

NORTON

SAINT-GOBAIN®

BONDED
ABRASIVES

PRECISION GRINDING

Straight wheels	229
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BONDED ABRASIVES FOR PRECISION GRINDING

PRECISION GRINDING APPLICATIONS

Thanks to Norton's technical expertise, bond and abrasive grain formulations are optimized to best suit the technical request of all precision operations. Our vitrified wheels are available in a variety of shapes, diameters and arbor

sizes available from stock or on request. They are intended to maximize your productivity by improving your grinding efficiency and part quality in surface, tool and cutter, ID and cylindrical grinding as well as sharpening applications.



TOOL GRINDING

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

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

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 very from heavy rapid stock removal, to precision contour grinding.



EXTERNAL CYLINDRICAL GRINDING

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

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.



BENCH AND PEDESTRAL GRINDING

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.

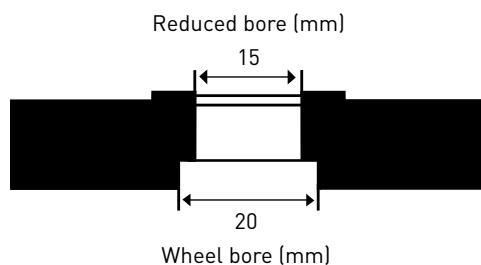


REDUCTION RINGS

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, nor 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

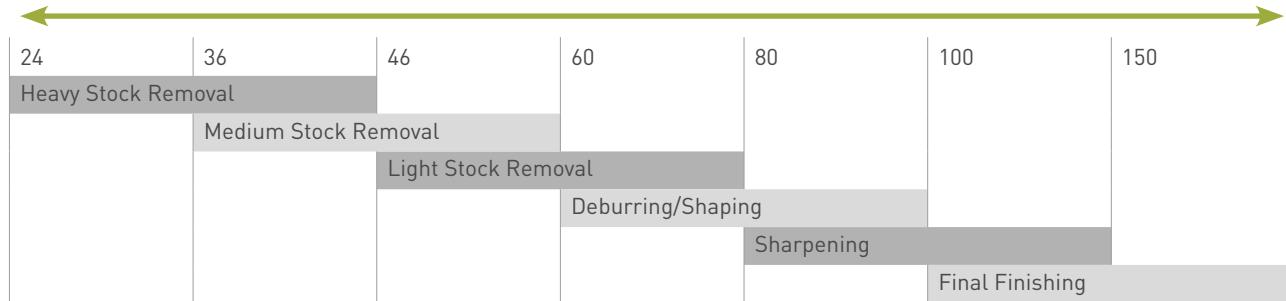


WHEEL BORE (mm)	REDUCED TO (mm)	ART NO.
50,8	35	7660704766
32	25	7660717540
32	20	7660717538
31,75	15,88	7660704757
31,75	12,7	7660704755
20	16	7660717530
20	15	7660717529
20	13	7660717527
20	12	7660717525
20	10	7660717524
16	6	510008919

APPLICATION/GRIT RECOMMENDATION GUIDE

COARSER (GRINDING)

FINER (FINISHING)



- Unsecured machines can move, causing grinding breakage and injury. Fixed-based bench and pedestal grinders MUST be secured.
- Do not grind wood, plastic, or any other non-metallic material on a bench or pedestal grinder.
- All bench and pedestal wheels must be dressed to prevent loading. Loading can cause excessive heat, damage to the workpiece, and wheel breakage. Dressing exposes new cutting edges and provides chip clearance.
- Recommended starting dressing stick: 1" x 1" x 6" 37C24-SVK Part # 61463610462

WHEEL DRESSING



Single Point Diamond Tools

- Rigidly mount Single Point tools at a 10°-15° angle to the wheel centerline with a line drawn through the center of the wheel, pointing in the direction of wheel travel
- Point of contact should be slightly below centerline of wheel
- Use coolant whenever possible
- Normal infeed is .001" per pass
- Lead selections range from .002" - .010" per wheel revolution
- Rotate the tool 1/4 turn periodically to maintain a sharp point
- Use VBE, V, VS, VK bonds for general purpose applications or medium contact areas
- Use VBEP, VSP, VS3P, VCP, VP2 bonds on wide contact areas where heat is an issue



It is the user's responsibility to refer to and comply with ANSI B7.1

Multi-Point Diamond Tools

- Most multi-point tools are used for straight face dressing
- Tool should have full face contact with the wheel
- With new tool, 3 to 5 passes at .005" per pass should be taken to expose diamonds
- Infeed per pass .001" - .002"
- Use coolant whenever possible
- Use appropriate lead (and traverse rate)
- Contact your Norton representative for proper tool selection for Targa (TG) wheels

Dressing Ceramic Wheels

- Use our specially designed Norton SG diamond tools when dressing ceramic wheels
- When first using a Norton SG tool, make 3 to 5 passes at .005" infeed to ensure full face contact between the dressing tool and wheel face
- Reduce normal dressing infeed by half. Do not exceed infeed of .002" per pass
- The lead selection should be between .006" - .030" per wheel revolution. Faster traverse with Norton SG tools generally provides an open wheel face that can maximize productivity of the ceramic abrasive
- To optimize applications using ceramic abrasives and/or tools, normal dressing parameters must change. Reduce infeed by 25%. Significant reductions in the amount of infeed and frequency of dress will result in substantially lower cost per part ground
- See the Fliesen Tool section for Furioso tools, engineered specifically for Quantum vitrified wheel dressing

TROUBLESHOOTING GUIDE

Check the obvious first. Before changing the grinding wheel specification, investigate the following most common causes for most grinding problems:

1. Diamond dressing tool condition (check if worn or dull, rotate tool or replace if necessary)
2. Coolant direction, volume and filtration
3. Wheel dressing procedures (dress more open to free up cut rate, dress more closed to improve finish)

PROBLEM	POSSIBLE CAUSE	CORRECTION
Workpiece burn	Poor coolant direction	Redirect coolant into grinding zone
	Restricted or low coolant volume	Increase coolant volume
	Wheel too hard	Use one grade softer wheel
	Wheel structure too closed	Use porous bond wheel
	Wheel dressed too fine	Dress wheel coarser, more "open"
	Worn dressing tool	Inspect, rotate or replace dressing tool
	Work speed too slow	Increase work speed
Wheel loading and glazing	Infeed too fast	Reduce stock removed per pass or upgrade to 5SG or 5NQ
	Wheel too fine	Use coarser grit or softer grade wheel
	Wheel too hard	Use one grade softer wheel
	Too durable abrasive	Use a sharper, more friable abrasive
	Poor coolant quality	Change coolant or use high detergent type
	Wheel structure too closed	Use a porous bond wheel
	Wheel too finely dressed	Dress wheel very open
Chatter	Diamond dressing tool worn	Replace diamond and dress coarse (open)
	Depth of cut too small	Increase feed and traverse speed
	Unsupported work	Increase work support
	Machine vibration	Check for worn bearings
	Too heavy cut rate	Reduce cut rate
	Wheel too hard	Use one grade softer wheel
Chatter marks on workpiece	Wheel structure too closed	Use a porous bond wheel
	Wheel out of balance	Check wheel balance or try new wheel
	Worn spindle bearings	Check and correct for truth and end play
	Wheel out of truth	Redress wheel and check mounting
Poor surface finish	Poorly clamped wheel	Check tightness of mounting nuts
	Glazed face of wheel	Redress wheel with sharp dressing tool
	Incorrect wheel dress	Dress wheel finer (slow down dressing tool traverse)
	Worn dressing tool	Inspect, rotate, or replace dressing tool
Not holding form	Too coarse grit size	Use a finer grit size
	Wheel too hard	Use softer grade
Not holding corner	Wheel too soft	Use one grade harder wheel
	Wheel structure too open	Use a more closed wheel structure
Not holding corner	Incorrect wheel dress	Dress wheel finer. Face and side true wheel.
	Too large grit size	Use smaller grit size (maximum grit diameter less than 1,5 times corner radius)
	Wheel too soft	Use harder grade wheel
	Wheel structure too open	Use more closed structure wheel

NORTON

SAINt-GOBAIN

IDEAL
PRIME

THE **IDEAL** SOLUTION FOR INTERNAL DIAMETER GRINDING

- CUTTING EFFICIENCY
- WORKPIECE QUALITY
- INCREASED WHEEL LIFE
- FAST PROCESS

BONDED
ABRASIVES

NORTON®

SAINT-GOBAIN

VV1

A VERSATILE GRINDING SOLUTION

BONDED
ABRASIVES

- FOR MULTIPLE APPLICATIONS
- INCREASES WORKPIECE QUALITY
- FEWER WHEEL CHANGES AND PARAMETER ADJUSTMENTS
- LOWER ENERGY CONSUMPTION REDUCES CARBON FOOTPRINT





NQN **INNOVATION**

Norton's Latest, Innovative ceramic grain

- Unparalleled sharpness reducing cycle times
- Improved cutting efficiency results in reduced power draw
- Micro-fracturing grain leads to improved part quality and geometry
- Self-sharpening grain technology stays sharper for longer, lowering dress requirements and significantly improving wheel life



NQ **+++++**

Engineered microcrystalline ceramic grain

- A perfect blend of sharp grains for the ultimate free cutting action
- Unique, microcrystalline structure is self sharpening for long product life
- Can be used in all low, medium and high force applications
- Reduces the need for dressing



3SG / 5SG **++++**

Traditional ceramic microstructure grain

- Very high concentration of SG ceramic aluminium oxide abrasive for high removal rate and extended wheel life
- Unique, microcrystalline structure is self sharpening for long product life
- Very good cutting capabilities on very hard steels



SGA / SGB **++++**

A blend with a low concentration of ceramic grain for good performance in a number of applications

