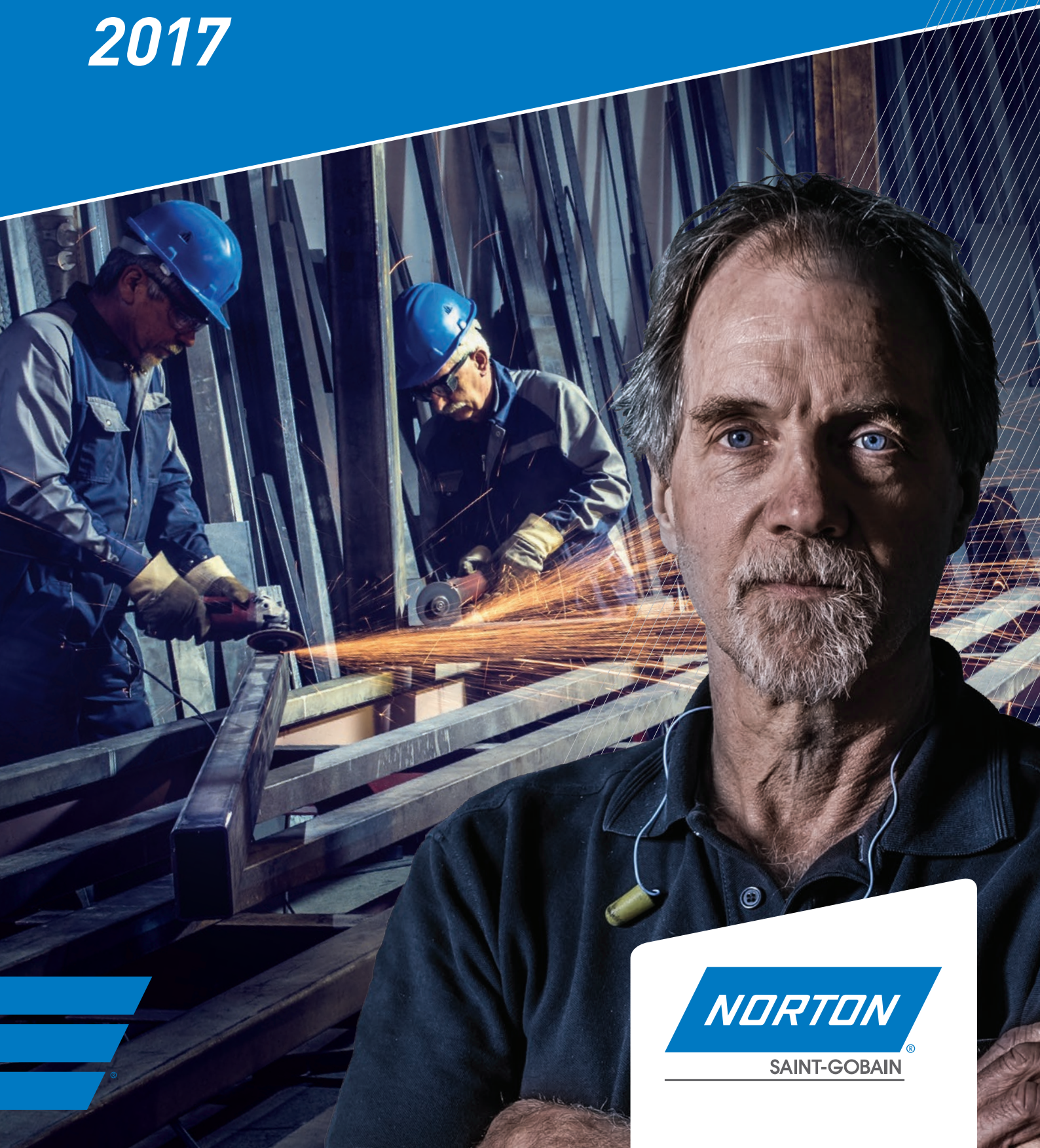


ABRASIVE SOLUTIONS

INDUSTRIAL APPLICATIONS

2017



NORTON
SAINT-GOBAIN®

271-378 BONDED ABRASIVES



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INTRODUCTION

From standard aluminum oxide bench wheels to premium ceramic abrasive surface grinding wheels, Norton offers high performance abrasive solutions that can maximise productivity in virtually all industrial applications.

The extensive product range is designed to meet all your precision grinding and roughing application needs, with all the most appropriate abrasive specifications, including grinding wheels, segments, mounted points, dressing sticks and sharpening stones.

Norton, the industry's most comprehensive Bonded abrasive product line.

UNDERSTANDING THE PRODUCT

- 1 Safety pictograms
- 2 Strong Norton branding
- 3 Product dimensions (mm)
- 4 Product specification
- 5 Maximum operating speed
- 6 Article number; for use when re-ordering
- 7 oSa certified
The Organisation for Safety of Abrasives
- 8 European safety standard EN 12413



ABRASIVE TYPES

CERAMIC ALUMINIUM OXIDE

Norton SG, Norton Quantum are patented ceramic forms of aluminium oxide that are harder and sharper than conventional abrasive grains.

The ceramic grain has a unique microcrystalline structure and when used in a grinding operation this microstructure becomes self-sharpening. This leads to a reduction in the need for wheel dressing and a considerably cooler cutting action.

ALUMINIUM OXIDE

Generally recommended for grinding materials of high tensile strength, such as stainless steel and tool steels, but it can also be used on some high tensile aluminium and bronze alloys. It is manufactured in varying qualities.

SILICON CARBIDE

Harder than aluminium oxide with a very sharp abrasive grain shape. It is recommended for grinding relatively soft materials such as aluminium or cast iron as well as grinding extremely hard materials such as cemented carbide.

ZIRCONIA ALUMINA

For use in rough grinding applications where high stock removal is required. Associated with high tech resin bonds.

GRIT SIZE

The number in the grinding wheel, marking designating grit size, represents the approximate number of openings per linear inch in the final screen size used to size the grain. The following rules should be followed:

USE COARSE GRIT

- For soft, ductile, stringy materials such as soft steel or aluminium
- For rapid stock removal
- Where finish is not important
- For large areas of contact.

USE FINE GRIT

- For hard, brittle materials such as hard tool steels, cemented carbides & glass
- For fine finishes
- For small areas of contact
- For holding small corner radii.

WHEEL GRADE

The grade indicates the relative holding power of the bond, which holds abrasive grains in a wheel. This is represented in the specification by letters running through the alphabet from softest to hardest. The following rules should be followed with regard to grade:

USE SOFT GRADE

- For hard materials such as hard tool steels & carbides
- For large areas of contact
- For rapid stock removal.

USE HARD GRADE

- For soft materials
- For small or narrow areas on contact
- For longer wheel life.

F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
				CYLINDRICAL/CENTRELESS											
SURFACE GRINDING															
				ID GRINDING											
			TOOL GRINDING												
					THREAD GRINDING										
NON-REINFORCED ORGANIC															
										REINFORCED ORGANIC					

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BOND TYPES-VITRIFIED

Vitrified bonds are the most common precision grinding bond. Porosity and strength of the wheels made with this bond give high stock removal along with their rigidity helping to attain high precision. Not affected by water, acid, oils or ordinary temperature variations. The most common vitrified bonds are:

VS3 / VS3P

NEW VITRIUM³ REVOLUTIONARY BOND TECHNOLOGY



The Vitrium³ bond platform features an exclusive chemistry that delivers an entirely new grain adhesion science, resulting in improved product versatility across a wide range of precision grinding applications. Provides cool cutting, precise profile, high speed, versatile across all precision grinding applications.

VS

VS is a versatile, low temperature, vitrified bond system used in most precision applications.

VX / VXP

Equivalent to VS bond, for ceramic only.

VQN / VQNP

These bonds are associated with Norton Quantum technology - a versatile technology for low, medium and high force applications.

UNDERSTANDING THE SPECIFICATION

ABRASIVE			GRIT SIZE			GRADE			STRUCTURE		BOND
ALUMINIUM OXIDE	SILICON CARBIDE	CERAMIC ALUMINIUM OXIDE	COARSE	MEDIUM	FINE	SOFT	MEDIUM	HARD	CLOSED	OPEN	
A		SGB			80	E	I	Q	8	10	VS
19A		3SG			90	F	J	R		11	VX
25A		5SG		46	100	G	K	S		12	VXP
38A			24	54	120	H	L	T			VXPM
			30	60			M				
57A			36	70			N				
86A							O				
IPA			46	60	80	ME	HA	EH	17	26	VTX
										20	
		3NQ		60	80	J	K	L	8		VQN
										12	VQNP
	37C		46	60	90	J	K	L	8		VS
	39C		54	70	100						
				80	120						
A		SGB	30	60	90	G	I	M	6	10	VS3
19A		2NQ	36	70	100	H	J	N	7	11	VS3P
38A		3NQ	46	80	120		K	O	8	12	
57A		5NQ	54		150		L			13	
86A											

BOND TYPES-ORGANIC

These bonds are used in two types of wheels. Firstly, wheels used on portable or fixed machines for the rapid removal of metal. Secondly, cutting-off wheels either un-reinforced or reinforced, for use on portable or fixed machines. The most common organic bonds are:

SNAGGING WHEELS & CUPS

B & B3	Foundry wheels: multi-purpose bond that gives satisfactory results on most applications
B28	Foundry wheels: high level bond suitable for most technical applications requiring high powered machines

CUTTING-OFF WHEELS

BFX	NEW Foundry X bond technology designed to increase cut rate and wheel life in all cut-off applications on a wide range of tough materials
BF1	Specific bond ensuring the best quality of cut in dry or wet conditions
BF3	New generation bond assuring the best wheel life in dry cutting operations; versatile & long wheel life. Ideal for heavy duty operations
B24	New generation bond used on silicon carbide cut-off wheels that gives the best performance & the ultimate cut quality on non-ferrous metals in wet conditions
B25	Standard multi-purpose bond that offers durability & freeness of cut in a wide variety of materials & applications. Can also be used in wet cutting on softer grades
B26	New generation bond used on aluminium oxide cut-off wheels that gives the best performance & the ultimate cut quality on ferrous metals in wet conditions
B65	Traditional bond gives good performance & long wheel life in dry cutting conditions

DIFFERENTIATION IN THE RANGE

Norton offers the industry's widest selection of sharpening and grinding wheels to meet every customer requirement. The range is classified into 3 tiers (Best/Better/Good) to help you choose the right product for your specific application according to the type of abrasive used.



Using unparalleled abrasive technology, & extremely high performance, high concentration ceramic aluminium oxide abrasive, Norton provides innovative products dedicated to improving productivity in all industrial applications



High concentrations of the well renowned SG abrasive are used to supply Norton's high performance abrasive grains, 5SG & 3SG. These products meet the demands of the most discerning user giving high stock removal rates & long product life for lower operating costs



The SGB abrasive is used in the majority of Norton's Better products. SGB contains a medium concentration of SG ceramic aluminium oxide abrasive. SG is harder & sharper than conventional abrasive grains & gives excellent cutting capability on a wide variety of materials



Standard aluminium oxide grains, both blended & pure, give highly durable solutions that produce good performance levels

For further information please go to the Technical Information Section at the back of this catalogue.

APPLICATION GUIDE FOR PRECISION GRINDING

TOOL GRINDING

PAGE 279 TO 297

Tool grinding refers to the maintenance and repair of the cutting tools used in manufacturing operations. Wheels of all sizes and shapes are used in tool and cutter applications. Most wheels used are vitrified, in grit sizes 36 to 220, and in grades H through to N.



SAW SHARPENING

PAGE 298 TO 303

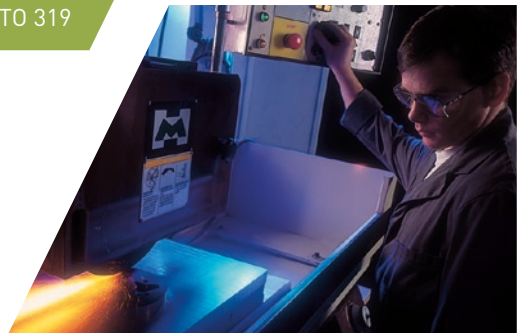
Saw sharpening refers to the maintenance and repair of saw blades. Vitrified flat wheels and cups are used in grit sizes 54 to 60. Resin treatment reinforces the wheel and helps reduce wheel face deformation.



SURFACE GRINDING

PAGE 304 TO 319

The term surface grinding is used to describe the grinding of flat surfaces in which the wheel moves past the workpiece in a flat plane, or vice versa. Surface grinding applications range can vary from heavy rapid stock removal, to precision contour grinding.



EXTERNAL CYLINDRICAL GRINDING

PAGE 320 TO 327

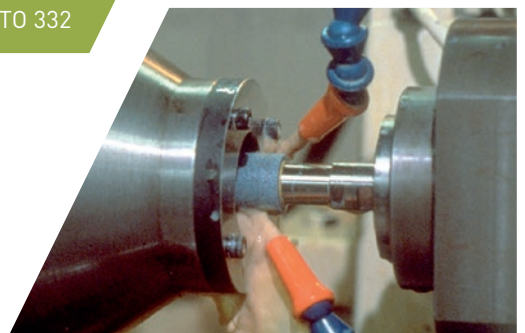
Norton's leading technology, provides you with the best precision, formholding vitrified wheels to maximize productivity, increase grinding efficiency and improve part quality in all your external cylindrical grinding operations.



INTERNAL CYLINDRICAL GRINDING

PAGE 328 TO 332

Internal grinding refers to the grinding of bores or holes and is probably one of the most difficult types of grinding. Internal grinding applications range from very rapid stock removal to more controlled processes capable of generating sizes and concentricity measured in microns.



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BENCH AND PEDESTAL GRINDING PAGE 333 TO 343

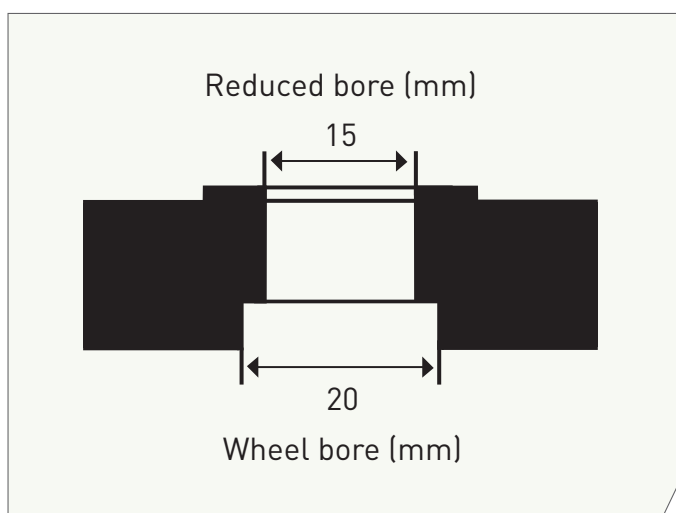
Bench and pedestal grinding application refers to offhand deburring and sharpening of parts and tools. The wheels are mounted on bench grinders or pedestal grinders and covers three types of abrasives to answer all deburring, shaping and sharpening needs: aluminum oxide for high speed tool steels and other metals, and silicon carbide for non-ferrous metals.



REDUCTION RINGS

Plastic reduction rings may be used to adapt grinding wheels to fit on various spindle sizes. These rings reduce the bore hole size, allowing the wheel to be safely mounted on a spindle with a smaller diameter.

- Reduction rings should never come in contact with the flange
- Reduction rings should not be used on wheels of thicknesses less than 6mm, or greater than 50mm
- Always use one reduction ring on each side of the wheel when the wheel is thick enough to allow correct seating
- Never use reduction rings to reduce the hole below the minimum specified in the FEPA safety code



WHEEL BORE (mm)	REDUCED TO (mm)	REDUCTION RING
50,8	35	07660704766
32	25	07660717540
32	20	07660717538
31,75	15,88	07660704757
31,75	12,7	07660704755
20	16	07660717530
20	15	07660717529
20	13	07660717527
20	12	07660717525
20	10	07660717524
16	6	00510008919

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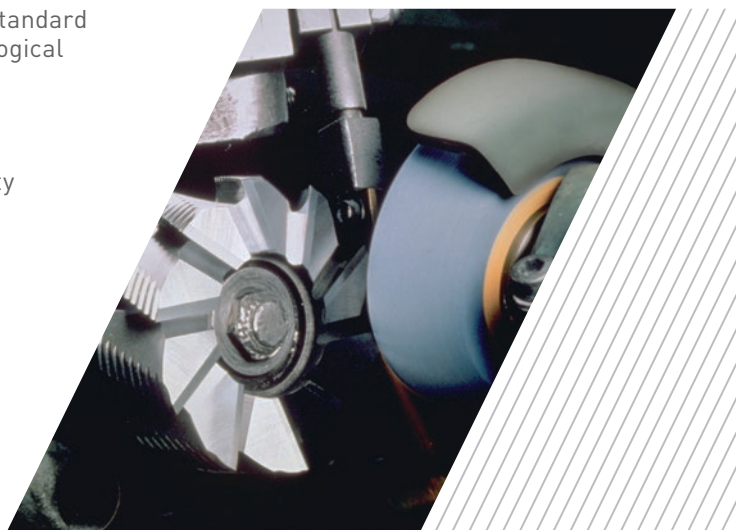
TECHNICAL
INFORMATION

This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings on the page.

TOOL GRINDING

Norton vitrified grinding wheels have set the standard for generations – leading the way with technological improvements to maximise performance and productivity for your tool and cutter grinding and sharpening operations.

For Tool Grinding, please take note of the safety instructions, about the storage and use of grinding wheels, available on page 538.



	STEELS						
	CHROME PLATE	HIGH SPEED STEEL	INOX	STEEL - SOFT (UP TO 45RC)	STEEL HARDENED (OVER 55RC)	STEEL-HIGH CARBON / HIGH CHROME CONTENT	STELLITE
NQ	X	X	X	X	X	X	X
SG / GF		X		X	X		
19A / 57A				X			
25A / 86A / 32A				X	X		
37C							
38A	X	X		X	X	X	X
39C			X				
A				X	X		

BONDED ABRASIVES

SUPER ABRASIVES

DIAMOND TOOLS

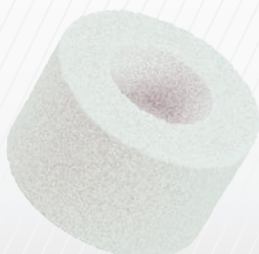
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NORTON QUANTUM WITH VITRIUM³ 5NQ

REVOLUTIONARY BOND TECHNOLOGY



LINK TO WEBSITE AND ANIMATION

FEATURES

- Engineered ceramic grain shape and chemistry with new revolutionary bond
- Perfect combination of sharpness and toughness

BEST +++++

INNOVATION



BENEFITS

- Extreme versatility for all precision applications
- Reduced dressing frequency and cost
- High profile accuracy
- Cooler cut and high speed material removal

NORTON QUANTUM 5NQ / 3NQ / 2NQ

BEST +++++



FEATURES

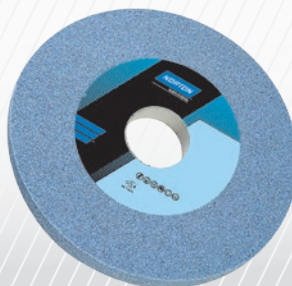
- Engineered ceramic grain shape and chemistry with new bond technology
- A perfect blend between sharpness (free cutting) and toughness (life)

BENEFITS

- Versatile in all low, medium and high force applications
- 30% to 100% higher metal removal rate
- >15% lower threshold power



SG 5SG



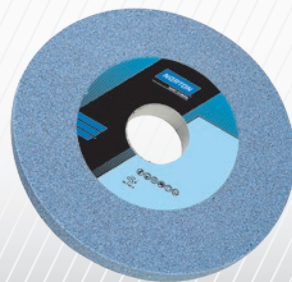
FEATURES

- Very high concentration of SG ceramic aluminium oxide abrasive

BENEFITS

- Ultimate cutting capability
- High removal rate & extended wheel life
- Perfect for technical applications where grinding parameters can be adjusted to optimise performance

SG 3SG



FEATURES

- High concentration of SG ceramic aluminum oxide abrasive
- Unique, self sharpening, microcrystalline structure

BENEFITS

- Very good cutting capability
- High removal rate & extended wheel life
- Suitable for very hard steels

38A WITH VITRIUM³

REVOLUTIONARY BOND TECHNOLOGY

BETTER ++++

VITRIUM 



FEATURES

- High purity white aluminium oxide abrasives with enhanced bond adhesion
- High friability abrasive

BENEFITS

- Even cooler & burn free cutting
- Extended wheel life
- Improved profile accuracy
- Ideal for heat sensitive applications with light to moderate feed rates



LINK TO WEBSITE
AND ANIMATION

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SG SGA / SGB



FEATURES

- Medium concentration of SG ceramic aluminum oxide
- Harder & sharper than conventional abrasive grains

BENEFITS

- Good cutting capability
- Suitable for low to medium power machines
- Very versatile on a wide variety of steels

GOOD +++

38A



FEATURES

- High purity white aluminium oxide abrasive
- Friable

BENEFITS

- Cool & burn free cutting
- Ideal for heat-sensitive applications with light to moderate feed rates

86A



FEATURES

- Highly refined pink aluminium oxide abrasive
- Tougher abrasive than pure white aluminium oxide
- Contains a small portion of chromium oxide

BENEFITS

- Very versatile
- Reduced dress frequency

19A



FEATURES

- A blend of A & 38A abrasives
- Primarily used in saw grinding applications

BENEFITS

- Very versatile. For use on a wide variety of steels
- Good yield, good removal rate
- Good balance between cut rate & form holding ability

A



FEATURES

- Regular brown aluminium oxide abrasive
- Unique, self sharpening, microcrystalline structure

BENEFITS

- Very tough, suitable for grinding most types of steel & soft iron
- Good cost/performance compromise
- Hard wearing wheels for general purpose cylindrical off-hand bench & pedestal grinding applications

37C



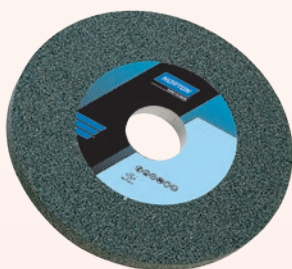
FEATURES

- High purity black silicon carbide abrasive
- Harder & more friable than aluminum oxide abrasive

BENEFITS

- Suitable for roughing operations in coarse grit & resinoid wheels
- Ideal for grinding & sharpening applications on metal carbide & non-ferrous metals

39C



FEATURES

- Highest purity green silicon carbide abrasive
- Harder & more friable than aluminium oxide abrasive

BENEFITS

- Ideal for precision grinding & sharpening applications on metal carbide

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STRAIGHT WHEELS

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
80x20x20	01	35	50	38A 60 L VS3	69210431529	BETTER
80x25x13	01	35	10	39C 60 M V	66253051623	GOOD
	01	45	10	37C 60 N V	69936668764	GOOD
80x25x12,7	01	45	6	39C 60 M V	66253051624	GOOD
100x10x20	01	45	2	38A 60 M VS	69936640015	GOOD
100x10x32	01	45	2	39C 80 L VS	66253050380	GOOD
100x13x32	01	45	2	38A 60 L VS	66253050409	GOOD
100x20x32	01	45	2	38A 60 L VS	66253050413	GOOD
125x6x32	01	35	5	38A 60 L VS	66253050440	GOOD
125x8x20	01	33	5	38A 60 L VS3	69210431218	BETTER
125x10x20	01	45	2	38A 60 M VS	69936640158	GOOD
125x10x32	01	45	2	38A 60 L VS	69936675731	GOOD
125x13x32	01	45	5	3SG 60 J VX	66253050290	BEST
125x16x20	01	33	5	25A 60 L VS3	69210431230	BETTER
	01	33	5	37C 60 K VK	69210431231	GOOD
	01	45	2	38A 60 M VS	69936640310	GOOD
125x16x32	01	45	2	38A 60 M VS	66253050237	GOOD
	01	33	5	39C 80 L VS	66253050393	GOOD
125x16x12,7	01	33	5	39C 60 J VK	69210434203	GOOD
125x20x20	01	33	5	37C 60 K VK	69210431169	GOOD
	01	35	5	38A 60 K VBE	69210431173	GOOD
	01	33	5	25A 60 L VS3	69210431241	BETTER
	01	35	4	39C 80 K VS	69936639669	GOOD
125x20x32	01	45	2	39C 80 L VS	69936667443	GOOD
	01	32	4	38A 60 L VS	69936675736	GOOD
150x4x20	01	45	2	38A 100 M VS	69936640219	GOOD
	01	45	2	38A 60 L VS	69936675591	GOOD
	01	45	2	38A 80 N VS	69936676720	GOOD
150x4x30	01	45	2	38A 80 N VS	69936639730	GOOD
150x4x32	01	63	2	39C 120 K VS	66253050248	GOOD
	01	63	2	19A 60 M VS	69936674920	GOOD
	01	35	2	19A 60 O VS	69936675946	GOOD
150x6x20	01	35	4	38A 80 M VS	69936639372	GOOD
	01	35	4	38A 60 M VS	69936639663	GOOD
	01	45	6	39C 100 K VS	69936639768	GOOD
	01	45	2	86A 80 O VS	69936686760	GOOD
150x6x32	01	45	2	3SG 80 L VX	66253054873	BEST
	01	45	2	3SG 60 L VX	66253055040	BEST
	01	35	2	39C 120 K VS	69936675617	GOOD
	01	63	2	38A 60 L VS	69936675741	GOOD
	01	35	2	19A 60 M VS	69936675964	GOOD
150x6x31,75	01	35	2	38A 80 L VS	69936621582	GOOD
150x7x20	01	35	5	39C 80 K VS	69936639933	GOOD

