shape of the work pieces. CP has an increased grinding capacity at higher speeds. This material provides the brush structure with a slightly glossy effect.
	<b>GP</b>	Nylon web	–	A/S	–	💧	1500	The nylon fibres are combined into a three-dimensional web structure using thermo-setting synthetic resin with an alumino silicate grit type. The result is an elastic abrasive material with an open structure that is easy to use and provides an even and constant finish. The tex material does not affect the geometrical shape of the work pieces. GP is an economical product that is generally used for cleaning.
	<b>00</b>	Nylon web	–	Talc	–	💧	1500	With the TEX 00, the nylon fibres are combined into a three-dimensional web structure using thermo-setting synthetic resin infused with talc, the softest mineral known. This material does not scratch and is ideally suited for cleaning.
	<b>CSD</b>	Nylon web	–	S/C	–	💧	1000	CSD material is made from very hard, abrasion-resistant nylon fibres with a very open structure. The nylon fibres are permeated with synthetic resin and very sharp grit.

Grit range (P)	APPLICATIONS													FORMS			
	Metal	Stainless steel	High-quality alloys	Non-ferrous	Aluminium	Hard wood	Soft wood	Glass/Stone	Plastics/ Rubber	Car repair	Lacquers/ Varnishes	Leather	Rolls	Belts	Discs	Sheets	Grip
A-Coarse - A-Medium - A-Fine - A-Very Fine STRONG - A-Very Fine SOFT - A-Very Fine ULTRACUT - A-Very Fine PP	●	●	○	○	○	●	●	○	●	●	○	●	●	●	●	●	●
S-Medium - S-Fine - S-Very Fine - S-Ultra Fine 600 - S-Ultra Fine 1000 - S-Ultra Fine 1200	○	●	●	●	●	○	○	○	●	●	●	○	●	●	●	●	●
CP	●	●	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●
GP	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●	●
Talc	○	○	○	○	○	○	○	●	○	●	●	○	●	●	●	●	●
EXTRA COARSE	●	●	○	○	○				●	●	○		●				

● = recommended application    ○ = possible application

	Type	Backing	Weight	Type of grit	Top Coating	Waterproof	Maximum width	Properties
reinforced TEX	FE	Polyester + Nylon web	–	A/O	–	●	1250	This is an open nylon web structure, permeated with aluminium oxide grit and anchored by a synthetic resin on a woven polyester structure. This quality is better able to cope with aggressive applications and has a long life span. The finish of the FE quality is less uniform than that of the RC quality.
	RC		–	A/O	–	●	1250	This is an open nylon web structure, permeated with aluminium oxide grit and anchored by a synthetic resin on a woven polyester structure. This material has a high initial cutting force, works perfectly at low pressure and provides a very constant and even finish. The RC is less edge resistant. Ideal for applications requiring a decorative finish.
	T00		–	–	–	●	1650	This is an open nylon web structure, permeated with talc and anchored with a synthetic resin on a woven polyester structure. This quality has no abrasive properties and is specially designed to clean or polish using polishing pastes.

Grit range (P)	APPLICATIONS										FORMS						
	Metal	Stainless steel	High-quality alloys	Non-ferrous	Aluminium	Hard wood	Soft wood	Glass/Stone	Plastics / Rubber	Car repair	Lacquers / Varnishes	Leather	Rolls	Belts	Discs	Sheets	Grip
COARSE - MEDIUM - VERY FINE	○	●	○	●	●					●				●	●	●	●
COARSE - MEDIUM - VERY FINE	○	●	○	●	●								●	●	●	●	
No grit	○	●	○	●	●								●	●	●	●	