- Harder and sharper than conventional abrasive grains for good cutting capabilities
- Very versatile for use on a number of steels
- Suitable for low to medium power machines



38A VS3 **++++**

The latest bond innovation with conventional alumina grain

- High purity aluminium oxide abrasive for cool and burn free cutting
- Highly friable abrasive, versatile on hard metals (HRc >50)
- Ideal for heat sensitive applications with light to moderate feed rates
- Improved profile accuracy and wheel life



GF **++++**

A low concentration of ceramic grain with durable aluminium oxide grain

- Good performance on common soft and medium steels

BONDED ABRASIVES FOR PRECISION GRINDING



38A



High purity aluminium oxide abrasive

- Friable grain renews sharp cutting edges for good product life
- Good cut rate and reduced heat generation on hardened or high-speed tool steels
- Ideal for heat-sensitive applications ideally in low/medium pressure applications
- Ideal for use on all steel hardnesses



19A



A blend of brown and white aluminium oxides for good price vs. performance ratio

- Combines cutting efficiency and wheel life
- Very versatile, can be used on a wide variety of steels
- Good yield, good removal rate
- Good balance between cut rate and form holding ability



32A



Semi-friable brown aluminium oxide

- Tough grain maintains sharp edges for good wheel life
- Good profile holding reduces dressing needs
- For use on the most common soft/medium steels



A



Brown aluminium oxide

- For soft steel removal, shaping and deburring
- Very tough, suitable for grinding most types of soft steels
- Good wheel life and hard wearing for general purpose cylindrical off-hand bench and pedestal grinding applications
- Good price vs. performance ratio



39C



Highest purity green silicon carbide abrasive

- The most friable conventional abrasive grain. Harder and more friable than aluminium oxide abrasive
- For all general purpose bench and pedestal applications on non-ferrous materials and carbide tools
- Ideal for high precision grinding and sharpening applications
- Good cut rate and finish on metal carbide and non-ferrous hard or heat sensitive materials



37C



High purity black silicon carbide abrasive

- Harder and more friable than aluminum oxide abrasive
- Suitable for roughing operations in coarse grit and resinoid wheels
- Ideal for grinding and sharpening applications on non-ferrous metals



STRAIGHT WHEELS

FOR PRECISION GRINDING

SHAPE 01 SHAPE 05 SHAPE 07 SHAPE 20 SHAPE 01C

Recess/Concave Depth A Recess/Concave Depth B

Tools

Internal Diameter

External Diameter

High alloyed steels & HSS

300 sleeve

Non-Ferrous & Carbide

Abrasive Tyne

Grit size

Grade 1

Bond W

RAM
END
NO
NO
SG

BLE
_ENI
_END

AL
OX

INI
TYI
8A
2A
9A

LICCO
ARBI
3
3

TYP

COLOUR CODE REFERENCE

DIM DxTxH [mm]	SHAPE	P	FA	FB	Deburring & Sharpening	Grinding	Materials			SPECIFICATION			MOS [m/s]	ART NO.	PK QTY	QUALITY TIER	
13x13x4	01	-	-	-		●	●	○	○	5NQN	80	K	VS3	35	69210469305	10	+++++ NEW
13x13x4,76	01	-	-	-		●	●	○		SGB	60	J	VS3	63	66253355176	10	++++
	05	6	6	-		●	●	○		SGB	60	J	VS3	63	66253355177	10	++++
16x16x6	05	10	8	-		●	●	○	○	5NQN	60	K	VS3	35	69083128259	10	+++++ NEW
	01	-	-	-		●	●	○	○	5NQN	80	J	VQN	45	69083128269	10	+++++ NEW
	01	-	-	-		●	●	○	○	3NQN	60	K	VS3	35	69083128247	10	+++++ NEW
20x20x6	05	13	10	-		●	●	○	○	5NQN	80	J	VQN	45	69083128220	10	+++++ NEW
	05	13	10	-		●	●	○	○	5NQN	60	K	VS3	35	69083128227	10	+++++ NEW
	01	-	-	-		●	●	○	○	3NQN	60	L	VQN	45	69083128244	10	+++++ NEW
	01	13	10	-		●	●	○	○	38A	60	K	VS3	45	66253348355	10	+++ ►

HSS = High Speed Steel

Steel hardened = Over 50Rc

Steel soft = Up to 50Rc

BONDED ABRASIVES FOR PRECISION GRINDING

SHAPE 01 SHAPE 05 SHAPE 07 SHAPE 20 SHAPE 01C

PRODUCT RECOMMENDATION

Highly recommended
Recommended



Product Recommendation																									
Highly recommended													Recommended												
DIM DxTxH [mm]	SHAPE	P	FA	FB	Deburring & Sharpening	Tools	Saw Sharpening	Bench Wheels	Internal Diameter	External Diameter	Surface	High alloyed steels & HSS	Soft steels	Inox	Non-Ferrous & Carbide	Cast iron	Abrasive Type	Grit size	Grade	Bond	MOS (m/s)	ART NO.	PK QTY	QUALITY TIER	
20x20x6,35	05	10	10	-			●		●	●	●						■ 5NQN	60	K	VQN	45	69083128255	10	+++++	NEW
	05	10	10	-			●		●	●			●				■ 38A	60	L	VS	35	69936621542	10	+++	
25x25x6,35	05	13	12	-			●		●	●	●						■ 5NQN	80	I	VQN	45	69210469307	10	+++++	NEW
	05	13	12	-			●		●	●			●				■ 38A	60	K	VS3	45	66253348349	10	+++	
25x25x8	05	13	12	-			●		●	●	●						■ 5NQN	60	K	VS3	35	69210469308	10	+++++	NEW
	05	13	10	-			●		●	●	●						■ 5NQN	80	J	VQN	45	69083128249	10	+++++	NEW
32x25x8	05	13	10	-			●		●	●	●						■ 5NQN	60	J	VQN	45	69083128245	10	+++++	NEW
	05	16	16	-			●		●	●							■ 5SG	60	K	VS	35	69936639439	10	+++++	
32x32x9,53	05	16	16	-			●		●	●							■ 5NQN	80	I	VQN	45	69210469310	10	+++++	NEW
32x32x10	05	16	16	-			●		●	●							■ 5SG	60	K	VS	35	69936639605	10	+++++	
	05	16	16	-			●		●	●							■ SGB	60	J	VX	45	69936676291	10	+++	
40x25x9,53	05	20	12	-			●		●	●							■ 5NQN	60	K	VQN	45	69210469311	10	+++++	NEW
40x25x10	05	16	12	-			●		●	●							■ 5NQN	80	K	VQN	45	69210469317	10	+++++	NEW
	05	16	12	-			●		●	●							■ 5SG	60	K	VS	35	69936639834	15	+++++	
40x32x10	05	20	16	-			●		●	●							■ 5NQN	60	L	VQN	45	69210469318	10	+++++	NEW
40x40x10	05	16	20	-			●		●	●							■ 5NQN	60	J	VS3	35	69210469319	10	+++++	NEW
50x40x12,7	05	25	20	-			●		●	●							■ 5NQN	60	K	VQN	45	69210469320	10	+++++	NEW
	05	25	25	-			●		●	●							■ SGB	60	J	VS3	63	66253355186	10	+++	
	05	25	20	-			●		●	●							■ 5NQN	60	J	VS3	35	69210469321	10	+++++	NEW
63x10x20	01	-	-	-			●		●	●			●				■ 38A	60	N	VS	45	66253050376	10	++	
63x40x12,7	05	32	20	-			●		●	●							■ 5NQN	80	I	VQN	45	69210469323	10	+++++	NEW
	05	32	20	-			●		●	●			●				■ 38A	60	L	VS	45	69936621565	10	++	
76x25x12,7	01	-	-	-			●			●	●						■ 39C	80	I	V	45	66253052726	10	++	
76x32x20	05	42	16				●		●	●							■ 5NQN	60	J	VQN	45	69210469324	10	+++++	NEW
80x25x12,7	01	-	-	-			●			●	●						■ 39C	60	M	V	45	66253051624	10	++	
	01	-	-	-			●			●	●						■ 39C	60	M	V	45	66253051623	10	++	
	01	-	-	-									●				■ 37C	60	N	V	35	69936668764	10	++	
100x10x20	01	-	-	-	●				●	●			●				■ 38A	60	M	VS	35	69936640015	1	++	
100x10x32	01	-	-	-	●					●	●			●			■ 39C	80	L	VS	45	66253050380	2	++	
100x13x32	01	-	-	-	●				●	●			●				■ 38A	60	L	VS	45	66253050409	1	++	
100x20x32	01	-	-	-	●				●	●			●				■ 38A	60	L	VS	45	66253050413	1	++	
125x6x32	01	-	-	-		●			●	●			●				■ 38A	60	L	VS	45	66253050440	2	++	
125x10x32	01	-	-	-	●				●	●			●				■ 38A	60	L	VS	45	69936675731	1	++	
125x13x32	01	-	-	-	●				●	●							■ 3SG	60	J	VX	45	66253050290	2	++++	
125x16x32	01	-	-	-	●				●	●			●				■ 38A	60	M	VS	45	66253050237	1	++	
	01	-	-	-	●					●	●						■ 39C	80	L	VS	45	66253050393	2	++	
	01	-	-	-	●				●	●			●				■ 38A	60	L	VS	45	69936675736	1	++	
	01	-	-	-	●					●	●						■ 39C	80	L	VS	45	69936667443	2	++	
	01	-	-	-		●				●	●						■ A	46	N	VS	45	69936675558	1	++	

