

ABRASIVE SOLUTIONS

WOODWORKING INDUSTRY



NORTON

SAINT-GOBAIN®

TM





OUR COMMITMENT TO PROVIDING YOU WITH INCREASINGLY EFFECTIVE SOLUTIONS TO YOUR NEEDS IS BASED ON THREE FUNDAMENTAL VALUES: EXPERIENCE, QUALITY AND INNOVATION.

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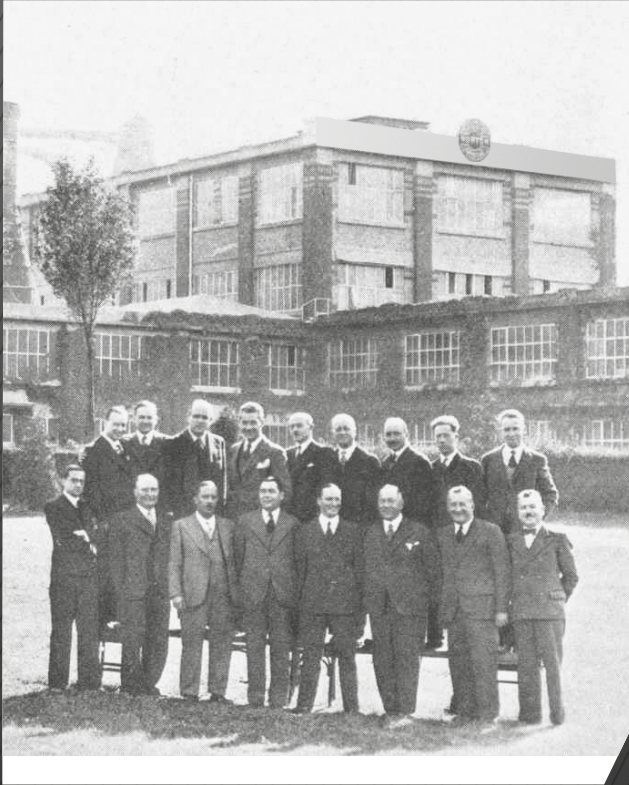
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A HISTORY OF EXCELLENCE



In the mid 19th Century, a group of ceramists and entrepreneurs in Worcester, Massachusetts, USA, set out with a goal: meet the growing need of the burgeoning U.S. manufacturing industry, which needed an ever increasing supply of grinding wheels to build and maintain machinery.

By 1876 Norton were manufacturing grinding wheels, and had acquired a patent for vitrified wheels. In 1885 the Norton Emery Wheel Co. was founded to manufacture the first grinding wheel that could be precision made and mass-produced.

Through the latter part of the 19th Century Norton expanded its abrasives range and reached customers throughout the U.S. and Canada. In 1909, Norton built its first European plant in Germany. This was followed by plants in France (1920), UK (1930), and Italy (1935). In the 1930's Norton strengthened its position by expanding into Coated Abrasives. In the same decade Norton developed Diamond and CBN based Super Abrasives.

By 1950 Norton had established itself as the leading world-wide abrasives brand. In 1956, Norton entered South America through an acquisition in Brazil, and followed this with plants in India (1968) and Japan (1972). This steady growth, based upon innovation, technology and responsiveness to customers, has continued and Norton now has a presence in 28 countries around the world.

In 1990, Norton was acquired by Saint-Gobain, a world leader in the manufacture of engineered materials. Saint-Gobain, founded in France in 1665, shares Norton's tradition of commitment to its business and customers, of understanding and responding to the needs of the marketplace and of technical innovation. Saint-Gobain's experience has been a strong addition to the Norton brand.

For over 125 years, Norton has provided innovative solutions for the challenges faced by industries. Our dedication to our business and customers ensures we will continue to be the world's number one abrasive manufacturer supplying a complete range of products that continually add value and efficiency to your operation.

FOR OVER 125 YEARS, NORTON HAS PROVIDED INNOVATIVE SOLUTIONS FOR THE CHALLENGES FACED BY INDUSTRIES. OUR DEDICATION TO OUR BUSINESS AND CUSTOMERS ENSURES WE WILL CONTINUE TO BE THE WORLD'S NUMBER ONE ABRASIVE MANUFACTURER SUPPLYING A COMPLETE RANGE OF PRODUCTS THAT CONTINUALLY ADD VALUE AND EFFICIENCY TO YOUR OPERATION.

LOCATIONS AROUND THE WORLD



PATENTS & TRADEMARKS

Norton shows its commitment to innovation by filing Patents and Trademarks for its most innovative product solutions.

ALTOS®
BDX™
BEARTEX®
BLAZE®
BLACK ICE™
BLUE FIRE®
DRY ICE™
LIQUID ICE™
MULTI-AIR®
NEON™
NORBIDE STIK®

NO-FIL®
NORAX®
NORCLEAN®
NORFLEX™
NORGRIP®
NORLINE™
NORZON®
OCTOPUS®
PLASTIFILM®
QUANTUM™
RAPIDSTRIP™

RED HEAT™
ROTOLO FOAM®
SG™
SPEEDLOK™
SPITFIRE™
STARLINE™
TOROS™
VITRIUM³®
VORTEX®
VULCAN®

A CORPORATE PERSPECTIVE

Norton, the world's leading abrasives brand, is the key ingredient in an effective portfolio of brands from Saint-Gobain Abrasives. The mission is to deliver a portfolio of highly recognised brands, each with unique value, fulfilling the complete spectrum of customer needs.

Saint-Gobain Abrasives takes time to understand and fulfil its evolving customer needs which is reflected in its worldwide market leader status. With a strong presence in every continent the Abrasives Division serves its customers through structured units in 28 countries and employs more than 11000 people providing a portfolio of products that offer complete solutions for every step of the abrasive process.

It is the only international manufacturer of abrasives that provides each of the 3 major types of abrasives; Bonded Abrasives (resinoid and vitrified), Coated Abrasives, and Diamond products.

This is supported by exceptional technology, complete and innovative product lines, an irrefutable reputation for quality and safety, and experienced, committed, passionate people.

Abrasives forms one key part of the Innovative Materials Division of Saint-Gobain, which is one of the 4 key areas of activity in which Saint-Gobain operate.

SAINT-GOBAIN AT A GLANCE

- €43.2 billion of sales
- Around 193 000 employees
- Presence in 64 countries
- 12 research centres and 101 development units
- European or world leader in all of its activities



SAINT-GOBAIN IS THE LEADER IN MANY MARKETS



INNOVATIVE MATERIALS

HIGH PERFORMANCE MATERIALS

- No 1 worldwide

FLAT GLASS

- No 1 in Europe
- No 2 worldwide.

CONSTRUCTION PRODUCTS

PIPELINES

- No 1 worldwide in ductile cast iron pipe

GYPSUM

- No 1 worldwide in plasterboard and plaster

INSULATION

- No 1 worldwide in insulation

MORTARS

- No 1 in Europe for wall facings
- No 1 worldwide for tile adhesives

EXTERIOR PRODUCTS

- No 1 in the USA in sidings

BUILDING DISTRIBUTION

- No 1 worldwide in tile distribution
- No 1 in Europe Building materials distribution network
- No 1 in Europe in plumbing, heating and sanitary ware products

PACKAGING

- No 1 in Europe for bottles & jars for the food industry
- No 2 worldwide

HIGH-PERFORMANCE MATERIALS

High-Performance Materials deploys an innovative technology portfolio comprising three main types of materials: mineral ceramics, performance polymers and glass fabrics.

OPERATIONS: 41 COUNTRIES

FLAT GLASS

The Flat Glass business manufactures, processes and sells glass products for three main markets: building, transportation and solar energy.

SAINT-GOBAIN SEKURIT GLAZES 50% OF ALL EUROPEAN CARS

PACKAGING VERRALLIA

The Packaging Sector makes glass containers for the food industry.

MAKES MORE THAN 25 BILLION BOTTLES AND JARS A YEAR. OPERATIONS: 13 COUNTRIES

CONSTRUCTION PRODUCTS

Saint-Gobain Construction Products markets interior and exterior solutions for all types of building. It offers solutions for all types of projects, from acoustic and thermal insulation and facade coatings to roofing, interior and exterior design products and piping.

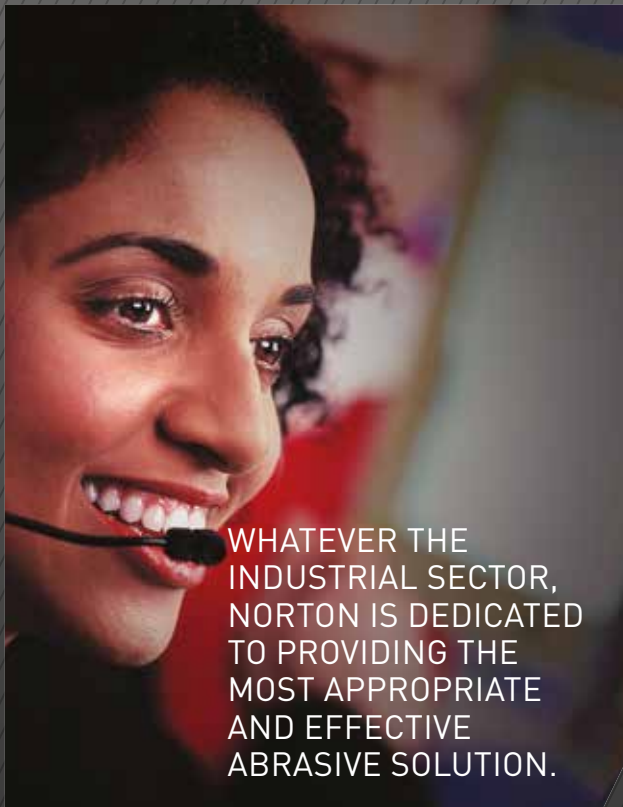
OPERATION: 55 COUNTRIES

BUILDING DISTRIBUTION

The Building Distribution Sector serves the new building, renovation and sustainable building markets.

OPERATIONS: 26 COUNTRIES

DELIVERING MADE-TO-ORDER SOLUTIONS



WHATEVER THE INDUSTRIAL SECTOR, NORTON IS DEDICATED TO PROVIDING THE MOST APPROPRIATE AND EFFECTIVE ABRASIVE SOLUTION.

NORTON IS A UNIQUE SOLUTION PROVIDER

Whatever the industrial sector, Norton is dedicated to providing the most appropriate and effective abrasive solution for any application including cutting, grinding and polishing.

In addition to the thousands of stock products available in Coated, Bonded, Thin Wheels, Diamond Blades and Super Abrasives, Norton offers a large number of made-to-order products designed to meet any technical requirement.

Made-to-order solutions represent a significant amount of the complete Norton product offering.

When complex application environments have to be analysed, when cutting-edge technology is necessary to optimise product performances, our leading brand offers the premium solution.

Many Norton customers benefit from our technical support – facilitating the choice of abrasive and combining insight from both sides to run appropriate tests and improve processes.

Sharing views and experiences, Norton represents your preferred partner to increase productivity and reduce overall cost.

WHY SELECT NORTON

- Our Centres of Excellence enable product testing under real conditions
- We have highly skilled, knowledgeable and experienced personnel devoted to delivering high performance solutions to fulfil customer needs
- We allocate time and resource to product testing/ customer case studies
- We have acquired invaluable experience over our long history
- We establish client partnerships to ensure we are aware of the most up-to-date technology with regard to processes, machines and coolants.

To learn more about Norton made-to-order capabilities, highly effective engineered solutions, cutting edge technologies that can help you optimise performance and reduce costs, please contact your local Customer Service Department.

HELP CUSTOMERS SELECT THE RIGHT ABRASIVE FROM OUR HUGE PRODUCT OFFERING AND DELIVER HIGHLY ENGINEERED SOLUTIONS THAT NOT ONLY MEET BUT EXCEED VERY SPECIFIC AND TECHNICAL REQUIREMENTS, IN ALL MARKET SEGMENTS.

HEALTH, SAFETY & ENVIRONMENT



ACTIVITIES

Our responsibility to customers, particularly in the area of safety and comfort, is taken very seriously. Products are designed and produced to the most stringent quality standards to guarantee optimum personal safety and user comfort. Saint-Gobain Abrasives is an active member of both FEPA and oSa.

Norton products comply with all expectations of European health, safety and environmental standards.

FEPA, the Federation of European Producers of Abrasives, is dedicated to the promotion of safety in the use of abrasives and is actively involved in the preparation and implementation of the European (EN) and International Standards (ISO) for Abrasives and Grinding machines.

oSa, the Organisation for Safety of Abrasives pursues in close collaboration with FEPA the objectives of supporting both the currently attained safety standards for abrasive products and their further developments.

FEPA, THE FEDERATION OF EUROPEAN PRODUCERS OF ABRASIVES, IS DEDICATED TO THE PROMOTION OF SAFETY IN THE USE OF ABRASIVES AND IS ACTIVELY INVOLVED IN THE PREPARATION AND IMPLEMENTATION OF THE EUROPEAN (EN) AND INTERNATIONAL STANDARDS (ISO) FOR ABRASIVES AND GRINDING MACHINES.

The internal testing and certification is based on the following standards:

- Safety requirements for Bonded Abrasive products (EN12413: 1999)
- Safety requirements for Super Abrasive products (EN13236: 2001)
- Safety requirements for Coated Abrasives (EN13743: 2002)
- Safety requirements for Diamond Blades (EN13236: 2001).

Thus the oSa symbol on the abrasive signifies enhanced application safety for the user, a reduced liability risk and excellent brand image for manufacturers, traders and those in marketing.