ART. NO. With **VITRIUM** Revolutionary bond technology

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
150x8x20	01	35	5	37C 60 K VK	69210431420	GOOD
	01	35	5	38A 60 L VS3	69210431422	BETTER
	01	45	6	38A 60 M VS	69936638711	GOOD
	01	45	2	86A 80 O VS	69936686743	GOOD
150x8x32	01	45	2	3SG 60 J VX	66253055041	BEST
	01	45	2	38A 60 L VS	69936675743	GOOD
	01	35	5	38A 120 J VS	69936675748	GOOD
150x10x20	01	35	5	38A 60 L VS3	69210431426	BETTER
	01	45	2	38A 60 L VS	69936676539	GOOD
150x10x32	01	45	2	19A 60 O VS	66253050201	GOOD
	01	45	2	3SG 60 L VX	66253050280	BEST
	01	45	2	39C 80 K VS	66253050357	GOOD
	01	45	2	38A 80 M VS	66253050373	GOOD
	01	45	2	38A 60 K VS	66253051070	GOOD
	01	45	2	39C 120 K VS	69936675629	GOOD
	01	45	2	38A 60 L VS	69936675744	GOOD
	01	45	2	38A 120 J VS	69936675749	GOOD
150x13x20	01	45	2	38A 60 L VS	69936640299	GOOD
150x13x32	01	45	2	3SG 60 L VX	66253050142	BEST
	01	45	2	38A 60 L VS	69936639340	GOOD
	01	35	2	38A 46 L VS	69936675754	GOOD
	01	45	2	38A 60 L VS	69936675757	GOOD
	01	45	2	38A 60 N VS	69936675758	GOOD
	01	45	2	38A 80 L VS	69936675759	GOOD
	01	45	2	38A 120 J VS	69936675760	GOOD
150x13x31,75	01	35	2	38A 60 K VS3	66253353664	BETTER
	01	50	2	39C 60 K VS	69936621564	GOOD
	01	35	2	3SG 60 K VS	69936622862	BEST
150x16x20	01	35	5	25A 60 L VS3	69210431349	BETTER
	01	35	5	37C 60 K VK	69210431352	GOOD
	01	35	4	38A 60 M VS	69936639923	GOOD
	01	35	2	39C 80 K VS	69936641095	GOOD
150x16x32	01	45	5	3SG 60 L VX	66253050367	BEST
	01	45	2	38A 60 M VS	69936640238	GOOD
	01	45	2	39C 80 L VS	69936675657	GOOD
	01	45	2	39C 120 K VS	69936675659	GOOD
	01	45	2	38A 46 L VS	69936675763	GOOD
	01	45	2	38A 60 L VS	69936675764	GOOD
150x16x32	01	45	2	38A 80 L VS	69936675767	GOOD
	01	35	5	3SG 60 H VXP	69936677177	BEST

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DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
150x20x20	01	35	5	37C 60 K VK	69210431280	GOOD
	01	35	5	39C 60 K VK	69210431294	GOOD
	01	35	5	25A 60 L VS3	69210431387	BETTER
	01	35	5	39C 60 J VK	69210432298	GOOD
	01	35	4	38A 46 M VS	69936639373	GOOD
	01	35	4	39C 100 J VS	69936640003	GOOD
	01	35	4	39C 80 K VS	69936641410	GOOD
	01	45	2	SGB 60 M VX	69936678981	BETTER
150x20x32	01	45	5	38A 100 J VS	66243570493	GOOD
	01	45	2	SGB 60 K VX	66253049874	BETTER
	01	45	2	SGB 100 J VX	66253049895	BETTER
	01	45	2	3SG 60 K VX	66253050155	BEST
	01	45	2	38A 46 M VS	66253050372	GOOD
	01	45	2	38A 60 K VS	66253051065	GOOD
	01	45	2	38A 80 K VS	66253051067	GOOD
	01	35	2	37C 60 K VK	69210431299	GOOD
	01	35	2	38A 60 L VS	69936638508	GOOD
	01	45	2	38A 80 L VS	69936639416	GOOD
	01	45	2	38A 60 L VS	69936641391	GOOD
	01	45	2	38A 60 N VS	69936641392	GOOD
	01	45	2	39C 60 K VS	69936641411	GOOD
	01	45	2	39C 80 L VS	69936641413	GOOD
	01	35	2	39C 120 K VS	69936641414	GOOD
	01	35	5	38A 46 L VS	69936675771	GOOD
150x20x12,7	01	45	5	39C 60 J VK	69210434204	GOOD
150x20x31,75	01	35	2	38A 60 K VS3	66253353966	BETTER
	01	35	5	39C 100 K VS	69936623221	GOOD
150x25x20	01	35	4	38A 60 M VS	69936639805	GOOD
	01	45	2	39C 80 K VS	69936641429	GOOD
150x25x32	01	45	2	39C 80 K VS	66253050278	GOOD
	01	45	2	38A 60 M VS	66253050381	GOOD
	01	45	2	38A 60 K VS	66253050452	GOOD
	01	45	2	39C 60 K VS	69936675661	GOOD
	01	35	2	39C 120 K VS	69936675664	GOOD
	01	45	2	38A 60 L VS	69936675779	GOOD
150x3,2x32	01	45	2	19A 60 M VS	69936675941	GOOD
175x4x51	01	45	5	19A 60 M VS	66253052709	GOOD
175x20x32	01	45	2	39C 60 J VK	69210434205	GOOD
180x6x32	01	35	2	38A 60 L VS	69936675784	GOOD
180x6x31,75	01	63	2	38A 60 K VS3	66253353968	BETTER
	01	45	2	38A 46 K VS3	66253353969	BETTER
180x10x32	01	45	2	38A 80 J VS	69936675781	GOOD

ART. NO. With **VITRIUM** Revolutionary bond technology

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
180x13x32	01	45	2	3SG 120 J VX	66253054874	BEST
	01	35	2	3SG 80 J VX	66253054892	BEST
	01	45	2	3NQ 60 I VS3	66253348361	BEST
	01	45	2	2NQ 46 I VS3	66253348363	BEST
	01	35	2	SGB 60 J VX	69936639148	BETTER
	01	35	2	SGB 60 H VXP	69936639168	BETTER
	01	45	2	38A 60 J VS	69936675794	GOOD
	01	45	2	38A 60 L VS	69936675797	GOOD
	01	45	2	38A 80 L VS	69936675801	GOOD
	01	45	2	38A 120 J VS	69936675802	GOOD
	01	50	2	3SG 60 G VXP	69936677178	BEST
180x13x31,75	01	50	2	SGA 46 K VX	66253121996	BETTER
	01	63	2	SGA 60 K VS	66253121997	BETTER
	01	63	2	38A 46 K VS3	66253353972	BETTER
	01	35	2	38A 60 K VS3	66253353974	BETTER
	01	50	2	38A 100 L VS	69936623220	GOOD
	01	35	2	3SG 46 K VS	69936623227	BEST
	01	35	2	3SG 60 K VS	69936623231	BEST
	01	50	2	38A 80 L VS	69936623239	GOOD
	01	35	2	SGB 46 K VX	69936623240	BETTER
	01	50	2	39C 100 J VS	69936623248	GOOD
	01	35	2	SGB 60 K VX	69936623255	BETTER
	01	35	2	38A 60 J VS	69936623266	GOOD
	01	50	2	38A 46 J VS	69936623274	GOOD
	01	50	2	3SG 100 J VS	69936623276	BEST
	01	35	2	SGB 70 H VXP	69936623463	BETTER
180x16x32	01	45	2	38A 60 K VS	66253050453	GOOD
	01	35	2	SGB 70 G VXP	69936639169	BETTER
	01	35	2	3SG 60 H VXP	69936677179	BEST
180x16x31,75	01	35	2	SGB 100 I VX	69936679001	BETTER

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■ ■ ■ SHAPE 01						
180x20x32	01	45	2	3SG 60 H VXP	66243593654	BEST
	01	45	2	SGB 60 K VX	66253049878	BETTER
	01	45	2	SGB 46 H VXP	69936638723	BETTER
	01	45	2	32A 46 K VS	69936639590	GOOD
	01	45	2	38A 60 L VS	69936641395	GOOD
	01	45	2	39C 60 K VS	69936641415	GOOD
	01	45	2	39C 120 K VS	69936675666	GOOD
	01	35	2	38A 60 J VS	69936675810	GOOD
	01	45	2	3SG 60 J VS	69936676044	BEST
	01	50	2	39C 80 L VS	69936676582	GOOD
180x20x31,75	01	35	2	3SG 46 K VS	69936623242	BEST
	01	35	2	38A 46 L VS	69936623312	GOOD
	01	35	2	38A 60 L VS	69936623472	GOOD
	01	50	2	39C 60 K VS	69936623477	GOOD
	01	35	2	SGB 60 K VX	69936623480	BETTER
180x25x32	01	45	2	39C 80 L VS	69936667101	GOOD
	01	45	2	39C 60 K VS	69936675667	GOOD
	01	63	2	38A 60 L VS	69936675812	GOOD
200x4x32	01	45	2	19A 60 O VS	69936675986	GOOD
200x6x32	01	45	2	38A 60 M VS	66253050455	GOOD
	01	45	2	38A 80 N VS	69936639662	GOOD
	01	63	6	39C 120 K VS	69936675636	GOOD
	01	45	2	19A 60 M VS	69936675988	GOOD
	01	35	2	SGB 120 J VX	69936677029	BETTER
200x6x31,75	01	35	4	38A 120 I VS	69936640156	GOOD
200x8x20	01	35	5	SGB 60 O VX	69936688864	BETTER
200x8x32	01	35	5	38A 60 L VS3	69210431430	BETTER
	01	63	6	37C 60 K VK	69210432065	GOOD
	01	63	6	38A 60 M VS	69936658078	GOOD
	01	63	6	19A 60 M VS	69936675990	GOOD
200x10x32	01	63	2	86A 54 O VS	66253050147	GOOD
	01	35	5	38A 60 L VS3	66253348277	BETTER
	01	35	5	38A 60 K VBE	69210431394	GOOD
	01	45	2	37C 60 K VK	69210431914	GOOD
	01	45	2	SGB 60 J VX	69936639157	BETTER
	01	35	2	SGB 80 J VX	69936639158	BETTER
	01	45	2	39C 100 K VS	69936639461	GOOD
	01	45	2	39C 120 K VS	69936675637	GOOD
	01	45	2	38A 60 L VS	69936675818	GOOD
	01	35	2	38A 120 J VS	69936675819	GOOD
200x10x32	01	35	2	38A 60 N VS	69936688303	GOOD
200x10x31,75	01	35	4	38A 120 I VS	69936640286	GOOD
	01	63	2	SGB 100 I VX	69936679003	BETTER

ART. NO. With **VITRIUM** Revolutionary bond technology

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
200x13x32	01	45	2	38A 60 L VS3	66253348352	BETTER
	01	45	2	SGB 60 J VX	69936639160	BETTER
	01	45	2	38A 60 J VS	69936675821	GOOD
	01	45	2	38A 60 L VS	69936675823	GOOD
	01	45	2	39C 80 J VS	69936676152	GOOD
	01	50	2	SGB 120 J VX	69936676608	BETTER
200x13x31,75	01	50	2	SGA 46 K VX	66253122005	BETTER
	01	50	2	38A 60 K VS3	66253354044	BETTER
	01	50	2	3SG 46 K VS	69936623236	BEST
	01	35	2	3SG 60 K VS	69936623241	BEST
200x16x32	01	35	2	38A 60 L VS	69936675825	GOOD
200x16x31,75	01	45	2	38A 120 I VS	69936639656	GOOD
200x16x76,2	01	35	4	38A 60 L VS	69936675827	GOOD
200x20x20	01	45	2	39C 100 J VS	69936639897	GOOD
	01	45	2	39C 80 M VS	69936640220	GOOD
	01	35	4	39C 80 K VS	69936641417	GOOD
	01	45	5	SGB 60 M VX	69936678982	BETTER
200x20x32	01	45	2	SGB 60 K VX	66253049887	BETTER
	01	45	2	38A 46 K VS	66253051075	GOOD
	01	45	2	38A 60 K VS	66253051077	GOOD
	01	45	2	38A 80 K VS	66253051080	GOOD
	01	45	2	3NQ 46 J VQN	66253261995	BEST
	01	45	2	2NQ 60 I VS3	66253357059	BEST
	01	35	5	25A 46 L VS3	69210431318	BETTER
	01	35	5	25A 60 L VS3	69210431320	BETTER
	01	35	5	37C 120 K VK	69210431329	GOOD
	01	35	5	37C 46 K VK	69210431333	GOOD
	01	35	5	37C 80 K VK	69210431339	GOOD
	01	35	5	39C 60 J VK	69210431381	GOOD
	01	45	5	39C 60 K VK	69210431384	GOOD
	01	35	5	37C 60 J VK	69210431673	GOOD
	01	35	5	37C 60 K VK	69210431674	GOOD
	01	35	5	39C 80 K VK	69210431685	GOOD
	01	45	2	SGB 46 H VX	69936639171	BETTER
	01	35	2	SGB 60 H VXP	69936639172	BETTER
	01	45	2	38A 46 K VS	69936640300	GOOD
	01	35	2	38A 60 J VS	69936641401	GOOD
	01	45	2	38A 60 L VS	69936641402	GOOD
	01	35	2	39C 60 K VS	69936641418	GOOD

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DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■■■ SHAPE 01						
200x20x32	01	45	2	39C 80 L VS	69936641420	GOOD
	01	45	2	39C 120 K VS	69936641421	GOOD
	01	45	2	38A 46 H VS	69936675551	GOOD
	01	45	2	3SG 46 J VS	69936675951	BEST
	01	45	2	39C 80 K VS	69936676351	GOOD
	01	45	2	3SG 60 H VXP	69936677181	BEST
200x20x50	01	35	2	3SG 60 J VX	66253050362	BEST
	01	35	2	38A 60 J VS	69936639462	GOOD
	01	45	2	38A 46 K VS	69936641104	GOOD
200x20x51	01	45	2	SGB 60 J VX	69936639251	BETTER
200x20x51	01	35	2	39C 60 K VS	69936640176	GOOD
200x20x76	01	35	2	3SG 60 I VS	69936639744	BEST
	01	35	2	38A 60 I VS	69936639978	GOOD
	01	50	2	38A 46 K VS	69936641077	GOOD
200x20x31,75	01	63	2	38A 60 K VS3	66253354038	BETTER
	01	35	2	38A 46 K VS3	66253354039	BETTER
	01	50	2	3SG 60 K VS	69936623667	BEST
	01	50	2	3SG 46 K VX	69936623774	BEST
	01	35	2	SGB 70 H VXP	69936623902	BETTER
	01	35	2	3SG 60 G VSPF	69936640249	BEST
	01	45	2	38A 120 H VS	69936640514	GOOD
200x20x50,8	01	45	2	3SG 60 H VXP	66243593696	BEST
	01	45	2	38A 60 K VS	66253049967	GOOD
	01	50	2	3SG 46 I VXP	66253052711	BEST
	01	45	2	3SG 46 K VS	69936623654	BEST
	01	45	2	38A 46 J VS	69936675832	GOOD
	01	35	2	38A 60 H VS	69936675834	GOOD
	01	45	2	3SG 46 J VS	69936676018	BEST
200x20x76,2	01	45	2	3SG 46 H VX	66253050156	BEST
200x25x20	01	35	4	38A 60 K VBE	69210432867	GOOD
	01	35	2	38A 60 M VS	69936641405	GOOD
	01	45	2	39C 80 K VS	69936641422	GOOD
200x25x32	01	45	2	38A 100 J VS	66243570496	GOOD
	01	45	2	SGB 60 K VX	66253049888	BETTER
	01	45	2	39C 80 K VS	66253050276	GOOD
	01	45	2	39C 100 J VS	66253050375	GOOD

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DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
200x25x32	01	45	2	38A 60 M VS	66253051079	GOOD
	01	45	2	38A 80 K VS	66253051082	GOOD
	01	45	2	3SG 60 J VX	66253054889	BEST
	01	35	5	37C 80 K VK	69210431360	GOOD
	01	35	5	39C 60 J VK	69210431397	GOOD
	01	35	5	39C 60 K VK	69210431399	GOOD
	01	35	5	25A 60 L VS3	69210431408	BETTER
	01	35	5	37C 46 K VK	69210431421	GOOD
	01	35	5	37C 60 K VK	69210431423	GOOD
	01	35	4	38A 46 L VS	69936627127	GOOD
	01	45	2	38A 60 M VS	69936639846	GOOD
	01	45	2	38A 60 L VS	69936641407	GOOD
	01	35	2	39C 60 K VS	69936641424	GOOD
	01	45	2	39C 80 L VS	69936641427	GOOD
	01	45	2	39C 120 K VS	69936641428	GOOD
	01	35	2	39C 46 L VS	69936675639	GOOD
	01	45	2	38A 60 J VS	69936675843	GOOD
200x25x31,75	01	35	2	39C 100 K VS	69936623599	GOOD
	01	35	2	38A 60 L VS	69936623794	GOOD
	01	35	2	39C 60 K VS	69936623912	GOOD
200x32x32	01	45	2	SGB 60 K VX	66253049892	BETTER
	01	35	5	38A 46 M VS	66253052712	GOOD
	01	35	5	37C 60 K VK	69210431684	GOOD
	01	35	5	39C 60 J VK	69210432544	GOOD
	01	45	2	39C 60 K VS	69936640293	GOOD
	01	45	2	39C 80 K VS	69936667106	GOOD
	01	45	2	39C 120 K VS	69936675677	GOOD
	01	45	2	38A 60 L VS	69936675855	GOOD
225x5x60	01	45	2	38A 54 J VS	69936675859	GOOD
225x20x51	01	45	2	SGB 60 H VX	69936640943	BETTER
	01	35	2	3SG 60 H VXP	69936676452	BEST
230x5x31,75	01	63	6	19A 54 J VS	69936623905	GOOD
230x10x32	01	35	2	38A 60 M VS	69936675929	GOOD
230x25x32	01	45	2	39C 80 K VS	69936639374	GOOD
250x10x32	01	35	5	86A 54 O VS	66253050139	GOOD
	01	63	6	38A 60 L VS3	69210431945	BETTER
	01	35	1	38A 60 M VS	69936675931	GOOD
250x13x32	01	63	6	86A 54 K VS	66253050123	GOOD
	01	63	6	86A 54 O VS	66253050128	GOOD
250x13x32	01	45	1	38A 60 L VS3	66253348353	BETTER
250x13x76,2	01	35	5	3SG 60 K VS	69936623734	BEST
250x20x32	01	35	5	38A 60 L VS3	69210431009	BETTER
	01	45	1	37C 60 K VK	69210432357	GOOD

Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

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■ ■ ■ SHAPE 01						
250x20x76,2	01	45	1	38A 60 L VS	69936675862	GOOD
250x25x32	01	45	1	38A 60 L VS	66253049927	GOOD
	01	35	5	37C 60 K VK	69210431029	GOOD
	01	35	5	37C 80 K VK	69210431030	GOOD
	01	35	5	38A 46 L VS3	69210431034	BETTER
	01	35	5	39C 60 K VK	69210431068	GOOD
	01	45	5	25A 60 L VS3	69210431151	BETTER
	01	45	1	38A 60 M VS	69936639356	GOOD
	01	35	5	39C 80 L VS	69936675679	GOOD
250x25x31,75	01	35	1	39C 60 K VS	69936623664	GOOD
250x32x32	01	45	1	SGB 60 K VX	66253050162	BETTER
	01	45	1	37C 60 K VK	69210431678	GOOD
	01	45	1	39C 60 K VS	69936639837	GOOD
	01	45	1	39C 80 K VS	69936640845	GOOD
300x32x32	01	35	3	37C 60 K VK	69210431016	GOOD

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WHEELS RECESSED ONE SIDE

DIM DxTxH (mm)	P (mm)	F (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 05								
180x20x31,75	100	6	05	35	2	3SG 60 G VSPF	69936639505	BEST
	100	6	05	35	2	3SG 60 J VS	69936639808	BEST
			05	45	2	38A 60 J VS	69936640226	GOOD
180x25x31,75	105	12	05	63	2	38A 60 K VS3	66253354035	BETTER
	105	13	05	50	2	38A 46 K VS3	66253354036	BETTER
	105	12	05	35	2	3SG 46 K VS	69936621519	BEST
	105	12	05	35	2	38A 60 L VS	69936621526	GOOD
	105	12	05	35	2	38A 46 J VS	69936621529	GOOD
	105	13	05	50	2	38A 60 J VS	69936621557	GOOD
	105	13	05	50	2	3SG 60 K VS	69936621570	BEST
			05	45	2	SGB 46 K VX	69936621605	BETTER
200x25x31,75			05	35	2	3SG 60 K VS	69936621575	BEST
			05	45	2	3SG 60 G VSPF	69936640304	BEST
200x40x20	110	25	05	35	2	19A 54 L VS	69936639603	GOOD
			05	45	2	39C 80 J VS	69936640285	GOOD

STRAIGHT CUPS

DIM DxTxH (mm)	W (mm)	E (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 06								
63x40x20	10	10	06	45	10	38A 60 J VS3	66253348322	BETTER
80x40x20	10	10	06	63	6	SGB 60 L VX	66253050098	BETTER
	8	8	06	63	6	38A 60 J VS3	66253348289	BETTER
	6	8	06	32	10	38A 60 L VS3	66253348323	BETTER
			06	45	10	SGB 60 L VX	69936641494	BETTER
80x40x32	10	10	06	35	5	38A 46 J VS3	66253348326	BETTER
100x40x20	8	10	06	32	4	38A 46 L VS3	69210431242	BETTER
	8	10	06	32	4	38A 80 L VS3	69210431245	BETTER
100x40x32	13	13	06	35	2	38A 60 K VS	69936674854	GOOD
100x50x20	10	13	06	45	2	3SG 60 L VX	66253049960	BEST
	10	10	06	45	2	3SG 60 K VX	66253049965	BEST
	10	13	06	45	2	3SG 80 L VX	66253049966	BEST
	10	10	06	45	2	3SG 60 J VX	66253050069	BEST
	10	13	06	45	2	38A 80 J VS3	66253348324	BETTER
	10	10	06	45	2	38A 60 J VS3	66253348327	BETTER
	10	10	06	45	2	38A 60 I VS3	66253348629	BETTER

Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole;
P = Recess Diameter, F = Recess Depth, W = Rim Width, E = Back Thickness

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

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 SHAPE 06								
100x50x20			06	32	4	38A 120 I VS3	66253358793	BETTER
	10	10	06	32	2	38A 46 L VS3	69210431250	BETTER
			06	45	2	38A 80 L VS	69936639354	GOOD
	10	13	06	45	2	38A 60 L VS	69936639450	GOOD
	10	13	06	45	2	38A 60 M VS	69936639460	GOOD
	10	10	06	32	2	38A 80 J VS	69936639600	GOOD
			06	45	2	38A 100 K VS	69936639617	GOOD
	10	13	06	32	2	39C 80 J VS	69936640131	GOOD
			06	32	2	86A 80 M VS	69936640142	GOOD
			06	45	2	SGB 46 L VX	69936641536	BETTER
			06	45	2	SGB 60 L VX	69936676114	BETTER
100x50x32	10	10	06	45	2	35G 60 K VX	66253050073	BEST
	10	10	06	45	2	38A 60 K VS	69936674859	GOOD
125x40x31,75			06	45	2	38A 46 J VS3	66253358794	BETTER
			06	32	2	38A 60 J VS3	66253358795	BETTER
			06	35	2	38A 60 K VS	69936623645	GOOD
125x50x20			06	45	2	38A 60 L VS	69936639451	GOOD
125x50x32	13	13	06	45	2	SGB 60 J VX	66253050075	BETTER
	10	13	06	45	2	38A 60 L VS	69936639992	GOOD
	10	8	06	45	2	38A 46 K VS	69936674867	GOOD
			06	50	4	SGB 46 K VX	69936678983	BETTER
125x60x32			06	45	2	38A 46 L VS	69936640218	GOOD
125x63x32	10	10	06	32	4	86A 46 E VXP	66253051528	GOOD
	8	13	06	32	2	38A 46 L VS3	69210431266	BETTER
	10	10	06	45	2	38A 60 L VS3	69210431699	BETTER
	10	13	06	45	2	SGB 60 K VX	69936640579	BETTER
	25	16	06		2	39C 60 J V	69936668305	GOOD
150x40x32	16	13	06	45	2	38A 46 H VS	69936674872	GOOD
	16	13	06	45	2	38A 60 K VS	69936674875	GOOD
150x50x32	16	16	06	45	2	35G 46 K VX	66253050068	BEST
	16	16	06	45	2	SGB 60 K VX	66253050076	BETTER
			06	45	2	38A 46 L VS	69936639371	GOOD
	16	16	06	45	2	38A 60 K VS	69936674879	GOOD
150x50x65	20	15	06	32	2	38A 60 L VS	69936639480	GOOD
			06	32	2	39C 80 J VS	69936639798	GOOD
150x50x31,75			06	50	1	38A 46 J VS3	66253358789	BETTER
150x63x32	13	13	06	32	2	SGB 46 J VX	66253054727	BETTER
			06	45	2	38A 46 L VS	69936639880	GOOD
	16	16	06	32	2	38A 36 I VS	69936640369	GOOD
			06	45	2	38A 60 K VS	69936640370	GOOD
	16	16	06	45	2	38A 46 J VS	69936674881	GOOD
150x63x50,8	16	16	06	45	2	SGB 60 J VX	66253050082	BETTER