HSS = High Speed Steel

Steel hardened = Over 50Rc

Steel soft = Up to 50Rc

COLOUR CODE REFERENCE

CERAMIC BLEND	ALUMINIUM OXIDE TYPES	SILICON CARBIDE TYPES
NQN BLEND	38A	39C
NQ BLEND	32A	37C
SG BLEND	19A	
	A	

DIM DxTxH (mm)	SHAPE	P	FA	FB	Deburring & Sharpening	Grinding	Materials		SPECIFICATION		MOS (m/s)	ART NO.	PK QTY	QUALITY TIER	
150x4x20	01	-	-	-	●		●	●	●	●	38A	60 L VS	45	69936675591	1 +++
	01	-	-	-	●		●	●	●	●	38A	100 M VS	45	69936640219	1 +++
150x4x30	01	-	-	-	●		●	●	●	●	38A	80 N VS	45	69936639730	1 +++
150x4x32	01	-	-	-	●		●	●	●	●	38A	80 L VS3	63	66243541079	5 ++++
	01	-	-	-	●		●				19A	60 M VS	63	69936674920	2 +++
	01	-	-	-	●			●	●		39C	120 K VS	45	66253050248	2 +++
150x6x31,75	01	-	-	-	●		●	●	●	●	38A	80 L VS	35	69936621582	1 +++
150x6x32	01	-	-	-	●		●	●	●		3SG	60 L VX	45	66253055040	2 +++++
	01	-	-	-	●		●	●	●	●	38A	60 L VS	35	69936675741	2 +++
	01	-	-	-	●		●				19A	60 M VS	63	69936675964	2 +++
	01	-	-	-	●			●			39C	120 K VS	45	69936675617	2 +++
150x8x32	01	-	-	-	●		●	●			3SG	60 J VX	45	66253055041	2 +++++
150x8x32	01	-	-	-	●		●	●	●	●	38A	60 L VS	45	69936675743	1 +++
	01	-	-	-	●		●	●	●	●	38A	120 J VS	45	69936675748	1 +++
150x10x32	01	-	-	-	●		●	●			3SG	60 L VX	45	66253050280	2 +++++
	01	-	-	-	●		●	●	●	●	38A	60 M VS	45	69936641112	1 +++
	01	-	-	-	●		●	●	●	●	38A	80 M VS	45	66253050373	1 +++
	01	-	-	-	●		●	●	●	●	38A	120 J VS	45	69936675749	1 +++
	01	-	-	-	●			●	●		39C	80 K VS	45	66253050357	2 +++
	01	-	-	-	●			●	●		39C	120 K VS	45	69936675629	2 +++
	01	-	-	-	●		●	●	●		3SG	60 K VS	50	69936622862	1 +++++
150x13x31,75	01	-	-	-	●		●	●	●		39C	60 K VS	35	69936621564	1 +++
	01	-	-	-	●			●	●		3SG	60 L VX	45	66253050142	2 +++++
150x13x32	01	-	-	-	●		●	●			38A	60 L VS	35	69936675757	1 +++
	01	-	-	-	●		●	●	●	●	38A	80 L VS	45	69936675759	1 +++
	01	-	-	-	●		●	●	●	●	38A	120 J VS	45	69936675760	1 +++
	01	-	-	-	●		●	●	●	●	3SG	60 L VX	45	66253050367	2 +++++
150x16x32	01	-	-	-	●		●	●			3SG	60 H12 VXP	45	69936677177	2 +++++
	01	-	-	-	●		●	●	●	●	38A	46 L VS	45	69936675763	1 +++
	01	-	-	-	●		●	●	●	●	38A	60 L VS	45	69936675764	1 +++
	01	-	-	-	●		●	●	●	●	38A	80 L VS	45	69936675767	1 +++
	01	-	-	-	●			●	●		39C	80 L VS	45	69936675657	2 +++
	01	-	-	-	●			●	●		39C	120 K VS	45	69936675659	2 +++
	01	-	-	-	●		●	●	●		38A	60 K VS3	63	66253353966	1 ++++
150x20x31,75	01	-	-	-	●		●	●	●		39C	60 K VS	35	69936623474	1 +++
	01	-	-	-	●			●	●		39C	100 K VS	35	69936623221	1 +++
	01	-	-	-	●			●	●		38A	60 K VS3	63	66253353966	1 ++++

BONDED
ABRASIVES

BONDED ABRASIVES FOR PRECISION GRINDING

SHAPE 01 SHAPE 05 SHAPE 07 SHAPE 20 SHAPE 01C

DIM DxTxH [mm]	SHAPE	P	FA	FB	Deburring & Sharpening	Grinding	Materials	SPECIFICATION	MOS (m/s)	ART NO.	PRODUCT RECOMMENDATION	
											Abrasive Type	Grit size
											Grade	Bond
											PK QTY	QUALITY TIER
150x20x32	01	-	-	-	●		● ○			66253050155	2	+++++
	01	-	-	-	●		● ○			66253049895	2	+++
	01	-	-	-	●		○ ●		●	66253050372	1	+++
	01	-	-	-	●		○ ●		●	69936641391	1	+++
	01	-	-	-	●		○ ●		●	69936639416	1	+++
	01	-	-	-	●		○ ●		●	66243570493	1	+++
	01	-	-	-		●	●			69936641366	1	+++
	01	-	-	-		●	●			69936641368	1	+++
	01	-	-	-	●		● ●			69936641411	2	+++
	01	-	-	-	●		● ●			69936641413	2	+++
	01	-	-	-	●		● ●			69936641414	2	+++
150x25x20	01	-	-	-		●	● ●			69936641429	1	+++
150x25x32	01	-	-	-	●		○ ●		●	66253050452	1	+++
	01	-	-	-		●	●			66253050265	1	+++
	01	-	-	-		●	●			69936641370	1	+++
	01	-	-	-	●		● ●			69936675661	2	+++
	01	-	-	-	●		● ●			66253050278	2	+++
	01	-	-	-	●		● ●			69936675664	2	+++
175x4x51	01	-	-	-	●		● ●			66253052709	6	+++
180x6x31,75	01	-	-	-		●	● ●		●	66253353968	2	++++
180x6x32	01	-	-	-			● ○			69936676015	1	+++++
	01	-	-	-		●	● ●		●	69936675784	2	+++
180x10x32	01	-	-	-	●		○ ●		●	69936675781	1	+++
180x13x31,75	01	-	-	-		●	● ○ ○			69936623227	1	+++++
	01	-	-	-		●	● ○ ○			69936623231	1	+++++
	01	-	-	-		●	● ○			69936623240	1	+++
	01	-	-	-		●	● ○			69936623255	1	+++
	01	-	-	-	●		○ ●		●	66253353972	1	+++
	01	-	-	-	●		○ ●		●	66253353974	1	+++
	01	-	-	-		●	● ●		●	69936623220	1	+++
	01	-	-	-		●	● ●		●	69936623248	1	+++
180x13x32	01	-	-	-	●		● ○ ○		●	69210469326	2	+++++ NEW
	01	-	-	-	●		● ○ ○		●	66253054892	2	+++++
	01	-	-	-	●		● ○ ○		●	66253054874	2	+++++
	01	-	-	-	●		● ○ ○		●	69936639148	2	+++
	01	-	-	-	●		○ ●		●	69936675797	1	+++
	01	-	-	-	●		○ ●		●	69936675801	1	+++
	01	-	-	-	●		○ ●		●	69936675802	1	+++
180x16x32	01	-	-	-		●	● ○ ○		●	69936677179	1	+++++
	01	-	-	-		●	● ○ ○		●	69936675806	1	+++
	01	-	-	-	●		○ ●		●	66253050453	1	+++

COLOUR CODE REFERENCE

CERAMIC BLEND	ALUMINIUM OXIDE TYPES	SILICON CARBIDE TYPES
NQN BLEND	38A	39C
NQ BLEND	32A	37C
SG BLEND	19A	
	A	

DIM DxTxH (mm)	SHAPE	P	FA	FB	Deburring & Sharpening	Grinding	Materials	SPECIFICATION	MOS (m/s)	ART NO.	COLOUR CODE REFERENCE				
											Innovation	CERAMIC BLENDS	ALUMINIUM OXIDE TYPES	SILICON CARBIDE TYPES	
180x20x31,75	01	-	-	-	●			3SG	46	K	VS	50	69936623242	1	+++++
	05	100	6	-	●			3SG	60	J	VS	35	69936639808	1	+++++
	01	-	-	-	●			SGB	60	K	VX	50	69936623480	1	+++
	01	-	-	-	●		●	38A	46	L	VS	35	69936623312	1	+++
	01	-	-	-	●		●	38A	60	L	VS	35	69936623472	1	+++
	01	-	-	-	●		● ●	39C	60	K	VS	35	69936623477	1	+++
180x20x32	01	-	-	-	●			3SG	60	H12	VXP	35	66243593654	1	+++++
	01	-	-	-	●			SGB	46	H10	VXP	45	69936638723	2	+++
	01	-	-	-	●			SGB	60	K	VX	45	66253049878	2	+++
	01	-	-	-	●		●	A	46	N	VS	45	69936641372	1	+++
	01	-	-	-	●		● ●	39C	60	K	VS	45	69936641415	2	+++
	01	-	-	-	●		● ●	39C	80	L	VS	45	69936676582	2	+++
	01	-	-	-	●		● ●	39C	120	K	VS	45	69936675666	2	+++
180x25x31,75	05	105	13	-	●			3SG	46	K	VS	50	69936621519	1	+++++
	05	105	13	-	●			3SG	60	K	VS	50	69936621570	1	+++++
	05	105	12	-	●		●	38A	46	K	VS3	63	66253354036	1	+++
	05	105	12	-	●		●	38A	60	K	VS3	63	66253354035	1	+++
180x25x32	01	-	-	-	●		●	38A	60	L	VS	45	69936675812	1	+++
	01	-	-	-	●		●	A	46	N	VS	45	69936675564	1	+++
	01	-	-	-	●		● ●	39C	60	K	VS	45	69936675667	2	+++
	01	-	-	-	●		● ●	39C	80	L	VS	45	69936667101	2	+++
200x2x32	01	-	-	-	●		●	38A	80	L	VS3	50	66243541085	5	+++
200x3x32	01	-	-	-	●		●	SGB	80	K	VS3	50	66253354588	5	+++
200x4x32	01	-	-	-	●		●	SGB	80	K	VS3	63	66243541087	5	+++
200x6x31,75	01	-	-	-	●		●	38A	120	I	VS	35	69936640156	1	+++
200x6x32	01	-	-	-	●		●	SGB	60	K	VS3	63	66243541086	5	+++
	01	-	-	-	●		●	SGB	120	J	VX	45	69936677029	2	+++
	01	-	-	-	●		●	38A	80	N	VS	45	69936639662	2	+++
	01	-	-	-	●		●	39C	120	K	VS	45	69936675636	2	+++
200x8x32	001C	-	-	-	●		●	38A	60	L	VS3	35	69210431430	5	+++
200x10x32	01	-	-	-	●		●	SGB	60	J	VX	45	69936639157	2	+++
	01	-	-	-	●		●	SGB	80	J	VX	45	69936639158	2	+++
	01	-	-	-	●		●	38A	60	L	VS3	63	66253348277	1	+++
	01	-	-	-	●		●	38A	120	J	VS	45	69936675819	1	+++
	01	-	-	-	●		● ●	39C	100	K	VS	35	69936639461	1	+++
	01	-	-	-	●		● ●	39C	120	K	VS	45	69936675637	2	+++
200x13x31,75	01	-	-	-	●		●	3SG	46	K	VS	50	69936623236	1	+++++
	01	-	-	-	●		●	3SG	60	K	VS	50	69936623241	1	+++++
	01	-	-	-	●		●	38A	120	I	VS	35	69936641286	4	+++
200x13x32	01	-	-	-	●		●	SGB	60	J	VX	45	69936639160	2	+++