ISO 9001, certifies Quality Management system is in accordance with requirements of quality standards.

ISO 14001, certifies Environmental Management system is in accordance with requirements of environmental standards.

OHSAS 18001, health and safety at work certification.

WOODWORKING INDUSTRY



Based on our experience as well as that of all players involved in the woodworking industry – manufacturers of furniture, chairs, floor sanding, cabinet makers and joiners – we have designed this new catalogue with the main aim of helping you find the abrasive product best suited to your application.

YOUR ABRASIVES PARTNER

Products are classified by domain of application – calibration, sanding, filler and varnish sanding, woodworking tool sharpening. For each application there is a complete range of products available from stock, specifically developed to ensure the best results for all your specific woodworking applications.

Strict compliance with ISO 9000 specifications is your guarantee of the quality that has forged the reputation of Norton's high-tech abrasive products.

These products comply with the latest recommendations of OSA (Organisation for the Safety of Abrasives) and FEPA (Federation of European Producers of Abrasives).

As a result of considerable Research and Development, put into practice by highly skilled teams, SAINT-GOBAIN ABRASIVES is constantly at the forefront of innovation.



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PRODUCT DESCRIPTION

COATED ABRASIVES

PRODUCT CODE		BACKING	ABRASIVE	PRODUCT COLOUR	CHARACTERISTICS	DISTRIBUTION	APPLICATIONS
Light Papers	A275	B	AO	Salmon	No-Fil®	Openkote	Varnish sanding - manual and portable machines
	A213	B	AO	Beige		Openkote	
Heavy Papers	H835	E	Norzon®	Blue		Openkote	Sizing and sanding hard woods
	H822	F	Norzon®	Blue		Semi-Openkote	Sanding hard woods
	H231	F+	AO	Red / Brown	Antistatic	Openkote / Closekote	Sizing and sanding
	H259	F	AO	Red / Brown	Antistatic	Openkote	Sanding
	G131	E	AO	Yellow		Closekote	Manual sanding or with vibrating machines
	H425	E	SiC	Black		Closekote	Sanding soft and resinous woods
	A277	E	AO	Salmon	No-Fil®	Openkote	Polyurethane varnish finishing on belt sanding machines
Flexible Cloths	R309	J-Cotton	AO	Red / Brown	Superflexible	Openkote	Sanding complex contours
	R287	J-Cotton	AO	Red / Brown	Flexible	Closekote	Sanding simple contours
Rigid Cloths	R817	Y Poly	Norzon®	Blue		Very Openkote	Very severe sanding conditions
	RX84	Y Poly	SG-X®	Green		Closekote	Very severe sanding conditions
	R293	X/Y Poly	AO	Red / Brown		Closekote	Severe sanding conditions
	R427	X-Cotton	SiC	Black		Closekote	Sanding soft and resinous woods
	R230	X-Cotton	AO	Red / Brown		Openkote	Normal sanding conditions
Combination	S413	Comb.	SiC	Red / Brown		Very Openkote	Floor sanding
	S422	Comb.	SiC	Black		Closekote	Floor sanding

AO: Aluminium oxide SiC: Silicon carbide

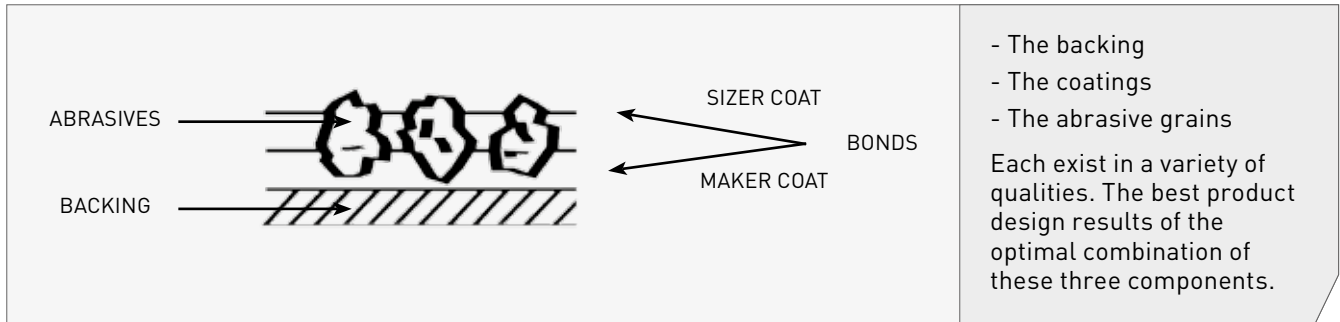
AVAILABLE GRIT SIZE																					PRODUCT CODE					
1500	1200	1000	800	600	500	400	360	320	280	240	220	180	150	120	100	80	60	50	40	36	30	24	16			
•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•									A275	Light Papers
						•		•		•	•	•	•	•	•	•	•		•					A213		
																•	•		•						H835	Heavy Papers
											•	•	•	•	•	•	•								H822	
						•		•	•	•	•	•	•	•	•	•	•	•	•	•					H231	
												•	•	•	•	•	•								H259	
												•	•	•	•	•	•	•	•	•	•				G131	
•			•	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		H425	
			•	•	•	•		•	•	•															A277	
						•		•	•	•	•	•	•	•	•	•	•								R309	Flexible Cloths
						•		•	•	•	•	•	•	•	•	•	•								R287	
															•	•	•	•	•	•			•		R817	Rigid Cloths
															•	•	•	•	•	•					RX84	
						•		•	•	•	•	•	•	•	•	•	•	•	•	•			•		R293	
								•		•		•	•	•	•	•	•	•	•	•			•		R427	
												•	•	•	•	•	•	•	•	•			•		R230	
																					•	•		•	S413	Combination
															•	•	•	•	•	•				•	S422	

GENERAL INFORMATION

COATED ABRASIVES

- Norton coated abrasives are manufactured in a wide variety of shapes and sizes in order to meet the needs of professionals and individual users. They are used for sizing, sanding, stripping, polishing and finishing operations.

Coated abrasives are made up of three components:



- The backing
- The coatings
- The abrasive grains

Each exist in a variety of qualities. The best product design results of the optimal combination of these three components.

ABRASIVE GRAINS

Two main types of grain exist:

- Industrial abrasives:** such as aluminium oxide, zirconium oxide, silicon carbide or ceramic abrasives SG® and SG-X ceramic based abrasives.

Aluminum oxide is generally used for the sanding of all sorts of timber (solid, laminate, ply,...) or with an anti-loading treatment, for sanding varnishes. Silicon carbide is recommended for sanding varnish and lacquers. Zirconium oxide and ceramic based abrasives are used for sizing: high pressure and high stock removal.

- Natural abrasives:** such as flint, garnet and emery.

COATINGS

The coatings used to fix the abrasive grains on the backing are applied in two layers, generally referred to as make coat and size coat. Norton uses different types of coatings:

- Natural glues (animal or vegetable glues),
- Synthetic resins.

Antistatic and No-fil® (zinc stearate) treatments reduce loading during sanding or varnish sanding.

BACKINGS

Norton offers a wide range of coated abrasive backings: paper, cotton or polyester cloth and non-woven cloths. They provide flexibility and tear resistance, especially when used on machines.

Paper:

SELECTION GUIDE

A Paper 70 g/m ²	Flexible and light	Finishing fine sanding
B Paper 90 g/m ²		
C Paper 110 g/m ²	Flexible and strong	Sanding fine sanding
D Paper 150 g/m ²	Flexible and strong	Sanding
E Paper 220 g/m ²	Strong	Sanding and sizing
F Paper 250 g/m ²	Very strong	

To improve both the quality of varnish sanding and ease of use, Norton recommends its Soft-Touch backing. See page 44.

Cloth:

- Superflexible "J"** cotton cloths are recommended for sanding profiles. Very strong "X" cotton cloths and polyester cloths are used for heavy sanding operations and sizing. Polyester cloths are water resistant.
- Non-Woven Cloth:** Is tear and heat-resistant, used for hand sanding.

HOW ABRASIVE GRAINS ARE DISTRIBUTED

There are two types of distribution:

- The so-called “OPK” **openkote distribution**, which corresponds to a coverage rate of 30% to 60% of the backing. This type of distribution therefore leaves large spaces between each abrasive grain. It is recommended for all applications subject to premature loading of the abrasive product, which would inevitably affect both stock removal and product life. Furthermore, it enables faster stock removal.
- The so-called “CLK” **closekote distribution**, which corresponds to a coverage rate of 100% of the backing. This distribution mode is reserved for products that require a maximum number of cutting edges per unit of surface area, thus ensuring a better quality finish. It is recommended for operations where loading is less of an issue and whenever a high quality surface finish is required.

STORAGE CONDITIONS

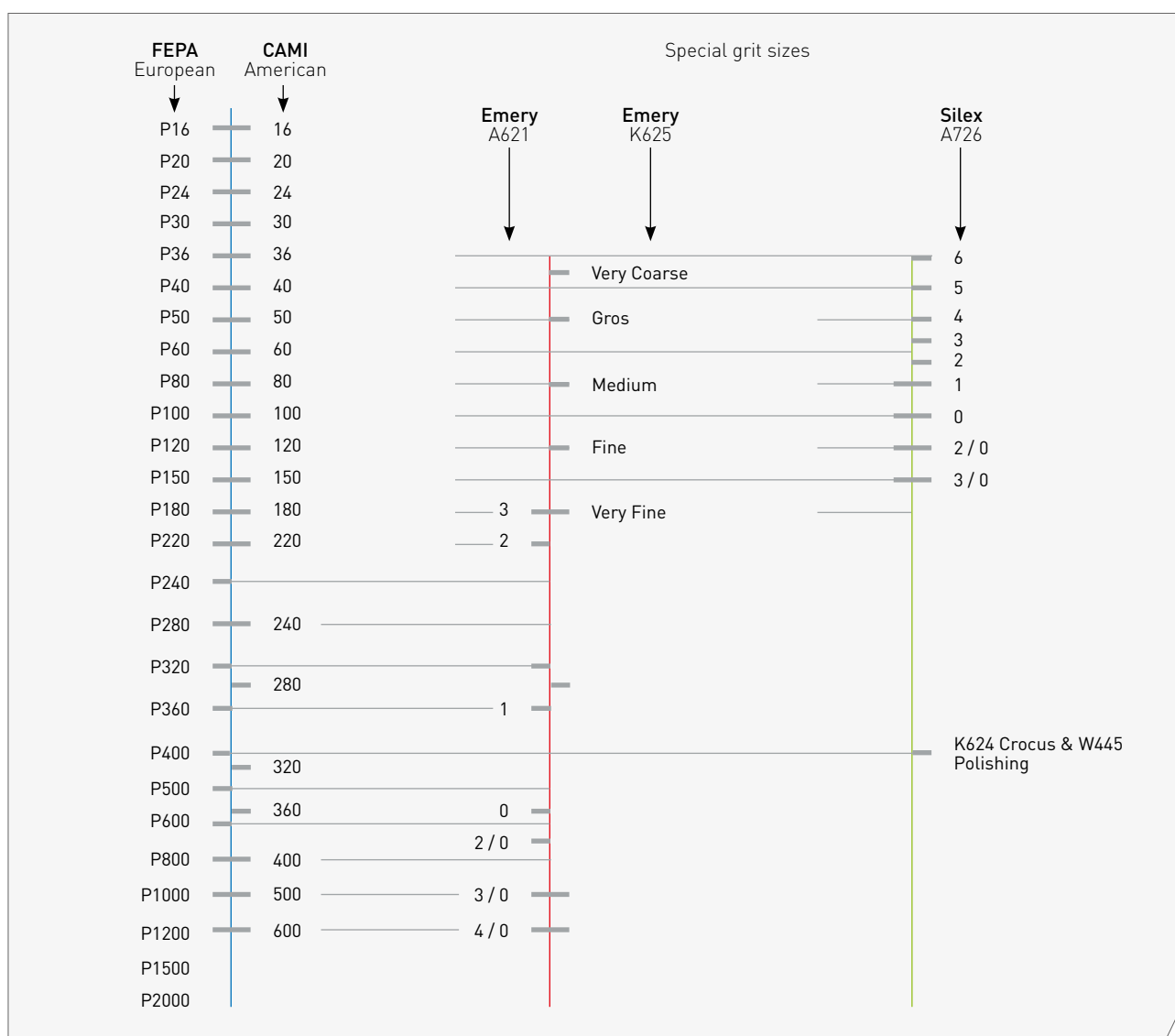
To guarantee the performances of coated abrasives, certain storage conditions must be met: the premises must be closed, clean, and not subject to high variations in temperature or relative humidity. Ideal storage conditions are:

Temperature: 15°C to 22°C **RH:** 40% to 50%

If the workshop atmosphere is very different to that of the storage area, hang the belts near the machine on which they will be used for 1 to 2 days. For best performances, we recommend use within 12 to 18 months following manufacture. Storage in an area that is too dry or too humid may cause them to curl.