ART. NO. With **VITRIUM** Revolutionary bond technology

DIM DxTxH (mm)	W (mm)	E (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 06								
150x80x32	10	16	06	45	2	38A 60 L VS3	69210433236	BETTER
	20	20	06	45	2	38A 46 H VS	69936674905	GOOD
	20	20	06	63	2	SGB 46 G VXP	69936676357	BETTER
175x75x76,2	20	20	06	45	2	SGB 46 G VXP	66253050097	BETTER
	20	20	06	32	1	38A 36 I VS	69936681747	GOOD
180x63x50,8	16	16	06	45	2	SGB 46 J VX	66253050084	BETTER
180x76x32	16	16	06	45	2	38A 36 I VS	69936639449	GOOD
	16	16	06	45	2	3SG 36 I VX	66253049962	BEST
	16	16	06	45	2	38A 36 I VS3	66253348321	BETTER
	16	16	06	45	2	38A 46 I VS	69936639533	GOOD
	16	16	06	32	2	38A 46 H VS	69936639616	GOOD
			06	45	2	32A 46 I VS	69936640090	GOOD
180x80x32	16	16	06	63	6	38A 46 H VS	69936674889	GOOD
200x40x32	45	15	06	45	2	38A 46 L VS	66243570536	GOOD
	45	15	06	45	2	38A 60 L VS	66243570537	GOOD
200x40x76,2	40	13	06	45	2	SGB 60 L VX	66253050087	BETTER
	40	13	06	45	2	39C 60 J V	69936668347	GOOD
	40	13	06	35	1	38A 46 M VS	69936674890	GOOD
200x63x50,8	20	20	06	45	2	38A 36 H VS	69936674896	GOOD
	20	20	06	45	2	38A 46 H VS	69936674898	GOOD
200x82x78	16	20	06	45	2	3SG 36 I VX	66253049964	BEST
	16	20	06	45	2	38A 36 H VS3	66253348319	BETTER
	16	20	06	45	2	38A 46 H VS3	66253348325	BETTER
			06	32	1	SGB 36 H VXP	69936679013	BETTER
200x100x51			06	45	1	38A 36 H VBE	69210438349	GOOD
300x63x127	40	20	06	35	3	39C 60 J V	69936668365	GOOD

Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole;
W = Rim Width, E = Back Thickness

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

BONDED
ABRASIVES

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ABRASIVES

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TAPER CUPS

DIM DxTxH (mm)	W (mm)	E (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 11								
80x32x20	6	8	11	45	6	SGB 60 L VX	66253050137	BETTER
100x40x20	8	10	11	32	4	3SG 60 K VX	66253050110	BEST
	8	10	11	32	4	38A 46 L VS3	69210431233	BETTER
	8	10	11	45	2	38A 46 K VS3	69210431246	BETTER
	8	10	11	32	2	38A 60 K VS	69936686170	GOOD
			11	45	2	SGB 46 L VX	69936686734	BETTER
	8	10	11	32	2	38A 60 L VS	69936688495	GOOD
100x40x32	8	10	11	45	2	3SG 60 K VX	66253050114	BEST
	8	10	11	45	2	2NQ 46 J VS3	66253348633	BEST
	8	10	11	35	2	38A 60 K VS	69936686169	GOOD
100x40x31,75			11	35	2	38A 60 J VS3	66253358216	BETTER
			11	32	2	38A 46 J VS3	66253358217	BETTER
			11	32	2	3SG 46 K VS	69936624034	BEST
			11	32	2	3SG 54 K VS	69936624036	BEST
			11	32	2	3SG 60 K VS	69936624043	BEST
			11	45	2	38A 54 K VS	69936624609	GOOD
125x40x32	8	10	11	45	2	38A 80 L VS3	69210431282	BETTER
	8	10	11	45	2	SGB 46 J VX	69936682429	BETTER
	8	10	11	45	2	38A 46 K VS	69936686175	GOOD
	8	10	11	32	2	38A 60 K VS	69936686176	GOOD
	8	10	11	35	2	3SG 46 K VS	69936686641	BEST
125x40x31,75			11	35	2	38A 46 J VS3	66253358218	BETTER
			11	45	2	38A 60 J VS3	66253358219	BETTER
			11	45	2	38A 54 K VS	69936625578	GOOD
125x45x20			11	32	2	3SG 46 K VX	66253055954	BEST
			11	45	2	32A 46 K VS	69936682367	GOOD
	6	13	11	50	10	SGB 60 K VX	69936686736	BETTER
150x50x32	10	13	11	45	2	SGB 46 J VX	66253050133	BETTER
	10	13	11	32	2	SGB 60 K VX	66253050134	BETTER
	10	13	11	45	2	38A 60 K VS	69936682576	GOOD
	10	13	11	45	2	38A 46 K VS	69936686177	GOOD
100/80x40x31,75	6	13	11	32	2	38A 60 J VS3	66253348630	BETTER

DISHES

DIM DxTxH (mm)	W (mm)	E (mm)	J (mm)	K (mm)	U (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 12											
80x10x13	4	6	35	35	2,5	12	35	50	38A 60 K VS3	66253348375	BETTER
100x13x20	5	7	45	50	2,5	12	45	2	3SG 60 K VX	66253050236	BEST
	5	7	41	41	3,2	12	35	2	38A 60 J VS3	66253348382	BETTER
						12	45	2	3SG 60 L VS	69936682502	BEST
125x13x20	6	7	61	61	3,2	12	45	2	2NQ 60 J VS3	66253348378	BEST
	6	7	61	61	3,2	12	33	5	38A 60 J VS3	66253348488	BETTER
	6	7	61	61	3,2	12	45	2	3SG 60 J VX	69936686768	BEST
125x13x32	6	6	61	61	3,2	12	45	5	38A 60 L VS3	69210432313	BETTER
	6	6	61	61	3,2	12	45	2	38A 80 K VS3	69210433194	BETTER
150x13x20	7	9	86	86	3,2	12	45	2	3SG 60 L VX	66253050231	BEST
	8	9	56	56	3,2	12	45	2	SGB 60 K VS3	66253348379	BEST
	8	9	56	56	3,2	12	35	2	SGB 46 K VS3	66253348384	BEST
150x13x32	7	9	86	86	3,2	12	45	2	3SG 46 K VX	66253050238	BEST
	7	9	86	86	3,2	12	45	2	3SG 60 K VX	66253050239	BEST
	7	9	86	86	3,2	12	35	4	38A 60 J VS3	66253348380	BETTER
	7	9	86	86	3,2	12	63	2	38A 46 K VS	69936686194	GOOD
150x13x31,75						12	35	5	3SG 60 K VS	69936624608	BEST
150x16x20						12	45	2	SGB 60 L VX	69936686710	BETTER
150x16x32	8	9	66	66	3,2	12	45	5	38A 60 L VS3	69210431439	BETTER
	8	9	66	66	3,2	12	35	4	38A 46 L VS3	69210431834	BETTER
150x20x32	8	11	87	87	3,2	12	45	2	SGB 60 K VX	66253050245	BETTER
175x18x32	9	8	90	90	3,2	12	45	5	38A 60 K VS3	69210431517	BETTER
	9	8	90	90	3,2	12	35	5	38A 60 L VS3	69210431859	BETTER
200x20x32	10	12	90	90	3,2	12	35	5	38A 46 L VS3	69210431518	BETTER
	10	12	90	90	3,2	12	45	2	38A 60 K VS	69936686215	GOOD
250x25x32	11	12	100	100	3,2	12	35	5	38A 46 L VS3	69210431432	BETTER

Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole, W: Rim Width;
E: Back Thickness, J: External Flat Diameter, K: Internal Flat Diameter, U: Rim Depth

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

BONDED
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ABRASIVESDIAMOND
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POLISHING
& MASKINGPERSONAL
PROTECTION
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SAW SHARPENING

Manufactured using Norton's market leading technologies, our vitrified saw sharpening wheels are designed to ensure better grinding performance.

Using premium quality abrasives and bonds, our products are intended to lower overall manufacturing and regrounding costs in all forestry and saw markets.

For Saw Sharpening, please take note of the safety instructions, about the storage and use of grinding wheels, available on page 538.



See a small selection of our new range of Saw Sharpening wheels with the revolutionary bond below



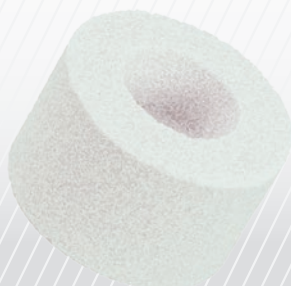
	STEELS						
	CHROME PLATE	HIGH SPEED STEEL	INOX	STEEL - SOFT (UP TO 45RC)	STEEL HARDENED (OVER 56RC)	STEEL HIGH CARBON / HIGH CHROME CONTENT	STELLITE
NQ	X	X	X	X	X	X	X
SG / GF		X		X	X		
19A / 57A				X			
25A / 86A / 32A				X	X		
38A	X	X		X	X	X	X
39C			X				

EXAMPLE OF SPECIFICATIONS

MATERIAL	TYPE OF TOOTH	OPERATION	RESIN	WHEEL GRADE	REFERENCE	RECOMMEND. SPEC
High quality steel	Large	All	None	Soft	MTVS	19A 60 MVS MTVS
Standard quality steel	Small	All	None	Hard	MDVS	19A 60 OVS MDVS
Standard quality steel	Double cut	Finishing	1mm resin coated on one side	Soft	T6	38A 60 MVS T6
Treated steel	Swage	Roughing		Medium	M6	86A 54 KVS M6
		Finishing		Soft	T6	38A 60 MVS T6
Stellite tipped	Stellite tipped	Finishing		Soft	T6	38A 60 MVS T6
		Roughing		Medium	M6	86A 54 KVS M6
		Truing		Hard	D6	86A 54 OVS D6

NORTON QUANTUM WITH VITRIUM³ 5NQ

REVOLUTIONARY BOND TECHNOLOGY



FEATURES

- Engineered ceramic grain shape and chemistry with new revolutionary bond
- Perfect combination of sharpness and toughness

BEST +++++

INNOVATION



BENEFITS

- Extreme versatility for all precision applications
- Reduced dressing frequency and cost
- High profile accuracy
- Cooler cut and high speed material removal

NORTON QUANTUM 3NQ / 2NQ



FEATURES

- Engineered ceramic grain shape and chemistry with new bond technology
- A perfect blend between sharpness (free cutting) and toughness (life)

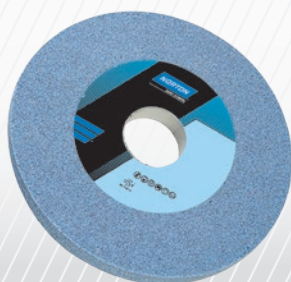
BEST +++++



BENEFITS

- Versatile in all low, medium and high force applications
- 30% to 100% higher metal removal rate
- >15% lower threshold power

SG 3SG



FEATURES

- High concentration of SG ceramic aluminum oxide abrasive
- Unique, self sharpening, microcrystalline structure

BENEFITS

- Very good cutting capability
- High removal rate & extended wheel life
- Suitable for very hard steels

BONDED
ABRASIVES

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38A WITH VITRIUM³

REVOLUTIONARY BOND TECHNOLOGY

BETTER ++++

VITRIUM 



FEATURES

- High purity white aluminium oxide abrasives with enhanced bond adhesion
- High friability abrasive

BENEFITS

- Even cooler & burn free cutting
- Extended wheel life
- Improved profile accuracy
- Ideal for heat sensitive applications with light to moderate feed rates

SG SGB



FEATURES

- Medium concentration of SG ceramic aluminum oxide
- Harder & sharper than conventional abrasive grains

BENEFITS

- Good cutting capability
- Suitable for low to medium power machines
- Very versatile on a wide variety of steels

38A

GOOD +++



FEATURES

- High purity white aluminium oxide abrasive
- Friable

BENEFITS

- Cool & burn free cutting
- Ideal for heat-sensitive applications with light to moderate feed rates

86A



FEATURES

- Highly refined pink aluminium oxide abrasive
- Tougher abrasive than pure white aluminium oxide
- Contains a small portion of chromium oxide

BENEFITS

- Very versatile
- Reduced dress frequency

19A



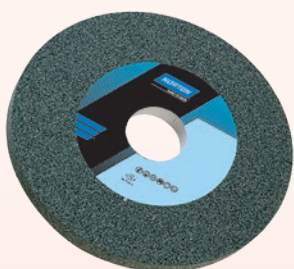
FEATURES

- A blend of A & 38A abrasives
- Primarily used in saw grinding applications

BENEFITS

- Very versatile. For use on a wide variety of steels
- Good yield, good removal rate
- Good balance between cut rate & form holding ability

39C



FEATURES

- Highest purity green silicon carbide abrasive
- Harder & more friable than aluminium oxide abrasive

BENEFITS

- Ideal for precision grinding & sharpening applications on metal carbide

BONDED
ABRASIVES

SUPER
ABRASIVES

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STRAIGHT WHEELS

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 01		 SHAPE 01C				
125x6x32	01	35	5	38A 60 L VS	66253050440	GOOD
125x8x20	01	33	5	38A 60 L VS3	69210431218	BETTER
150x3x30	01	35	10	38A 80 L VS3	66243541074	BETTER
150x3x32	01	35	10	38A 80 L VS3	66243541080	BETTER
150x3,2x32	01	45	2	19A 60 M VS	69936675941	GOOD
150x4x20	01	35	10	38A 80 L VS3	66243541077	BETTER
	01	45	2	38A 100 M VS	69936640219	GOOD
	01	45	2	38A 60 L VS	69936675591	GOOD
	01	45	2	38A 80 N VS	69936676720	GOOD
150x4x30	01	45	2	38A 80 N VS	69936639730	GOOD
150x4x32	01	35	10	SGB 80 K VS3	66243541066	BETTER
	01	35	10	38A 80 L VS3	66243541079	BETTER
	01	63	2	19A 60 M VS	69936674920	GOOD
	01	35	2	19A 60 O VS	69936675946	GOOD
150x6x20	01	45	2	86A 80 O VS	69936686760	GOOD
150x6x32	01	45	10	SGB 80 K VS3	66243541083	BETTER
	01	35	10	SGB 60 K VS3	66243541070	BETTER
	01	45	2	3SG 80 L VX	66253054873	BEST
	01	45	2	3SG 60 L VX	66253055040	BEST
	01	35	2	39C 120 K VS	69936675617	GOOD
	01	63	2	38A 60 L VS	69936675741	GOOD
	01	35	2	19A 60 M VS	69936675964	GOOD
150x6x38	01	35	10	SGB 60 K VS3	66243541082	BETTER
150x8x20	01	35	5	38A 60 L VS3	69210431422	BETTER
	01	45	2	86A 80 O VS	69936686743	GOOD
150x8x32	01	45	2	3SG 60 J VX	66253055041	BEST
	01	45	10	38A 60 L VS3	66243541068	BETTER
	01	45	2	38A 60 L VS	69936675743	GOOD
	01	35	5	38A 120 J VS	69936675748	GOOD
150x10x20	01	35	5	38A 60 L VS3	69210431426	BETTER
150x10x32	01	45	10	38A 60 L VS3	66243541071	BETTER
	01	45	10	SGB 60 K VS3	66243541072	BETTER
	01	45	2	19A 60 O VS	66253050201	GOOD
	01	45	2	38A 120 J VS	69936675749	GOOD
150x13x32	01	45	2	38A 60 N VS	69936675758	GOOD
	01	45	2	38A 120 J VS	69936675760	GOOD
175x3x51	01	35	10	38A 60 L VS3	66243541075	BETTER
175x4x51	01	45	5	19A 60 M VS	66253052709	GOOD
175x6x51	01	35	10	38A 60 L VS3	66243541069	BETTER
180x6x32	01	35	2	38A 60 L VS	69936675784	GOOD
180x10x32	01	45	2	38A 80 J VS	69936675781	GOOD
180x13x32	01	45	2	3SG 120 J VX	66253054874	BEST
	01	35	2	3SG 80 J VX	66253054892	BEST
	01	45	2	3NQ 60 I VS3	66253348361	BEST
	01	45	2	2NQ 46 I VS3	66253348363	BEST
	01	35	2	SGB 60 J VX	69936639148	BETTER
	01	45	2	38A 60 J VS	69936675794	GOOD
	01	45	2	38A 60 L VS	69936675797	GOOD
	01	45	2	38A 80 L VS	69936675801	GOOD
	01	45	2	38A 120 J VS	69936675802	GOOD

ART. NO. With **VITRIUM** Revolutionary bond technology

STRAIGHT WHEELS

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 01		 SHAPE 01C				
200x1,5x32	01	63	10	SGB 80 K VS3	66253354585	BETTER
200x2x32	01	35	10	38A 80 L VS3	66243541085	BETTER
	01	63	10	SGB 80 K VS3	66253354586	BETTER
200x2,5x32	01	63	10	SGB 80 K VS3	66253354587	BETTER
200x3x32	01	35	10	38A 80 L VS3	66243541084	BETTER
	01	63	10	SGB 80 K VS3	66253354588	BETTER
200x4x32	01	35	10	SGB 80 K VS3	66243541087	BETTER
	01	45	2	19A 60 O VS	69936675986	GOOD
200x6x20	01	35	10	38A 60 L VS3	66243541081	BETTER
200x6x32	01	35	10	38A 60 K VS3	66243541076	BETTER
	01	35	10	SGB 60 K VS3	66243541086	BETTER
	01	45	2	38A 60 M VS	66253050455	GOOD
	01	45	2	38A 80 N VS	69936639662	GOOD
	01	45	2	19A 60 M VS	69936675988	GOOD
	01	35	2	SGB 120 J VX	69936677029	BETTER
200x8x20	01	35	10	38A 60 L VS3	66243541090	BETTER
200x8x32	01C	35	5	38A 60 L VS3	69210431430	BETTER
	01	35	10	SGB 60 K VS3	66243541088	BETTER
	01	35	5	38A 60 L VS3	69210431430	BETTER
	01	63	6	38A 60 M VS	69936658078	GOOD
	01	63	6	19A 60 M VS	69936675990	GOOD
200x10x20	01	35	10	38A 60 L VS3	66243541091	BETTER
200x10x32	01	63	2	86A 54 O VS	66253050147	GOOD
	01	35	5	38A 60 L VS3	66253348277	BETTER
	01	45	2	SGB 60 J VX	69936639157	BETTER
	01	35	2	SGB 80 J VX	69936639158	BETTER
	01	45	2	38A 60 L VS	69936675818	GOOD
	01	35	2	38A 120 J VS	69936675819	GOOD
200x13x32	01	63	10	38A 60 L VS3	66253348352	BETTER
	01	45	2	SGB 60 J VX	69936639160	BETTER
	01	45	2	38A 60 J VS	69936675821	GOOD
	01	45	2	38A 60 L VS	69936675823	GOOD
	01	50	2	SGB 120 J VX	69936676608	BETTER
200x16x32	01	35	2	38A 60 L VS	69936675825	GOOD
200x16x76,2	01	35	4	38A 60 L VS	69936675827	GOOD
225x5x60	01	45	2	38A 54 J VS	69936675859	GOOD
230x10x32	01	35	2	38A 60 M VS	69936675929	GOOD
250x3x32	01	35	10	SGB 80 K VS3	66243541097	BETTER
250x10x20	01	50	10	38A 60 L VS3	66243541093	BETTER
250x10x32	01C	35	5	38A 60 L VS3	69210431945	BETTER
	01	35	5	86A 54 O VS	66253050139	GOOD
	01	35	1	38A 60 M VS	69936675931	GOOD
250x13x32	01	63	10	38A 60 L VS3	66253348353	BETTER
	01	63	6	86A 54 K VS	66253050123	GOOD
	01	63	6	86A 54 O VS	66253050128	GOOD

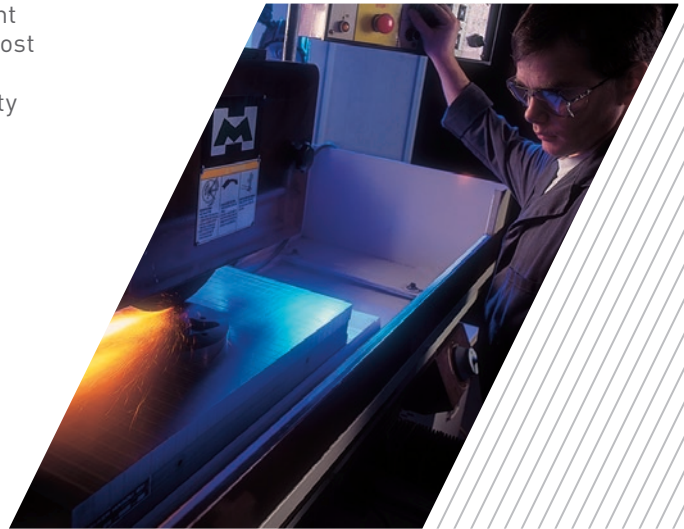
Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole

MOS: Maximum Operating Speed,
PK QTY: Packaging QuantityBONDED
ABRASIVESSUPER
ABRASIVESDIAMOND
TOOLSCLEANING,
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& MASKINGPERSONAL
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SURFACE GRINDING

Norton offers a wide range of straight wheels, straight recessed wheels, cylinders and segments with the most innovative abrasives and bonds, ensuring maximum performance, high productivity and extreme versatility for all your surface grinding applications.

For Surface Grinding, please take note of the safety instructions, about the storage and use of grinding wheels, available on page 538.