BONDED ABRASIVES FOR PRECISION GRINDING

SHAPE 01 SHAPE 05 SHAPE 07 SHAPE 20 SHAPE 01C

PRODUCT RECOMMENDATION

Highly recommended
Recommended



PRODUCT RECOMMENDATION													
Highly recommended													
Recommended													
DIM DxTxH (mm)	SHAPE	P	FA	FB	Tools	Saw Sharpening	Bench Wheels	Internal Diameter	External Diameter	Surface	High alloyed steels & HSS	Inox	
					Deburring & Sharpening	Grinding					Soft steels	Non-Ferrous & Carbide	
											Cast iron		
200x16x76,2	01	-	-	-	●			●	●				
200x20x20	01	-	-	-	●			●	●		●		
200x20x31,75	01	-	-	-		●		●	●		●		
200x20x32	01	-	-	-			●	●	●				
200x20x50	01	-	-	-				●	●		●		
200x20x50,8	01	-	-	-				●	●		●		
200x20x51	01	-	-	-				●	●		●		

HSS = High Speed Steel

Steel hardened = Over 50Rc

Steel soft = Up to 50Rc

COLOUR CODE REFERENCE

CERAMIC BLENDS	ALUMINIUM OXIDE TYPES	SILICON CARBIDE TYPES
NQN BLEND	38A	39C
NQ BLEND	32A	37C
SG BLEND	19A	
	A	

INNOVATION

DIM DxTxH (mm)	SHAPE	P	FA	FB	Deburring & Sharpening	Grinding	Materials	SPECIFICATION		MOS (m/s)	ART NO.	PK QTY	QUALITY TIER	
								Abrasive Type	Grit size					
		01	-	-	-	●		●	●	39C	60 K VS	45	69936640176	2 ++++
200x20x76,2	01	-	-	-	●			●	●	35G	46 H VX	45	66253050156	2 +++++
		01	-	-	-	●		●	●	38A	60 L VS	45	69936675836	1 ++++
200x25x20	01	-	-	-		●		●	●	38A	60 M VS	35	69936641405	1 ++++
		01	-	-	-	●		●	●	39C	80 K VS	35	69936641422	1 ++++
200x25x31,75	05	110	10	-		●		●	●	35G	60 G VSPF	35	69936640304	1 +++++
		05	105	13	-	●		●	●	35G	60 K VS	50	69936621575	1 +++++
		01	-	-	-	●		●	●	39C	60 K VS	35	69936623912	1 ++++
		01	-	-	-	●		●	●	A	36 P VS	35	69936623910	1 ++++
		01	-	-	-	●		●	●	A	60 N VS	35	69936623913	2 ++++
		01	-	-	-	●		●	●	39C	100 K VS	35	69936623599	1 ++++
200x25x32	01	-	-	-	●			●	●	35G	60 J VX	45	66253054889	2 +++++
		01	-	-	-	●		●	●	SGB	60 K VX	45	66253049888	2 +++++
		01	-	-	-	●		●	●	38A	46 N VS	45	69936641406	1 ++++
		01	-	-	-	●		●	●	38A	46 L VS	45	69936627127	1 ++++
		01	-	-	-	●		●	●	38A	60 M VS	45	66253051079	1 ++++
		01	-	-	-	●		●	●	38A	60 L VS	45	69936641407	1 ++++
		01	-	-	-	●		●	●	38A	80 N VS	45	69936675847	1 ++++
		01	-	-	-	●		●	●	38A	80 K VS	45	66253051082	1 ++++
		01	-	-	-			●	●	A	24 R VS	45	69936676374	1 ++++
		01	-	-	-	●		●	●	A	30 P VS	45	69936641382	1 ++++
		01	-	-	-	●		●	●	A	36 P VS	45	69936641383	1 ++++
		01	-	-	-	●		●	●	A	46 M VS	45	66253050271	1 ++++
		01	-	-	-	●		●	●	39C	46 L VS	45	69936675639	2 ++++
		01	-	-	-	●		●	●	39C	60 K VS	45	69936641424	2 ++++
		01	-	-	-	●		●	●	39C	80 K VS	45	66253050276	2 ++++
		01	-	-	-	●		●	●	38A	100 J VS	45	66243570496	1 ++++
		01	-	-	-	●		●	●	39C	100 J VS	45	66253050375	2 ++++
		01	-	-	-	●		●	●	39C	120 K VS	45	69936641428	2 ++++
200x25x50	05	110	10	-		●	●	●		35G	60 I VS	35	69936639454	2 +++++
200x25x50,8	01	-	-	-	●			●	●	SGB	46 K VX	45	66253050183	2 +++++
200x25x51	01	-	-	-	●			●	●	38A	46 K VS	45	66253051086	1 ++++
		01	-	-	-	●		●	●	38A	60 L VS	45	69936640125	1 ++++
200x25x76,2	01	-	-	-	●			●	●	38A	46 N VS	45	69936675841	1 ++++ ▶

BONDED ABRASIVES FOR PRECISION GRINDING

SHAPE 01  SHAPE 05  SHAPE 07  SHAPE 20  SHAPE 01C 

PRODUCT RECOMMENDATION

Highly recommended
Recommended



Product Recommendation																		
Highly recommended																		
Recommended																		
DIM DxTxH [mm]	SHAPE	P	FA	FB	Deburring & Sharpening	Grinding	Materials		Abrasive Type	Grit size	Grade	Bond						
Recess/Inner concave Diameter	Recess/Concave Depth A	Recess/Concave Depth B	Tools	Saw Sharpening	Bench Wheels	Internal Diameter	External Diameter	Surface	High alloyed steels & HSS	Soft steels	Inox	Non-Ferrous & Carbide						
Cast iron																		
200x32x32	01	-	-	-	●			●	●	38A	46	L	VS	35	69936675842	1	+++	
200x32x32	01	-	-	-	●			●	●	38A	60	L	VS	35	69936675845	1	+++	
200x32x32	01	-	-	-		●			●	A	46	N	VS	45	69936675568	1	+++	
200x32x32	01	-	-	-	●			●	●	38A	60	N	VS	45	69936675846	1	+++	
200x32x32	01	-	-	-	●				●	39C	60	K	VS	45	69936675672	2	+++	
200x32x32	01	-	-	-	●				●	39C	80	L	VS	45	69936675673	2	+++	
200x32x32	01	-	-	-	●				●	39C	120	K	VS	45	69936675674	2	+++	
200x32x51	01	-	-	-	●			●	●	SGB	60	K	VX	45	66253049892	2	++++	
200x32x76,2	01	-	-	-	●			●	●	38A	46	M	VS	45	66253052712	1	+++	
225x5x60	01	-	-	-	●			●	●	38A	60	L	VS	45	69936675855	1	+++	
225x20x51	01	-	-	-	●			●	●	A	36	P	VS	45	69936666932	1	+++	
225x20x51	01	-	-	-		●			●	A	46	N	VS	45	69936640814	1	+++	
225x20x51	01	-	-	-	●			●	●	A	60	N	VS	45	69936690246	1	+++	
225x25x76,2	01	-	-	-	●			●	●	39C	60	K	VS	45	69936640293	2	+++	
225x25x76,2	01	-	-	-	●			●	●	39C	80	K	VS	45	69936667106	2	+++	
225x25x76,2	01	-	-	-	●			●	●	39C	120	K	VS	45	69936675677	2	+++	
230x5x31,75	01	-	-	-	●			●	●	38A	60	L	VS	45	69936640245	1	+++	
230x25x32	01	-	-	-		●			●	●	38A	46	I	VS	45	69936681707	1	+++
230x25x50,8	01	-	-	-	●			●	●	38A	54	J	VS	45	69936675859	1	+++	
250x10x32	01	-	-	-	●			●	●	3SG	60	H12	VXP	45	69936676452	2	+++++	
250x13x32	01	-	-	-	●			●	●	SGB	60	H	VX	45	69936640943	2	+++	
250x25x31,75	01	-	-	-	●			●	●	38A	46	I	VS	45	69936640871	1	+++	
250x25x31,75	01	-	-	-	●			●	●	3SG	46	H	VX	45	66243570377	2	+++++	
250x25x31,75	01	-	-	-	●			●	●	3SG	60	H12	VXP	45	66243593705	2	+++++	
250x25x32	01	-	-	-		●			●	19A	54	J	VS	40	69936623905	2	+++	
250x25x32	01	-	-	-		●			●	39C	80	K	VS	35	69936639374	1	+++	
250x25x50,8	01	-	-	-	●			●	●	38A	60	H	VS	45	69936639829	1	+++	
250x10x32	01	-	-	-	●			●	●	38A	60	M	VS	63	69936675931	1	+++	
250x13x32	01	-	-	-	●			●	●	38A	60	L	VS3	35	69210431945	5	++++	
250x25x31,75	01	-	-	-	●			●	●	38A	60	L	VS3	63	66253348353	1	++++	
250x25x32	01	-	-	-	●			●	●	A	46	N	VS	35	69936623914	1	+++	
250x25x32	01	-	-	-	●			●	●	39C	60	K	VS	35	69936623664	1	+++	
250x25x32	01	-	-	-	●			●	●	38A	60	L5	VS	45	66253049927	1	+++	
250x25x32	01	-	-	-	●			●	●	A	46	N	VS	45	69936641386	1	+++	
250x25x32	01	-	-	-	●			●	●	39C	80	L	VS	45	69936675679	1	+++	