GRIT SCALE



TECHNICAL RECOMMENDATIONS

CUTTING SPEED (M/S):

	Wide belt sanding with contact roller	Wide belt sanding with beam	Finishing with long belt
Solid or laminated timber	22 to 30	15 to 22	16 to 22
Plywood panels	20 to 25	15 to 22	16 to 22
Chipboard panels, MDF	20 to 25	16 to 22	16 to 22
Varnish	7 to 15	7 to 15	-
Plastics	15 to 30	15 to 20	15 to 20
	Sanding edges and surfaces	Sanding contours	Sanding with manual belt sander
Solid or laminated timber	12 to 18	12 to 24	7 to 11
Plywood panels	-	12 to 18	-
Chipboard panels, MDF	12 to 18	-	-
Varnish	7 to 10	7 to 10	7 to 10
Plastics	15 to 18	-	-

OTHER PARAMETERS:

Cutting rate		Surface finish		Cutting rate		Product life
Belt speed	higher	↑		↑		↓
Part travel speed	higher	↓		↑		↓

Contact wheel		Surface finish		Cutting rate		Product life
Hardness	soft	↑		↓		↑
	hard	↓		↑		↓
Groove	45°	↑		↓		↑
	60°	↓		↑		↓
Diameter	higher	↑		↓		↑
Pressure	higher	↓		↑		↓

↑ Better/Improved ↓ Less/Reduced



MAIN MACHINES & PRODUCT DIMENSIONS

WIDE-BELT SANDERS - NON-EXHAUSTIVE LIST

MANUFACTURER	MACHINE REFERENCES	BELT WIDTH (mm)	BELT LENGTH (mm)
Anthon	Saphir Combi 1100/1300	1120/1320	1900
	Saphir WS 1100/1300	1120/1320	1900
	Saphir WWS 1100/1300	1120/1320	1900
	Saphir L - séries - 110/130	1120/1320	1900
Boere	Elite	600/1700	1900/2620
	Select	900/1350	1900/2620
	MT	400/950	1525/1900
Büttering	Eco	1120/1370	1900
	Classic	1120/1370	1900
	Vega	1120/1370	2150
	Easy	670	1900
	Super 111L	1120	1900
	Super 213 RF	1370	1900
	Sandy	1120	1900
	E-Line 111	1120	1900
	E-Line 211	1120	1900
	E-Line 213	1370	1900
	E-Line 311	1120	1900
	E-Line 313	1370	1900
	Classic 211/311	1120	1900
	Classic 213/313	1370	1900
Classic Lucky	1370	1900	
Casadei	Libra 6	1180/1380	2260
	Libra 6	1120	2200
Chambron	PLB 1001	1010	1900
	PLB 1002	1010	1900
DMC	Polisand	1115/1315	2620
	Chronosand	1115/1315	2620
	Unisand 2000	1370/1350	2620/2660
	Unisand 3000	1400	3250
Enorm/Kündig	Primo	1120/1360	2000
	Duplex	670/1120/1360/1620	2000
	Triplex	1120/1360	2000
Ernst	510	1400	2620
	520	1400	2620
	530	1400	2620/3150
	820	1400	2150
	EG3M 800/1400	800/1400	1540
	EG3M ZB 800/1400	800/1400	1540
Ferri	Eco 1100	1120	1900/2250
Heesemann	EH 5/11	1150	2100
	EH 5/13	1400	2100
	MFA 6	1400	2150
	MFA 8	1400	2620
Houfek	Bulldog SPB 410	410	1900
	Bulldog SPB 630	650	1900
	Bulldog SPB 910	930	1900
	Bulldog SPB 1010	1030	1900
	Bulldog SPB 1100	1120	1900
Infotronic		1365	2620
Johannsen	Aerostat 1	1130/1330	1900
	Aerostat 2	1130/1330	1900
	Aerostat 2 Band	1130	1900
	Compakt 1K	1050/1130/1330	1900
	Compakt 2 RS	1050/1130	1900
	Compakt 2 RK	1050/1130	1900

WIDE-BELT SANDERS - NON-EXHAUSTIVE LIST

MANUFACTURER	MACHINE REFERENCES	BELT WIDTH (mm)	BELT LENGTH (mm)
OTT	Alpha - Omega	1120/1380	2150
	Euro Megatronic	1120/1380	1900
Sandingmaster	SA 2100 C	950/1130/1380	1900
	SA 2200W	950/1130/1350	1900
	SA 2300W	950/1100	1900
	SA 2100 K	1130/1380	1900
	SA 2200WG	1130/1380	1900
	SA 2200 KG	1100/1380	1900
	SA 3102 C	930/1130/1380	2150
	SA 3202 WS	900/1100/1350	2150
	SA 3302WWS	930	2150
	SA 3102 K	1100/1350	2150
	SA 3202WG	1100/1350	2150
	SA 3202 KG	1100/1350	2150
	SA 3302WG	1100/1350	2150
	SA Winner Sénior WK	1130	1900
SCM	Sandya WIN 63	640	1525
	Sandya UNO CS	930	1525
		970	1525
	Sandya 3 RCS	960	1900
		970	1900
	Sandya 5 CS	1115	1900
	Sandya 10/2 CS	1115	2150
		1120	2150
	Sandya 10 RCS 130	1315	2150
	Sandya 10 RRCS	1115/1315	2620
	Sandya 30 RT	1115/1315	2620
	Sandya 30 RCS	1115/1315	2620
	Sandya 30/3 RRT	1115/1315	2620
	1370	2620	
SICAR	Pegaso 630 1K-2R	630	1525
	Meta 950 1K-2R	960	1900
	Sirio 1100 1K-2RT	1120	1900
	Sirio 1100 2RR-2RK	1120	1900
Tagliabue	TAG CE	1300	2620
	TAG T4	1350/1400	2620
	TAG T12 1330/1350/1400	1400	2620/3250
Timesavers	137 - 1 HD 60	940	1500
	143 - 1 HD 60	1090	1500
VG	M - 1060 - COMBI	1060	1900
	M - 1060 - 2KS/2K	1060	1900
	M - 1330 - COMBI	1330	1900
	M - 1330 - 2KS/2KK	1330	1900
Weber	LCE 2000	1400	1900
	KLE 2000	1400	1900
	KLE	1400	2620
	20 001 100	1150	1900
	20 001 350	1400	1900
	K-KS 1100	1150	2620
	K-KS 1350	1400	2620
	EGE 1100	1120	1900
	EGE 1300	1320	1900
	TT	1150	1900
	TN	1150/1400	1900
	OFZ - MK 900	950	2500
	OFZ - MK 1100	1150	2500
	OFZ - MK 1350	1400	2500
BLC 2000	650/1150	1900	

PORTABLE SANDERS - NON-EXHAUSTIVE LIST

BELT DIMENSIONS W x L (mm)	MACHINE	TYPE
30 x 533	Makita	9030
	Metabo	6171
50 x 800	AEG	BS 107, BS 707
	Fein	MSHY 664
60 x 400	Bosch	PBS 60, PBS 60 E
63 x 406	Skil	593 U...
65 x 410	AEG / Atlas Copco	HBS 65, HBSE 65
	Black & Decker	BD 83, BD 83 E, DN63/63E, DN80/K/E, DN83/E/K
	Holz-Her	2047, 2205, 2405/2406, WC2255, 7705
	Kress	CBS 6800/6800E, 600 HTEB
	Metabo	BaE 0665, BaE 0666...
	Skil	593 U
75 x 457	Makita	9911
	Peugeot (Foe)	75 PB, PB 600(H), PB 6004
	Skil	1200 (H(E)), 1200 H1, 1205 H
	Wen	919...
75 x 480	ELU	MHB 157(E)
75 x 510	Black & Decker	BD 85, DN 85, P61-03, P 61-05, SR 500 E
75 x 533	AEG / Atlas Copco	BDE 75, HBSE 75(S), JBSE 75
	Black & Decker	KA 75 (E), BD 75 (E)
	Bosch	PBS 75 A (E), 0270, GBS75 AE, GSB 7 SAE
	Casals	LB75 A, LC75
	Hitachi	SB 75
	Holz-Her	2228, 2410, 2411 (E), 2420 (E)
	Freud	ILC 75
	Makita	9030, 990 B, 9900 B, 9901, 9924DB
	Metabo	BaE 0676, Ba 0775, Ba E 0875, Ba 0655, Ba 0765, BaE 0876, SIGNAL, BaE 1075
	Peugeot (Foe)	PAB 75
	Porter Cable	136
	Rhino	PB 1100
	Rockwell	337
	Ryobi	BE 3215 F, BE 231, B 850 FK 5, B 850F(H)E, B (E) 7075, HB 321(SF) B 7076 B(E), BE 721 SF
	Skil	594 U / 595 U, 2410, 2411, 2420
	Stanley	H 493
	DeWalt	DW431
75 x 575	Metabo	Ba 4350...
75 x 604	Porter Cable	360, 361
75 x 610	Black & Decker	BD 85, DN 85, P61-02, P61-03, P61-05, SR 500 E, HD 1226
	Makita	9914DB, 9924 DB, M991
	Ryobi	B 7100...
	Stanley	H31
100 x 552	Perles	HBS 102, TB 10A
	Peugeot	RP 102
	Skil	1400, 1400H, 1405H..., 405, 445, 805
100 x 560	Aeg / Atlas Copco	HBS (E) 100
	Black & Decker	405
	ELU	MHB 02, MHB 50, MHB 90 E, MHB 100, MNB 50
	Festo	BVZ 5, BUZ 5, BU 25, BN 25
	Festool	BUZS
	Haffner	HBU 550, HBU 552, HBU 553, HBU 652
	Ryobi	HB 422, HBE 422, BE 442 K5
	Skil	400H, 400B, 405H
DeWalt	DW 650 (E)	
100 x 604	Rockwell	360

PORTABLE SANDERS - NON-EXHAUSTIVE LIST

BELT DIMENSIONS W x L (mm)	MACHINE	TYPE
100 x 610	Aeg / Atlas Copco	BS 100
	Bosch	GBS 100 A(E)
	Hitachi	SB 10T, SB 10V
	Kango	5226,5256
	Knopp	9401
	Makita	9400B, 9401, 9402, 9403,9924 DB
	Metabo	6100
	Porter Cable	503, 504, 564
	Rockwell	360
	Ryobi	B 7200 A, BE 424 (i), BE 4240
	Stanley	H494
	Wolf	5173, 5573
100 x 620	Aeg / Atlas Copco	HBS 2-110, BBSE 100 / BBS 100
	Bosch	FBC 1270, GBS 100A, GBS 100 AE
	Hitachi	SB 110
	Holz-Her	210, 2422, 2423, 2424, HBS 110
	Mafell	ZUB 110
	Makita	9402, 9924 DB
	Metabo	6100, BA 6100



PRODUCT SELECTION GUIDE

CALIBRATION



- Adjusting timber panel thickness
- Grit range: P24 to P60
- Shapes generally used: long belts and wide belts
- Machines often require cloth belts

BACKING	PRODUCT	WIDE BELTS	LONG BELTS	BELTS FOR SANDING DRAWERS
Paper	H231	●●	●●●	
Cotton cloth	R230		●●	●
Polyester cloth	R293	●●●		●●
	R817	●		●●●
	RX84	●●		
Combination	S422	●●		

●●● Advised ●● Recommended ● Suitable

SANDING FLAT SURFACES



- Grit range: Rough: P60 to P120 ; Finishing: P150 and finer
- Shapes generally used: long belts and wide belts

BACKING	PRODUCT	WIDE BELTS	LONG BELTS	EDGE SANDER
Paper	H231	●●●	●●●	
	H259	●●	●●	
X Cotton cloth	R230		●	●
Polyester cloth	R293			●●

●●● Advised ●● Recommended ● Suitable

CONTOUR SANDING CHAIR COMPONENTS, MOLDINGS, ETC

Shapes generally used: long belts. The belts must fit easily around the contours of the timber. The belt speed is very important: for complex contours reduce the belt speed.

BACKING / PRODUCT TYPE	CONTOUR TO BE WORKED	PRODUCT	BELTS, SLEEVES & INFLATABLE CYLINDERS	OTHER SHAPES	REMARKS
Superflexible J cloth	Complex	R309	●●●		
Flexible J cloth	Simple	R287	●		
Abrasive brushes	Simple	R287		●	Squares off edges
Flexible wheels	Complex			●●●	Leaves sharp angles unchanged
Bear-Tex® wheels	Simple			●●●	

PRODUCT SELECTION GUIDE

PORTABLE SANDING



BACKING	PRODUCT	DISC SANDING	DISC FINISHING	SHORT BELTS	VIBRATING SANDERS
Light paper	A275		••		••
E paper	G131				•
F paper	H231	••	•••		
F paper	H835	•••			
X cloth	R230			•••	

HAND SANDING



BACKING / PRODUCT TYPE	PRODUCT	SHEETS	CUT SHEETS	ROLLS	OTHER SHAPES
Light paper	A213	•	•		
Light paper anti-loading	A275	••			
E paper	G131			•	
F paper	H231			••	
Superflexible J cloth	R309			•••	
Abrasive sponges					•••

FILLER AND VARNISH FINISHING (POLYURETHANE, CELLULOSE)

BACKING	PRODUCT	SHEETS	DISCS	CUT SHEETS	ROLLS	WIDE BELTS	LONG BELTS	OTHER SHAPES
Light paper anti-loading	A275	•••	••	••				
E paper	A277					••	•	
Soft-Touch anti-loading	A275	•••	•••	••				
Rotolo Foam®	A295			•••				•
Bear-Tex®		••			••			
Abrasives sponges								•
Vonnegut wheels								•

BELTS

Available in a range of sizes the Norton range includes narrow belts, wide belts and belts for portable sanding.

High performance aluminium oxide abrasive makes these belts ideal for finishing wood, intermediate sanding and planing and dimensioning.