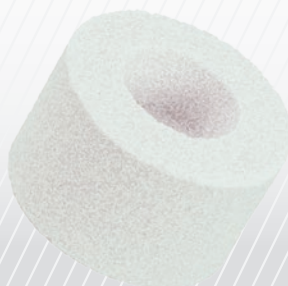
	STEELS									NON-FERROUS METALS			CERAMICS			POLYMERS	
	AEROSPACE ALLOYS: NIMONIC, INCONEL, HASTALLOY	CAST IRON	CHROME PLATE	HIGH SPEED STEEL	INOX	STEEL - SOFT (UP TO 45RC)	STEEL HARDENED (OVER 56RC)	STEEL-HIGH CARBON / HIGH CHROME CONTENT	STELLITE	ALUMINIUM	TITANIUM	TUNGSTEN CARBIDE	CERAMIC (FIRED)	CERAMIC (GREEN)	METAL SPRAY	PLASTICS	RUBBER
NQ	X	X	X	X	X	X	X	X	X							X	
SG / GF	X	X		X		X	X										
IPA	X						X									X	X
19A / 57A						X											
25A / 86A / 32A						X	X										
37C		X								X						X	X
38A	X	X	X	X		X	X	X	X					X			
39C					X					X	X	X	X	X	X		

NORTON QUANTUM WITH VITRIUM³ 5NQ

BEST +++++

INNOVATION

REVOLUTIONARY BOND TECHNOLOGY



FEATURES

- Engineered ceramic grain shape and chemistry with new revolutionary bond
- Perfect combination of sharpness and toughness

BENEFITS

- Extreme versatility for all precision applications
- Reduced dressing frequency and cost
- High profile accuracy
- Cooler cut and high speed material removal

NORTON QUANTUM 5NQ / 3NQ / 2NQ

BEST +++++



FEATURES

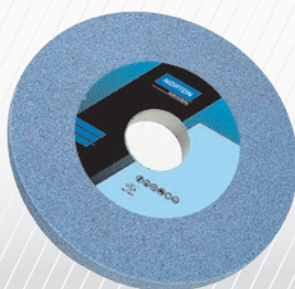
- Engineered ceramic grain shape and chemistry with new bond technology
- A perfect blend between sharpness (free cutting) and toughness (life)

BENEFITS

- Versatile in all low, medium and high force applications
- 30% to 100% higher metal removal rate
- >15% lower threshold power



SG 5SG



FEATURES

- Very high concentration of SG ceramic aluminium oxide abrasive

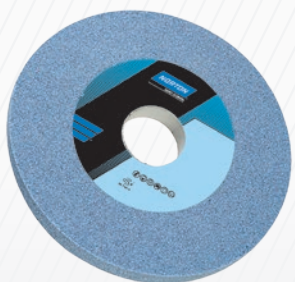
BENEFITS

- Ultimate cutting capability
- High removal rate & extended wheel life
- Perfect for technical applications where grinding parameters can be adjusted to optimise performance

BONDED
ABRASIVES

SUPER
ABRASIVES

SG 3SG



FEATURES

- High concentration of SG ceramic aluminum oxide abrasive
- Unique, self sharpening, microcrystalline structure

BENEFITS

- Very good cutting capability
- High removal rate & extended wheel life
- Suitable for very hard steels

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38A WITH VITRIUM³

REVOLUTIONARY BOND TECHNOLOGY

BETTER ++++

VITRIUM³



FEATURES

- High purity white aluminium oxide abrasives with enhanced bond adhesion
- High friability abrasive

BENEFITS

- Even Cooler & burn free cutting
- Extended wheel life
- Improved profile accuracy
- Ideal for heat sensitive applications with light to moderate feed rates



LINK TO WEBSITE
AND ANIMATION

SG SGA / SGB



FEATURES

- Medium concentration of SG ceramic aluminum oxide
- Harder & sharper than conventional abrasive grains

BENEFITS

- Good cutting capability
- Suitable for low to medium power machines
- Very versatile on a wide variety of steels

VORTEX IPA



FEATURES

- High performance engineered alumina grain
- High porosity & permeability for maximum coolant diffusion
- Optimal grain spacing for improved chip clearance & reduced friction

VORTEX

BENEFITS

- Very high metal removal rates, resulting in reduced cycle times
- Improved part quality thanks to reduced heat generation
- Increase wheel life
- Consistent grinding performance
- Extremely cool cutting action promoting burn free results

38A

GOOD +++



FEATURES

- High purity white aluminium oxide abrasive
- Friable

BENEFITS

- Cool & burn free cutting
- Ideal for heat-sensitive applications with light to moderate feed rates

BONDED
ABRASIVES

SUPER
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86A



FEATURES

- Highly refined pink aluminium oxide abrasive
- Tougher abrasive than pure white aluminium oxide
- Contains a small portion of chromium oxide

BENEFITS

- Very versatile
- Reduced dress frequency

19A



FEATURES

- A blend of A & 38A abrasives
- Primarily used in saw grinding applications

BENEFITS

- Very versatile. For use on a wide variety of steels
- Good yield, good removal rate
- Good balance between cut rate & form holding ability

39C



FEATURES

- Highest purity green silicon carbide abrasive
- Harder & more friable than aluminium oxide abrasive

BENEFITS

- Ideal for precision grinding & sharpening applications on metal carbide

37C



FEATURES

- High purity black silicon carbide abrasive
- Harder & more friable than aluminum oxide abrasive

BENEFITS

- Suitable for roughing operations in coarse grit & resinoid wheels
- Ideal for grinding & sharpening applications on metal carbide & non-ferrous metals

STRAIGHT WHEELS

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
180x16x32	01	35	2	3SG 60 H VXP	69936677179	BEST
180x20x32	01	45	2	3SG 60 H VXP	66243593654	BEST
	01	45	2	SGB 46 H VXP	69936638723	BETTER
200x16x76,2	01	35	4	38A 60 L VS	69936675827	GOOD
200x20x50	01	35	2	3SG 60 J VX	66253050362	BEST
	01	35	2	38A 60 J VS	69936639462	GOOD
	01	45	2	38A 46 K VS	69936641104	GOOD
	01	45	2	3SG 54 E VXP	69936676704	BEST
200x20x51	01	45	2	SGB 60 J VX	69936639251	BETTER
	01	35	2	39C 60 K VS	69936640176	GOOD
200x20x76	01	35	2	3SG 60 I VS	69936639744	BEST
	01	35	2	38A 60 I VS	69936639978	GOOD
	01	50	2	38A 46 K VS	69936641077	GOOD
200x20x50,8	01	45	2	3SG 60 H VXP	66243593696	BEST
	01	45	2	38A 60 K VS	66253049967	GOOD
	01	50	2	3SG 46 I VXP	66253052711	BEST
	01	45	2	3SG 46 K VS	69936623654	BEST
	01	45	2	38A 46 J VS	69936675832	GOOD
	01	35	2	38A 60 H VS	69936675834	GOOD
	01	45	2	3SG 46 J VS	69936676018	BEST
200x20x76,2	01	45	2	3SG 46 H VX	66253050156	BEST
200x25x51	01	45	2	38A 46 K VS	66253051086	GOOD
	01	50	2	38A 60 L VS	69936640125	GOOD
200x25x76,2	01	45	2	39C 60 K VS	69936675672	GOOD
	01	45	2	39C 80 L VS	69936675673	GOOD
	01	45	2	39C 120 K VS	69936675674	GOOD
	01	35	2	38A 46 L VS	69936675842	GOOD
	01	45	2	38A 60 L VS	69936675845	GOOD
200x32x51	01	45	2	38A 60 L VS	69936640245	GOOD
200x32x76,2	01	45	2	39C 80 K VS	69936675644	GOOD
225x20x51	01	45	2	SGB 60 H VX	69936640943	BETTER
	01	35	2	3SG 60 H VXP	69936676452	BEST
225x32x76,2	01	40	2	3SG 46 H VX	66253055043	BEST
230x25x50,8	01	35	5	38A 60 H VS	69936639829	GOOD
250x20x32	01	35	5	38A 60 L VS3	69210431009	BETTER
	01	45	1	37C 60 K VK	69210432357	GOOD
250x20x76,2	01	45	1	38A 60 L VS	69936675862	GOOD

Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

STRAIGHT WHEELS

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
250x25x32	01	45	1	38A 60 L VS	66253049927	GOOD
	01	35	5	37C 60 K VK	69210431029	GOOD
	01	35	5	37C 80 K VK	69210431030	GOOD
	01	35	5	38A 46 L VS3	69210431034	BETTER
	01	35	5	39C 60 K VK	69210431068	GOOD
	01	45	5	25A 60 L VS3	69210431151	BETTER
	01	45	1	38A 60 M VS	69936639356	GOOD
	01	35	5	39C 80 L VS	69936675679	GOOD
250x25x51	01	35	1	38A 60 L VS3	69210431048	BETTER
250x25x76	01	35	2	2NQ 60 G VS3	66253348365	BEST
	01	35	2	32A 46 I VS	69936639849	GOOD
	01	35	1	32A 60 I VS	69936639898	GOOD
250x25x31,75	01	35	1	39C 60 K VS	69936623664	GOOD
250x25x76,2	01	45	1	SGA 46 K VX	61463693965	BETTER
	01	45	1	38A 60 I VS	66253050101	GOOD
	01	45	1	SGB 46 K VX	66253050124	BETTER
	01	45	1	SGB 60 K VX	66253050126	BETTER
	01	45	1	3SG 60 K VX	66253055045	BEST
	01	63	2	2NQ 46 G VS3	66253348371	BEST
	01	63	2	38A 60 K VS3	66253354040	BETTER
	01	45	1	38A 46 K VS3	66253354041	BETTER
	01	45	1	38A 80 L VS	69936623651	GOOD
	01	45	1	3SG 46 K VS	69936623668	BEST
	01	35	1	SGB 70 H VXP	69936623901	BETTER
	01	35	1	38A 46 H VS	69936675867	GOOD
	01	45	1	3SG 60 L VS	69936675958	BEST
	01	45	3	3SG 54 F VXP	69936676054	BEST
250x32x32	01	45	1	SGB 60 K VX	66253050162	BETTER
	01	45	1	37C 60 K VK	69210431678	GOOD
250x32x32	01	45	1	39C 60 K VS	69936639837	GOOD
	01	45	1	39C 80 K VS	69936640845	GOOD
250x32x76	01	35	3	38A 46 L VS3	69210431001	BETTER
	01	35	1	38A 60 L VS3	69210431863	BETTER
250x32x76,2	01	45	1	3SG 46 H VX	66253055046	BEST
250x40x51	01	35	3	37C 60 K VK	69210431004	GOOD
	01	35	3	38A 60 L VS3	69210431658	BETTER
250x40x76	01	35	3	38A 60 L VS3	69210431657	BETTER
	01	45	1	38A 46 L VS3	69210432025	BETTER
250x40x76,2	01	45	1	3SG 46 I VX	66253050259	BEST
	01	45	1	3SG 46 G VXP	69936676056	BEST

ART. NO. With **VITRIUM** Revolutionary bond technology

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
300x25x127	01	50	1	SGA 60 K VX	61463693967	BETTER
	01	50	1	SGA 80 L VX	61463693973	BETTER
	01	45	1	SGA 46 K VS	61463699584	BETTER
	01	45	1	38A 60 K VS	66253050105	GOOD
	01	45	1	SGB 80 I VXP	66253050121	BETTER
	01	45	1	SGB 60 K VX	66253050132	BETTER
	01	45	1	3SG 46 K VX	66253055050	BEST
	01	45	1	3NQ 60 K VQN	66253262040	BEST
	01	63	2	2NQ 60 J VS3	66253348372	BEST
	01	63	2	38A 60 K VS3	66253354042	BETTER
	01	45	1	38A 46 K VS3	66253354043	BETTER
	01	35	1	38A 80 L VS	69936623648	GOOD
	01	45	1	38A 46 J VS	69936623662	GOOD
	01	50	1	39C 60 K VS	69936623687	GOOD
	01	45	1	19A 60 M VS	69936623719	GOOD
	01	35	1	39C 80 J VS	69936640343	GOOD
	01	45	1	39C 120 K VS	69936675646	GOOD
	01	35	1	3SG 60 H VXP	69936677184	BEST
300x32x32	01	45	1	38A 60 K VS	66253051100	GOOD
	01	35	3	37C 60 K VK	69210431016	GOOD
	01	35	3	39C 60 K VK	69210431036	GOOD
	01	45	1	25A 60 L VS3	69210431139	BETTER
300x32x127	01	45	1	3SG 60 K VX	66253055872	BEST
300x32x127	01	45	1	38A 46 H VS	69936675883	GOOD
	01	45	1	38A 60 L VS	69936675884	GOOD
	01	45	1	SGB 60 K VX	69936676386	BETTER
	01	35	1	SGB 46 F VXP	69936676705	BETTER
	01	35	1	GF 46 I VX	69936679795	GOOD
300x32x76,2	01	45	1	38A 46 H VS	69936675880	GOOD
300x40x32	01	45	1	39C 60 K VS	69936639362	GOOD
	01	35	3	39C 80 K VS	69936676387	GOOD
300x40x51	01	35	3	37C 60 K VK	69210431057	GOOD
	01	35	3	38A 60 L VS3	69210431059	BETTER
300x40x76	01	35	1	38A 60 K VS	66253049953	GOOD

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DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
300x40x127	01	45	1	SGB 60 K VX	66253050179	BETTER
	01	45	1	3SG 60 K VX	66253055053	BEST
	01	45	1	3SG 46 H VX	66253055893	BEST
	01	35	1	37C 60 K VK	69210431073	GOOD
	01	45	1	SGB 46 G VXP	69936639946	BETTER
	01	45	1	39C 80 K VS	69936675649	GOOD
	01	35	1	39C 60 K VS	69936675684	GOOD
	01	35	1	38A 46 H VS	69936675888	GOOD
	01	35	1	38A 60 L VS	69936675891	GOOD
	01	35	1	GF 60 K VX	69936680686	GOOD
300x40x31,75	01	35	1	39C 60 L VS	69936623682	GOOD
300x40x76,2	01	45	1	IPA 60 H VTX	66253049863	BETTER
300x50x127	01	45	1	SGB 46 G VXP	66243570384	BETTER
	01	35	1	38A 46 J VS	69936623649	GOOD
350x40x51	01	35	3	37C 60 K VK	69210431101	GOOD
	01	32	1	38A 60 L VS3	69210432052	BETTER
350x40x127	01	35	3	37C 60 K VK	69210431889	GOOD
350x40x127	01	35	3	37C 60 J VK	69210432038	GOOD
	01	35	1	39C 60 K VK	69210432040	GOOD
350x50x127	01	45	1	SGB 46 H VXP	66253054500	BETTER
	01	35	2	38A 80 L VS3	69210431072	BETTER
	01	35	1	37C 60 K VK	69210431686	GOOD
350x63x127	01	35	1	38A 46 L VS3	69210431074	BETTER
	01	50	1	38A 60 L VS3	69210431076	BETTER
355x25x127	01	45	1	SGA 46 J VS	61463699586	BETTER
	01	45	1	SGB 60 L VX	66253050135	BETTER
	01	50	1	3SG 60 L VX	66253055895	BEST
355x25x127	01	45	1	3SG 60 K VS	69936623716	BEST
	01	45	1	38A 60 L VS	69936675901	GOOD
355x32x127	01	35	1	2NQ 60 J VS3	66253348373	BEST
	01	35	1	3SG 80 K VS	69936638294	BEST
	01	35	1	38A 60 M VS	69936639074	GOOD
	01	45	1	38A 60 L VS	69936675903	GOOD
	01	50	1	SGB 54 E VXP	69936676713	BETTER

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
355x40x127	01	45	1	SGA 80 I VXP	61463699589	BETTER
	01	45	1	IPA 60 H VTX	66253049877	BETTER
	01	45	1	SGB 46 G VXP	66253049901	BETTER
	01	45	1	SGB 46 J VX	66253050117	BETTER
	01	45	1	3SG 60 L VX	66253055057	BEST
	01	50	1	2NQ 46 G VS3	66253348367	BEST
	01	45	1	3SG 60 K VS	69936623611	BEST
	01	35	1	38A 46 J VS	69936623753	GOOD
	01	35	1	39C 60 K VS	69936675685	GOOD
	01	45	1	38A 46 H VS	69936675906	GOOD
	01	35	1	38A 60 L VS	69936675908	GOOD
355x50x127	01	45	1	SGB 54 G VXP	66253049857	BETTER
	01	45	1	IPA 60 H VTX	66253049880	BETTER
	01	45	1	IPA 60 H VTX	66253049883	BETTER
	01	45	1	38A 60 K VS	66253049951	GOOD
	01	45	1	SGB 60 K VX	66253050138	BETTER
	01	45	1	38A 46 K VS	66253051108	GOOD
	01	45	1	3SG 46 J VX	66253055063	BEST
	01	45	1	3NQ 46 H VQN	66253262049	BEST
	01	45	2	2NQ 46 G VS3	66253348366	BEST
	01	45	1	SGB 46 J VX	69936623781	BETTER
	01	35	1	3SG 46 F VXP	69936623900	BEST
	01	45	1	38A 46 H VS	69936675912	GOOD
	01	35	1	38A 46 I VS	69936675913	GOOD
400x25x127	01	50	1	SGB 60 K VX	69936644046	BETTER
400x40x127	01	45	1	3SG 60 L VX	66243465059	BEST
	01	45	1	SGB 60 K VX	66253127873	BETTER
400x50x127	01	45	1	37C 60 K VK	69210431098	GOOD
	01	45	1	38A 60 L VS3	69210431108	BETTER
	01	45	1	38A 60 M VS3	69210431110	BETTER
400x50x203	01	50	1	38A 60 L VS3	69210431757	BETTER
406x25x127	01	45	1	SGA 80 I VXP	61463694555	BETTER
	01	45	1	3SG 60 L VX	66253055083	BEST
	01	50	1	38A 60 L VS	69936694018	GOOD
406x32x127	01	45	1	GF 60 L VX	66243469011	GOOD
	01	35	1	38A 60 L VS	66253049841	GOOD
406x40x127	01	50	1	39C 80 K VS	66243466414	GOOD
	01	45	1	SGB 60 K VX	66253049843	BETTER
	01	45	1	3SG 60 L VX	66253055086	BEST
	01	45	1	38A 60 J VS3	66253348356	BETTER

BONDED
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Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

STRAIGHT WHEELS

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
SHAPE 01						
406x50x127	01	50	1	SGA 80 I VXP	61463694556	BETTER
	01	35	1	SGA 46 K VS	61463699644	BETTER
	01	35	1	SGB 46 H VX	66243448363	BETTER
	01	45	1	5SG 46 G VXP	66243468188	BEST
	01	50	1	SGB 46 G VXP	66243468401	BETTER
	01	45	1	IPA 60 H VTX	66253049884	BETTER
	01	45	1	3SG 54 F VXP	66253054506	BEST
	01	45	1	38A 46 I VXP	66253054508	GOOD
	01	45	1	SGB 60 K VX	66253055072	BETTER
	01	50	1	3SG 46 H VX	66253055912	BEST
	01	35	1	38A 46 H VS	69936694574	GOOD
457x50x203,2	01	35	1	SGA 60 K VX	61463694560	BETTER
508x50x203,2	01	35	1	SGA 80 I VXP	61463699663	BETTER
	01	50	1	3SG 60 K VX	66253055088	BEST

CYLINDERS

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
SHAPE 02						
200x100x160	02	45	1	38A 46 G VS3	66253348386	BETTER
	02	45	2	SGB 46 H VX	69936686693	BETTER
254x100x204	02	45	1	38A 46 G VS3	66253348387	BETTER

WHEELS RECESSED ONE SIDE

DIM DxTxH (mm)	P (mm)	F (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 05								
200x25x50	110	10	05	35	2	32A 60 I VS	69936639342	GOOD
	110	10	05	35	2	32A 46 I VS	69936639420	GOOD
	110	10	05	35	2	3SG 60 I VS	69936639454	BEST
			05	45	2	38A 46 I VS	69936640254	GOOD
225x25x51			05	45	2	SGB 54 F VXP	69936640023	BETTER
250x32x76			05	45	1	32A 46 I VS	69936639419	GOOD
300x40x127			05	45	1	SGA 60 K VS	61463699585	BETTER
	190	12	05	50	1	38A 60 L VS	69936621532	GOOD
	190	13	05	35	1	3SG 60 K VS	69936621533	BEST
	190	13	05	35	1	38A 46 K VS	69936639643	GOOD
			05	45	1	32A 46 I VS	69936639807	GOOD
	190	13	05	35	1	3SG 54 F VXP	69936676709	BEST
			05	35	1	GF 46 F VXP	69936679817	GOOD
300x50x127	190	12	05	35	1	38A 46 F VXP	69936676708	GOOD
	190	12	05	35	1	SGB 60 L VX	69936678989	BETTER
355x40x127	215	13	05	35	1	38A 46 I VS	69936639355	GOOD
			05	45	1	3SG 60 K VS	69936640371	BEST
	215	13	05	35	1	SGB 46 F VXP	69936679012	BETTER
			05	35	1	GF 46 I VX	69936679798	GOOD
355x50x127	215	13	05	35	1	32A 46 J VS	69936639592	GOOD
	215	13	05	35	1	38A 46 J VS	69936639621	GOOD
	215	13	05	35	1	32A 46 K VS	69936639630	GOOD
	215	13	05	35	1	32A 46 I VS	69936639756	GOOD
	215	13	05	35	1	3SG 46 I VS	69936640195	BEST
	215	13	05	35	1	SGB 46 F VXP	69936640504	BETTER
	215	13	05	35	1	SGB 54 E VXP	69936640505	BETTER
			05	45	1	38A 46 I VS	69936640875	GOOD
355x50x127	215	13	05	35	1	32A 46 E VXP	69936676715	GOOD
	215	13	05	35	1	3SG 54 E VXP	69936676717	BEST
	205	9,5	05	35	1	3SG 46 F VXP	69936676719	BEST
	215	13	05	35	1	GF 46 J VX	69936679799	GOOD
	215	13	05	35	1	GF 46 I VX	69936679800	GOOD
			05	35	1	GF 54 E VXP	69936679819	GOOD

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Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

WHEELS RECESSED ONE SIDE

DIM DxTxH (mm)	P (mm)	F (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 05								
406x40x127			05	35	1	38A 60 M VS	66243448163	GOOD
			05	45	1	32A 60 K VS	66243448202	GOOD
			05	50	1	39C 60 J VS	66243468572	GOOD
406x50x127	215	13	05	35	1	32A 60 F VBEP	66243448133	GOOD
	215	13	05	35	1	32A 46 I VS	66243448172	GOOD
	215	13	05	35	1	38A 46 I VS	66243448178	GOOD
			05	35	1	3SG 46 I VS	66243448179	BEST
	215	13	05	35	1	32A 46 J VS	66243448205	GOOD
			05	45	1	32A 36 J VS	66243448251	GOOD
	215	13	05	35	1	3SG 54 E VXP	66243448671	BEST
	215	13	05	35	1	3SG 46 F VXP	66243448690	BEST
	215	13	05	35	1	38A 46 F VXP	66243448705	GOOD
	215	13	05	35	1	32A 46 F VXP	66243448726	GOOD
			05	45	1	SGB 46 F VXP	66243448824	BETTER
			05	45	1	3SG 54 D VXP	66243467861	BEST
	215	13	05	35	1	GF 46 I VX	66243469004	GOOD
	215	13	05	35	1	GF 46 F VXP	66243469021	GOOD
			05	45	1	GF 54 E VXP	66243469022	GOOD
508x63x203,2			05	35	1	2NQ 54 D VS3P	66253357022	BEST
			05	45	1	GF 60 K VX	66243468997	GOOD

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WHEELS RECESSED BOTH SIDES

DIM DxTxH (mm)	W (mm)	E (mm)	J (mm)	U (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 07										
300x40x75					07	45	1	32A 46 J VS	69936640287	GOOD
300x40x76					07	35	1	SGB 46 F VXP	69936679010	BETTER
					07	50	1	SGA 46 I VX	69936679011	BETTER
300x50x127					07	35	1	38A 46 I VS	69936639343	GOOD
					07	35	1	32A 46 K VS	69936639504	GOOD
					07	35	1	3SG 46 I VS	69936639644	BEST
					07	35	1	32A 46 J VS	69936640846	GOOD
					07	35	1	SGB 46 F VXP	69936676523	BETTER
					07	35	1	32A 60 E VXP	69936676711	GOOD
300x50x127					07	35	1	3SG 54 E VXP	69936676712	BEST
					07	35	1	GF 46 I VX	69936680954	GOOD
					07	45	1	GF 46 F VXP	69936680955	GOOD
300x50x76,2					07	35	1	IPA 60 H VTX	66253051621	BETTER
					07	35	1	3SG 46 H VS	69936672033	BEST
					07	35	1	38A 46 H VS	69936675893	GOOD
					07	35	1	38A 46 I VS	69936675894	GOOD
					07	35	1	5SG 46 G VXP	69936676591	BEST
					07	45	1	3SG 46 H VS	69936677015	BEST
350x50x127					07	45	1	SGB 46 G VXP	66243570780	BETTER
					07	35	1	38A 60 L VS	69936675899	GOOD
					07	35	1	3SG 46 G VXP	69936677215	BEST
355x63x127					07	45	1	SGB 46 F VXP	69936676716	BETTER
406x63x127					07	50	1	GF 46 F VXP	66243449251	GOOD
406x76x127					07	35	1	38A 46 F VBEP	66243448206	GOOD
					07	35	1	32A 46 I VS	66243448354	GOOD
					07	35	1	3SG 54 E VXP	66243448665	BEST
					07	35	1	SGB 46 F VXP	66243448691	BETTER
					07	35	1	GF 46 I VX	66243469001	GOOD
					07	35	1	GF 46 F VXP	66243469016	GOOD
406x100x152,4					07	35	1	GF 46 I VX	66243449285	GOOD
					07	35	1	GF 46 F VXP	66243449286	GOOD
					07	50	1	3SG 54 E VXP	66243449287	BEST
457x80x203,2					07	35	1	SGB 46 F VXP	66243468578	BETTER
					07	45	1	GF 46 F VXP	66243469018	GOOD

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Dimensions Key: DIM: Dimensions, P: Recess Diameter, F: Recess Depth, W: Rim Width, E: Back Thickness, J: External Flat Diameter, K: Internal Flat Diameter, U: Rim Depth

MOS: Maximum Operating Speed, **PK QTY:** Packaging Quantity

SEGMENTS

DIM LxBxC (mm)	SEGMENT		SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
	A(mm)	R(mm)						
 SHAPE 31								
16x50x90	45	91	31		4	2NQ 36 H VS3	66253348492	BEST
	45	91	31		4	38A 46 G VS3	66253348493	BETTER
	45	91	31		4	2NQ 46 G VS3	66253348781	BEST
	45	91	31		4	38A 36 H VS3	66253348785	BETTER
	45	91	31		4	3NQ 46 H VQN	69083141440	BEST
16x53,5x110	47	89	31		4	38A 36 I VS	69936688485	GOOD
	47	89	31	45	1	38A 46 H VS	69936688614	GOOD
20x65x60			31		4	32A 36 I VS	69936682266	GOOD
21x59,5x121	48		31		4	38A 36 H VS3	66253348638	BETTER
	48		31		2	38A 30 H VS	69936624796	GOOD
			31		4	32A 46 H VS	69936682244	GOOD
22x60x110	54		31		4	38A 36 H VS3	66253348665	BETTER
	54		31	45	1	2NQ 36 G VS3	66253348778	BEST
25x40x300			31		1	37C 16 T V	69210431485	GOOD
			31		4	37C 36 T V	69210432327	GOOD
25x50x110	43,5		31		4	3SG 60 G VX	66253050282	BEST
	43,5		31		4	38A 46 G VS3	66253348779	BETTER
	43,5		31		4	38A 60 G VS3	66253348786	BETTER
	43,5		31		2	19A 54 I VS	69936686249	GOOD
25x65x100			31		4	32A 30 I VS	69936682494	GOOD
	56,9	205	31		4	37C 30 H V	69936688426	GOOD
			31		4	37C 36 G V	69936688530	GOOD
25x70x110	64		31		4	38A 36 I VS	69936682640	GOOD
25x70x150	64		31		4	38A 36 H VS3	66253348783	BETTER
			31		4	32A 36 H VS	69936682251	GOOD
			31		1	3SG 36 E VXP	69936688295	BEST
25x80x150			31		4	38A 36 H VBE	69210431972	GOOD
			31		4	38A 30 I VS	69936686253	GOOD
			31		4	3SG 36 E VXP	69936688321	BEST
25x80x160	80	210	31		4	3SG 30 E VXP	69936688296	BEST
25x84x120			31		2	38A 36 I VS	69936682222	GOOD

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DIM LxBxC (mm)	SEGMENT		SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
	A(mm)	R(mm)						
 SHAPE 31								
35x90x150			31		10	38A 24 H VBE	69210431976	GOOD
			31		4	3SG 36 E VXP	69936689099	BEST
38x103x150	84,8	228,6	31		4	38A 36 G VS3	66253348825	BETTER
38x103x180			31		4	3SG 36 H VX	66253050287	BEST
	94		31		4	38A 30 H VS3	66253348780	BETTER
	94		31		4	3NQ 36 H VQN	69083141453	BEST
			31		4	38A 36 H VS	69936686271	GOOD
	94		31	45	1	3SG 30 E VXP	69936688298	BEST
40x250x250			31		2	38A 100 J VBE	61463669913	GOOD
			31		2	38A 220 I VBE	66243481697	GOOD
			31		2	38A 80 J VBE	66253285298	GOOD
			31		2	38A 120 J VBE	69210432522	GOOD
			31	35	1	38A 180 J VBE	69210433559	GOOD
50x200x250			31		2	38A 120 J VBE	310404831	GOOD
			31		2	38A 150 J VBE	69210438573	GOOD
			31		2	38A 80 J VBE	66253054925	GOOD
			31	45	1	38A 120 J VBE	69210432322	GOOD

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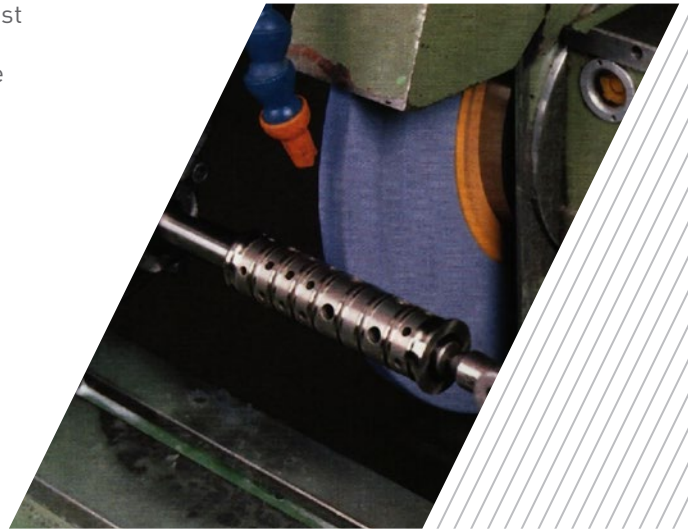
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EXTERNAL CYLINDRICAL GRINDING (OD)

Norton's leading technology, provides you with the best precision, form holding vitrified wheels to maximize productivity, increase grinding efficiency and improve part quality in all your external cylindrical grinding operations.