Recess/Inner concave Diameter

Recess/Concave Depth A

Recess/Concave Depth B

Tools

Saw Sharpening

Bench Wheels

Internal Diameter

External Diameter

Surface

High alloyed steels & HSS
Soft steels

Inox

Non-Ferrous & Carbide

Cast iron

INNOVATION
 Abrasive Type
 Grit size
 Grade
 Bond
 COLOUR CODE REFERENCE

CERAMIC

BLEND

NQN BLEND

38A

32A

SG BLEND

19A

A

ALUMINIUM

OXIDE TYPES

39C

37C

37C

A

DIM DxTxH (mm)	SHAPE	P	FA	FB	Deburring & Sharpening	Grinding	Materials	SPECIFICATION	MOS (m/s)	ART NO.	PK QTY	QUALITY TIER
250x25x76	01	-	-	-		● ● ● ○ ○ ○		2NQN 60 G VS3 35	69210469332	1	+++++	NEW
	01	-	-	-		● ● ○ ○ ○ ○		32A 60 I VS 35	69936639898	2	+++	
250x25x76,2	01	-	-	-		● ● ○ ○ ○ ○		2NQN 46 G VS3 35	69210469333	1	+++++	NEW
	01	-	-	-	●	● ○ ○ ○ ○ ○		3SG 46 K VS 45	69936623668	1	+++++	
	01	-	-	-	●	● ○ ○ ○ ○ ○		3SG 54 F11 VXP 45	69936676054	1	+++++	
	01	-	-	-	●	● ○ ○ ○ ○ ○		3SG 60 K VX 45	66253055045	1	+++++	
	01	-	-	-	●	● ○ ○ ○ ○ ○		SGB 46 K VX 45	66253050124	1	+++	
	01	-	-	-	●	● ○ ○ ○ ○ ○		SGB 60 K VX 45	66253050126	1	+++	
	01	-	-	-	●	● ○ ○ ○ ○ ○		SGB 70 H12 VXP 45	69936623901	1	+++	
	01	-	-	-	●	● ○ ○ ○ ○ ○	○	38A 46 K VS3 63	66253354041	1	+++	
	01	-	-	-	●	● ○ ○ ○ ○ ○	○	38A 60 K VS3 63	66253354040	1	+++	
	01	-	-	-	●	● ○ ○ ○ ○ ○	○	38A 80 L VS 45	69936623651	1	++	
250x32x32	01	-	-	-	●	● ○ ○ ○ ○ ○		SGB 60 K VX 45	66253050162	1	+++	
	01	-	-	-	●	● ○ ○ ○ ○ ○	○	38A 60 N VS 45	69936667158	1	++	
	01	-	-	-		● ○ ○ ○ ○ ○		A 36 P VS 45	69936666943	1	++	
	01	-	-	-		● ○ ○ ○ ○ ○		A 60 M VS 45	69936642130	1	++	
	01	-	-	-	●	● ○ ○ ○ ○ ○		39C 60 K VS 45	69936639837	1	++	
	01	-	-	-	●	● ○ ○ ○ ○ ○		39C 80 K VS 45	69936640845	1	++	
250x32x76,2	01	-	-	-	●	● ○ ○ ○ ○ ○		3SG 46 H VX 45	66253055046	1	+++++	
250x40x32	01	-	-	-		● ○ ○ ○ ○ ○		A 36 Q VS 45	69936666945	1	++	
	01	-	-	-		● ○ ○ ○ ○ ○		A 60 N VS 45	69936666946	1	++	
250x40x51	01	-	-	-		● ○ ○ ○ ○ ○	●	37C 60 K VK 35	69210431004	3	++	
250x40x76	01	-	-	-		● ○ ○ ○ ○ ○	○	38A 46 L VS3 35	69210432025	3	+++	
	01	-	-	-		● ○ ○ ○ ○ ○	○	38A 60 L VS3 35	69210431657	3	+++	
250x40x76,2	01	-	-	-	●	● ○ ○ ○ ○ ○		3SG 46 I VX 45	66253050259	1	+++++	
	01	-	-	-	●	● ○ ○ ○ ○ ○		3SG 46 G12 VXPC 45	69936676056	1	+++++	
300x25x127	01	-	-	-		● ○ ○ ○ ○ ○		3NQN 60 K VQN 45	69210469335	1	+++++	NEW
	01	-	-	-		● ○ ○ ○ ○ ○		2NQN 60 J VS3 45	69210469336	1	+++++	NEW
	01	-	-	-		● ○ ○ ○ ○ ○		3SG 46 K VV1 50	69210469422	1	+++++	NEW
	01	-	-	-		● ○ ○ ○ ○ ○		3SG 60 H12 VV1P 45	69210469625	1	+++++	NEW
	01	-	-	-		● ○ ○ ○ ○ ○		SGA 46 K VV1 50	69210469425	1	+++++	NEW
	01	-	-	-		● ○ ○ ○ ○ ○		SGA 60 K VV1 50	69210469426	1	+++++	NEW
	01	-	-	-		● ○ ○ ○ ○ ○		SGB 60 K VV1 45	69210469427	1	+++++	NEW
	01	-	-	-		● ○ ○ ○ ○ ○		SGA 80 L VV1 50	69210469428	1	+++++	NEW
	01	-	-	-		● ○ ○ ○ ○ ○	○	38A 60 K VS3 63	66253354042	2	+++	
	01	-	-	-		● ○ ○ ○ ○ ○	○	38A 60 K VV1 50	69210469429	1	+++++	NEW
	01	-	-	-		● ○ ○ ○ ○ ○	○	38A 80 L VV1 50	69210469521	1	+++++	NEW
	01	-	-	-		● ○ ○ ○ ○ ○		39C 60 K VS 45	69936623687	1	++	
	01	-	-	-		● ○ ○ ○ ○ ○		39C 80 J VS 45	69936640343	1	++	
	01	-	-	-		● ○ ○ ○ ○ ○		39C 120 K VS 35	69936675646	1	++	

BONDED ABRASIVES FOR PRECISION GRINDING

SHAPE 01 SHAPE 05 SHAPE 07 SHAPE 20 SHAPE 01C

PRODUCT RECOMMENDATION

Highly recommended
Recommended



Product Recommendation												
Highly recommended												
Recommended												
DIM DxTxH [mm]	SHAPE	P	FA	FB	Deburring & Sharpening	Grinding	Materials	SPECIFICATION	MOS [m/s]	ART NO.	PK QTY	QUALITY TIER
300x32x127	01	-	-	-			● ● ○		3SG 60 K WV1	50	69210469437	1 +++++ NEW
	01	-	-	-			● ● ○		SGB 46 F12 WV1P	45	69210469626	1 +++++ NEW
	01	-	-	-			● ● ○		SGB 60 K WV1	50	69210469439	1 +++++ NEW
	01	-	-	-			● ○ ○	○	38A 46 H WV1	50	69210469442	1 +++++ NEW
	01	-	-	-			● ○ ○	○	38A 60 L WV1	50	69210469443	1 +++++ NEW
	01	-	-	-	●		●		A 36 O VS	45	69936675580	1 +++
	01	-	-	-	●		●		A 46 N VS	45	69936675581	1 +++
300x32x32	01	-	-	-	●		○ ○	○	38A 60 N VS	45	69936639618	1 +++
	01	-	-	-	●		○ ○	○	38A 60 K VS	45	66253051100	1 +++
	01	-	-	-	●		●		A 36 O VS	45	69936675575	1 +++
300x32x76,2	01	-	-	-			○ ○ ○ ○	○	38A 46 H WV1	50	69210469444	1 +++ NEW
300x40x30	01	-	-	-	●		●		A 36 P VS	45	69936681734	1 +++
300x40x31,75	01	-	-	-	●		●		A 36 O VS	35	69936623686	1 +++
	01	-	-	-	●		●		A 46 N VS	35	69936623703	1 +++
	01	-	-	-	●		●		A 60 N VS	35	69936623724	1 +++
	01	-	-	-	●		● ●		39C 60 L VS	35	69936623682	1 +++
300x40x32	01	-	-	-	●		●		A 46 N VS	45	69936639682	1 +++
	01	-	-	-	●		●		A 60 M VS	45	69936640221	1 +++
	01	-	-	-	●		● ●		39C 60 K VS	45	69936639362	1 +++
	01	-	-	-	●		● ●		39C 80 K VS	45	69936676387	1 +++
300x40x76	01	-	-	-			○ ○ ○ ○	○	38A 60 K WV1	50	69210469445	1 +++ NEW
300x40x76,2	01	-	-	-	●		●		A 36 O VS	45	69936675607	1 +++
300x40x127	01	-	-	-			● ● ○		3SG 46 H WV1	50	69210469446	1 +++++ NEW
	01	-	-	-			● ● ○		3SG 60 K WV1	50	69210469447	1 +++++ NEW
	01	-	-	-			● ● ○		SGB 46 G10 WV1P	45	69210469651	1 +++++ NEW
	01	-	-	-			● ● ○		SGB 60 K WV1	50	69210469448	1 +++++ NEW
	05	190	12	-			● ○ ○		SGA 60 K WV1	50	69210469449	1 +++++ NEW
	01	-	-	-			● ○ ○	○	38A 46 J WV1	50	69210469450	1 +++++ NEW
	01	-	-	-			● ○ ○	○	38A 60 L WV1	50	69210469451	1 +++++ NEW
	05	190	12	-			● ○ ○	○	38A 60 L WV1	50	69210469452	1 +++++ NEW
	05	190	12	-			● ●		19A 60 M WV1	50	69210469453	1 +++++ NEW
	01	-	-	-	●		●		A 36 O VS	45	69936675584	1 +++
	01	-	-	-	●		●		A 46 N VS	45	69936675585	1 +++
	01	-	-	-			●	● ●	39C 60 K VS	45	69936675684	1 +++
	01	-	-	-			●	● ●	39C 80 K VS	45	69936675649	1 +++
300x50x32	01	-	-	-	●		●		A 36 O VS	45	69936681823	1 +++
	01	-	-	-	●		●		A 60 N VS	45	66243570484	1 +++
300x50x76,2	07	160	10	10			● ○ ○	○	3SG 46 H WV1	50	69210469454	1 +++++ NEW
	01	-	-	-			● ○ ○	○	38A 46 I WV1	50	69210469455	1 +++++ NEW