NARROW BELTS FOR WOOD H231

BEST +++++



FEATURES

- Very strong, F-weight paper
- High performance aluminium oxide abrasive
- Semi-open/open grain distribution
- Anti-static properties

BENEFITS

- High performance & easy to mount
- Ideal for roughing, intermediate sanding & finishing
- Finer grits are ideal for polishing metal & plastic
- Resists clogging
- Excellent surface quality
- Less dust generated for an improved working environment

NARROW BELTS FOR WOOD H231

GRITS	120 x 7000mm	120 x 7100mm	120 x 7200mm	120 x 8000mm	PK QTY
60	63642539496	63642539500	63642539543	63642539568	10
80	63642539497	63642539501	63642539544	63642539567	10
100	63642539498	63642539502	63642539545	63642539566	10
120	63642539499	63642539503	63642539546	63642539565	10

Dimensions Key: DIM = Dimensions, W = Width, L = Length

WIDE BELTS H231

BEST +++++



FEATURES

- Very strong F-weight paper
- High performance aluminium oxide abrasive
- Semi-open/open grain distribution
- Anti-static properties

BENEFITS

- High performance & easy mounting
- Ideal for roughing, intermediate sanding & finishing of solid wood
- Ideal for furniture applications
- Finer grits ideal for polishing metal, plastics leather & smoothing fillers
- Resists clogging
- Excellent surface quality
- Less dust generated for an improved working environment

WIDE BELTS H231

DIM W x L (mm)	GRIT	PK QTY	ART. NO.
930 x 1525	60	10	69957337156*
	80	10	69957337157*
	100	10	69957337158*
	120	10	69957337159*
	150	10	69957337160*
	180	10	69957337161*
930 x 1900	60	10	69957337166*
	80	10	69957337167*
	100	10	69957337168*
	120	10	69957337169*
	150	10	69957337170*
	180	10	69957337172*
1120 x 1900	60	10	69957372835*
	80	10	69957337515*
	100	10	69957337516*
	120	10	69957337517
	150	10	69957337518*
	180	10	69957337519*
1120 x 2150	60	10	63642568246
	80	10	69957337538
	100	10	69957337539*
	120	10	69957337540
	150	10	69957337541*
	180	10	69957337542*
1350 x 2620	60	10	69957337795*
	80	10	69957337796*
	100	10	69957337797*
	120	10	69957337798
	150	10	69957337799
	180	10	69957337800*

* Made-to-order

BELTS FOR PORTABLE R230 SANDERS

GOOD +++



FEATURES

- Strong cloth backing
- Aluminium oxide abrasive
- Open grain distribution

BENEFITS

- Multi-purpose product ideal for sanding wood & grinding metal
- Good cutting rate
- Reduced clogging on loading material such as wood & aluminium

PORTABLE BELTS R230

GRITS	75 x 457mm	75 x 533mm	75 x 610mm	100 x 560mm	100 x 610mm	PK QTY
36		63642546461			63642529801	20
40	63642538877	63642546289	63642546472	63642546292	63642546295	20
50		63642546278			63642546283	20
60	63642539426	63642546257	63642546473	63642546262	63642560145	20
80	63642539422	63642534248	63642567329	63642546250	63642529798	20
100		63642546273		63642549847	63642546242	20
120	63642539415	63642530701	63642546476	63642546235	63642529797	20
150					63642539412	20

GRITS	100 x 620mm	110 x 620mm	100 x 690mm	100 x 915mm	PK QTY
40	63642546457	63642530702	63642537627	63642545871	20
50	63642546285	63642546288			20
60	63642534465	63642530700	63642537544	63642545873	20
80	63642529799	63642530699	63642537546	63642545875	20
100	63642534770	63642546245	63642537548		20
120	63642546452	63642546238	63642537632	63642534768	20

SHEETS, CUT SHEETS & SANDING BLOCKS

Norton offers a full range of sheets and cut sheets for hand and machine use, providing a range of efficient, user-friendly abrasive solutions. The range of dimensions, hole configurations and grits complies with all commonly encountered applications.

Sanding blocks are available in a range of sizes to be used with conventional cut sheets.



BLUE FIRE H835



FEATURES

- Latest Norzon grain design
- High strength paper backing (E-weight)
- Open grain distribution
- Full resin bond system

BENEFITS

- Self-sharpening grain, for improved cut & product life
- Reduces curling, edge chipping & tear resistant
- Prevents premature clogging
- Strong grain adhesion

BEST +++++



NORTON PRO A275



FEATURES

- Premium aluminium oxide grain
- Fibre-reinforced latex, B-weight paper
- No-Fil layer
- No pigments in No-Fil or bonding system

BENEFITS

- Long lasting, fast cut rate
- Tear resistant
- Resists loading & extends life
- No risk of colour transfer

BETTER ++++



A213

GOOD +++



FEATURES

- Aluminium oxide abrasive
- C-weight paper backing

BENEFITS

- Aggressive cutting action for all dry sanding applications
- Heavy & light duty hand sanding

PAPER SHEETS

DIM W x L (mm)	GRIT	PK QTY	BLUE FIRE H835	NORTON PRO A275	A213
			BEST	BETTER	GOOD
230 x 280 	40	25			63642536385
	60	50	66261029949		63642536387
	80	50	66261029946	63642558015	69957360388
	100	50		63642585256	
	100	100			69957360389
	120	100		63642558016	69957360390
	150	100		63642586145	69957360391
	180	100		63642558017	63642531774
	220	100		63642586139	63642536411
	240	100		63642558018	69957360394
	280	100		63642585742	
	320	100		63642586132	69957360396
	360	100		63642586133	
	400	100		63642586134	63642539112
	500	100		63642586136	
	600	100		63642586137	
800	100		63642586138		

CLOTH SHEETS

R222

BETTER ++++



FEATURES

- J-weight cloth backing
- Aluminium oxide abrasive

BENEFITS

- Flexible product

R202



FEATURES

- Aluminium oxide abrasive
- Flexible J-weight cotton

BENEFITS

- Waterproof
- Polyvalent product

CLOTH SHEETS

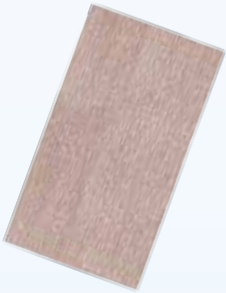
DIM W x L (mm)	GRIT	PK QTY	R222	R202
			BETTER	
230 x 280 	36	25	63642531775	
	40	25	63642531776	69957360506
	50	25	63642531777	
	60	25	63642531778	63642536405
	80	50	63642531779	63642536407
	100	50	63642531780	63642536408
	120	50	63642531781	63642536410
	150	50	63642531782	63642536413
	180	50	63642531783	63642531773
	220	50	63642531785	63642563323
	240	50	63642531786	
	280	50	63642531788	
	320	50	63642531789	
	400	50	63642531790	
600	50	63642534613		

Dimensions Key: DIM = Dimensions, W = Width, L = Length

CUT SHEETS

NORTON PRO A275

BETTER ++++



PRO

FEATURES

- Premium, heat-treated high performance aluminium oxide abrasive
- Unique fibre-reinforced latex paper
- Water based No-Fil
- No pigment in No-Fil or bond
- Available in grits 80-1000

BENEFITS

- Faster cut rate
- Improved performance
- More consistent uniform scratch pattern
- Flexible & tear resistant
- Improved load resistance
- No risk of colour transfer

G131F

GOOD +++



FEATURES

- Aluminium oxide abrasive
- E-weight paper backing
- Made with FSC mix certified paper backing

BENEFITS


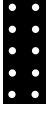
- Good performance
- Economy product
- Responsibly sourced



FSC CERTIFICATION

- Utilising responsibly sourced material and preserving natural resources is a high priority so our coated abrasive plants manufacturing paper backed products are now FSC certified.

CUT SHEETS PAPER SHEETS

DIM W x L (mm)	GRIT	PK QTY	NORTON PRO A275	
			BETTER	GOOD
115 x 280 	40	50		66623372533
	50	50		66623372534*
	60	50		66623372575
	80	50	63642588214	66623372576
	100	50	63642588216	66623372577
	120	50	63642588217	66623372581
	150	50	63642588218	66623372578
	180	50	63642588221	66623372579
	220	50	63642588222	66623372580
	240	50	63642588223	
	280	50	63642588224	
	320	50	63642588225	
	400	50	63642588226	
	500	50	63642588227	
	600	50	63642588228	
115 x 280 	40	50		66623373358*
	50	50		66623373357
	60	50		66623373356
	80	50		66623373359
	100	50		66623373360
	120	50		66623373363
	150	50		66623373362

* Made-to-order



NORGRIP CUT SHEETS

BLUE FIRE NORZON H835

BEST +++++



FEATURES

- Latest Norzon grain design
- High strength paper backing (E-weight)
- Open grain distribution
- Full resin bond system
- Available in grits 40-120

BENEFITS

- Self-sharpening grain
- Improved cut rate
- Extended product life
- Reduces curling & edge chipping
- Tear resistant
- Prevents premature clogging
- Strong grain adhesion

NORTON PRO A275

BETTER ++++




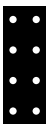

FEATURES

- Premium, heat-treated high performance aluminium oxide abrasive
- Unique fibre-reinforced latex paper
- Water based No-Fil
- No pigment in No-Fil or bond
- Available in grits 80-1000

BENEFITS

- Faster cut rate
- Improved performance
- More consistent uniform scratch pattern
- Flexible & tear resistant
- Improved load resistance
- No risk of colour transfer



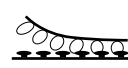
DIM W x L (mm)	GRIT	PK QTY	BLUE FIRE H835	NORTON PRO A275
			BEST	BETTER
70 x 125 	80	100		63642558002
	100	100		63642585263
	120	100		63642585272
	150	100		63642558005
	180	100		63642585274
	220	100		63642585281
	240	100		63642585284
	280	100		63642585286
	320	100		63642558006
	360	100		63642585291
	400	100		63642585294
	500	100		63642569777
	600	100		63642569669
	800	100		63642569670
70 x 198 	40	25	69957390890*	
	60	25	69957390892*	
	80	50	69957390896*	
	80	100		63642585468
	100	100		63642585475*
	120	50	69957390901*	
	120	100		63642585477
	150	100		63642585479
	180	100		63642585481
	220	100		63642585492*
	240	100		63642585493
	280	100		63642585494
	320	100		63642585495
	360	100		63642585496*
	400	100		63642585497*
	500	100		63642585498*
70 x 420 	40	25	69957390902*	
	60	25	69957390905*	
	80	50	69957390909	
	80	100		63642585549
	100	100		63642585551*
	120	50	69957390910*	
	120	100		63642585555
	150	100		63642585558
	180	100		63642585561
	220	100		63642585566
	240	100		63642585568
	320	100		63642585576
	400	100		63642585579

Dimensions Key: DIM = Dimensions, W = Width, L = Length

* Made-to-order



NORGRIP CUT SHEETS

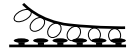



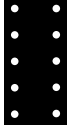
DIM W x L (mm)	GRIT	PK QTY	BLUE FIRE H835	NORTON PRO A275
			BEST	BETTER
80 x 133 	40	25	69957390920*	
	60	25	69957390922*	
	80	50	69957390923*	
	80	100		63642585306
	100	100		63642585317
	120	50	69957390925*	
	120	100		63642585319
	150	100		63642585322
	180	100		63642585323
	220	100		63642585326
	240	100		63642585328
	280	100		63642585329*
	320	100		63642585331
400	100		63642585345	
81 x 153 	40	25	69957390884*	
	60	25	69957390886*	
	80	100		63642585372
	100	100		63642585376*
	120	50	69957390873*	
	120	100		63642585377
	150	100		63642585378
	180	100		63642585383
	220	100		63642585384*
	240	100		63642585399
	280	100		63642585400*
	320	100		63642585402
	400	100		63642585406*
500	100		63642585407*	
93 x 180 	40	25	69957390927*	
	60	25	69957390930*	
	80	50	69957390931*	
	80	100		63642585409
	100	100		63642585412*
	120	50	69957390932*	
	120	100		63642585422
	150	100		63642585424
	180	100		63642585428
	220	100		63642585431*
	240	100		63642585438
	280	100		63642585442*
	320	100		63642585446
400	100		63642585458	
500	100		63642585461*	

Dimensions Key: DIM = Dimensions, W = Width, L = Length

* Made-to-order

NORGRIP CUT SHEETS (CONTINUED)



DIM W x L (mm)	GRIT	PK QTY	BLUE FIRE H835	NORTON PRO A275
			BEST	BETTER
100 x 150 	40	25	69957391019	
	60	25	69957391020	
	80	50	69957391023*	
	80	100		69957391028
	120	50	69957391025*	
	120	100		69957391030
	150	100		69957391033
	180	100		69957391034
	220	100		69957391037
	240	100		63642576688*
	320	100		69957351544
	400	100		69957351546*
115 x 230 	40	25	69957390911*	
	60	25	69957390915*	
	80	50	69957390917*	
	80	100		63642585506
	100	100		63642585507
	120	50	69957390918*	
	120	100		6364258012
	150	100		63642585508
	180	100		6364258013
	220	100		63642585511
	240	100		6364258014
	280	100		63642585517
	320	100		63642585533
	360	100		63642585536*
	400	100		63642585538
500	100		63642585543*	

Dimensions Key: DIM = Dimensions, W = Width, L = Length

* Made-to-order



SANDING BLOCKS

PLAIN SANDING BLOCK NORGRIP



	DIM W x L (mm)	ART. NO.	PK QTY
	70x125	07660705180	15

PERFORATED SANDING BLOCKS NORGRIP



	DIM W x L (mm)	ART. NO.	PK QTY
	70x125 	69957396645	1
	70x198 	69957396646	1
	70x400 	69957396648	1
	115x230 	69957396644	1
	81x153 	07660719284	1

ROLLS

A range of high performance coated abrasive rolls, ideal for fast easy sanding of various materials. They can be torn to the exact length as needed and can be used by hand, with a sanding block or self-gripping machine. Available with both paper and cloth backings and all with high performance aluminium oxide abrasives, for long life and good performance.