For OD Grinding, please take note of the safety instructions, about the storage and use of grinding wheels, available on page 538.



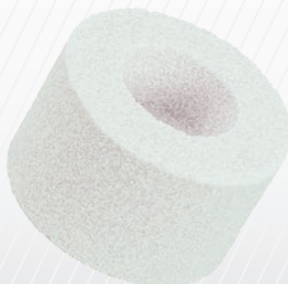
	STEELS									NON-FERROUS METALS			CERAMICS			POLYMERS	
	AEROSPACE ALLOYS: NIMONIC, INCONEL, HASTALLOY	CAST IRON	CHROME PLATE	HIGH SPEED STEEL	INOX	STEEL - 50FT (UP TO 49RC)	STEEL HARDENED (OVER 56RC)	STEEL HIGH CARBON / HIGH CHROME CONTENT	STELLITE	ALUMINIUM	TITANIUM	TUNGSTEN CARBIDE	CERAMIC (FIRE)	CERAMIC (GREEN)	METAL SPRAY	PLASTICS	RUBBER
NQ	X	X	X	X	X	X	X	X	X							X	
SG / GF	X	X		X		X	X										
19A / 57A						X											
25A / 86A / 32A						X	X										
37C		X								X						X	X
38A	X	X	X	X		X	X	X	X					X			
39C					X					X	X	X	X	X	X		

NORTON QUANTUM WITH VITRIUM³ 5NQ

BEST +++++

INNOVATION

REVOLUTIONARY BOND TECHNOLOGY



FEATURES

- Engineered ceramic grain shape and chemistry with new revolutionary bond
- Perfect combination of sharpness and toughness

BENEFITS

- Extreme versatility for all precision applications
- Reduced dressing frequency and cost
- High profile accuracy
- Cooler cut and high speed material removal

NORTON QUANTUM 3NQ / 2NQ

BEST +++++


FEATURES

- Engineered ceramic grain shape and chemistry with new bond technology
- A perfect blend between sharpness (free cutting) and toughness (life)

BENEFITS

- Versatile in all low, medium and high force applications
- 30% to 100% higher metal removal rate
- >15% lower threshold power



SG 3SG



FEATURES

- High concentration of SG ceramic aluminum oxide abrasive
- Unique, self sharpening, microcrystalline structure

BENEFITS

- Very good cutting capability
- High removal rate & extended wheel life
- Suitable for very hard steels

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38A WITH VITRIUM³

REVOLUTIONARY BOND TECHNOLOGY
BETTER ++++


FEATURES

- High purity white aluminium oxide abrasives with enhanced bond adhesion
- High friability abrasive

BENEFITS

- Even cooler & burn free cutting
- Extended wheel life
- Improved profile accuracy
- Ideal for heat sensitive applications with light to moderate feed rates

VITRIUM³

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SG SGA / SGB



FEATURES

- Medium concentration of SG ceramic aluminum oxide
- Harder & sharper than conventional abrasive grains

BENEFITS

- Good cutting capability
- Suitable for low to medium power machines
- Very versatile on a wide variety of steels

38A

GOOD +++



FEATURES

- High purity white aluminium oxide abrasive
- Friable

BENEFITS

- Cool & burn free cutting
- Ideal for heat-sensitive applications with light to moderate feed rates

19A



FEATURES

- A blend of A & 38A abrasives
- Primarily used in saw grinding applications

BENEFITS

- Very versatile. For use on a wide variety of steels
- Good yield, good removal rate
- Good balance between cut rate & form holding ability

39C



FEATURES

- Highest purity green silicon carbide abrasive
- Harder & more friable than aluminium oxide abrasive

BENEFITS

- Ideal for precision grinding & sharpening applications on metal carbide

37C



FEATURES

- High purity black silicon carbide abrasive
- Harder & more friable than aluminum oxide abrasive

BENEFITS

- Suitable for roughing operations in coarse grit & resinoid wheels
- Ideal for grinding & sharpening applications on metal carbide & non-ferrous metals

STRAIGHT WHEELS

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
300x25x127	01	50	1	SGA 60 K VX	61463693967	BETTER
	01	50	1	SGA 80 L VX	61463693973	BETTER
	01	45	1	SGA 46 K VS	61463699584	BETTER
	01	45	1	38A 60 K VS	66253050105	GOOD
	01	45	1	SGB 60 K VX	66253050132	BETTER
	01	45	1	3SG 46 K VX	66253055050	BEST
	01	45	1	3NQ 60 K VQN	66253262040	BEST
	01	63	2	2NQ 60 J VS3	66253348372	BEST
	01	63	2	38A 60 K VS3	66253354042	BETTER
	01	45	1	38A 46 K VS3	66253354043	BETTER
	01	35	1	38A 80 L VS	69936623648	GOOD
	01	45	1	38A 46 J VS	69936623662	GOOD
	01	50	1	39C 60 K VS	69936623687	GOOD
	01	45	1	19A 60 M VS	69936623719	GOOD
300x25x127	01	35	1	39C 80 J VS	69936640343	GOOD
	01	45	1	39C 120 K VS	69936675646	GOOD

Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole

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STRAIGHT WHEELS

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■■■ SHAPE 01						
300x32x127	01	45	1	3SG 60 K VX	66253055872	BEST
	01	45	1	38A 46 H VS	69936675883	GOOD
	01	45	1	38A 60 L VS	69936675884	GOOD
	01	45	1	SGB 60 K VX	69936676386	BETTER
	01	35	1	GF 46 I VX	69936679795	GOOD
300x32x76,2	01	45	1	38A 46 H VS	69936675880	GOOD
300x40x76	01	35	1	38A 60 K VS	66253049953	GOOD
300x40x127	01	45	1	SGB 60 K VX	66253050179	BETTER
	01	45	1	3SG 60 K VX	66253055053	BEST
	01	45	1	3SG 46 H VX	66253055893	BEST
	01	35	1	37C 60 K VK	69210431073	GOOD
	01	45	1	39C 80 K VS	69936675649	GOOD
	01	35	1	39C 60 K VS	69936675684	GOOD
	01	35	1	38A 46 H VS	69936675888	GOOD
	01	35	1	38A 60 L VS	69936675891	GOOD
	01	35	1	GF 60 K VX	69936680686	GOOD
300x50x127	01	35	1	38A 46 J VS	69936623649	GOOD
350x40x51	01	35	3	37C 60 K VK	69210431101	GOOD
	01	32	3	38A 60 L VS3	69210432052	BETTER
350x40x127	01	35	3	37C 60 K VK	69210431889	GOOD
	01	35	3	37C 60 J VK	69210432038	GOOD
	01	35	1	39C 60 K VK	69210432040	GOOD
350x50x127	01	35	2	38A 80 L VS3	69210431072	BETTER
	01	35	1	37C 60 K VK	69210431686	GOOD
350x63x127	01	35	1	38A 46 L VS3	69210431074	BETTER
	01	50	1	38A 60 L VS3	69210431076	BETTER
355x25x127	01	45	1	SGA 46 J VS	61463699586	BETTER
	01	45	1	SGB 60 L VX	66253050135	BETTER
	01	50	1	3SG 60 L VX	66253055895	BEST
	01	45	1	3SG 60 K VS	69936623716	BEST
	01	45	1	38A 60 L VS	69936675901	GOOD
355x32x127	01	35	1	2NQ 60 J VS3	66253348373	BEST
	01	35	1	3SG 80 K VS	69936638294	BEST
	01	35	1	38A 60 M VS	69936639074	GOOD
355x32x127	01	45	1	38A 60 L VS	69936675903	GOOD

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
355x40x127	01	45	1	SGB 46 J VX	66253050117	BETTER
	01	45	1	3SG 60 L VX	66253055057	BEST
	01	50	1	2NQ 46 G VS3	66253348367	BEST
	01	45	1	3SG 60 K VS	69936623611	BEST
	01	35	1	38A 46 J VS	69936623753	GOOD
	01	35	1	39C 60 K VS	69936675685	GOOD
	01	45	1	38A 46 H VS	69936675906	GOOD
	01	35	1	38A 60 L VS	69936675908	GOOD
355x50x127	01	45	1	38A 60 K VS	66253049951	GOOD
	01	45	1	SGB 60 K VX	66253050138	BETTER
	01	45	1	38A 46 K VS	66253051108	GOOD
	01	45	1	3SG 46 J VX	66253055063	BEST
	01	45	1	3NQ 46 H VQN	66253262049	BEST
	01	45	2	2NQ 46 G VS3	66253348366	BEST
	01	45	1	SGB 46 J VX	69936623781	BETTER
	01	45	1	38A 46 H VS	69936675912	GOOD
400x25x127	01	50	1	38A 46 I VS	69936675913	GOOD
400x40x127	01	50	1	SGB 60 K VX	69936644046	BETTER
	01	45	1	3SG 60 L VX	66243465059	BEST
400x50x127	01	45	1	SGB 60 K VX	66253127873	BETTER
	01	45	1	37C 60 K VK	69210431098	GOOD
	01	45	1	38A 60 L VS3	69210431108	BETTER
400x50x203	01	45	1	38A 60 M VS3	69210431110	BETTER
406x25x127	01	50	1	38A 60 L VS3	69210431757	BETTER
406x25x127	01	45	1	3SG 60 L VX	66253055083	BEST
406x32x127	01	50	1	38A 60 L VS	69936694018	GOOD
	01	45	1	GF 60 L VX	66243469011	GOOD
406x40x127	01	35	1	38A 60 L VS	66253049841	GOOD
457x50x127	01	50	1	39C 80 K VS	66243466414	GOOD
457x50x203,2	01	50	1	38A 60 L VS	66243466558	GOOD
500x50x203	01	35	1	SGA 60 K VX	61463694560	BETTER
500x63x203	01	45	1	38A 60 L VS3	69210431122	BETTER
508x50x203,2	01	50	1	38A 60 L VS3	69210432055	BETTER
	01	35	1	SGA 80 I VXP	61463699663	BETTER
600x90x305	01	45	1	38A 60 L VS	66243466565	GOOD
610x170x304,8	01	45	1	37C 70 K VK	66253146863	GOOD
	01	50	1	39C 120 K VS	66253366323	GOOD

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WHEELS RECESSED ONE SIDE

DIM DxTxH (mm)	P (mm)	F (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 05								
300x40x127			05	45	1	SGA 60 K VS	61463699585	BETTER
	190	12	05	50	1	38A 60 L VS	69936621532	GOOD
	190	13	05	35	1	3SG 60 K VS	69936621533	BEST
	190	13	05	35	1	38A 46 K VS	69936639643	GOOD
			05	45	1	32A 46 I VS	69936639807	GOOD
300x50x127	190	12	05	35	1	SGB 60 L VX	69936678989	BETTER
355x40x127	215	13	05	35	1	38A 46 I VS	69936639355	GOOD
			05	45	1	3SG 60 K VS	69936640371	BEST
			05	35	1	GF 46 I VX	69936679798	GOOD
355x50x127	215	13	05	35	1	32A 46 J VS	69936639592	GOOD
	215	13	05	35	1	38A 46 J VS	69936639621	GOOD
	215	13	05	35	1	32A 46 K VS	69936639630	GOOD
	215	13	05	35	1	32A 46 I VS	69936639756	GOOD
	215	13	05	35	1	3SG 46 I VS	69936640195	BEST
			05	45	1	38A 46 I VS	69936640875	GOOD
	215	13	05	35	1	GF 46 J VX	69936679799	GOOD
	215	13	05	35	1	GF 46 I VX	69936679800	GOOD
			05	35	1	38A 60 M VS	66243448163	GOOD
406x40x127			05	45	1	32A 60 K VS	66243448202	GOOD
			05	50	1	39C 60 J VS	66243468572	GOOD
			05	50	1	GF 60 L VX	66243468990	GOOD
508x63x203,2			05	45	1	GF 60 K VX	66243468997	GOOD

WHEELS RECESSED BOTH SIDES

DIM DxTxH (mm)	W (mm)	E (mm)	J (mm)	U (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 07										
300x40x76					07	50	1	SGA 46 I VX	69936679011	BETTER
300x50x127					07	35		38A 46 I VS	69936639343	GOOD
					07	35		32A 46 K VS	69936639504	GOOD
					07	35		3SG 46 I VS	69936639644	BEST
					07	35		32A 46 J VS	69936640846	GOOD
					07	35		GF 46 I VX	69936680954	GOOD
					07	35	1	3SG 46 H VS	69936672033	BEST
300x50x76,2					07	35	1	38A 46 H VS	69936675893	GOOD
					07	35	1	38A 46 I VS	69936675894	GOOD
					07	45	1	3SG 46 H VS	69936677015	BEST
					07	35	1	38A 60 L VS	69936675899	GOOD

ART. NO. With **VITRIUM**  Revolutionary bond technology

WHEELS RELIEVED ONE SIDE

DIM DxTxH (mm)	W (mm)	E (mm)	J (mm)	U (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 20										
300x32x127					20	45	1	38A 60 M VS	69936682634	GOOD
300x40x127					20	35	1	38A 60 M VS	69936682310	GOOD
					20	35	1	GF 60 M VX	69936689193	GOOD
355x32x127					20	50	1	SGB 60 L VX	69936688869	BETTER
355x40x127					20	35	1	38A 60 M VS	69936682253	GOOD
					20	50	1	38A 60 O VS	69936682695	GOOD
					20	50	1	SGB 60 L VX	69936688870	BETTER
					20	50	1	GF 60 L VX	69936689195	GOOD
355x50x127					20	50	1	38A 60 M VS	69936682268	GOOD
					20	35	1	SGB 60 L VX	69936688872	BETTER
406x40x127					20	35	1	38A 60 N VS	66243448167	GOOD
					20	45	1	GF 60 K VX	66243469015	GOOD
406x50x127					20	32	1	38A 60 M VS	66243448116	GOOD
					20	35	1	38A 60 K VS	66243448201	GOOD
					20	35	1	3SG 60 K VS	66243448204	BEST
					20	50	1	GF 60 L VX	66243468989	GOOD
					20	35	1	GF 60 K VX	66243468991	GOOD
					20	35	1	2NQ 60 J VS3	66253356830	BEST
406x63x127					20	35	1	GF 60 L VX	66243468993	GOOD
457x50x127					20	45	1	38A 60 M VS	66243448676	GOOD
					20	50	1	GF 60 L VX	66243468995	GOOD
457x63x127					20	35	1	GF 60 L VX	66243468996	GOOD
508x60x203,2					20	50	1	SGB 60 K VX	66243468575	BETTER
508x80x203,2					20	45	1	GF 60 K VX	66243468998	GOOD

Dimensions Key: DIM: Dimensions, P: Recess Diameter, F: Recess Depth, W: Rim Width, E: Back Thickness, J: External Flat Diameter, K: Internal Flat Diameter, U: Rim Depth

MOS: Maximum Operating Speed, **PK QTY:** Packaging Quantity

BONDED
ABRASIVES

SUPER
ABRASIVES

DIAMOND
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CLEANING,
POLISHING
& MASKING

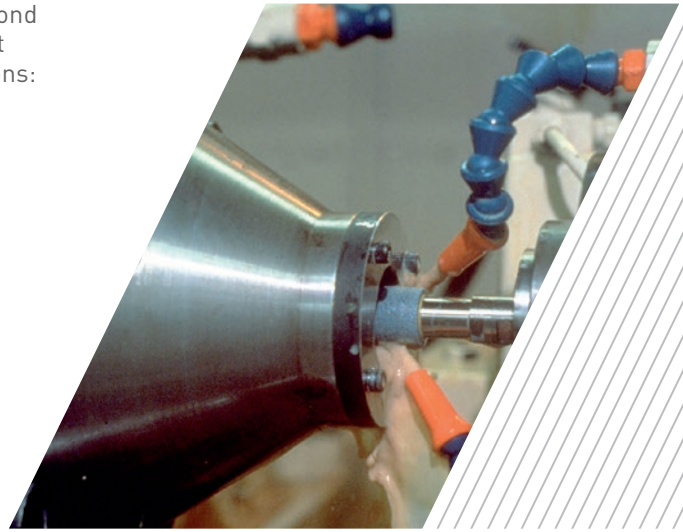
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INTERNAL CYLINDRICAL GRINDING (ID)

Fruit of historical and technical expertise, Norton's bond and abrasive grain formulations are optimized to best suit the technical request of your ID grinding operations: Perfect geometry (roundness, conicity of the part) and good surface finish.

For ID Grinding, please take note of the safety instructions, about the storage and use of grinding wheels, available on page 538.



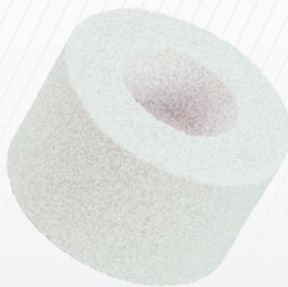
	STEELS									NON-FERROUS METALS			CERAMICS			POLYMERS	
	AEROSPACE ALLOYS: NIMONIC, INCONEL, HASTALLOY	CAST IRON	CHROME PLATE	HIGH SPEED STEEL	INOX	STEEL - SOFT (UP TO 45RC)	STEEL HARDENED (OVER 54RC)	STEEL HIGH CARBON / HIGH CHROME CONTENT	STELLITE	ALUMINIUM	TITANIUM	TUNGSTEN CARBIDE	CERAMIC (FIRE)	CERAMIC (GREEN)	METAL SPRAY	PLASTICS	RUBBER
NQ	X	X	X	X	X	X	X	X	X							X	
SG / GF	X	X		X		X	X										
25A / 86A / 32A						X	X										
37C		X								X						X	X
38A	X	X	X	X		X	X	X	X					X			
39C					X					X	X	X	X	X	X		

NORTON QUANTUM WITH VITRIUM³ 5NQ

BEST +++++

INNOVATION

REVOLUTIONARY BOND TECHNOLOGY



FEATURES

- Engineered ceramic grain shape and chemistry with new revolutionary bond
- Perfect combination of sharpness and toughness

BENEFITS

- Extreme versatility for all precision applications
- Reduced dressing frequency and cost
- High profile accuracy
- Cooler cut and high speed material removal

NORTON QUANTUM 5NQ / 3NQ

BEST +++++


FEATURES

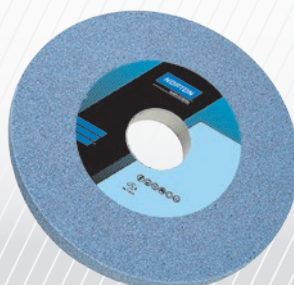
- Engineered ceramic grain shape and chemistry with new bond technology
- A perfect blend between sharpness (free cutting) and toughness (life)

BENEFITS

- Versatile in all low, medium and high force applications
- 30% to 100% higher metal removal rate
- >15% lower threshold power



SG 5SG



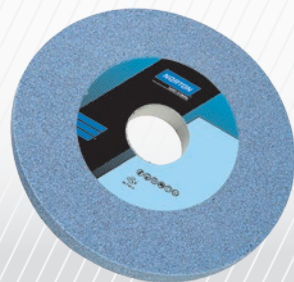
FEATURES

- Very high concentration of SG ceramic aluminium oxide abrasive

BENEFITS

- Ultimate cutting capability
- High removal rate & extended wheel life
- Perfect for technical applications where grinding parameters can be adjusted to optimise performance

SG 3SG



FEATURES

- High concentration of SG ceramic aluminum oxide abrasive
- Unique, self sharpening, microcrystalline structure

BENEFITS

- Very good cutting capability
- High removal rate & extended wheel life
- Suitable for very hard steels

38A WITH VITRIUM³

REVOLUTIONARY BOND TECHNOLOGY
BETTER ++++
VITRIUM³


FEATURES

- High purity white aluminium oxide abrasives with enhanced bond adhesion
- High friability abrasive

BENEFITS

- Even cooler & burn free cutting
- Extended wheel life
- Improved profile accuracy
- Ideal for heat sensitive applications with light to moderate feed rates

 BONDED
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SG SGB



FEATURES

- Medium concentration of SG ceramic aluminum oxide
- Harder & sharper than conventional abrasive grains

BENEFITS

- Good cutting capability
- Suitable for low to medium power machines
- Very versatile on a wide variety of steels

GOOD +++

38A



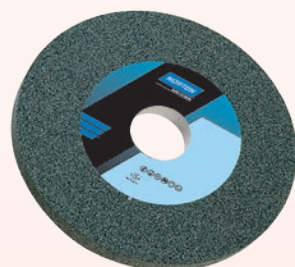
FEATURES

- High purity white aluminium oxide abrasive
- Friable

BENEFITS

- Cool & burn free cutting
- Ideal for heat-sensitive applications with light to moderate feed rates

39C



FEATURES

- Highest purity green silicon carbide abrasive
- Harder & more friable than aluminium oxide abrasive

BENEFITS

- Ideal for precision grinding & sharpening applications on metal carbide

37C



FEATURES

- High purity black silicon carbide abrasive
- Harder & more friable than aluminum oxide abrasive

BENEFITS

- Suitable for roughing operations in coarse grit & resinoid wheels
- Ideal for grinding & sharpening applications on metal carbide & non-ferrous metals

STRAIGHT WHEELS

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 01						
10x10x3,18	01	35	10	SGB 60 J VS3	66253355175	BEST
13x13x4	01	63	10	5NQ 80 K VS3	66253348357	BEST
13x13x4,76	01	63	10	SGB 60 J VS3	66253355176	BEST
16x16x6	01	35	10	5NQ 80 J VQN	66253244881	BEST
	01	35	10	3NQ 60 K VS3	66253348360	BEST
20x20x6	01	35	10	3NQ 60 L VQN	66253261903	BEST
	01	35	10	38A 60 K VS3	66253348355	BETTER
20x20x6,35	01	63	10	SGB 60 J VS3	66253355179	BEST
63x10x20	01	45	10	38A 60 N VS	66253050376	GOOD
70x7,1x17	01	45	10	3NQ 60 L VS3	66253348329	BEST
76x25x12,7	01	32	10	39C 80 IV	66253052726	GOOD
	01	45	10	37C 80 J VS	69936639604	GOOD

WHEELS RECESSED ONE SIDE

DIM DxTxH (mm)	P (mm)	F (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 05								
13x13x4,76	6	6	05	45	10	SGB 60 J VS3	66253355177	BEST
16x16x6	10	8	05	35	10	5NQ 60 K VS3	66253348333	BEST
20x20x6	13	10	05	45	10	5NQ 80 J VQN	66253244883	BEST
	13	10	05	45	10	5NQ 60 K VS3	66253348335	BEST
	13	10	05	35	10	SGB 60 K VX	69936681793	BETTER
20x20x6,35	10	10	05	63	10	5NQ 60 K VQN	66253244884	BEST
	10	10	05	35	10	SGB 60 J VS3	66253355181	BEST
			05		4	38A 60 L VS	69936621542	GOOD
25x25x8	13	10	05	35	10	5NQ 80 J VQN	66253244887	BEST
	13	12	05	35	10	5NQ 60 K VS3	66253348317	BEST
	13	10	05	45	10	SGB 60 K VX	69936681795	BETTER
25x25x6,35	13	12	05	45	10	5NQ 80 IVQN	66253244885	BEST
	13	12	05	63	10	38A 60 K VS3	66253348349	BETTER
	13	12	05		10	SGB 60 J VS3	66253355182	BEST
32x25x8	13	10	05	35	10	5NQ 60 J VQN	66253244888	BEST
32x32x8			05	35	10	5SG 60 K VS	69936639439	BEST
32x32x10			05	35	10	32A 60 K VS	69936639534	GOOD
32x32x10			05	45	10	5SG 60 K VS	69936639605	BEST

BONDED
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Dimensions Key: DIM: Dimensions, P: Recess Diameter, F: Recess Depth

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

WHEELS RECESSED ONE SIDE

DIM DxTxH (mm)	P (mm)	F (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 05								
32x32x10	16	16	05	45	10	SGB 60 J VX	69936676291	BETTER
32x32x9,53	16	16	05	63	10	5NQ 80 I VQN	66253244898	BEST
	16	16	05		10	SGB 60 J VS3	66253355183	BEST
40x25x10	16	12	05	35	15	5NQ 80 K VQN	66253244890	BEST
			05	45	10	5SG 60 K VS	69936639834	BEST
40x25x9,53	20	12	05	63	10	5NQ 60 K VQN	66253244889	BEST
	20	12	05	45	10	SGB 60 J VS3	66253355184	BEST
40x32x10	20	16	05	35	10	5NQ 60 L VQN	66253244891	BEST
40x40x10	16	20	05	63	10	5NQ 60 J VS3	66253348334	BEST
40x40x12,7	20	20	05		20	SGB 60 J VS3	66253355185	BEST
50x25x10			05	32	10	5SG 60 K VS	69936640900	BEST
50x40x16	25	20	05	35	5	5NQ 60 J VS3	66253348348	BEST
			05	45	10	32A 60 K VS	69936640179	GOOD
50x40x12,7	25	20	05	63	10	5NQ 60 K VQN	66253244892	BEST
	25	20	05	63	10	SGB 60 J VS3	66253355186	BEST
63x40x12,7	32	20	05	63	10	5NQ 80 I VQN	66253244895	BEST
	32	20	05	45	10	SGB 60 J VS3	66253355187	BEST
	32	20	05	35	10	38A 60 L VS	69936621565	GOOD
64x32x20			05	35	10	5SG 54 K VS	69936639393	BEST
64x40x20			05	35	10	32A 46 M VS	69936640984	GOOD
76x32x20	42	16	05	35	10	5NQ 60 J VQN	66253244896	BEST
			05	35	5	32A 60 K VS	69936640253	GOOD
			05	45	10	5SG 54 K VS	69936640320	BEST
100x40x32			05	45	2	32A 60 K VS	69936678998	GOOD

Dimensions Key: DIM: Dimensions, P: Recess Diameter, F: Recess Depth

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

ART. NO. With **VITRIUM** Revolutionary bond technology

BENCH AND PEDESTAL WHEELS

The Norton bench and pedestal wheels line consists of all wheel diameters and arbor sizes, abrasive types and grit sizes. Our offering answers all metal removal, deburring, shaping and sharpening needs: white aluminum oxide for high-speed tool steels, brown aluminum oxide for carbon steel, and silicon carbide for non-ferrous metals and carbide tooling.