HSS = High Speed Steel

Steel hardened = Over 50Rc

Steel soft = Up to 50Rc

COLOUR CODE REFERENCE

CERAMIC BLENDS	ALUMINIUM OXIDE TYPES	SILICON CARBIDE TYPES
NQN BLEND	38A	39C
NQ BLEND	32A	37C
SG BLEND	19A	A

INNOVATION

DIM DxTxH [mm]	SHAPE	P	FA	FB	Deburring & Sharpening	Tools	Saw Sharpening	Bench Wheels	Internal Diameter	External Diameter	Surface	High alloyed steels & HSS	Soft steels	Inox	Non-Ferrous & Carbide	Cast iron	Abrasive Type		Grit size	Grade	Bond	MOS (m/s)	ART NO.	PK QTY	QUALITY TIER
																	Grinding	Materials							
300x50x127	01	-	-	-													● ● ○	● ● ○	38A	46 H11 WV1P	45	69210469652	1	+++++ NEW	
	01	-	-	-													● ● ○	● ● ○		46 G10 WV1P	45	69210469627	1	+++++ NEW	
	01	-	-	-													● ○	● ○ ○		46 J WV1	50	69210469456	1	+++++ NEW	
350x50x127	01	-	-	-													● ○ ○ ○	● ○ ○ ○	38A	80 L VS3	35	69210431072	2	+++	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		60 L WV1	50	69210469457	1	+++++ NEW	
355x25x127	01	-	-	-													● ○ ○ ○	● ○ ○ ○	38A	60 K WV1	50	69210469458	1	+++++ NEW	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		46 J WV1	50	69210469459	1	+++++ NEW	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		60 L WV1	50	69210469460	1	+++++ NEW	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		60 L WV1	50	69210469461	1	+++++ NEW	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		2NQ 60 J VS3	45	66253348373	1	+++++	
355x32x127	01	-	-	-													● ○ ○ ○	● ○ ○ ○	38A	54 E12 WV1P	45	69210469658	1	+++++ NEW	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		60 L WV1	50	69210469462	1	+++++ NEW	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		2NQ 46 G VS3	45	66253348367	1	+++++	
355x40x127	01	-	-	-													● ○ ○ ○	● ○ ○ ○	38A	60 L WV1	50	69210469463	1	+++++ NEW	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		60 K WV1	50	69210469464	1	+++++ NEW	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		46 J WV1	50	69210469465	1	+++++ NEW	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		46 G10 WV1P	45	69210469628	1	+++++ NEW	
	05	215	13	-													● ○ ○ ○	● ○ ○ ○		60 L WV1	50	69210469467	1	+++++ NEW	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		46 J WV1	50	69210469468	1	+++++ NEW	
	01	-	-	-													● ○ ○ ○	● ○ ○ ○		60 L WV1	50	69210469469	1	+++++ NEW	
	01	-	-	-		●										●	●		24 Q VS	45	69936675586	1	+++		
	01	-	-	-		●													46 N VS	45	69936675587	1	+++		
	01	-	-	-												● ○ ○ ○	● ○ ○ ○	38A	60 K VS	45	69936675685	1	+++		
355x50x127	01	-	-	-															3NQ 46 H VQN	45	66253262049	1	+++++		
	01	-	-	-															2NQ 46 G VS3	45	66253348366	1	+++++		
	01	-	-	-															3SG 46 J WV1	50	69210469470	1	+++++ NEW		
	01	-	-	-															3SG 46 F12 WV1P	45	69210469634	1	+++++ NEW		
	01	-	-	-															SGB 46 J WV1	50	69210469471	2	+++++ NEW		
	01	-	-	-															SGA 54 G12 WV1P	50	69210469635	1	+++++ NEW		
	01	-	-	-															SGB 54 G10 WV1P	45	69210469632	1	+++++ NEW		
	01	-	-	-															SGB 60 K WV1	50	69210469472	1	+++++ NEW		
	01	-	-	-															38A 46 K WV1	50	69210469473	1	+++++ NEW		
	01	-	-	-															38A 46 I WV1	50	69210469474	1	+++++ NEW		
	01	-	-	-															38A 60 L WV1	50	69210469475	1	+++++ NEW		
400x25x127	01	-	-	-												● ○ ○ ○	● ○ ○ ○	38A	60 L WV1	50	69210469476	1	+++++ NEW		
400x50x127	01	-	-	-															38A 60 K WV1	50	69210469477	1	+++++ NEW		
	01	-	-	-												● ○ ○ ○	● ○ ○ ○	A	36 O VS	45	69936675589	1	+++		
	01	-	-	-															SGB 60 K WV1	50	69210469478	1	+++++ NEW		
	01	-	-	-												● ○ ○ ○	● ○ ○ ○	38A	60 L VS3	45	69210431108	1	+++		
	01	-	-	-															38A 60 L VS3	45	69210431108	1	+++		