H231

BEST +++++



FEATURES

- Very strong F-weight paper
- High performance aluminium oxide abrasive
- Open grain distribution
- Anti-static properties

BENEFITS

- Ideal for sanding flat wooden or painted surfaces
- Suitable for metal surface finishing
- Reduces clogging
- Helps minimise dust when used with an appropriate extraction system

NORTON PRO A275

BETTER ++++



FEATURES

- Fibre-reinforced latex, B-weight paper
- Premium heat-treated aluminium oxide abrasive blend
- Water based No-Fil anti-loading third layer
- No pigments in No-Fil or bonding system

BENEFITS

- Tear resistant
- Can be used wet
- Suitable for use on primer, paint filler & coating sanding (for automotive & transport applications) and wood
- Long lasting, fast cut rate
- Good finish
- Resists loading & extends life
- No risk of colour transfer

PRO

G131F

GOOD +++



FEATURES

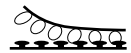
- E-weight backing
- Aluminium oxide abrasive
- FSC mix certified paper backing

BENEFITS

- Economy product for sanding wood, paint & plaster
- Good performance
- Responsibly sourced, environmentally friendly



PAPER ROLLS



DIM W x L (mm)	GRIT	PK QTY	H231	NORTON PRO A275	G131F
			BEST	BETTER	GOOD
70mm x 50M	120	2		69957380784	
	150	2		69957380785	
	180	2		69957380788	
	220	2		69957380790	
	240	2		69957380792	
	320	2		69957380795	
	400	2		69957380797	
	500	2		69957396694*	
93mm x 50M	40	2			66623372546*
	60	2			66623372547*
	80	2			66623372548
	100	2			66623372549
	120	2			66623372550
	150	2			66623372557
100mm x 50M	40	2			66623372536
	60	2	69957361732		66623372537
	80	2	69957361771	63642591122	66623372538
	100	2	63642536968		66623372539
	120	2	63642537413	63642591123	66623372540
	150	2		69957391073	66623372555
	180	2		63642591124	
	220	2		63642590924	
	240	2		63642590927	
	280	2		63642591648	
	320	2		63642591649	
	400	2		69957391077	
	500	2		69957396695*	



FSC CERTIFICATION

- Utilising responsibly sourced material and preserving natural resources is a high priority so our coated abrasive plants manufacturing paper backed products are now FSC certified.

PAPER ROLLS (CONTINUED)



DIM W x L (mm)	GRIT	PK QTY	H231	NORTON PRO A275	G131F
			BEST	BETTER	GOOD
115mm x 25M	40	2			66623372572
	60	2			66623372573
	80	2			66623372574
115mm x 50M	40	2			66623372551
	60	2			66623372204
	80	2			66623372535
	100	2			66623372552
	120	2		69957380761	66623372545
	150	2		69957380765	66623372205
	180	2		69957380767	66623372558*
	220	2		69957380769	66623372554
	240	2		69957380777	
	280	2		69957380778	
	320	2		69957380779	
	400	2		69957380781	
	500	2		69957396696	
120mm x 50M	40	2			66623372542
	60	2	63642539189		66623372543
	80	2	63642539187		66623372553
	100	2	63642539185		66623372541
	120	2	63642539183		66623372544
	150	2	63642539181		66623372556
	180	2	63642546049		66261020865
150mm x 50M	60	1	63642546050		
	80	1	69957361785		
	100	1	63642546054		
	120	1	69957361838		
	150	1	63642546058		

Dimensions Key: DIM = Dimensions, W = Width, L = Length

* Made-to-order



CLOTH ROLLS

R309

BETTER ++++



FEATURES

- Super flexible cotton cloth
- Premium aluminium oxide abrasive
- Semi-open grain distribution

BENEFITS

- Ideal for contour & profile sanding
- Long life in wood & metal applications
- For reduced clogging in wood applications

GRIT	PK QTY	100mm x 50M	120mm x 50M
60	1	69957385334	69957385339
80	1	63642555261	63642555659
100	1	69957385335	69957385340
120	1	69957385336	63642555601
150	1	69957384617	69957385341
180	1	69957385337	69957388153

Dimensions Key: DIM = Dimensions, W = Width, L = Length



SANDING DISCS

From Plain Sanding discs to soft-touch discs Norton offers a range of sanding discs to suit all the most commonly encountered applications.

Norgrip discs have a quick release backing that allows quick and easy disc changing, increasing performance by minimising downtime. Soft-Touch discs include a foam backing that improves product performance and gives an even longer product life. The foam layer absorbs unevenness in the surface, helping to maintain an excellent cutting action providing a very homogenous, high quality finish. Norton's premium quality self-adhesive discs can be securely fixed onto suitable back-up pads.



S413

BETTER ++++



FEATURES

- Very strong combination backing
- Sharp silicon carbide abrasive
- Very open grain distribution

BENEFITS

- High tear resistance
- Very high cutting action for rough floor sanding applications
- Long life
- Aggressive cut & clog resistant

H425



FEATURES

- Silicon carbide abrasive
- Strong E-weight paper

BENEFITS

- High cut rate
- For dry applications only
- Ideal for use on stone surfaces

H231

BETTER ++++



FEATURES

- High performance aluminium oxide abrasive
- Semi-open / open coat (depending on grit size)
- Very strong, F-weight paper
- Anti-static properties

BENEFITS

- Ideal for roughing, intermediate sanding & finishing of solid wood
- Ideal for floor & furniture applications
- Finer grits ideal for polishing metal, plastics & leathers, smoothing fillers, sanding primers, within vehicle repair markets
- Resists clogging
- High performance
- Excellent surface quality

PLAIN DISCS

DIM DIA x H (mm)	GRIT	PK QTY	S413	H425	H231
			BETTER		
140 x 22 	36	100		63642546555	
	60	100		63642546518	
	80	100		63642546519	
	100	100		63642546520*	
	120	100		69957360223	
150 x 12 	24	50	63642512874		
	36	50		63642546553	
	40	100		69957360199	
	50	100		63642546525	
	60	100		63642546527	
	80	100		63642546529	
	100	100		69957360218	
185 x 22 	36	100		63642546559	
	60	100		63642546548	
	80	100		63642546549	
	100	100		63642546550	
350 x 40 	40	100			63642540076
	50	100			63642540078
	60	100			63642540079
	80	100			63642540080
	100	100			63642546072*

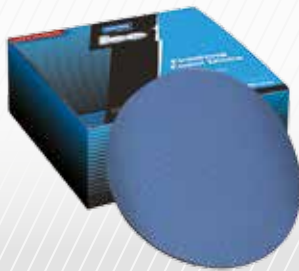
* Made-to-order

NORGRIP & SOFT-TOUCH DISCS

BLUE FIRE NORZON H835

BEST +++++

INNOVATION



FEATURES

- Ultra fine grits 1500, 2000 & 3000
- Uniformed cut throughout product life span
- Washable and waterproof
- NEW abrasive technology

BENEFITS

- Foam backing absorbs water and moulds to the surface for equal pressure distribution
- Smooth finish and lower scratch depth
- Requires less effort during the application
- High quality finish

BLUE FIRE NORZON H835

BEST +++++



FEATURES

- Latest Norzon grain design
- High strength paper backing (E-weight)
- Open grain distribution
- Full resin bond system
- Available in grits 40-120

BENEFITS

- Self-sharpening grain
- Improved cut rate
- Extended product life
- Reduces curling & edge chipping
- Tear resistant
- Prevents premature clogging
- Strong grain adhesion

NORTON PRO A275

BETTER ++++



FEATURES

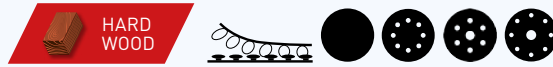
- Premium, heat-treated high performance aluminium oxide abrasive
- Unique fibre-reinforced latex paper
- Water based No-Fil
- No pigment in No-Fil or bond
- Available in Soft-Touch with flexible foam backing & coloured Norgrip
- Available in Norgrip grits P80-1500 & Soft-Touch Norgrip grits P220-1500

BENEFITS

- Faster cut rate
- Improved performance
- More consistent uniform scratch pattern
- Flexible & tear resistant
- Improved load resistance
- No risk of colour transfer
- Allows contour sanding without cutting through coating layer & easy grit identification

H231

BETTER ++++



FEATURES

- High performance aluminium oxide abrasive
- Semi-open / open coat (depending on grit size)
- Very strong, F-weight paper
- Anti-static properties

BENEFITS

- Ideal for roughing, intermediate sanding & finishing of solid wood
- Ideal for floor & furniture applications
- Finer grits ideal for polishing metal, plastics & leathers, smoothing fillers, sanding primers, within vehicle repair markets
- Resists clogging
- High performance
- Excellent surface quality

GOLD RESERVE A296

GOOD +++



GOLD RESERVE

FEATURES

- "P" graded premium aluminium oxide grain
- Strong B weight latex/ paper backing
- Water-based, non-loading stearate
- Available in Norgrip grits P80-P800 & Soft-Touch Norgrip grits P220-P800

BENEFITS

- Produces a quick, cool cut
- Produces a more consistent scratch pattern
- Resists tearing
- Conformable and flexible
- Resists loading
- Increases productivity

BACK-UP PADS (NORGRIP)

DIA	DENSITY	ATTACHMENT	PK QTY	ART. NO.
115	Medium	M14	1	69957382846
	Medium	5/8	1	63642595937
125	Medium	M14	1	69957382841
	Medium	5/8	1	63642595938
178	Medium	M14	1	69957382844
	Medium	5/8	1	63642595940



DIM DIA x H (mm)	GRIT	PK QTY	NORTON ICE	BLUE FIRE H835	NORTON PRO A275	H231
			BEST INNOVATION	BEST	BETTER	
125 8 holes	36	100				66261176734
	40	25		69957350908		
	60	100				63642516174
	60	25		69957350915		
	80	100				63642516175
	80	50		69957350916		
	120	100				63642516176
	120	50		69957350919		
	180	100				63642537389
	240	100				69957360184
	320	100				63642537390
125 9 holes	80	100			69957351501	
	100	100			69957351503	
	120	100			69957351506	
	150	100			69957351508	
	180	100			69957351509	
	240	100			69957351510	
	320	100			69957351882	
	400	100			63642591163	
	600	100			69957351511*	
150 	36	50				63642551458
	40	100				63642531875
	40	25		69957390933		
	50	100				69957360119
	60	100				63642519158
	60	25		69957390940		
	80	100			63642585184	63642546787
	80	50		69957391248		
	100	100			63642585186	63642531872
	120	100			63642569701	63642531871
	120	50		69957391249		
	150	100			63642569702	69957360170
	180	100			63642585190	63642536755
	220	100			63642585194	
	240	100			63642585197	63642546797
	280	100			63642585199	
	320	100			63642569704	63642536677
	360	100			63642585205	
	400	100			63642585214	
	500	100			63642585217	
	600	100			63642585220	
800	100			63642585223		
1500	15		66623324933			
2000	15		66623324952			
3000	15		66623324954			

Dimensions Key: DIM = Dimensions, W = Width, L = Length

* Made-to-order






NORGRIP DISCS (CONTINUED)

DIM DIA x H (mm)	GRIT	PK QTY	BLUE FIRE H835	NORTON PRO A275	H231
			BEST	BETTER	
150 7 holes	36	100			69957351529*
	40	100			66261026066
	40	25	69957391250		
	60	100			69957382764
	60	25	69957391255		
	80	100		63642557950	66261026069
	80	50	69957391256		
	100	100		63642586135	66261026070
	120	100		63642557954	66261026071
	120	50	69957391257		
	150	100		63642586141	66261026072
	180	100		63642586142	69957351530
	220	100		63642586143	
	240	100		63642557955	69957351531
	280	100		63642586144	
	320	100		63642557959	69957351532
	360	100		63642586148	
	400	100		63642557962	
	500	100		63642586150	
600	100		63642557964		
800	100		63642584990		
150 9 holes	40	100			63642550341
	40	25	69957391258		
	60	100			63642536740
	60	25	69957391260		
	80	100		63642557968	63642536741
	80	50	69957391261		
	100	100		63642585059	63642568763
	120	100		63642557969	63642546779
	120	50	69957391262		
	150	100		63642557970	63642546781
	180	100		63642585064	63642546834
	220	100		63642585065	
	240	100		63642585067	63642568766*
	280	100		63642585069	
	320	100		63642557973	
	360	100		63642585078	
	400	100		63642557974	
	500	100		63642557975	
	600	100		63642585073	
800	100		63642585074		