For bench and pedestal grinding, please take note of the safety instructions, about the storage and use of grinding wheels, available on page 538.



	STEELS									NON-FERROUS METALS		
	AEROSPACE ALLOYS: NIMONIC, INCONEL, HASTALLOY	CAST IRON	CHROME PLATE	HIGH SPEED STEEL	INOX	STEEL - SOFT (UP TO 45RC)	STEEL HARDENED (OVER 54RC)	STEEL HIGH CARBON / HIGH CHROME CONTENT	STELLITE	ALUMINIUM	TITANIUM	TUNGSTEN CARBIDE
38A	X	X	X	X		X	X	X	X			
39C					X					X	X	X
A						X	X					

BONDED ABRASIVES

SUPER ABRASIVES

DIAMOND TOOLS

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STARLINE BROWN ALUMINIUM OXIDE

GOOD +++

Starline ★



For steel removal, shaping and deburring.

FEATURES

- High quality aluminium oxide in a premium vitrified bond
- Precision engineered grit sizes and hardness

BENEFITS

- Maximised cut rate finish and wheel life

STARLINE WHITE ALUMINIUM OXIDE

GOOD +++



For light material removal and sharpening of high speed tool steels.

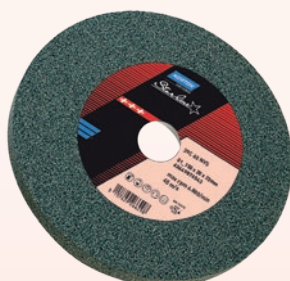
FEATURES

- White aluminium oxide in a premium vitrified bond
- Precision engineered grit sizes and hardness

BENEFITS

- Maximised cut rate and cool grinding action on hardened or high-speed tool steels

STARLINE GREEN SILICON CARBIDE



For all general purpose bench and pedestal applications on non-ferrous materials and carbide tools.

FEATURES

- Sharp green silicon carbide
- Precision engineered grit sizes and hardness

BENEFITS

- Maximised cut rate and finish on non-ferrous metals

A



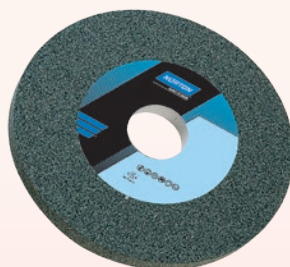
FEATURES

- Regular brown aluminium oxide abrasive
- Unique, self sharpening, microcrystalline structure

BENEFITS

- Very tough, suitable for grinding most types of steel & soft iron
- Good cost/performance compromise
- Hard wearing wheels for general purpose cylindrical off-hand bench & pedestal grinding applications

39C



FEATURES

- Highest purity green silicon carbide abrasive
- Harder & more friable than aluminium oxide abrasive

BENEFITS

- Ideal for precision grinding & sharpening applications on metal carbide

ART. NO. With **VITRIUM**  Revolutionary bond technology

38A



FEATURES

- High purity white aluminium oxide abrasive
- Friable

BENEFITS

- Cool & burn free cutting
- Ideal for heat-sensitive applications with light to moderate feed rates

STARLINE - BROWN ALUMINIUM OXIDE

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
125x20x32	01	45	2	A 46 N VS	66253289859	GOOD
125x20x32	01	45	2	A 60 N VS	66253289860	GOOD
150x20x32	01	45	2	A 46 N VS	66253289863	GOOD
150x20x32	01	45	2	A 60 N VS	66253290208	GOOD
	01	45	2	A 36 O VS	66253338141	GOOD
150x25x32	01	45	2	A 60 N VS	66253290209	GOOD
180x20x32	01	45	2	A 46 N VS	66253338021	GOOD
	01	45	2	A 60 N VS	66253338022	GOOD
200x20x32	01	45	2	A 46 N VS	66253338023	GOOD
	01	45	2	A 60 N VS	66253338024	GOOD
	01	45	2	A 36 O VS	66253338192	GOOD
200x25x32	01	45	2	A 60 N VS	66253195830	GOOD
	01	45	2	A 36 O VS	66253338025	GOOD
	01	45	2	A 46 N VS	66253338026	GOOD
250x32x32	01	45	1	A 46 N VS	66253289885	GOOD
	01	45	1	A 36 O VS	66253289887	GOOD
	01	45	1	A 60 N VS	66253338027	GOOD
300x32x32	01	45	1	A 36 O VS	66253289888	GOOD
	01	45	1	A 46 N VS	66253338029	GOOD
	01	45	1	A 60 N VS	66253338188	GOOD
300x40x127	01	45	1	A 46 N VS	66253289892	GOOD
	01	45	1	A 36 O VS	66253338031	GOOD
	01	45	1	A 60 N VS	66253338032	GOOD
350x50x127	01	45	1	A 46 N VS	66253338037	GOOD
	01	45	1	A 60 N VS	66253338038	GOOD
	01	45	1	A 36 O VS	66253338102	GOOD

Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

All wheels with diameters 100mm-200mm and a 32mm bore are supplied with plastic bushes to reduce the bore size to 20mm. For a full range of plastic bushes please refer to the Application Section.

BONDED
ABRASIVES

SUPER
ABRASIVES

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STARLINE - WHITE ALUMINIUM OXIDE

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■■■ SHAPE 01						
125x20x32	01	45	2	38A 46 N VS	66253289920	GOOD
	01	45	2	38A 60 N VS	66253338189	GOOD
150x20x32	01	45	2	38A 46 N VS	66253289922	GOOD
	01	45	2	38A 60 N VS	66253338090	GOOD
150x25x32	01	45	2	38A 60 N VS	66253338092	GOOD
180x20x32	01	45	2	38A 46 N VS	66253338093	GOOD
	01	45	2	38A 60 N VS	66253338094	GOOD
200x20x32	01	45	2	38A 46 N VS	66253338096	GOOD
	01	45	2	38A 60 N VS	66253338099	GOOD
200x25x32	01	45	2	38A 60 N VS	66253338065	GOOD
	01	45	2	38A 80 N VS	66253338066	GOOD
	01	45	2	38A 46 N VS	66253338142	GOOD
250x32x32	01	45	1	38A 46 N VS	66253338067	GOOD
	01	45	1	38A 60 N VS	66253338068	GOOD
300x32x32	01	45	1	38A 60 N VS	66253338069	GOOD
	01	45	1	38A 46 N VS	66253381592	GOOD
300x32x127	01	45	1	38A 46 N VS	66253338070	GOOD
350x50x127	01	45	1	38A 46 N VS	66253338072	GOOD
	01	45	1	38A 60 N VS	66253338073	GOOD

BONDED
ABRASIVES

SUPER
ABRASIVES

DIAMOND
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ART. NO. With **VITRIUM**  Revolutionary bond technology

STARLINE - GREEN SILICON CARBIDE

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 01						
125x20x32	01	45	2	39C 60 K VS	66253338039	GOOD
	01	45	2	39C 80 K VS	66253338040	GOOD
150x20x32	01	45	2	38A 46 N VS	66253289922	GOOD
	01	45	2	39C 60 K VS	66253338041	GOOD
	01	45	2	39C 80 K VS	66253338042	GOOD
	01	45	2	39C 120 K VS	66253338191	GOOD
150x25x32	01	45	2	39C 60 K VS	66253338044	GOOD
180x20x32	01	45	2	39C 60 K VS	66253338045	GOOD
	01	45	2	39C 80 K VS	66253338050	GOOD
	01	45	2	38A 46 N VS	66253338093	GOOD
	01	45	2	39C 120 K VS	66253338184	GOOD
200x20x32	01	45	2	39C 46 K VS	66253338051	GOOD
	01	45	2	39C 60 K VS	66253338052	GOOD
	01	45	2	39C 80 K VS	66253338053	GOOD
	01	45	2	38A 46 N VS	66253338096	GOOD
	01	45	2	39C 120 K VS	66253338185	GOOD
200x25x32	01	45	2	39C 46 K VS	66253338054	GOOD
	01	45	2	39C 60 K VS	66253338055	GOOD
	01	45	2	39C 80 K VS	66253338056	GOOD
	01	45	2	38A 46 N VS	66253338142	GOOD
250x32x32	01	45	2	39C 46 K VS	66253338057	GOOD
	01	45	1	39C 60 K VS	66253338059	GOOD
	01	45	1	39C 80 K VS	66253338060	GOOD
	01	45	1	38A 46 N VS	66253338067	GOOD
300x32x32	01	45	1	39C 60 K VS	66253338074	GOOD
	01	45	1	39C 80 K VS	66253338075	GOOD
	01	45	1	38A 46 N VS	66253381592	GOOD
300x32x127	01	45	1	38A 46 N VS	66253338070	GOOD
300x40x127	01	45	1	39C 60 K VS	66253338077	GOOD
	01	45	1	39C 80 K VS	66253338078	GOOD
350x50x127	01	45	1	38A 46 N VS	66253338072	GOOD
	01	45	1	39C 46 K VS	66253338079	GOOD
	01	45	1	39C 60 K VS	66253338080	GOOD

Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

BONDED
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& MASKING

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PROTECTION
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A - BROWN ALUMINIUM OXIDE

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■ ■ ■ SHAPE 01						
125x16x20	01	35	5	A 60 K VBE	69210431641	GOOD
125x16x12,7	01	33	5	A 60 M VBE	69210434193	GOOD
125x20x20	01	35	4	A 60 M VBE	69210431647	GOOD
	01	45	2	A 46 O VS	69936640093	GOOD
125x20x32	01	45	2	A 60 N VS	69936666909	GOOD
	01	45	2	A 46 N VS	69936675558	GOOD
150x8x20	01	35	2	A 60 N VBE	69210431708	GOOD
150x10x20	01	35	2	A 60 N VBE	69210431698	GOOD
150x16x20	01	35	2	A 60 K VBE	69210431665	GOOD
150x16x32	01	45	2	A 46 N VS	69936675560	GOOD
150x16x12,7	01	45	2	A 60 M VBE	69083134410	GOOD
150x20x20	01	35	5	A 60 M VBE	69210431497	GOOD
	01	35	4	A 36 O VBE	69210434199	GOOD
150x20x32	01	45	2	A 36 P VS	69936638515	GOOD
	01	45	2	A 36 P VS	69936641366	GOOD
	01	45	2	A 60 N VS	69936641368	GOOD
150x20x12,7	01	35	5	A 60 M VBE	69210434201	GOOD
150x20x31,75	01	35	5	A 60 I VS	69936623302	GOOD
	01	35	2	A 46 N VS	69936623469	GOOD
	01	35	2	A 60 N VS	69936623470	GOOD
150x25x32	01	35	2	A 46 N VS	69936641370	GOOD
	01	45	2	A 60 N VS	69936641371	GOOD
	01	45	2	A 36 P VS	69936666914	GOOD
180x20x32	01	35	2	A 46 N VS	69936641372	GOOD
180x25x32	01	45	2	A 46 N VS	69936675564	GOOD
200x8x32	01	35	5	A 60 N VBE	69210431736	GOOD
200x10x32	01	35	5	A 60 N VBE	69210431740	GOOD
200x20x32	01	35	5	A 60 M VBE	69210431616	GOOD
	01	45	2	A 46 N VS	69936641375	GOOD
	01	45	2	A 60 N VS	69936666929	GOOD
	01	35	2	A 30 P VS	69936675566	GOOD
200x20x31,75	01	35	2	A 60 N VS	69936623591	GOOD
	01	50	2	A 46 N VS	69936623592	GOOD
200x25x32	01	45	2	A 36 Q VS	66253050267	GOOD
	01	45	2	A 46 M VS	66253050271	GOOD
	01	45	2	A 30 P VS	69936641382	GOOD
	01	45	2	A 36 P VS	69936641383	GOOD
200x25x32	01	35	2	A 24 R VS	69936676374	GOOD
200x25x31,75	01	35	2	A 36 P VS	69936623910	GOOD
	01	35	2	A 46 N VS	69936623911	GOOD
	01	35	2	A 60 N VS	69936623913	GOOD
200x25x76,2	01	45	2	A 46 N VS	69936675568	GOOD

ART. NO. With **VITRIUM** Revolutionary bond technology

A - BROWN ALUMINIUM OXIDE

TECHNICAL
INFORMATION

MOS: Maximum Operating Speed,
PK QTY: Packaging Quantity

38A - WHITE ALUMINIUM OXIDE

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
SHAPE 01 SHAPE 05						
125x16x32	01	45	2	38A 60 M VS	66253050237	GOOD
125x20x20	01	35	5	38A 60 K VBE	69210431173	GOOD
125x20x32	01	32	4	38A 60 L VS	69936675736	GOOD
150x20x20	01	35	4	38A 46 M VS	69936639373	GOOD
150x20x32	01	45	2	38A 60 N VS	69936641392	GOOD
150x25x20	01	35	4	38A 60 M VS	69936639805	GOOD
180x20x32	01	45	2	38A 60 L VS	69936641395	GOOD
180x20x31,75	01	35	2	38A 46 L VS	69936623312	GOOD
	01	35	2	38A 60 L VS	69936623472	GOOD
180x25x32	01	63	2	38A 60 L VS	69936675812	GOOD
180x25x31,75	05	63	2	38A 60 K VS3	66253354035	BETTER
	05	50	2	38A 46 K VS3	66253354036	BETTER
	05	35	2	38A 60 L VS	69936621526	GOOD
200x20x32	01	45	2	38A 46 K VS	66253051075	GOOD
	01	45	2	38A 60 K VS	66253051077	GOOD
	01	45	2	38A 80 K VS	66253051080	GOOD
	01	45	2	38A 46 K VS	69936640300	GOOD
	01	35	2	38A 46 N VS	69936641400	GOOD
	01	45	2	38A 60 L VS	69936641402	GOOD
200x20x32	01	45	2	38A 60 N VS	69936667154	GOOD
200x20x31,75	01	63	2	38A 60 K VS3	66253354038	BETTER
	01	35	2	38A 46 K VS3	66253354039	BETTER
200x20x50,8	01	45	2	38A 60 K VS	66253049967	GOOD
200x20x50,8	01	45	2	38A 46 J VS	69936675832	GOOD
200x25x20	01	35	4	38A 60 K VBE	69210432867	GOOD
	01	35	2	38A 60 M VS	69936641405	GOOD
200x25x32	01	45	2	38A 60 M VS	66253051079	GOOD
	01	45	2	38A 80 K VS	66253051082	GOOD
	01	35	4	38A 46 L VS	69936627127	GOOD
	01	45	2	38A 60 M VS	69936639846	GOOD
	01	45	2	38A 46 N VS	69936641406	GOOD
	01	45	2	38A 60 L VS	69936641407	GOOD
	01	45	2	38A 80 N VS	69936675847	GOOD
200x25x31,75	01	35	2	38A 60 L VS	69936623794	GOOD
200x25x76,2	01	35	2	38A 46 N VS	69936675841	GOOD
	01	45	2	38A 60 N VS	69936675846	GOOD
200x32x32	01	35	5	38A 46 M VS	66253052712	GOOD
	01	45	2	38A 60 L VS	69936675855	GOOD
200x32x76,2	01	35	2	38A 46 N VS	69936675849	GOOD

ART. NO. With **VITRIUM** Revolutionary bond technology

38A - WHITE ALUMINIUM OXIDE

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 01						
250x20x32	01	35	5	38A 60 L VS3	69210431009	BETTER
250x25x32	01	45	1	38A 60 L VS	66253049927	GOOD
	01	35	5	38A 46 L VS3	69210431034	BETTER
	01	45	1	38A 60 M VS	69936639356	GOOD
	01	35	3	38A 60 N VS	69936667158	GOOD
	01	45	1	38A 60 K VS	66253051100	GOOD
300x32x32	01	45	1	38A 60 N VS	69936639618	GOOD

Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole

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BONDED
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39C - GREEN SILICON CARBIDE

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
■■■■ SHAPE 01						
125x16x32	01	33	5	39C 80 L VS	66253050393	GOOD
125x20x20	01	35	4	39C 80 K VS	69936639669	GOOD
125x20x32	01	45	2	39C 80 L VS	69936667443	GOOD
150x16x20	01	35	2	39C 80 K VS	69936641095	GOOD
150x20x20	01	35	5	39C 60 K VK	69210431294	GOOD
	01	35	5	39C 60 J VK	69210432298	GOOD
	01	35	4	39C 100 J VS	69936640003	GOOD
	01	35	4	39C 80 K VS	69936641410	GOOD
150x20x32	01	45	2	39C 60 K VS	69936641411	GOOD
	01	45	2	39C 80 L VS	69936641413	GOOD
	01	35	2	39C 120 K VS	69936641414	GOOD
150x20x31,75	01	35	5	39C 100 K VS	69936623221	GOOD
	01	35	4	39C 60 K VS	69936623474	GOOD
150x25x20	01	45	2	39C 80 K VS	69936641429	GOOD
150x25x32	01	45	2	39C 80 K VS	66253050278	GOOD
	01	45	2	39C 60 K VS	69936675661	GOOD
	01	35	2	39C 120 K VS	69936675664	GOOD
175x20x32	01	45	2	39C 60 J VK	69210434205	GOOD
180x20x32	01	45	2	39C 60 K VS	69936641415	GOOD
	01	45	2	39C 120 K VS	69936675666	GOOD
	01	50	2	39C 80 L VS	69936676582	GOOD
180x20x31,75	01	50	2	39C 60 K VS	69936623477	GOOD
180x25x32	01	45	2	39C 80 L VS	69936667101	GOOD
	01	45	2	39C 60 K VS	69936675667	GOOD
200x20x20	01	45	2	39C 100 J VS	69936639897	GOOD
	01	45	2	39C 80 M VS	69936640220	GOOD
	01	35	4	39C 80 K VS	69936641417	GOOD
200x20x32	01	45	5	39C 60 K VK	69210431384	GOOD
	01	35	5	39C 80 K VK	69210431685	GOOD
	01	35	2	39C 60 K VS	69936641418	GOOD
	01	45	2	39C 80 L VS	69936641420	GOOD
	01	45	2	39C 120 K VS	69936641421	GOOD
	01	45	2	39C 80 K VS	69936676351	GOOD
200x20x51	01	35	2	39C 60 K VS	69936640176	GOOD
200x25x20	01	45	2	39C 80 K VS	69936641422	GOOD

39C - GREEN SILICON CARBIDE

DIM DxTxH (mm)	SHAPE	MOS (m/s)	PK QTY	SPECIFICATION	ART. NO.	BEST/ BETTER/ GOOD
 SHAPE 01		 SHAPE 05				
200x25x32	01	45	2	39C 80 K VS	66253050276	GOOD
	01	35	5	39C 60 K VK	69210431399	GOOD
	01	35	2	39C 60 K VS	69936641424	GOOD
	01	45	2	39C 80 L VS	69936641427	GOOD
	01	45	2	39C 120 K VS	69936641428	GOOD
	01	35	2	39C 46 L VS	69936675639	GOOD
200x25x31,75	01	35	2	39C 100 K VS	69936623599	GOOD
	01	35	2	39C 60 K VS	69936623912	GOOD
200x32x32	01	45	2	39C 60 K VS	69936640293	GOOD
	01	45	2	39C 80 K VS	69936671106	GOOD
	01	45	2	39C 120 K VS	69936675677	GOOD
200x40x20	05	45	2	39C 80 J VS	69936640285	GOOD
230x25x32	01	45	2	39C 80 K VS	69936639374	GOOD
250x25x32	01	35	5	39C 60 K VK	69210431068	GOOD
	01	35	5	39C 80 L VS	69936675679	GOOD
250x25x31,75	01	35	1	39C 60 K VS	69936623664	GOOD
250x32x32	01	45	1	39C 60 K VS	69936639837	GOOD
	01	45	1	39C 80 K VS	69936640845	GOOD
300x32x32	01	35	3	39C 60 K VK	69210431036	GOOD
300x40x32	01	45	1	39C 60 K VS	69936639362	GOOD
	01	35	3	39C 80 K VS	69936676387	GOOD
300x40x31,75	01	35	1	39C 60 L VS	69936623682	GOOD

Dimensions Key: DIM: Dimensions, D: Diameter, T: Thickness, H: Hole

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BONDED
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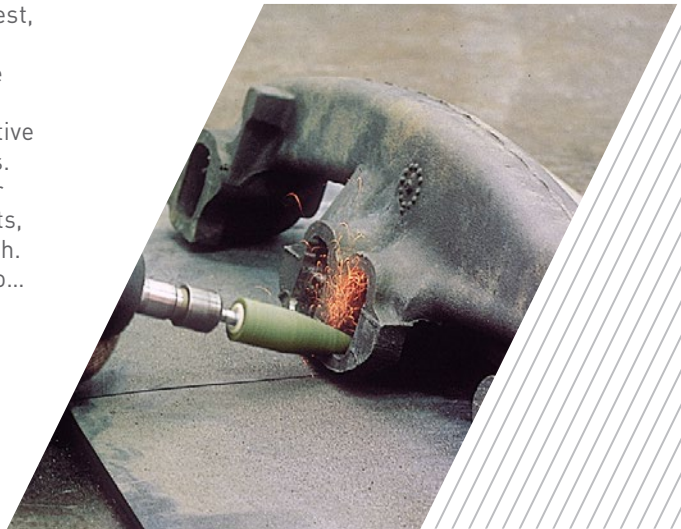
TECHNICAL
INFORMATION

MOUNTED POINTS & WHEELS

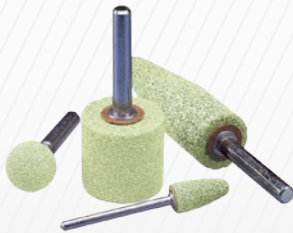
Norton Quantum (NQ) vitrified mounted points are the best, versatile choice for high volume Foundry and Aerospace operations. The unique, engineered ceramic grain shape in combination with the chemistry of the proven bond technology can provide 33%+ longer life versus competitive ceramic products with 30%+ higher metal removal rates. With minimal loading and heat build-up they are ideal for grinding Inconel and similar alloy turbine blade components, e.g. to attain final geometry and to create a uniform finish. Less pressure is needed to get optimum performance so... **Let the Norton Quantum grain do the work!**