BONDED ABRASIVES FOR PRECISION GRINDING

SHAPE 01

SHAPE 05

SHAPE 07

SHAPE 20

SHAPE 01C

PRODUCT RECOMMENDATION

Highly recommended
Recommended



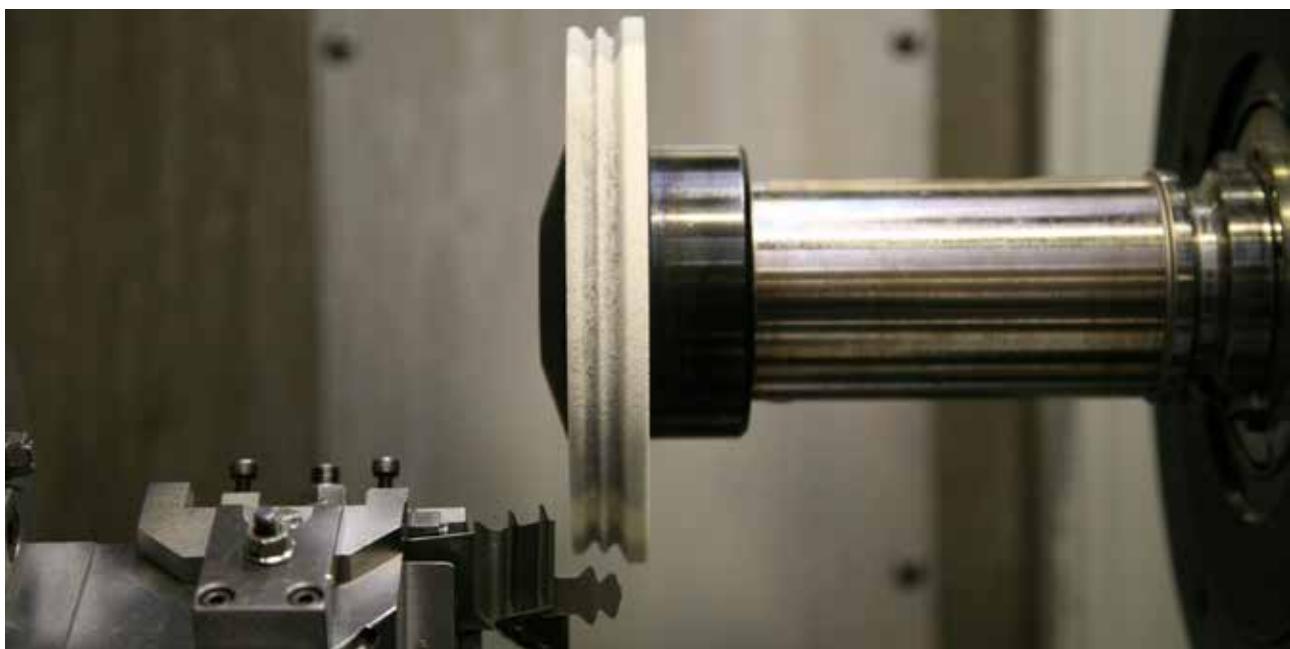
DIM DxTxH [mm]	SHAPE	P	FA	FB	Deburring & Sharpening	Grinding	Materials	SPECIFICATION		MOS (m/s)	ART NO.	PK QTY	QUALITY TIER				
								Recess/Inner concave Diameter	Recess/Concave Depth A					Abrasive Type	Grit size	Grade	Bond
400x50x203	01	-	-	-		●	○ ● ○		○	38A 60 L VS3 45	69210431757	1	++++				
406x25x127	01	-	-	-		○	● ○ ● ○			3SG 60 L VV1 50	69210469479	1	+++++ NEW				
	01	-	-	-		●	○ ○ ● ○			SGA 80 I10 VV1P 50	69210469637	1	+++++ NEW				
	01	-	-	-		○	● ○ ○ ○		○	38A 60 L VV1 50	69210469480	1	+++++ NEW				
406x32x127	01	-	-	-		○	● ○ ○ ○		○	38A 60 L VV1 50	69210469481	1	+++++ NEW				
406x40x127	01	-	-	-		○	● ○ ○ ○			3SG 60 L VV1 50	69210469482	1	+++++ NEW				
	01	-	-	-		○	● ○ ○ ○			SGB 60 K VV1 50	69210469483	1	+++++ NEW				
	20	215	8	-		○	● ○ ○ ○			GF 60 K VX 50	66243469015	1	++++				
	01	-	-	-		○	● ○ ○ ○		○	38A 60 J VS3 45	66253348356	1	++++				
	20	215	13	-		○	● ○ ○ ○		○	38A 60 N VS 35	66243448167	1	+++				
	05	215	13	-		○	● ○ ○ ○		○	38A 60 M VV1 50	69210469484	1	+++++ NEW				
	05	215	13	-		○	● ○ ○ ○			32A 60 K VV1 50	69210469485	1	+++++ NEW				
	05	215	13	-		○	● ○ ○ ○		● ●	39C 60 J VS 50	66243468572	1	+++				
	01	-	-	-		○	● ○ ○ ○		● ●	39C 80 K VS 45	66243466414	1	+++				
406x50x127	01	-	-	-		○	● ○ ○ ○			3SG 46 H VV1 50	69210469486	1	+++++ NEW				
	01	-	-	-		●	● ○ ○ ○			5SG 46 G12 VV1P 45	69210469677	1	+++++ NEW				
	05	215	13	-		○	● ○ ○ ○			3SG 46 I VV1 50	69210469487	1	+++++ NEW				
	05	215	13	-		●	● ○ ○ ○			3SG 46 F12 VV1P 35	69210469679	1	+++++ NEW				
	01	-	-	-		●	● ○ ○ ○			3SG 54 F12 VV1P 45	69210469681	1	+++++ NEW				
	05	215	13	-		●	● ○ ○ ○			3SG 54 E12 VV1P 35	69210469682	1	+++++ NEW				
	05	215	13	-		●	● ○ ○ ○			3SG 54 D12 VV1P 35	69210469683	1	+++++ NEW				
	20	215	13	-		○	● ○ ○ ○			3SG 60 K VS 35	66243448204	1	+++++				
	05	215	13	-		●	● ○ ○ ○			SGB 54 E12 VV1P 35	69210469659	1	+++++ NEW				
	01	-	-	-		●	● ○ ○ ○			SGB 46 G10 VV1P 45	69210469645	1	+++++ NEW				
	01	-	-	-		○	● ○ ○ ○			SGB 46 H VV1 50	69210469488	1	+++++ NEW				
	05	215	13	-		●	● ○ ○ ○			SGB 46 F12 VV1P 35	69210469660	1	+++++ NEW				
	01	-	-	-		○	● ○ ○ ○			SGB 60 K VV1 50	69210469489	1	+++++ NEW				
	01	-	-	-		●	● ○ ○ ○			SGA 80 I10 VV1P 50	69210469661	1	+++++ NEW				
	05	215	13	-		○	● ○ ○ ○			SGB 46 I VV1 50	69210469490	1	+++++ NEW				
	05	215	13	-		●	● ○ ○ ○			SGB 46 F12 VV1P 45	69210469684	1	+++++ NEW				
	05	215	13	-		○	● ○ ○ ○			SGB 60 L VV1 50	69210469491	1	+++++ NEW				
	20	215	8	-		○	● ○ ○ ○			GF 60 L VX 50	66243468989	1	+++				
	20	215	8	-		○	● ○ ○ ○			GF 60 K VX 50	66243468991	1	+++				
	01	-	-	-		●	● ○ ○ ○		○	38A 46 I11 VV1P 45	69210469685	1	+++++ NEW				
	05	215	13	-		○	● ○ ○ ○		○	38A 46 I VV1 50	69210469492	1	+++++ NEW				
	05	215	13	-		●	● ○ ○ ○		○	38A 46 F12 VV1P 45	69210469663	1	+++++ NEW				
	20	215	13	-		○	● ○ ○ ○		○	38A 60 K VS 35	66243448201	1	+++				
	20	215	13	-		○	● ○ ○ ○		○	38A 60 M VS 35	66243448116	1	+++				
	05	215	13	-		○	● ○ ○ ○			32A 46 J VV1 50	69210469493	1	+++++ NEW				
	05	215	13	-		○	● ○ ○ ○			32A 46 I VV1 50	69210469494	1	+++++ NEW				
	05	215	13	-		●	● ○ ○ ○			32A 46 F12 VV1P 45	69210469676	1	+++++ NEW				
	01	-	-	-	●		●		●	A 24 Q VS 45	66243467496	1	+++	►			

COLOUR CODE REFERENCE

CERAMIC BLENDS	ALUMINIUM OXIDE TYPES	SILICON CARBIDE TYPES
NQN BLEND	38A	39C
NQ BLEND	32A	37C
SG BLEND	19A	
	A	

INNOVATION

DIM DxTxH [mm]	SHAPE	P	FA	FB	Deburring & Sharpening	Grinding	Materials	SPECIFICATION		MOS (m/s)	ART NO.	PK QTY	QUALITY TIER
								Abrasive Type	Grit size				
406x63x127	07	215	12	12				●	●	45	69210469689	1	+++++ NEW
	20	215	13	-		●	●	●	●			1	++++
406x76x127	07	215	12	25				●	●	50	66243468993	1	+++++ NEW
	07	215	12	25				●	●			1	+++++ NEW
406x100x152,4	07	215	13	25				●	●	45	69210469691	1	+++++ NEW
	07	215	13	25				●	●			1	+++++ NEW
457x50x127	07	215	12	25				●	●	50	69210469692	1	+++++ NEW
	07	215	12	25				●	●			1	+++++ NEW
457x50x203,2	01	-	-	-				●	●	45	69210469693	1	+++++ NEW
	20	215	13	-				●	●			1	++++
457x63x127	01	-	-	-				●	●	50	66243449287	1	+++++
	20	215	13	-				●	●			1	++++
457x80x203,2	07	290	13	13				●	●	35	66243449285	1	++++
	07	280	13	13				●	●			1	++++
508x50x203,2	01	-	-	-				●	●	45	66243446558	1	+++++
	01	-	-	-				●	●			1	+++
500x60x203	20	290	10	-				●	●	50	66243448676	1	+++
	20	290	10	-				●	●			1	+++





STRAIGHT & TAPERED CUPS FOR PRECISION GRINDING

SHAPE KEY



SHAPE 06



SHAPE 11

PRODUCT RECOMMENDATION

Highly recommended
Recommended



DIM DxTxH (mm)	SHAPE	W	E	Rim Width	Back Thickness	Tools	Saw Sharpening	Bench Wheels	Internal Diameter	External Diameter	Surface	High alloyed steels & HSS Soft steels	Inox	Non-Ferrous & Carbide	Cast Iron	SPECIFICATION			MOS (m/s)	ART NO.	PK QTY	QUALITY TIER
																Grit size	Grade	Bond				
63x40x20	6	10	10	●					●	●	●			●		38A 60 J VS3 45	66253348322	10	++++			
80x32x20	11	6	8	●					●	●	●					SGB 60 L VX 45	66253050137	6	++++			
80x40x20	6	10	10	●					●	●	●					SGB 60 L VX 45	66253050098	10	++++			
	6	6	10	●					●	●	●					SGB 60 J VX 45	66243570391	10	++++			
	6	6	8	●					●	●	●			●		38A 60 L VS3 63	66253348323	6	+++			
	6	8	8	●					●	●	●			●		38A 60 J VS3 63	66253348289	6	+++			
80x40x32	6	10	10	●					●	●	●			●		38A 46 J VS3 45	66253348326	10	+++			
100x40x20	11	8	10	●					●	●	●					3SG 60 K VX 45	66253050110	2	+++++			
	11	8	10	●					●	●	●			●		38A 60 K VS 45	69936686170	2	+++			
	11	8	10	●					●	●	●			●		38A 60 L VS 45	69936688495	2	++*			
100x40x31,75	11	6	13	●					●	●	●					3SG 60 K VS 32	69936624043	2	+++++			
	11	6	13	●					●	●	●			●		38A 46 J VS3 35	66253358217	2	+++			
	11	6	13	●					●	●	●			●		38A 60 J VS3 35	66253358216	2	+++			
	11	6	13	●					●	●	●			●		38A 60 J VS3 32	66253348630	2	+++			
100x40x32	11	13	13	●					●	●	●	●				2NQ 46 J VS3 45	66253348633	2	+++++			
	11	8	10	●					●	●	●					3SG 60 K VX 45	66253050114	2	+++++			
	6	8	10	●					●	●	●					38A 60 K VS 45	69936674854	2	++*			
	11	8	10	●					●	●	●					38A 60 K VS 45	69936686169	2	++*			
100x50x20	6	10	10	●					●	●	●					3SG 60 K VX 45	66253049965	2	+++++			
	6	10	13	●					●	●	●					3SG 60 L VX 45	66253049960	2	+++++	►		