Dimensions Key: DIM = Dimensions, W = Width, L = Length

* Made-to-order



DIM DIA x H (mm)	GRIT	PK QTY	BLUE FIRE H835	NORTON PRO A275
			BEST	BETTER
150  15 holes	40	50	66254444904	
	60	50	66254444905	
	80	100		66254405540
	80	50	66254444908	
	100	100		66254405542
	120	100		66254405528
	120	50	66254444909	
	150	100		66254405530
	180	100		66254405546
	220	100		66254405548
	240	100		66254405549
	280	100		66254405550
	320	100		66254405539
	360	100		66254405551
	400	100		66254405552
	500	100		66254405553
600	100		66254405554	
800	100		66254405555	
203  8 holes	40	25	69957391263	
	60	25	69957391268	
	80	100		63642585236
	80	50	69957391269	
	100	100		63642585242
	120	100		63642585243
	120	50	69957391272	
	150	100		63642585244
	180	100		63642585245
	220	100		63642585246
	240	100		63642585248
	280	100		63642585249
	320	100		63642585250
	360	100		63642585251
400	100		63642585252	
203  27 holes	60	100	66254425281	
	80	100	66254425282	66254479260*
	100	100		66254479261*
	120	100		66254433333
	150	100		66254433335*
	180	100		66254479262*
	220	100		66254479263*
	240	100		66254433336
	280	100		66254479264*
	320	100		66254433337
	360	100		66254479265*
	400	100		66254433338

Dimensions Key: DIM = Dimensions, W = Width, L = Length

* Made-to-order





SOFT-TOUCH DISCS

DIM DIA x H (mm)	GRIT	COLOUR	PK QTY	NORTON PRO A275	GOLD RESERVE A296
				BETTER	GOOD
150 7 holes	220	Red	20	63642557535	
	280	Grey	20	63642557541	
	320	Salmon	20	63642557543*	
	360	Pink	20	63642557545	
	400	Yellow	20	63642557546*	
	500	Dark Blue	20	63642557548	
	600	Fuchsia	20	63642557550	
	800	Turquoise	20	63642557551	
	1000	White	20	63642557556	
	1500	Green	20	63642557559	
150 9 holes	220	Red	20	63642557561	
	240	Electric Blue	20	63642557563*	
	360	Pink	20	63642557567	
	400	Yellow	20	63642557569	
	500	Dark Blue	20	63642557570	
	600	Fuchsia	20	63642557572	
	800	Turquoise	20	63642557571	
	1000	White	20	63642557573	
	1500	Green	20	63642557574	
150 9 holes	220	White	20		66261097548
	320	White	20		66261097551
	400	White	20		66261097554
	500	White	20		66261097556
	800	White	20		66261097557

Dimensions Key: DIM = Dimensions, W = Width, L = Length

* Made-to-order

SELF-ADHESIVE DISCS

BLUE FIRE NORZON H835

BEST +++++



FEATURES

- Latest Norzon grain design
- High strength paper backing (E-weight)
- Open grain distribution
- Full resin bond system
- Available in grits 60-80

BENEFITS

- Self-sharpening grain, improved cut rate
- Extended product life
- Reduces curling & edge chipping
- Tear resistant
- Prevents premature clogging
- Strong grain adhesion

NORTON PRO A275

BETTER ++++



FEATURES

- New premium, heat-treated high performance aluminium oxide abrasive
- New unique fibre-reinforced latex paper
- Water based No-Fil
- No pigment in No-Fil or bond
- Supplied in roll form with 100 discs per roll & 6 rolls in a dispenser box
- Available in grits 80-800

BENEFITS

- Faster cut rate, improved performance
- More consistent uniform search pattern
- Flexible & tear resistant
- Improved load resistance
- No risk of colour transfer
- Convenient, easy to store & merchandise

H231

BETTER ++++



FEATURES

- High performance aluminium oxide abrasive
- Semi-open / open coat (depending on grit size)
- Very strong, F-weight paper
- Anti-static properties

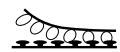
BENEFITS

- Ideal for roughing, intermediate sanding & finishing of solid wood
- Ideal for floor & furniture applications
- Finer grits ideal for polishing metal, plastics & leathers, smoothing fillers, sanding primers, within vehicle repair markets
- Resists clogging
- High performance
- Excellent surface quality

SELF-ADHESIVE DISCS

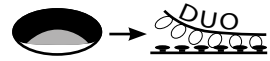
DIA (mm)	GRIT	PK QTY	BLUE FIRE H835	NORTON PRO A275	H231
			BEST	BETTER	
150 	40	100			69957360111
	60	100			63642536719
	80	100			63642528522
	80	6x100		66261131481	
	100	100			63642536724
	100	6x100		66261131480	
	120	100			63642536725
	120	6x100		66261131479	
	150	6x100		66261131478*	
	180	6x100		66261131477	
	220	6x100		66261131476	
	240	6x100		66261131475*	
	280	6x100		66261131474*	
	320	6x100		66261131473*	
	400	6x100		66261131471	
	500	6x100		66261131468*	
600	6x100		66261131469*		
800	6x100		66261131470*		
150 	60	50	66261023410*		
	80	50	66261023408		
	80	6x100		66261131515	
	100	6x100		66261131514*	
	120	6x100		66261131513	
	150	6x100		66261131512	
	180	6x100		66261131511	
	220	6x100		66261131510*	
	240	6x100		66261131509	
	280	6x100		66261131508*	
	320	6x100		66261131507	
	400	6x100		66261131505	
	500	6x100		66261131504*	
	600	6x100		66261131503*	
	800	6x100		66261131502*	

BACK-UP PADS SELF-ADHESIVE DISCS



DIA (mm)	DENSITY	ATTACHMENT	PK QTY	ART. NO.
150 	Medium	5/16 & M8	1	63642594551
150 	Medium	5/16 & M8	1	63642594552

CONVERSION INTERFACES



DIA (mm)	PK QTY	SELF-ADHESIVE TO NORGRIP DUO
150 	6	63642567849
150 	6	63642567851



Dimensions Key: DIA = Diameter

PRODUCTS FOR FLOOR, WALL & CEILING SANDING

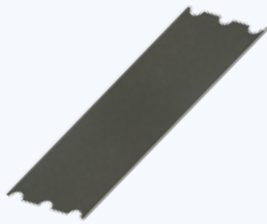
Norton offers a range of products for floor, wall and ceiling sanding designed to meet all commonly encountered applications.

Floor sanding sheets are available in a specially designed parallelogram cut sheet for floor sanding machines, these special sheets provide fast cutting with low loading. Double sided discs with sharp silicon carbide abrasives for a high cut rate and Screenback discs for wall and ceiling sanding with an open mesh backing for long life.



H425

BETTER ++++




FEATURES

- Silicon carbide abrasive
- Strong E-weight paper backing

BENEFITS

- Self-sharpening and long lasting
- High cut rate
- For dry applications only

DIM W x L (mm)	GRIT	PK QTY	ART. NO.
 203 x 478	40	25	63642519223*
	60	25	63642519224*
	80	25	63642516181*

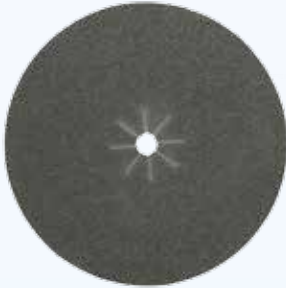
Dimensions Key: DIM = Dimensions, W = Width, L = Length

* Made-to-order

DOUBLE-SIDED DISCS FOR FLOOR SANDING

H425

BETTER ++++



FEATURES

- Extremely sharp silicon carbide abrasive
- Strong E-weight paper

BENEFITS

- Ideal for use on dry and stone surfaces
- High cut rate

DIM DIAxH(mm)	GRIT	PK QTY	ART. NO.
425 x 30	36	25	63642534436
	40	25	66261033845
	60	25	63642532879
	80	25	63642532880
	100	25	63642532881
	120	25	63642532882

S413



FEATURES

- Very strong combination backing
- Sharp silicon carbide abrasive
- Very open grain distribution

BENEFITS

- High tear resistance, long life
- Very high cutting action for rough floor sanding applications
- Aggressive cut & clog resistant

DIM DIAxH(mm)	GRIT	PK QTY	ART. NO.
425 x 30	16	25	66261033840
	24	25	63642534134

Dimensions Key: DIM = Dimensions, DIA = Diameter, H = Hole

SCREENBACK DISCS FOR WALL & CEILING SANDING

SCREENBACK Q421

GOOD +++




FEATURES

- Silicon carbide abrasive on an open mesh backing

BENEFITS

- Extreme resistance to loading
- Long life, waterproof

DIM DIA x H (mm)	GRIT	PK QTY	ART. NO.
406 	60	10	66261120519
	80	10	63642536521
	100	10	66261120517
	120	10	66261120516
	150	10	63642536524
	180	10	63642515105
	220	10	63642552254

Dimensions Key: DIM = Dimensions, DIA = Diameter, H = Hole



BEARTEX HAND PADS & ROLLS

Beartex hand pads are ideal for a broad range of applications from cleaning and finishing to deburring and light polishing operations.

The flexibility of Beartex products ensures constant contact with the surface and prevents cutting or gauging when working.



BEARTEX HAND PADS

GOOD +++

Beartex



FEATURES

- Flexible
- Gentle action
- Non-loading
- Non-rusting
- Resilient construction
- Easy to cut to desired size
- Perforated pads for clean and easy tearing also available

BENEFITS

- Conforms to contours of work surface & provides a uniform finish
- Easily removes burrs without affecting the dimension of the workpiece
- Continual supply of new cutting edges
- No contamination of the workpiece
- Long life, waterproof & solvent resistant
- Can be folded to suit hand / shape
- Perforations allow for smooth, shred free split to create 2 smaller easy to use 115mm x 150mm pads

DIM W x H (mm)	GRADE	CAP CODE	PK QTY	PERFORATED HAND PADS	HAND PADS
150 x 230	Extra Cut A	F2302	40**		63642557491
	Medium A	F2300	60**		63642557493
	Fine A	F2401	60*		66261018286
	Very Fine A Long Life	F2504	60*	66261018293	
		F2504	60*		66261018287
	Gen. Purpose Clean & Scour A	F2510	60*		66261018288
	Medium S	F4300	60**		66261039806
	Ultra Fine S	F4807	60*	66261018294	
		F4804	60**		63642557494
	Micro Fine A	F2801	60**		63642557277
White Cleaning (Non Abrasive)	F0001	60*		66261018283	
230 x 280	Very Fine A Long Life	F2504	35		66261018291
	Ultra Fine S	F4807	35		66261018292

*Supplied in packs of 20 **Supplied in packs of 10

BEARTEX ROLLS

BEARTEX SLIT ROLLS

GOOD +++

BearTex



FEATURES

- High quality aluminium oxide or silicon carbide grain
- Uniform web construction
- Can be cut to exact sizes needed
- Flexible for hand and machine use
- Non-loading
- Non-rusting
- Resilient construction

BENEFITS

- Long product life
- Controlled aggressiveness
- Economical; minimal waste
- Conforms to contours of work surface & provides a uniform finish
- Continual supply of new cutting edges
- No contamination of the workpiece
- Long life
- Waterproof & solvent resistant

DIM W x L	GRADE	CAP CODE	PK QTY	ART. NO.
100mm x 10M	Medium A	F2300	2	63642557499
	Fine A	F2401	2	66261018300
	Very Fine A	F2520	2	63642557738
	Very Fine A Long Life	F2504	2	66261018301
	Micro Fine A	F2801	2	63642557500
	Ultra Fine S	F4804	2	63642557501
115mm x 10M	Very Fine A	F2520	2	63642557739
	Very Fine A Long Life	F2504	2	63642587694
	Ultra Fine S	F4804	2	63642557503
120mm x 10M	General Purpose	F2523	2	63642515571
125mm x 10M	Medium A	F2300	2	63642557504
	Fine A	F2401	2	66261018307
	Very Fine A	F2520	2	63642557740
	Very Fine A Long Life	F2504	2	66261018308
	Micro Fine A	F2801	2	63642557505*
	Ultra Fine S	F4804	2	63642557506
150mm x 10M	Medium A	F2300	2	63642557507
	Very Fine A	F2504	2	66261018312
	Ultra Fine S	F4804	2	63642557508*

Dimensions Key: DIM = Dimensions, W = Width, L = Length

* Made-to-order

ROTOLO FOAM

Rotolo Foam® is the combination of a 3 mm layer of foam and No-Fil®(anti-loading) aluminium oxide A295 abrasive paper. It is available in 115 mm x 25 m rolls with pre-cuts every 135 mm (around 185 cut sheets) packed in a dust-protective box. This product is used for sanding varnish. Ideal for contour and angle sanding.