APPLICATIONS & MARKETS

- Deburring
- Blending
- Finishing



NORTON QUANTUM NQ



FEATURES

- Unique, engineered ceramic grain shape and chemistry with proven bond technology



BEST +++++

BENEFITS

- Ideal for high-volume foundry operations – grinding Inconel and similar alloy turbine blade components
- Minimal loading and heat build-up
- 33%+ longer life vs. competitive ceramic products
- 30%+ higher metal removal rates
- Versatile, optimized for all low, medium and high force applications
- Exceptional productivity and life

86A



FEATURES

- Highly refined pink aluminium oxide abrasive
- Tougher than pure white aluminium oxide abrasive
- Good profile holding
- Contains a small portion of chromium oxide abrasive

BENEFITS

- Very versatile
- Reduced dress frequency
- Better part geometry

GOOD +++

BONDED
ABRASIVES

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MOUNTED POINTS SHAPE A

SHAPE	DIM DIAxL (mm)	SPINDLE DIAxL (mm)	MOS (RPM)	PK QTY	BEST		GOOD	
A1	20x65	6x40	15000	10	3NQ 80-OVQN	61463688951	86A 36 PVS	66253055235
	20x65	6x40	15000	10			86A 60 PVS	66253055218
A3	22x70	6x40	14000	10			86A 30 PVS	66253055021
	22x70	6x40	14000	10			86A 60 PVS	66253055212
A5	20x28	6x40	30000	10	3NQ 80-OVQN	61463688954	86A 60 PVS	66253055094
A7	30x50	6x40	13000	10			86A 30 PVS	66253055022
A8	20x50	6x40	18000	10			86A 36 PVS	66253055308
A9	30x50	6x40	13000	10			86A 30 PVS	66253055395
A10	22x70	6x40	14000	10			86A 36 PVS	66253055237
A11	21x45	6x40	18000	10	3NQ 80-OVQN	61463620969	86A 30 PVS	66253055307
	21x45	6x40	18000	10			86A 36 PVS	66253055095
	21x45	6x40	18000	10			86A 60 PVS	66253055214
A12	18x30	6x40	30000	10			86A 60 PVS	66253055096
A15	6x25	6x40	30000	10			86A 90 PVS	66253055126
A19	30x50	6x40	13000	10			86A 60 PVS	66253054961
A21	25x25	6x40	25000	10	3NQ 80-OVQN	61463688956		
A23	20x25	6x40	25000	10	3NQ 80-OVQN	61463689937		
A24	6x20	6x40	41000	10			86A 60 PVS	66253055127
A25	25x25	6x40	25000	10			86A 60 PVS	66253055128
A26	16x16	6x40	54000	10	3NQ 80-OVQN	61463688957	86A 46 PVS	66253055204
A36	40x10	6x40	25000	10	3NQ 80-OVQN	61463688960	86A 60 PVS	66253055129
A37	30x6	6x40	30000	10			86A 90 PVS	66253055313
A38	25x25	6x40	25000	10			86A 60 PVS	66253054946
A39	20x20	6x41	25000	10	3NQ 80-OVQN	61463689938		

MOUNTED POINTS SHAPE B

SHAPE	DIM DIAxL (mm)	SPINDLE DIAxL (mm)	MOS (RPM)	PK QTY	BEST		GOOD	
B44	6x10	3x40	61000	10			86A 90 PVS	66253055183
B52	10x20	3x40	41000	10	3NQ 80-OVQN	61463688963	86A 90 PVS	66253055232
B53	6x16	3x40	54000	10			86A 90 PVS	66253055305
B54	6x13	3x40	54000	10			86A 90 PVS	66253055139
B81	20x4	3x40	47000	10			86A 90 PVS	66253055140
B91	13x16	3x40	58000	10			86A 90 PVS	66253055199
B97	3x10	3x40	90000	10	3NQ 80-OVQN	61463688964	86A 90 PVS	66253055141
B121	13x13	3x40	58000	10			86A 90 PVS	66253055143
B122	10x3	3x40	58000	10	3NQ 80-OVQN	61463688965		
B123	5x5	3x40	73000	10			86A 90 PVS	66253055207
B131	13x13	3x40	58000	10	3NQ 80-OVQN	61463689939		

Dimensions Key: DIM = Dimensions, DIA = Diameter, L = Length

BONDED
ABRASIVES

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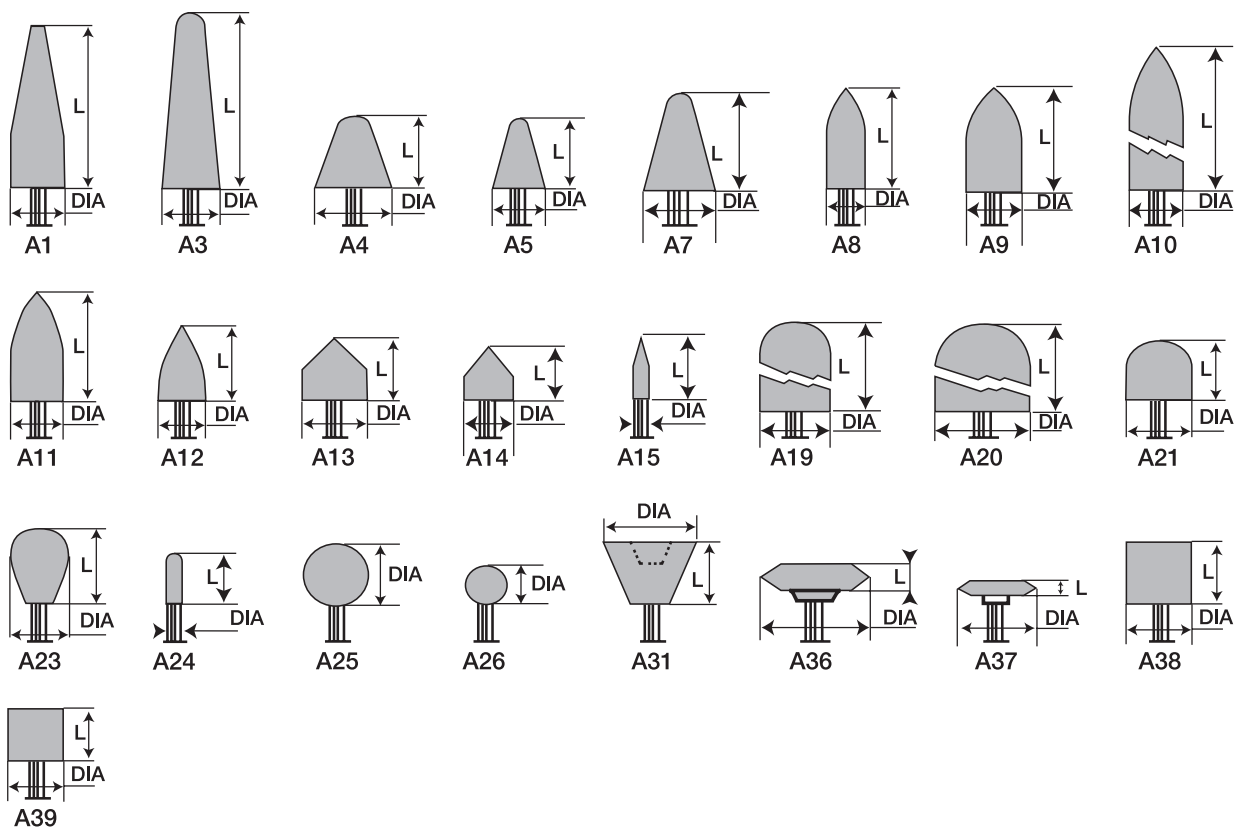
DIAMOND
TOOLS

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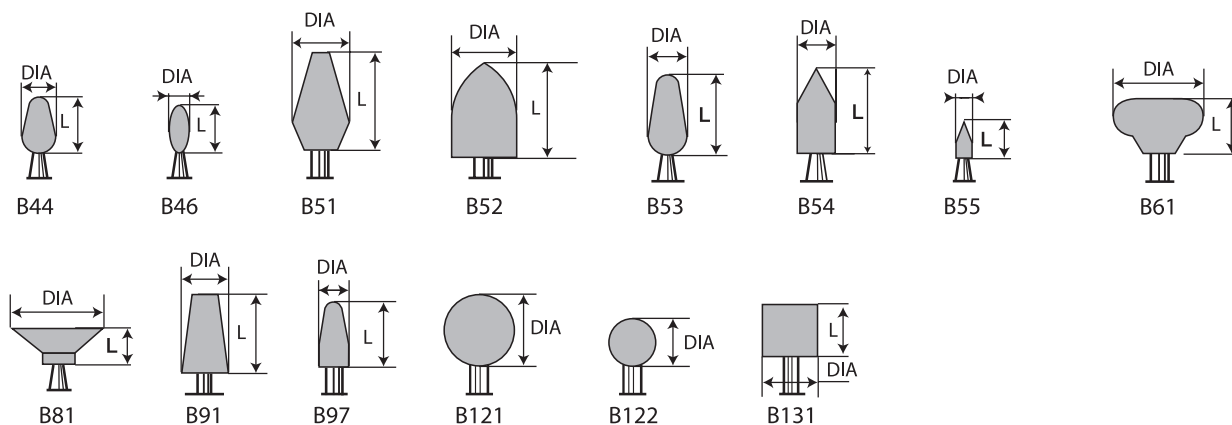
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PROTECTION
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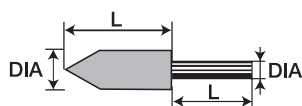
SHAPE A KEY



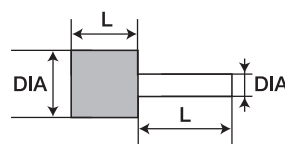
SHAPE B KEY



SHAPE C KEY



SHAPE W KEY



MOUNTED WHEELS

SHAPE	DIM DIAxL (mm)	SPINDLE DIAxL (mm)	MOS (RPM)	PK QTY	BEST		GOOD	
W144	3x6	3x40	90000	10			86A 90 PVS	66253055147
W149	4x6	3x40	80000	10			86A 90 PVS	66253055150
W153	5x10	3x40	73000	10			86A 90 PVS	66253055160
W154	5x13	3x40	70000	10	3NQ 80-OVQN	61463688966	86A 90 PVS	66253055162
W162	6x10	3x40	61000	10			86A 60 PVS	66253055166
	6x10	3x40	61000	10			86A 90 PVS	66253055206
W163	6x13	6x40	54000	10			86A 60 PVS	66253055210
	6x13	3x40	54000	10			86A 90 PVS	66253055167
W164	6x20	3x40	41000	10	3NQ 80-OVQN	61463688967		
W169	8x10	3x40	61000	10			86A 60 PVS	66253055398
W170	8x13	6x40	54000	10			86A 60 PVS	66253055248
W171	8x20	3x40	41000	10			86A 60 PVS	66253055171
W175	10x10	3x40	61000	10			86A 90 PVS	66253055173
W176	10x13	6x40	54000	10			86A 60 PVS	66253055315
W177	10x20	6x40	41000	10			86A 60 PVS	66253055092
W179	10x32	6x40	25000	10			86A 60 PVS	66253055223
W185	13x13	6x40	58000	10	3NQ 80-OVQN	61463688969		
W188	13x40	6x40	20000	10			86A 90 PVS	66253055131
W195	16x20	6x40	47000	10			86A 60 PVS	66253055091
W196	16x25	6x40	35000	10			86A 90 PVS	66253054973
W204	20x20	6x40	42000	10			86A 60 PVS	66253055134
W205	20x25	6x40	32000	10			86A 36 PVS	66253054948
	20x25	6x40	32000	10			86A 60 PVS	66253055135
W206	20x32	6x40	30000	10			86A 60 PVS	66253055013
W215	25x3	3x40	38000	10	3NQ 80-OVQN	61463688973		
W220	25x25	6x40	25000	10			86A 36 PVS	66253055231
	25x25	6x40	25000	10			86A 60 PVS	66253055136
W221	25x40	6x40	19000	10			86A 36 PVS	66253055016
W230	32x32	6x40	17000	10			86A 36 PVS	66253055221
	32x32	6x40	17000	10			86A 60 PVS	66253055138
W232	32x50	6x40	11000	10			86A 60 PVS	66253055300
W236	40x13	6x40	25000	10			86A 60 PVS	66253055304
W238	40x40	6x40	12000	10			86A 36 PVS	66253055019
	40x40	6x40	12000	10			86A 60 PVS	66253055065

Dimensions Key: DIM = Dimensions, DIA = Diameter, L = Length

BONDED
ABRASIVES

SUPER
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MOUNTED POINT KITS

TYPE		STYLE	KIT CONTENTS PER SHAPE	ART. No.
Norton Quantum A Assorted	6mm spindle dia	1 pc each in card headed plastic bag	A1, A5, A11, A21, A23, A26, A36, A39, W242 Norton Quantum (and BF3 W220 A80-HBF3 - for polishing scratches from NQ)	61463692247
Norton Quantum B Assorted	3mm spindle dia	1 pc each in card headed plastic bag	B42, B52, B97, B122, B131, W154, W164, W185, W215 Norton Quantum (and BF3 W163 A80-HBF3 - for polishing scratches from NQ)	61463692248
NZ	6mm spindle dia	1 pc each in card headed plastic bag	A1, A3, A5, A11, W220, NZ24	66253145961



SPEC CHECK

- Use 36 grit & coarser for rough grinding
- Use 60 grit for imparting fine finishes or when grinding on narrow surfaces



DRESSING STICKS

Regular use of properly selected dressing sticks will help you achieve maximum performance from your vitrified wheels.

APPLICATIONS & MARKETS

- Truing, cleaning & dressing Diamond, CBN & conventional abrasive wheels



NORBIDE

BEST +++++



FEATURES

- Manufactured from sintered boron carbide
- Extremely hard & very dense

BENEFITS

- Excellent chemical & wear resistance
- Long product life, reduced maintenance & less downtime
- Suitable also for dressing tool & cutter wheels 200mm & smaller, especially cup & dish shapes

39C

BETTER ++++



FEATURES

- Highest purity green silicon carbide abrasive
- Harder & more friable than aluminium oxide abrasive

BENEFITS

- Ideal for dressing conventional vitrified grinding wheels
- Outperforms 37C for better cutting efficiency & longer life

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38A

GOOD +++



FEATURES

- High purity white aluminium oxide abrasive
- Friable abrasive

BENEFITS

- Ideal for dressing CBN Super Abrasive wheels

37C



FEATURES

- High purity black silicon carbide abrasive
- Harder & more friable than aluminium oxide abrasive

BENEFITS

- Ideal for dressing conventional vitrified grinding wheels

DRESSING STICKS FOR SUPER ABRASIVE GRINDING WHEELS

DIM (mm)	PK QTY	GOOD	
RECTANGULAR			
WxHxL			
13x25x150	10	38A 150 HVBE	61463605565
	10	38A 220 HVBE	61463605066
	10	38A 320 HVBE	69936684889
SQUARE			
WxHxL			
13x13x150	10	37C 80 MV	69936685063
	10	38A 220 HVS	69936682631
	10	38A 150 IVBE	69936682314
	10	37C 320 HV	66243453547
20x20x150	10	38A 150 HVBE	69936685064
	10	38A 220 IVBE	61463603606

DRESSING STICKS FOR BONDED ABRASIVE GRINDING WHEELS

DIM (mm)	PK QTY	GOOD	
RECTANGULAR			
WxHxL 			
5x12,7x76,2	1	NORBIDE	61463610148
25x50x200	10	37C 24 TV	69936685072
SQUARE			
WxHxL 			
25x25x150	10	37C 30 UV	69936624620
ROUND			
DIAxL 			
25,4x203,2	10	37C 30 TV	61463625024

GENERAL PURPOSE DRESSING STICKS

DIM (mm)	PK QTY	GOOD	
RECTANGULAR			
WxHxL			
13x25x150	10	38A 220 KV	66243460886
25x50x200	10	39C 60 KV	69936685066

Dimensions Key: DIM = Dimensions, DIA = Diameter, W = Width, H = Height, L = Length

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SPEC CHECK

- Use 38A dressing sticks to dress CBN wheels
- Use 37C dressing sticks to dress Diamond wheels.

BENCH & COMBINATION OIL STONES

Since 1823, Norton has been the leading supplier of benchstones, files, slips and rubbing bricks. Our comprehensive line of sharpening and finishing stones delivers superior performance solutions.

APPLICATIONS & MARKETS

- Chisels
- Wood lathe cutters
- Knives
- Plane blades
- Precision tools & delicate instruments



BONDED
ABRASIVES

SUPER
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TOOLS

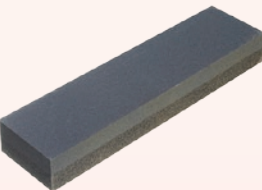
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CRYSTOLON

GOOD +++



FEATURES

- Premium silicon carbide abrasive
- Pre-filled with oil

BENEFITS

- Fast cutting stone; ideal for general sharpening of cutting tools
- Fast stock removal for quick edge shaping with minimal loading
- Saves time by eliminating the need for pre-soaking prior to use

INDIA



FEATURES

- Smooth cutting aluminium oxide abrasive
- Norton's trademark for a fine finish
- Pre-filled with oil

BENEFITS

- Long lasting cutting edge
- Ideal for cleaning, deburring & good quality finishes
- Saves time by eliminating the need for pre-soaking prior to use

ARKANSAS



FEATURES

- Natural premium Novaculite quarried in Arkansas & available in soft & hard
- Dense construction

BENEFITS

- Sharpest possible razor edges
- Near mirror finishes
- Use for finer honing after India stone
- Absorbs oil at a slower rate, hence does not require pre-filling

PRODUCT SELECTION

APPLICATION	COARSE / MEDIUM SHARPENING	FINE STONING
Carbide tool	Medium & coarse Crystolon Bench	Fine Crystolon Bench
	Coarse/fine Crystolon Combination	Coarse/fine Crystolon Combination
Steel tool	Medium & coarse India Bench	Fine India Bench
	Coarse/fine India Combination	Coarse/fine India Combination

BENCH & COMBINATION OIL STONES

DIM
(mm)

TYPE

PK
QTY

GOOD

BENCH STONES

LxWxH



102x25x6	MB14	5	Medium India	61463685575
	FB14	5	Fine India	61463685570
102x25x10	HB14	5	Hard Arkansas	61463687555
	SB14	5	Soft Arkansas	61463687565
102x25x13	CB24	5	Coarse India	61463685595
	MB24	5	Medium India	61463685590
	MJB24	5	Medium Crystolon	61463685480
	FB24	5	Fine India	61463685585
102x44x13	MB124	5	Medium India	61463626048
152x38x13	MB26	5	Medium India	61463626034
152x51x19	HB6	5	Hard Arkansas	61463685660
	UPB6	10	Medium India	61463690694
152x51x25	CB6	5	Coarse India	61463685620
	MB6	5	Medium India	61463685615
	MJB6	5	Medium Crystolon	61463685505
	FB6	5	Fine India	61463685610
	FJB6	5	Fine Crystolon	61463685500
203x51x25	CB8	5	Coarse India	61463685635
	UPB8	5	Medium India	61463685755
	MB8	5	Medium India	61463685630
	FB8	5	Fine India	61463685625

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

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COMBINATION OIL STONES

LxWxH



102x25x13	IB24	5	Coarse/Fine India	61463626001
102x44x16	JB134	5	Coarse/Fine Crystolon	61463685440
	IB134	5	Coarse/Fine India	61463685550
127x51x19	JB45	5	Coarse/Fine Crystolon	61463685445
	IB45	5	Coarse/Fine India	61463685555
152x51x25	JB6	5	Coarse/Fine Crystolon	61463685450
	IB6	5	Coarse/Fine India	61463685560
152x64x25	IB20	5	Coarse/Fine India	61463626103
178x51x25	IB7	5	Coarse/Fine India	61463690647
203x51x25	JB8	5	Coarse/Fine Crystolon	61463685455
	IB8	5	Coarse/Fine India	61463625078

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



ABRASIVE & PRECISION FILES

Norton abrasive files hold their shape while imparting the finest, most uniform finish on precision machine parts, and in tool and die making.

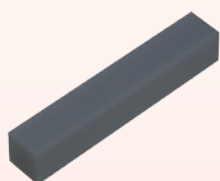
APPLICATIONS & MARKETS

- Deburring
- Chamfering
- Radiusing



CRYSTOLON

GOOD +++



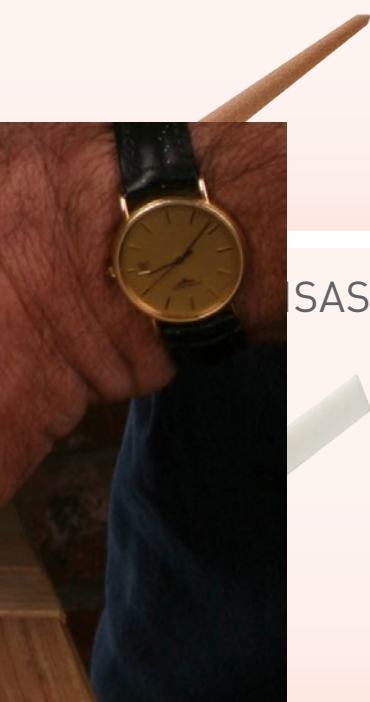
FEATURES

- Premium silicon carbide abrasive

BENEFITS

- Fast cutting
- Ideal for general sharpening

INDIA



FEATURES

- Smooth cutting aluminium oxide abrasive

BENEFITS

- Ideal when a close tolerance is more important than the speed of cut

SAS



FEATURES

- Hard Novaculite abrasive quarried in Arkansas

BENEFITS

- Produces the finest edge possible while maintaining tolerances unequalled by any other abrasive
- Produces a highly polished finish

BONDED
ABRASIVES

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PRODUCT SELECTION

APPLICATION	COARSE / MEDIUM SHARPENING	FINE STONING	FINISH HONING
Carbide tool	Medium Crystolon square		
Centre punches	Medium India triangle	Fine India triangle	
Countersinks	Coarse/medium India triangle	Fine India triangle	Hard Arkansas triangle
Form cutter	Coarse/medium India knife blade	Fine India knife blade	Hard Arkansas knife blade
Keyways	Coarse/medium India square	Fine India square	Hard Arkansas square
Lathe bits		Fine India square	Hard Arkansas square
Machine knife stone	Coarse Crystolon machine knife		
Magnetic chucks		India round	
Pointed	Medium India pointed		Hard Arkansas pointed
Precision machine knife	Medium India half round	Fine India half round	
Radius tools	Medium India round	Fine India round	Hard Arkansas round
Router bits		Fine India square	
Silversmith	Medium India Silversmith	Fine India Silversmith	
Tap threads		Fine India triangle	

ABRASIVE FILES

DIM (mm)	TYPE	PK QTY	GOOD	
ROUND				
LxDIA 				
76x6	HF813	5	Hard Arkansas	61463686800
102x3	FF212	5	Fine India	61463626076
102x6	MF214	5	Medium India	61463686475
	FF214	5	Fine India	61463686470
102x10	MF234	5	Medium India	61463686490
	FF234	5	Fine India	61463686485
102x13	MF244	5	Medium India	61463686505
	FF244	5	Fine India	61463686500
152x10	FF236	5	Fine India	61463626106
152x13	MF246	5	Medium India	61463686520
	FF246	5	Fine India	61463686515
152x16	MF256	5	Medium India	61463686535
	FF256	5	Fine India	61463686530
152x19	MF266	5	Medium India	61463686550

HALF ROUND

LxH



102x10	MF334	5	Medium India	61463686385
102x13	MF344	5	Medium India	61463686400
	FF344	5	Fine India	61463686395

SQUARE

LxH



76x6	HF13	5	Hard Arkansas	61463686590
76x10	HF33	5	Hard Arkansas	61463686595
76x13	HF43	5	Hard Arkansas	61463686600
102x6	FF14	5	Fine India	61463686065
	MF14	5	Medium India	61463686070
102x8	MF24	5	Medium India	61463626072
102x10	FF34	5	Fine India	61463686080
	MF34	5	Medium India	61463686085
	CF34	5	Coarse India	61463686090
102x13	CF44	5	Coarse India	61463686105
	FF44	5	Fine India	61463686095
	MF44	5	Medium India	61463686100
152x10	FF36	5	Fine India	61463626037
	MF36	5	Medium India	61463626038
152x13	FF46	5	Fine India	61463686110
	MF46	5	Medium India	61463686115
152x16	FF56	5	Fine India	61463686125
	MF56	5	Medium India	61463686130
152x19	CF66	5	Coarse India	61463686150
	FF66	5	Fine India	61463686140
	MF66	5	Medium India	61463686145
152x25	FF76	5	Fine India	61463686155
	MJF76	5	Medium Crystolon	61463625039

Dimensions Key: DIM = Dimensions, L = Length, DIA = Diameter, H = Height

BONDED
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ABRASIVE FILES

TRIANGLE

LxH



76x6	HF113	5	Hard Arkansas	61463686620
76x10	HF133	5	Hard Arkansas	61463686625
76x13	HF143	5	Hard Arkansas	61463686630
102x6	MF114	5	Medium India	61463686235
	FF114	5	Fine India	61463686230
	CF114	5	Coarse India	61463686240
102x8	MF124	5	Medium India	61463626027
	FF124	5	Fine India	61463626028
102x10	MF134	5	Medium India	61463686250
	FF134	5	Fine India	61463686245
102x13	CF144	5	Coarse India	61463686270
	MF144	5	Medium India	61463686265
	FF144	5	Fine India	61463686260
152x10	MF136	5	Medium India	61463626090
	FF136	5	Fine India	61463626054
152x13	MF146	5	Medium India	61463686280
	MJF146	5	Medium Crystolon	61463625043
	FF146	5	Fine India	61463686275
152x16	MF156	5	Medium India	61463686295
	FF156	5	Fine India	61463686290
152x19	MF166	5	Medium India	61463686310
	FF166	5	Fine India	61463686305
152x25	MF176	5	Medium India	61463686325
203x19	MF180	5	Medium India	61463626130
	FF180	5	Fine India	61463626082

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PRECISION FILES

DIM (mm)	TYPE	PK QTY	GOOD	
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KNIFE BLADE FILES

LxWxH



102x25x3	MF724	5	Medium India	61463686775
	FF724	5	Fine India	61463686770

SILVERSMITH FILES

LxWxH



102x13x2	FF444	5	Fine India	61463686955
	MF444	5	Medium India	61463686960

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ABRASIVE SLIPS & SPECIALTIES

Norton abrasive slips and specialty stones impart the finest, most uniform finish on a wide range of tools. These fast acting slips hold their shape and are long lasting.