NORTON PRO A275

BETTER ++++



PRO

FEATURES

- A275 Norton Pro premium abrasive paper
- Special No-Fil coating
- Flexible foam backing
- Water-resistant
- 25m long roll of pre-cut sheets
- Packed in innovative dispenser box

BENEFITS

- Excellent for fine sanding with high finishing level
- Reduces clogging
- Ideal for use on round edges, contours & curves without breaking through the paint surface. Easy gripping
- Washable
- Easy to use & economical
- New Easy cut upgraded
- Easy to handle, protected against dust

GOLD RESERVE A296

GOOD +++



GOLD RESERVE

FEATURES

- "P" graded premium aluminium oxide grain
- Strong B weight latex/paper backing
- Water-based, non-loading stearate

BENEFITS

- Produces a quick, cool cut
- Produces a more consistent scratch pattern
- Resists tearing
- Conformable and flexible
- Resists loading
- Increases productivity

PRODUCT SELECTION

APPLICATION	GRIT	COLOUR
ROTOLO FOAM ROLLS A275		
Sanding of body filler	120	Apple Green
	150	Orange
	180	Purple
Sanding of finishing filler	220	Red
	240	Electric Blue
Sanding cataphoretic coats & primer	280	Grey
	320	Salmon
Sanding polyurethane primer	360	Pink
	400	Yellow
	500	Dark Blue
	600	Fuchsia
Cutting back lacquer before a flush joint	800	Turquoise
Retouching clear coat	1000	White
Before polishing & buffing	1500	Green

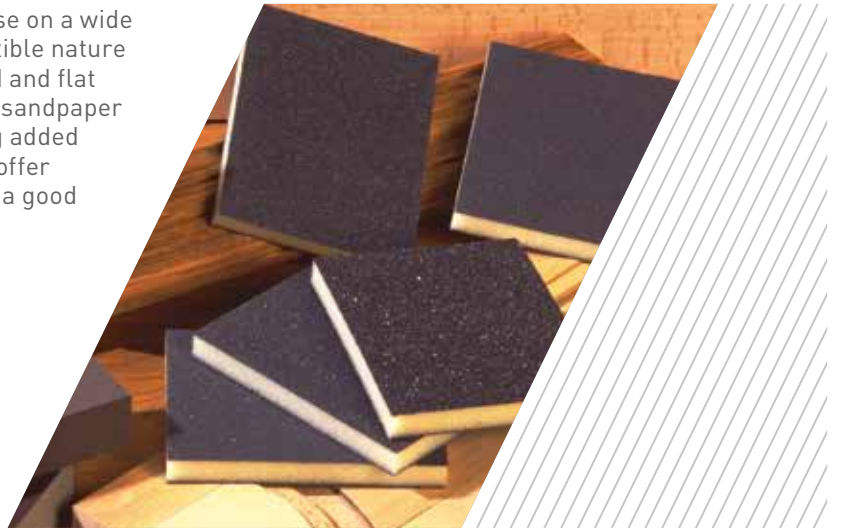
ROTOLO FOAM ROLLS

DIM W x L	GRIT	COLOUR	PK QTY	NORTON PRO A275		GOLD RESERVE A296	
				BETTER	GOOD		
115mm x 25M 	120	Apple Green	2	63642535316			
	150	Orange	2	63642557584			
	180	Purple	2	63642557599			
	220	Red	2	63642557600			
	240	Electric Blue	2	63642557602			
	240	White	2		66261097596		
	280	Grey	2	63642557604			
	280	White	2		66261097597		
	320	Salmon	2	63642557606			
	320	White	2		66261097598		
	360	Pink	2	63642557607			
	400	Yellow	2	63642557608			
	400	White	2		66261097599		
	500	Dark Blue	2	63642557611			
	500	White	2		66261097600		
	600	Fuchsia	2	63642557612			
	600	White	2		66261097601		
	800	Turquoise	2	63642557613			
	800	White	2		66261097602		
	1000	White	2	63642557616			
1500	Green	2	63642557617				

Dimensions Key: DIM = Dimensions, W = Width, L = Length

ABRASIVE SPONGES

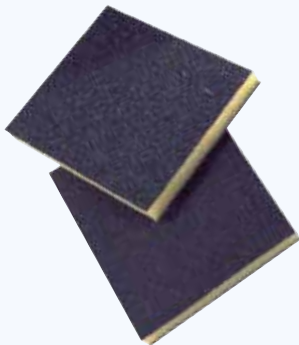
Abrasive sanding sponges are designed for use on a wide variety of materials including wood. Their flexible nature means they can be used on curved, contoured and flat surfaces and can reach areas inaccessible to sandpaper sheets. Washable, they can be re-used, giving added product life. Blocks with 2 abrasive surfaces offer flexibility, while those with 4 surfaces ensure a good form holding.



SPONGES



BETTER ++++



FEATURES

- Multi-purpose
- Flexible
- Washable

BENEFITS

- Can be used wet or dry
- Conform to surface shapes & contours, providing a uniform finish. Reaches areas inaccessible to sandpaper sheets
- Can be reused, giving added product life

SOFT-TOUCH CONTOUR PADS 1 SIDED

DIM L x W x H (mm)	GRIT	FINISH GENERATED*	PK QTY	ART. NO.
140 x 115 x 6	60	180 / 120	20	63642550599
	100	400 / 320	20	63642550601
	180	600 / 500	20	63642550602
	220	1000 / 800	20	63642550603
	280	1500 / 1200	20	63642550604

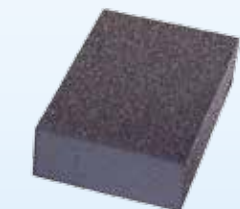
* Generates a finer finish than conventional coated abrasive products

FLEXIBLE FINISHING PADS 2 SIDED

DIM L x W x H (mm)	GRIT	PK QTY	ART. NO.
123 x 98 x 12.5	60	60	07660717578
	60	250	07660719341
	100	60	07660705187
	100	250	07660719342
	180	60	07660705188
	180	250	07660719343

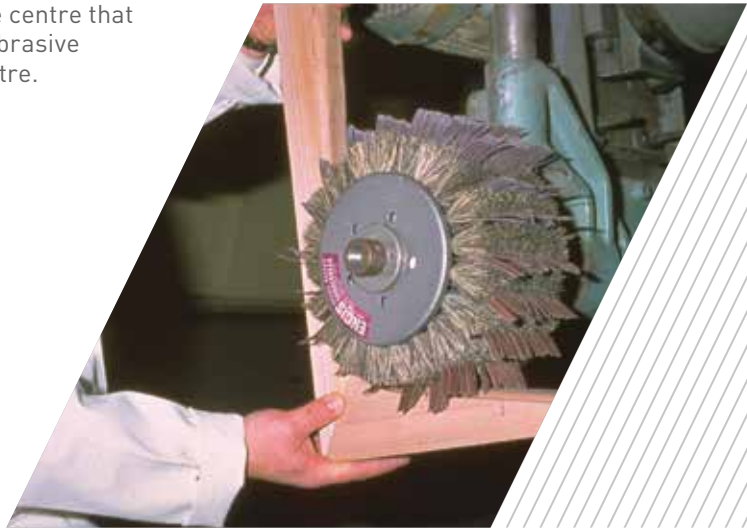
FLEXIBLE SANDING SPONGES 4 SIDED

DIM L x W x H (mm)	GRIT	PK QTY	ART. NO.
100 x 66 x 26	60	60	07660717579
	100	60	07660705189
	100	250	07660719345
	180	60	07660705190
	180	250	07660719346



VONNEGUT WHEELS

The Vonnegut wheel consists of an adjustable centre that fits onto the end of a bench grinder. Special abrasive rectangles (refills) are wound around the centre. When rotating, these rectangles are sanding shaped contours.



VONNEGUT WHEELS

BETTER ++++



DESCRIPTION AND SPECIFICATIONS:

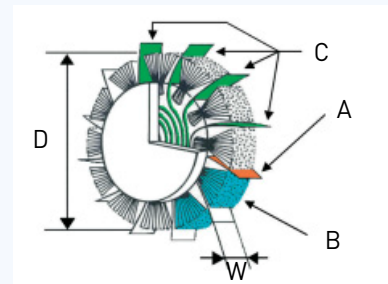
Example:

8P2 – Width (W) in inches (50 mm)
– Diameter (D) in inches (200 mm)

A: Abrasive rectangles: Plain (VN), or notched: 2 mm (VT2), 3 mm (VT3) or 6 mm (VT6)

B: Brush

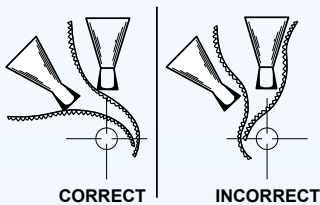
C: Set of four rectangles



COMPLETE VONNEGUT WHEELS

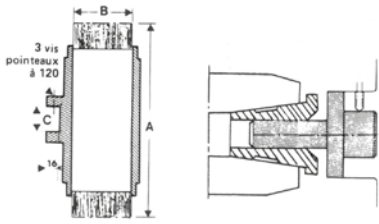
6P1	8P2	8P4	12P6
07660717616	07660717617	07660717618	63642526215

A complete wheel includes the wheel and the brushes without the abrasive rectangles (refills)

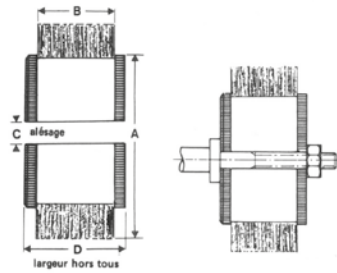


DIM (mm)	6P1	8P2	8P4	12P2	12P4	12P6
Diameter	150	200	200	300	300	300
Thickness	38	50	100	50	100	150
Bore	31.75	20	20	30	30	30
N° of rectangles	3	5	5	8	8	8
Brushes	12	20	20	32	32	32
Tape sizes	38 x 272	50 x 408	100 x 408	50 x 408	100 x 408	150 x 408
Maximum speed (rpm)	2800	1800	1800	1400	1400	1400
Work speed (rpm)	1500	1200	1200	900	900	900
Weight (kg)	1.2kg	2.5kg	3.6kg	4.5kg	7kg	8.5kg
Overall width	85	92	143	92	143	194

ASSEMBLY OF 6P1 WHEEL TYPE



ASSEMBLY OF 8P ET 12P WHEEL TYPES



It is essential to block the wheel against a shoulder and a nut to prevent the brush holder from flexing during operation. The machine shaft diameter must not be less than 18 mm for the 8P model and 28 mm for the 12P model.

For other dimensions and grits, please contact your Norton Representative

SPARE PARTS

DIM D x W x B (mm)	REF CODE	U.E / PCB	VONNEGUT WHEELS	SET OF BRUSHES	SET OF BRUSH HOLDERS	CENTRAL HUB	END FLANGE
150 x 38	6P1	1 / 1	07660717616	07660707915	07660707916		
200 x 50	8P2	1 / 1	07660717617*	07660717619	07660717624*		
200 x 100	8P4	1 / 1	07660717618*	07660717620	07660717625*		
300 x 150	12P6	1 / 1	63642526215*	07660717623*	07660717628*		
-	-	1 / 1				07660719267*	07660717641*

REFILLS

DIM D x W x B (mm)	REF CODE	GRAIN	U.E / PCB	FULL REFILLS	NOTCHED REFILLS
150 x 38	6P1	80	16 / 16	63642546695*	
		100		69957388692*	
		120		63642546696*	
		150		69957388693*	
		180		69957388695*	
150 x 38 (3mm)	6P1	100	16 / 16		63642546709*
		120		63642516123*	
		150		69957388704*	
150 x 38 (6mm)	6P1	60	16 / 16		63642546697*
		80		63642546698	
		100		63642546699*	
		120		63642546700*	
		150		63642546701	
		180		63642546702*	
200 x 50	8P2	60	4 / 4	69957388700*	
		80		69957388701*	
		100		69957388702*	
		120		69957388703*	
200 x 50 (6mm)	8P2	60	4 / 4		63642547212*
		80		63642546703*	
		100		63642546704*	
		120		63642546705*	
		150		63642547213*	
		180		63642522290*	
200 x 100 (6mm)	8P4	60	4 / 4		69957388706*
		80		63642546708*	
		100		63642546706*	
		120		63642546707	
		150		69957388708*	
		180		69957388709*	

* Made-to-order

FLANGE MOUNTED FLAP WHEELS

Designed to deliver a consistent finish with a uniform rate of cut, flap wheels have a continual rate of wear which exposes new abrasive. Their construction also makes them ideal for sanding contours and uneven surfaces.



R207

BETTER ++++



FEATURES

- Aluminium oxide abrasive
- Highly resistant backing

BENEFITS

- Unique manufacture technique provides low dust generation
- Consistent cut rate with ability to leave a very good finish
- Good life & cut rate in comparison to competition



FLANGE MOUNTED MAXIMUM OPERATING SPEED

DIA (mm)	MAX RPM
100	8000
150	5800
165	5500
200	4500
250	3500
300	2800
350	2500
400	2200

FLANGE MOUNTED FLAP WHEELS

			R207
DIM DIA x W x B (mm)	GRIT	PK QTY	BETTER
100 x 25 x 25	40	1	63642547168*
150 x 25 x 25	60	2	63642563719
	80	2	63642546728
	150	2	63642546746
150 x 50 x 25	60	1	63642546712
	80	1	63642546729
	100	1	63642546735
165 x 25 x 32	40	2	63642547170
	60	2	63642546711
	80	2	63642546730
	100	2	63642546736
	120	2	63642546742
	150	2	63642522957
165 x 50 x 32	50	1	63642546716
	60	1	63642561961
	80	1	63642546731
	120	1	63642546743
	150	1	63642545893*
200 x 25 x 35	60	2	63642547173
	80	2	63642547175
200 x 50 x 35	80	1	63642546732
	100	1	63642546738
250 x 50 x 35	80	1	63642546733
	100	1	63642546739*
	120	1	63642546745
	150	1	63642546753
	240	1	63642539771

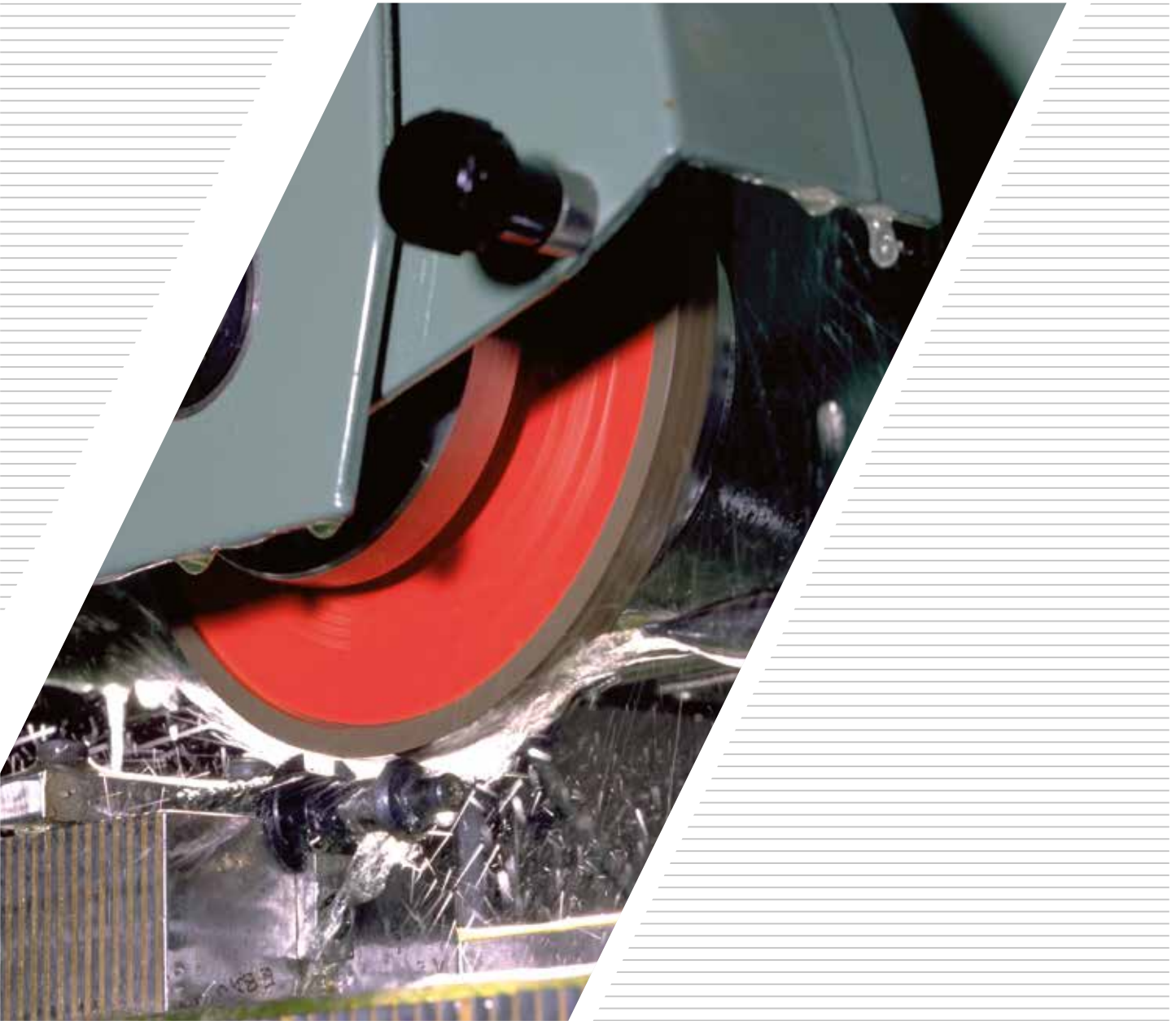
Other sizes available upon request. Alternative Bore Hole sizes upon request.

* Made-to-order

Dimensions Key: DIM = Dimensions, DIA = Diameter, W = Width, B = Bore

65-72

SHARPENING APPLICATIONS



66 Diamond & CBN wheels for sharpening

69 Vitrified Product Selection for Sharpening Tools

DIAMOND AND CBN WHEELS FOR SHARPENING

PRODUCT SELECTION

Compared to Aluminium Oxide and Silicon Carbide, Superabrasives, such as Diamond and CBN, offer excellent cutting performances and a better quality of sharpening. By reducing sharpening frequency, they increase the HSS or carbide tools life.

Diamond and CBN wheels are made of two parts:

- the core which constitutes the body of the wheel
- the abrasive layer

The specification of a Diamond & CBN wheel can be as follows:

Type of tools to be sharpened	ABRASIVES			GRIT SIZE IN μ (FEPA)		GRADE	CONCENTRATION				BOND	
	Tungsten carbide	Diamond	ASD Basic D	Finish quality	Diamond		CBN	Form holding	Contact area	Diamond	CBN	Diamond
High speed steel	CBN		Aztec® IV CB Basic B	Roughing	126	126	-	High	50	Q	CBN	B99
				Semi-finishing	91	107	↓	↓	75	T		
				Finishing	64	76	+	Low	100	W		

ASD CB 126 76 R 75 T B99 B99

■ Diamond wheels: blue coloured ■ CBN wheels: red coloured

SHAPES

TOOLS	PART TO BE SHARPENED	SHAPES					
		4A2	4C9	6A2	12A2-20°	12C9-20°	13A2
Circular saws	Teeth Front	•	•		•	•	
	Teeth back				•	•	
Milling cutters	Teeth Front	•	•		•	•	•
	Teeth back				•	•	
Planing-machine knives	Bevel			•	•	•	

DIAMOND AND CBN WHEELS



Norton provides wheels specifically designed for sharpening of sawtooths and reamers for wood.

FEATURES

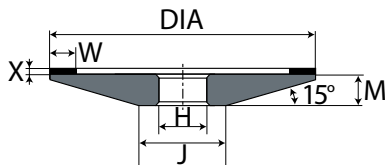
- Bonding materials that work in wet and dry conditions
- Resin framed wheels that restrict vibrations

BENEFITS

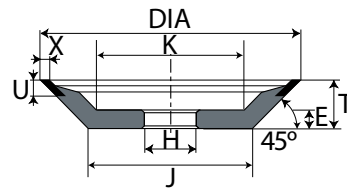
- Saving: High performance ratio.
- Quality: tight tolerance

WHEEL SHAPE AVAILABILITY

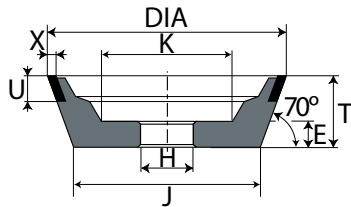
4A2



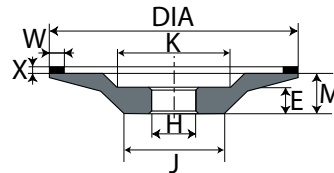
12V9



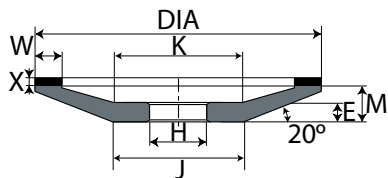
11V9



13A2



12A2-20°



DIAMOND AND CBN WHEELS - FOR SHARPENING

SHAPE CODE	WHEEL TYPE	D (mm)	W (mm)	X (mm)	H (mm)	SPECIFICATION	ART. NO.
4A2	Diamond	150	5	2	32	D91 - C75	07958732855
4A2	Diamond	150	5	2	20	D64 - C75	07958732863
4A2	Diamond	150	5	2	20	D126 - C75	07958732864
4A2	Diamond	125	5	2	32	D91 - C75	07958732866
4A2	Diamond	125	5	2	20	D64 - C75	07958732868
4A2	Diamond	125	5	2	20	D126 - C75	07958732870

SHAPE CODE	WHEEL TYPE	D (mm)	X (mm)	U (mm)	H (mm)	SPECIFICATION	ART. NO.
11V9	Diamond	75	2	10	20	D107 - C75	07958732857
11V9	Diamond	75	2	10	20	D126 - C75	07958732859
11V9	Diamond	100	3	10	20	D126 - C75	07958732862
11V9	Diamond	100	3	10	32	D126 - C75	07958732865
11V9	CBN	75	2	10	20	CB126TB99	07958732853
11V9	CBN	100	2	10	20	CB126TB99	07958732869

SHAPE CODE	WHEEL TYPE	D (mm)	W (mm)	X (mm)	H (mm)	SPECIFICATION	ART. NO.
12A2-20°	Diamond	125	6	4	32	D91 - C75	60157682172
12A2-20°	Diamond	150	5	2	20	D64 - C75	69014151397
12A2-20°	Diamond	150	5	2	32	D126 - C75	69014151963
12A2-20°	Diamond	175	5	2	20	D126 - C75	69014151422
12A2-20°	CBN	150	6	4	32	CB126TB99	61057682182
12A2-20°	CBN	175	5	4	20	CB126TB99	69014151427

SHAPE CODE	WHEEL TYPE	D (mm)	W (mm)	U (mm)	H (mm)	SPECIFICATION	ART. NO.
12V9	Diamond	75	2	6	20	D126 - C75	07958732811
12V9	Diamond	100	2	10	20	D126 - C75	07958732821
12V9	CBN	100	2	10	20	CB126TB99	07958732818

SHAPE CODE	WHEEL TYPE	D (mm)	W (mm)	X (mm)	H (mm)	SPECIFICATION	ART. NO.
13A2	Diamond	125	5	4	20	D64 - C75	07958732980
13A2	CBN	125	5	4	20	CB107QB99	07958732979

VITRIFIED PRODUCT SELECTION FOR SHARPENING TOOLS

SUPERABRASIVES DRESSING STICK

GOOD +++



Aluminium oxide dressing sticks are used to reach the maximum cutting power of the wheel. To dress Diamond-CBN wheels of grit 126, use a grit 150 stick, for grits 107 to 76, use a grit 220 stick, and for grits 64 and finer, use a grit 320 stick.

DIM W x T x L (mm)	GRIT	SPECIFICATIONS	ART. NO.	PK QTY
25 x 13 x 150	150	38A150 HVBE	61463605565	20
	220	38A220 HVBE	61463605066	20
	320	38A320 HVBE	69936684889	20

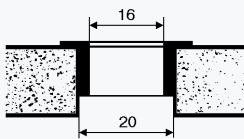
VITRIFIED GRINDING & SHARPENING WHEELS

SAFETY

RECOMMENDATIONS:

Comply with the maximum operating speed (MOS) indicated on the wheel blotter. Always use the protection guard. Protect eyes and hands. When using reduction bushes, refer to the diagram below. Do not grind with the side of straight wheels.

Moveable wheel mounting flange



Fixed wheel mounting flange

These products are manufactured from a mixture of aluminium oxide grains and a vitrified bond.

BORE BUSHES

For machines with non-standard spindles, plastic reduction bushes are used to adapt the wheel bore to that of the spindle. Never use a metal bush (aluminium or bronze) for vitrified wheels.

No point of the flanges should come into contact with the reduction bush or bushes after the wheel mounting (FEPA Safety Code – Chapter 5.13). As a result, the thickness of the reduction bush or bushes must be less than the thickness of the wheel.

When using 2 bushes, they must be assembled in staggered rows. It is possible to assemble a bush on each side for wheel thicknesses above 25 mm.

STANDARD WHEEL HOLES	INTERNAL DIAMETERS OF BUSHES
13	6-8-9.53-10
20	8-10-12-12.70-13-14-15-16-17-18
25	20
32	20-22,23-25-25.40-28-30
50.8	30-32-35-38.10-40-45

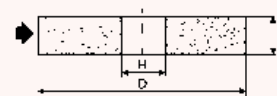
SAW SHARPENING

GOOD +++



FLAT WHEELS - SHAPE 01

The wheel specifications have been developed for standard steel grades. Norton saw sharpening wheels offer excellent form holding and cold cutting.



MATERIAL	OPERATION	SPECIFICATIONS	COLOUR	MAX. SPEED
Standard steel	All	19A60 O VS	Brown	35 m/s
High quality steel	All	19A60 M VS	Brown	
Treated steel / Stellite tipped	Truing / Roughing	86A54 O VS D6	Pink	
	Finishing	38A60 M VS T6	White	

FLAT WHEELS - SHAPE 01

STANDARD STEEL	HIGH QUALITY STEEL	TREATED STEEL / STELLITE TIPPED	
All operations		Truing / Roughing	Finishing
19A60 O VS	19A60 M VS	86A54 O VS D6	38A60 M VS T6
No resin treatment		1mm resin coated on one side	

DIM D x T x H (mm)	PK QTY	GOOD			
150 x 3.2 x 32	6		69936675941		
150 x 4 x 32	6	69936675946	69936674920		
150 x 6 x 32	6		69936675964		
150 x 10 x 32	6	6625305021			
175 x 4 x 51	6		66253052709		
175 x 6 x 51	6		69936675980		
180 x 10 x 32	6		69936675984		
200 x 4 x 32	6	69936675986			
200 x 6 x 32	6		69936675988		
200 x 8 x 32	6		69936675990		
200 x 10 x 32	6				69936675927
200 x 13 x 32	6				69936675928
230 x 10 x 32	6				69936675929
250 x 10 x 32	6			66253050139	69936675931
250 x 13 x 32	6			66253050128	69936675932

Recommendations for use: An angle of 2° to 3° between the wheel face and the cutting edge will avoid wheel glazing. Maximum operating speed: 35 m/s.

For other dimensions and grits of machine speeds above 35m/s, please contact your Norton Representative.

BENCH AND COMBINATION OIL STONES

GOOD +++



These stones are designed for manual sharpening of steel tools such as chisels, cutters, knives, blades and other precision tools.

To save time, they are already pre-filled with oil.

DIM L x W x H (mm)	PK QTY	TYPE	GRIT SIZE	ART. NO.
203 x 51 x 25	5	IB8	Combination Fine / Coarse	61463625078
	5	CB8	Coarse	61463685635
	5	MB8	Medium	61463685630
	5	FB8	Fine	61463685625





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