APPLICATIONS & MARKETS

- Honing
- Gear deburring
- Die cleaning
- Reshaping



CRYSTOLON

GOOD +++



FEATURES

- Premium silicon carbide abrasive

BENEFITS

- Fast cutting stone; ideal for general sharpening of cutting tools
- Fast stock removal for quick edge shaping with minimal loading

INDIA



FEATURES

- Smooth cutting aluminium oxide abrasive
- Norton's trademark for a fine finish

BENEFITS

- Ideal when a close tolerance is more important than the speed of cut

ARKANSAS



FEATURES

- Natural premium Novaculite quarried in Arkansas & available in soft & hard

BENEFITS

- Sharpest possible razor edges
- Near mirror finishes
- Use for finer honing after India stone

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PRODUCT SELECTION

APPLICATION	COARSE / MEDIUM SHARPENING	FINE STONING	FINISH HONING
Carbide tools	Medium & Crystolon round edge slip	Fine Crystolon round edge slip	
	Coarse or medium Crystolon carbide tool slip	Fine Crystolon carbide tool slip	
Gouges (wood)		Fine India gouge Sharpening stone	
Leather	Medium Crystolon Tradesmen		
Milling cutter	Medium India round edge slip	Fine India round edge slip	Hard Arkansas round edge slip
Pen knife			Arkansas pen knife
Reamers	Medium India reamer stone	Fine India reamer stone	
Scythe stone	Scythe stone		
Steel tool			Rubber stick

SLIP STONES

DIM (mm)	TYPE	PK QTY	GOOD
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CARBIDE TOOL SLIP STONES

LxWxH

89x19x13	FJT63	5	Fine Crystolon	61463687285
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ROUND EDGE SLIP STONES

LxWxH

102x25x11	MS14	5	Medium India	61463687140
	FS14	5	Fine India	61463687135
102x32x6	HS14	5	Hard Arkansas	61463687050
114x44x6	MS24	5	Medium India	61463687150
	FJS24	5	Fine Crystolon	61463687075
	FS24	5	Fine India	61463687145
114x44x10	MS34	5	Medium india	61463687165
	FS34	5	Fine India	61463687160
114x44x13	MS44	5	Medium India	61463687180
	FS44	5	Fine India	61463687175

CARVING TOOL SLIP STONES

LxWxH

57x22x5	AS22	5	Hard Arkansas ultra-fine	61463687255
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Dimensions Key: DIM = Dimensions, DIA = Diameter, L = Length, W = Width, H = Height

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SPECIALTY STONES

DIM (mm)	TYPE	PK QTY	GOOD	
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MACHINE KNIFE STONE

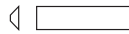
DIAxH



102x38	JB74	5	Coarse Crystolon	61463687570
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REAMER STONES

LxWxH



127x25x5	FT125	5	Fine India	61463687430
	MT125	5	Medium India	61463687425

RUBBING BRICK

LxWxH



203x51x51	BF28	5	Hand Crystolon	61463687845
203x89x38	235	5	Fluted Crystolon	61463687795

SCYTHE STONE

LxWxH



240x35x13	TJ4	10	Scythe Stone	69936693133
254x32x19	JT930	5	Scythe Stone	61463687675

RUBBER STICK

LxWxH



200x10x20	-	5	A240FR96	69936625667
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Dimensions Key: DIM = Dimensions, DIA = Diameter, L = Length, W = Width, H = Height

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ORGANIC CUT-OFF WHEELS

Reinforced cut-off wheels contain fiberglass to increase mechanical resistance when in use. The reinforcements increase the lateral stress capacity, resulting in higher resistance to breakage. Non-reinforced cut-off wheels are only designed for use on fixed base machines, where the work is securely clamped, the wheel is adequately guarded and operating on a controlled cutting plane. They are suitable for use in dry or wet conditions, depending on bond type.

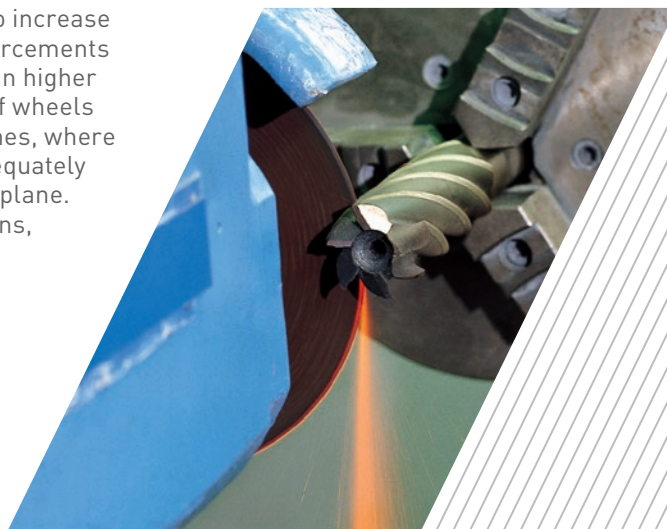
APPLICATIONS & MARKETS

REINFORCED CUT-OFF WHEELS

- Foundry – all steel types
- Aerospace
- Automotive

NON-REINFORCED CUT-OFF WHEELS

- Saw sharpening
- Tool cut-off
- Lab cut-off
- Industrial cut-off



TOROS 4NZ



TYPE 41

TYPE 42

FEATURES

- High concentration of zirconia oxide abrasive
- Extremely tough aluminium oxide abrasive

BENEFITS

- Very long wheel life
- Very high cutting capability & high metal removal rate if high pressure is applied: shelf re-sharpening
- Perfect for technical applications for premium performances

TOROS

BEST +++++

BONDED ABRASIVES

SUPER ABRASIVES

DIAMOND TOOLS

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TOROS 5NZ



TYPE 41

TYPE 42

FEATURES

- Medium concentration of zirconia oxide abrasive
- Extremely tough aluminium oxide abrasive

BENEFITS

- Long wheel life
- Good metal removal rate
- Versatile: suitable for most steels

TOROS XGP



TYPE 41

FEATURES

- Special combination of abrasive blends
- High durability with a good cutting capability

BENEFITS

- Very long wheel life & high metal removal rate
- Perfect for lab applications
- Suitable for use on all types of steel

TOROS 39C



TYPE 41

FEATURES

- Highest purity green silicon carbide abrasive
- Harder & more friable than aluminium oxide abrasive

BENEFITS

- Excellent to cut all non metals (titanium, aluminum, bronze)
- Extremely friable abrasive for better cutting efficiency & cut quality

TOROS U57A

BETTER ++++



TYPE 41

TYPE 42

FEATURES

- Specially treated brown aluminium oxide abrasive
- Tough & hard aluminium oxide abrasive
- Not suitable for use on extremely hard materials

BENEFITS

- Long wheel life
- Ideal for heavy duty applications

TOROS

NORZON WITH FOUNDRY X TECHNOLOGY



TYPE 41

TYPE 42

Norzon cut-off wheels with new Foundry X bond technology increase cut rate and wheel life in all cut-off applications on a wide range of tough materials.

FEATURES

- Foundry X bond technology
- Latest generation of Norzon grain with finer structure and sharper shape
- Excellent micro-fracturing properties

BENEFITS

- Greater heat resistance
- Longer wheel life
- Lower total abrasive cost
- Improved cut rate (removes material faster)
- Reduced cycle time
- Lower specific cutting energy relative to previous technology

NorZonBONDED
ABRASIVESSUPER
ABRASIVESDIAMOND
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TOROS 57A

GOOD +++



TYPE 41

FEATURES

- Semi-friable aluminium oxide abrasive
- Less tough than type A abrasive but offers better cutting quality
- Pointed shape

TOROS

BENEFITS

- Cool & burn free cutting
- Ideal for heat-sensitive applications with light to moderate feed rates
- Suitable for all steels
- Good compromise between cut quality & wheel life
- Very versatile: suitable for all steels

TOROS 23A



TYPE 41

FEATURES

- An abrasive blend of semi-friable 57A aluminium oxide & white monocristalline 32A aluminium oxide

BENEFITS

- Cool & burn free cutting
- Suitable for all steels
- Improved metal removal rate compared to 57A pure semifriable aluminium oxide abrasive

NORTON WITH FOUNDRY X TECHNOLOGY



TYPE 41

TYPE 42

Norton cut-off wheels with new Foundry X bond technology increase cut rate and wheel life in all cut-off applications on a wide range of tough materials.

FEATURES

- Foundry X bond technology
- High performance aluminium oxide or silicon carbide grain
- Good choice for low to medium power machines

BENEFITS

- Greater heat resistance
- Longer wheel life
- Lower total abrasive cost
- Consistent performance range on standard applications
- Stable surface cut quality





SPEC CHECK

- B24 New generation bond used on silicon carbide cut-off wheels that gives the best performance & the ultimate cut quality on non-ferrous metals in wet conditions
- B25 Standard multi-purpose bond that offers durability & freeness of cut in a wide variety of materials & applications. Can also be used in wet cutting on softer grades
- B26 New generation bond used on aluminium oxide cut-off wheels that gives the best performance & the ultimate cut quality on ferrous metals in wet conditions
- BF1 Specific bond ensuring the best quality of cut in dry or wet conditions
- BF3 New generation bond assuring the best wheel life in dry cutting operations; versatile & long wheel life. Ideal for heavy duty operations
- B65 Traditional bond gives good performance & long wheel life in dry cutting conditions.
- BFX Engineered Foundry X bond to increase cut rate and wheel life in all your cut-off applications on a wide range of tough materials.

NON-REINFORCED



BONDED
ABRASIVES

SUPER
ABRASIVES

DIAMOND
TOOLS

CLEANING,
POLISHING
& MASKING

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PROTECTION
EQUIPMENT

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INFORMATION

DIM DIAxTxB(mm)	MOS (m/s)	PK QTY	BEST		GOOD	
TYPE 41						
100x1x13	80	25			57A 60 PB25	66253056355
100x1x20	80	25			23A 80 PB25	66253056356
125x1x16	80	25			23A 80 PB25	66253056358
125x1x20	80	25			57A 60 PB25	66253056359
150x1x13	80	25			23A 80 PB25	66253056361
150x1x16	80	25			23A 80 PB25	66253056363
150x1x20	80	25			23A 80 NB25	66253056367
	80	25			23A 80 PB25	66253056368
150x1x32	80	25			57A 60 PB25	66253056373
150x1,6x16	80	25			23A 60 NB25	66253056362
150x1,6x20	63	25			23A 60 LB25	66253056365
	80	25			23A 60 NB25	66253056366
	80	25			57A 60 PB25	66253056364
150x1,6x32	80	25			57A 60 NB25	66253056360
	80	25			57A 60 PB25	66253056372
150x2x20	80	25			23A 60 NB25	66253056370
150x2x32	80	25			57A 60 PB25	66253056369
150x3x32	80	25			57A 60 PB25	66253056374
180x1,6x31,75	80	25			57A 60 PB25	66253056375
	80	25			57A 60 RB25	66253056376
200x1,6x20	80	25			57A 60 PB25	66253056377
200x1,6x32	80	25			57A 60 NB25	66253056382
	80	25			57A 60 PB25	66253056380
200x2x20	63	25			23A 60 LB25	66253056378

Dimensions Key: DIM = Dimensions, DIA = Diameter, T = Thickness, B = Bore

NON-REINFORCED



DIM
DIAxTxB(mm)

MOS
(m/s)

PK
QTY

BEST

GOOD

TYPE 41

250x1,6x25,4	80	10			57A 60 NB25	66253056383
250x1,6x32	63	10	XGP 70 EB26 (Toros)	66253060409		
	63	10	XGP 70 FB26 (Toros)	66253060410		
	63	10	XGP 70 HB26 (Toros)	66253060411		
	63	10	XGP 70 JB26 (Toros)	66253060412		
300x2x32	63	10	XGP 70 EB26 (Toros)	66253060418		
	63	10	XGP 70 FB26 (Toros)	66253060417		
350x2,5x32	63	10	XGP 70 EB26 (Toros)	66253060414		
	63	10	XGP 70 FB26 (Toros)	66253060420		
	63	10	XGP 70 HB26 (Toros)	66253060421		
400x3x32	63	10	XGP 60 FB26 (Toros)	66253060424		
450x3,5x32	63	10	XGP 60 EB26 (Toros)	66253060428		

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REINFORCED



DIM
DIAxTxB
(mm)

MOS
(m/s)

PK
QTY

BEST

BETTER

GOOD

TYPE 41

150x2x20	80	25			U57A 60 QB25 NA	66253056384		
200x2x32	80	25			U57A 60 OB25 NA	66253056386		
300x3,5x25,4	80	10			NZ30 TBFX	66253385710		
350x3,5x25,4	80	10			NZ30 TBFX	66253385709		
400x4x40	80	10			NZ24 TBFX	66253372431	A24 TBFX	66253372430
400x4,5x40	80	10					57A 24 PB25 NA4	66253059176
500x5x25,4	80	10					57A 24 TB25 NA (RC26)	66253056529
500x5,5x25,4	80	10	4NZ 30 XB25 NA	66253056535	NZ20 TBFX	66253386806	A24 TBFX	66253386805
	80	10					57A 24 PB25 NA4	66253056533
	80	10					57A 24 RB25 NA4 (TBDX METAL)	66253056536
500x5,5x40	80	10			NZ24 TBFX	66253372433	A24 TBFX	66253372432
	100	10			57A2 44 TBF1 NA4 (ToroS)	66253056534		
600x6,5x60	100	5			NZ24 TBFX	66253372435	A24 TBFX	66253372434
	100	5					57A 24 PB25 NA6	66253057645

TYPE 42

400x5x76,2	80	10					A24 TBFX	66253372436
	80	10			NZ24 TBFX	66253372437		
400x5x80	80	10	A24 SBFTOROS DA10	66253362444				
500x6x76,2	80	10			NZ24 TBFX	66253372439	A24 TBFX	66253372438
508x6x76,2	80	10					U57A20 VB25	66253056538

Dimensions Key: DIM = Dimensions, DIA = Diameter, T = Thickness, B = Bore



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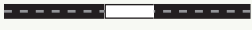
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& MASKING

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REINFORCEMENTS

The main purpose of the fibreglass reinforcement in cut-off wheels is safety. Reinforcements also permit wheels to withstand high rotational speed & make them more flexible. Reinforcements can be external or internal, half or full diameter. Reinforcements impact the cutting profile, affecting both the straightness & quality of cut.

Straight Type 41		Depressed Centre Type 42	
	NA		DA4
	NA3		DA6
	NA4		DA10
	NA6		

Reduction rings are available upon request to adapt the product to different spindle sizes.



SPEC CHECK

- Non-reinforced cut-off wheels are designed for use on "fixed base" machines where the work is securely clamped, guarded, & where the wheel operates on a controlled cutting plane
- Run the cut-off machine at the highest possible speed marked on the wheel
- Long life wheels should be used on a cut-off machine with 1 horsepower for every 25mm wheel diameter. With a less powerful machine, we recommend starting with a Free Cut specification.

ORGANIC SNAGGING WHEELS & CUPS

Norton offer a range of products for portable snagging foundry applications. Type 01 straight wheels are used on portable machine and Type 06 and 11 cup wheels on vertical grinders. Since finish tolerances are not usually critical, coarse, durable wheels are used with grit sizes ranging from 16 to 24.

APPLICATIONS & MARKETS

- Foundries
- Welding shops
- Steel mills
- Forge shops



ZF7A/ZF7C



TYPE 01

FEATURES

- Special design of abrasive blends
- High durability & versatility

BENEFITS

- Very good compromise between wheel life & metal removal rate
- ZF7A is premium product for all steels
- ZF7C is premium product for all non-ferrous metals

BEST +++++

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A/AZ



TYPE 06

TYPE 11

FEATURES

- Tougher than pure white aluminium oxide abrasive
- General purpose abrasive ideal for most operations

BENEFITS

- Long wheel life, limited metal removal rate
- AZ is a blend of aluminium oxide & zirconia
- Good for cutting medium to soft steels
- Suitable price/performance position
- First choice for less technical applications

GOOD +++

C



TYPE 11

FEATURES

- Low purity black silicon carbide abrasive
- Harder & more friable than aluminium type abrasives

BENEFITS

- Suitable for roughing operations in coarse grit & resinoid wheels
- Ideal for grinding & sharpening applications on metal carbide & non-ferrous metals
- Standard alternative, first choice if no technical specific requirement

PORTABLE SNAGGING

DIM DIAxTxB(mm)	W (mm)	E (mm)	MOS (m/s)	PK QTY	GOOD	
 TYPE 01						
50x13x10			50	20	A 24 TB	66253057649
100x20x20			50	20	A 24 RB	66253057660
100x25x20			50	20	A 24 PB	66253057663
 TYPE 06						
125x68x20	30	18	50	8	AZ 24 RB	66243450227
 TYPE 11						
125x50xM14	25	20	50	10	A 20 MB	66243570663
125x50xW5/8	25	20	50	2	C 16 NB	69210432282
150x50xW5/8	40	20	50	4	C 16 NB	69210432287

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PEDESTAL SNAGGING

DIM DIAxTxB(mm)	MOS (m/s)	PK QTY	BEST	GOOD
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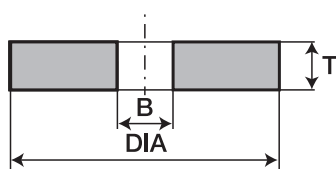
TYPE 01

508x50x50	50	1	ZF7A 16 R5B3	66253057670		
508x60x127	50	1	ZF7A 16 R5B3	66253057671		
760x80x304,8	50	1	ZF7A 14 3RB28	66253057675		

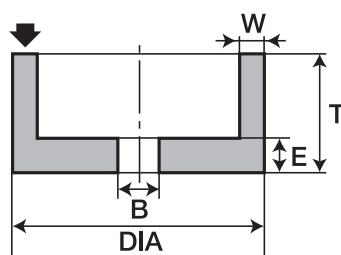
Dimensions Key: DIM = Dimensions, DIA = Diameter, T = Thickness, B = Bore, W = Rim Width, E = Back Thickness

SHAPE KEY

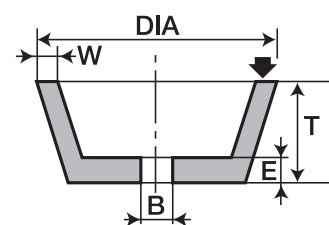
Type 01



Type 06



Type 11



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SPEC CHECK

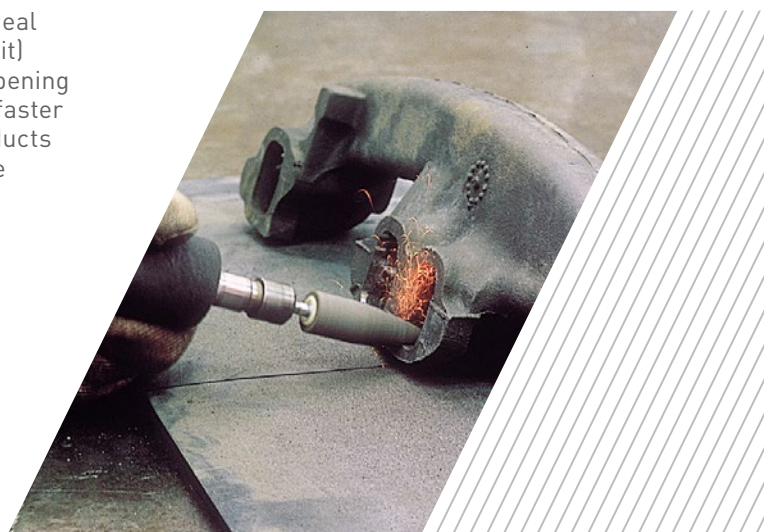
- B & B3 Foundry & portable wheels: multi-purpose bond that gives satisfactory results on most applications
- B28 Foundry wheels: high level bond suitable for most technical applications requiring high powered machines.

ORGANIC MOUNTED POINTS

NEW Norzon (NZ24) resin bond mounted points are ideal for fast stock removal in tough, aggressive (coarse grit) applications. The Norzon (zirconia alumina) self sharpening abrasive grain and durable organic bond provides 4x faster stock removal than competitive aluminium oxide products with 2x longer life. The best choice for fast aggressive stock removal...

APPLICATIONS & MARKETS

- Foundries
- Steel mills
- Tool industry



NORZON

BETTER ++++

NorZon



FEATURES

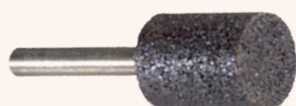
- Zirconia alumina self-sharpening abrasive and durable organic bond

BENEFITS

- 4x faster stock removal than competitive aluminum oxide products
- Longest lasting

A

GOOD +++



FEATURES

- Tougher than pure white aluminium oxide abrasive
- General purpose abrasive for most operations

BENEFITS

- Especially suited for carbon steel, HSS & alloyed steel
- Good for cutting medium hardness – soft steels
- First choice if no technical specific requirement



SPEC CHECK

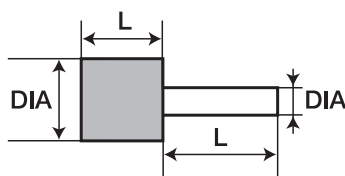
- Use "A" shapes for medium- to heavy-duty blending
- Use "W" shapes for offhand and precision grinding of medium to heavy stock.

ORGANIC MOUNTED WHEELS

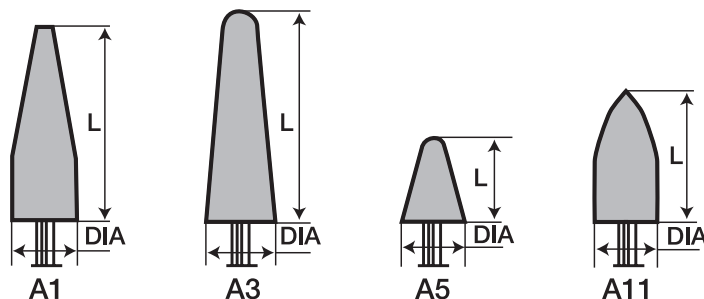
SHAPE	DIM DIAxL(mm)	SPINDLE DIAxL(mm)	MOS (RPM)	PK QTY	BETTER		GOOD	
A1	20x65	6x40	15000	10	NZ 24	61463689077		
A3	22x70	6x40	14000	10	NZ 24	61463689079		
A5	20x28	6x40	30000	10	NZ 24	61463689081		
A11	21x45	6x40	18000	10	NZ 24	61463689082		
W177	10x20	6x40	66000	10	NZ 24	61463689084		
W178	10x25	6x40	55200	10	NZ 24	61463689085		
W189	13x50	6x40	30370	10	NZ 24	61463689089		
W188	13x40	6x40	30370	10	NZ 24	61463689090		
	13x40	6x40	30370	20			A 36 QB	66253053225
W204	20x20	6x40	42750	10	NZ 24	61463689091		
W205	20x25	6x40	34500	10	NZ 24	61463689093		
	20x25	6x40	34500	20			A 36 QB	66253053230
W207	20x40	6x40	24000	10	NZ 24	61463689095		
W220	25x25	6x40	25500	10	NZ 24	61463689097		
	25x25	6x40	25500	20			A 46 QB	66253053237
W221	25x40	6x40	19120	10	NZ 24	61463689098		
	25x40	6x40	19120	20			A 46 QB	66253053243
W230	32x32	6x40	24000	10	NZ 24	61463689099		
	32x32	6x40	24000	20			A 36 QB	66253053250
	32x32	6x40	24000	20			A 46 QB	66253053248
W236	40x13	6x40	25130	10	NZ 24	61463689100		
	40x13	6x40	25130	20			A 46 QB	66253053251
W242	50x25	6x40	19100	10	NZ 24	61463689101		
	50x25	6x40	19100	20			A 46 QB	66253053252

Dimensions Key: DIM = Dimensions, DIA = Diameter, L = Length

SHAPE W KEY



SHAPE A KEY


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This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings on the page.

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