HSS = High Speed Steel

Steel hardened = Over 50Rc

Steel soft = Up to 50Rc

COLOUR CODE REFERENCE

CERAMIC BLENDS	ALUMINIUM OXIDE TYPES	SILICON CARBIDE TYPES
NQN BLEND	38A	39C
NQ BLEND	32A	37C
SG BLEND	19A	
	A	

INNOVATION

DIM DxTxH (mm)	SHAPE	W	E	Deburring & Sharpening	Tools	Saw Sharpening	Bench Wheels	Internal Diameter	External Diameter	Surface	High alloyed steels & HSS	Soft steels	Inox	Non-Ferrous & Carbide	Cast iron	Abrasive Type	Grit size	Grade	Bond	SPECIFICATION	MOS (m/s)	ART NO.	PK QTY	QUALITY TIER
100x50x20	6	10	13	●				○	● ○							■ 3SG 80 L VX 45				66253049966		2	+++++	
	6	10	10	●				○	● ○							■ 3SG 60 J VX 45				66253050069		2	+++++	
	6	8	10	●				○	● ○							■ SGB 60 K VX 45				69936641284		2	+++	
	6	10	10	●				○	○ ●			●				■ 38A 60 J VS3 45				66253348327		2	+++	
	6	10	10	●				○	○ ●			●				■ 38A 60 I VS3 45				66253348629		2	+++	
	6	10	13	●				○	○ ●			●				■ 38A 80 J VS3 45				66253348324		2	+++	
	6	10	10	●				○	○ ●			●				■ 38A 120 I8 VS3 45				66253358793		2	+++	
	6	10	10	●				○	○ ●			●				■ 38A 46 K VS 45				69936644193		2	++*	
	6	10	13	●				○	○ ●			●				■ 38A 60 L VS 45				69936639450		2	++*	
	6	10	13	●				○	○ ●			●				■ 38A 60 M VS 45				69936639460		2	++*	
	6	10	10	●				○	○ ●			●				■ 38A 80 J VS 45				69936639600		2	++*	
	6	10	13	●				○		● ●						■ ■ 39C 80 J VS 45				69936640131		2	++*	
100x50x32	6	10	10	●				○	● ○							■ ■ 3SG 60 K VX 45				66253050073		2	+++++	
	6	10	10	●				○	○ ●			●				■ ■ 38A 60 K VS 45				69936674859		2	++*	
125x40x31,75	6	13	13	●				○	○ ●			●				■ ■ 38A 60 J8 VS3 45				66253358795		2	+++	
	11	8	10	●				○	●			●				■ ■ 38A 60 J6 VS3 35				66253358219		2	+++	
125x40x32	11	8	10	●				●	○							■ ■ SGB 46 J VX 45				69936682429		2	+++	
	11	8	10	●				○	●			●				■ ■ 38A 46 K VS 45				69936686175		2	++*	
	11	8	10	●				○	●			●				■ ■ 38A 60 K VS 45				69936686176		2	++*	
125x45x20	11	6	13	●				●	○							■ ■ 3SG 46 K VX 45				66253055954		2	+++++	
	11	6	13	●				●	○			●				■ ■ SGB 60 K VX 45				69936686736		2	+++	
125x50x32	6	13	13	●				○	● ○							■ ■ SGB 60 J VX 45				66253050075		2	+++	
	6	13	13	●				○	○ ●			●				■ ■ 38A 46 K VS 45				69936674867		2	++*	
	6	10	13	●				○	○ ●			●				■ ■ 38A 60 L VS 45				69936639992		2	++*	
125x63x32	6	10	13	●				○	● ○							■ ■ SGB 60 K VX 45				69936640579		2	+++	
	6	25	16	●				○		● ●						■ ■ ■ 39C 60 J V 45				69936668305		2	++*	
150x40x32	6	16	13	●				○	○ ●			●				■ ■ 38A 46 H VS 45				69936674872		2	++*	
	6	16	13	●				○	○ ●			●				■ ■ 38A 60 K VS 45				69936674875		2	++*	
150x50x32	6	16	16	●				○	● ○							■ ■ 3SG 46 K VX 45				66253050068		2	+++++	
	11	10	13	●				●	○							■ ■ SGB 46 J VX 45				66253050133		2	+++	
	6	16	16	●				○	● ○							■ ■ SGB 60 K VX 45				66253050076		2	+++	
	11	10	13	●				●	○							■ ■ SGB 60 K VX 45				66253050134		2	+++	
	11	10	13	●				○	●			●				■ ■ 38A 46 K VS 45				69936686177		2	++*	
	6	16	16	●				○	○ ●			●				■ ■ 38A 60 K VS 45				69936674879		2	++*	
	11	10	13	●				○	● ●			●				■ ■ 38A 60 K VS 45				69936682576		2	++*	
150x50x65	6	20	16	●				○	○ ●			●				■ ■ 38A 60 L VS 45				69936639480		2	++*	
	6	20	16	●				○		● ●						■ ■ ■ 39C 80 J VS 32				69936639798		2	++*	
150x60x32	6	10	16	●				○	● ○							■ ■ ■ SGB 54 K VX 45				66253050099		2	+++	
150x63x32	6	13	13	●				○	● ○							■ ■ ■ SGB 46 J VX 45				66253054727		2	+++	
	6	16	16	●				○	○ ●			●				■ ■ 38A 36 I VS 45				69936640369		2	++*	
	6	16	16	●				○	○ ●			●				■ ■ 38A 46 J VS 45				69936674881		2	++*	
150x63x50,8	6	16	16	●				○	● ○							■ ■ ■ SGB 36 H VX 45				66253050080		2	+++	
	6	16	16	●				○	● ○							■ ■ ■ SGB 60 J VX 45				66253050082		2	+++	

BONDED ABRASIVES FOR PRECISION GRINDING

PRODUCT RECOMMENDATION

Highly recommended
Recommended



DIM DxTxH [mm]	SHAPE	W	E	Deburring & Sharpening	Tools	Back Thickness	Rim Width	Saw Sharpening	Bench Wheels	Internal Diameter	External Diameter	Surface	High alloyed steels & HSS	Soft steels	Inox	Non-Ferrous & Carbide	Cast iron	SPECIFICATION				MOS [m/s]	ART NO.	PK QTY	QUALITY TIER
150x80x32	6	20	20	●				●	● ● ○										■ SGB 46 H VX 45	66253050096	2	++++			
	6	20	20	●				●	● ● ○										■ SGB 46 G10 VXP 45	69936676357	2	++++			
	6	20	20	●				●	● ○ ●					●	■ 38A 46 H VS 45	69936674905	2	+++							
	6	20	20	●				●	● ○ ●					●	■ 38A 46 I VS 45	69936658606	2	+++							
165x63x32	6	10	13	●				●	● ○ ●					●	■ 38A 46 F12 VXP 45	66253051529	2	+++							
175x75x76,2	6	20	20	●				●	● ○ ○						■ SGB 46 G11 VXP 45	66253050097	2	++++							
	6	20	20	●				●	● ○ ●					●	■ 38A 36 I VS 45	69936681747	2	+++							
180x40x76,2	6	32	13	●				●	● ○ ●					●	■ 38A 46 M VS 45	69936674884	2	+++							
180x63x50,8	6	16	16	●				●	● ○ ○						■ SGB 46 J VX 45	66253050084	2	++++							
	6	16	16	●				●	● ○ ●					●	■ 38A 36 H VS 45	69936674887	2	+++							
180x76x32	6	16	16	●				●	● ○ ●					●	■ 38A 36 I VS 45	69936639449	2	+++							
180x76x78	6	16	16	●				●	● ○ ○						■ 3SG 36 I VX 45	66253049962	2	+++++							
	6	16	16	●				●	● ○ ●					●	■ 38A 36 I VS3 45	66253348321	2	+++							
	6	16	16	●				●	● ○ ●					●	■ 38A 36 J VS 45	69936639817	2	+++							
	6	16	16	●				●	● ○ ●					●	■ 38A 46 H VS 45	69936639616	2	+++							
180x80x32	6	16	16	●				●	● ○ ●					●	■ 38A 46 H VS 45	69936674889	2	+++							
200x40x32	6	45	15	●				●	● ○ ●					●	■ 38A 46 L VS 45	66243570536	2	+++							
	6	45	15	●				●	● ○ ●					●	■ 38A 60 L VS 45	66243570537	2	+++							
200x40x76,2	6	40	13	●				●	● ○ ○						■ SGB 60 L VX 45	66253050087	2	++++							
	6	40	13	●				●	● ○ ●					●	■ 38A 46 M VS 45	69936674890	2	+++							
	6	40	13	●				●		● ● ●					■ 39C 60 J V 45	69936668347	2	+++							
200x63x50,8	6	20	20	●				●	● ○ ●					●	■ 38A 46 H VS 45	69936674898	2	+++							
200x82x78	6	16	20	●				●	● ○ ○						■ 3SG 36 I VX 45	66253049964	2	+++++							
	6	16	20	●				●	● ○ ○						■ SGB 36 H10 VXP 45	69936679013	2	++++							
	6	16	20	●				●	● ○ ●					●	■ 38A 36 H VS3 45	66253348319	2	++++							
	6	16	20	●				●	● ○ ●					●	■ 38A 46 H VS3 45	66253348325	2	++++							
300x63x127	6	40	20	●				●		● ● ●					■ 39C 60 J V 45	69936668365	1	+++							

HSS = High Speed Steel

Steel hardened = Over 50Rc

Steel soft = Up to 50Rc



DISHES FOR PRECISION GRINDING

SHAPE KEY



SHAPE 12

PRODUCT RECOMMENDATION

Highly recommended Recommended

COLOUR CODE REFERENCE

CERAMIC BLENDS	ALUMINIUM OXIDE TYPES	SILICON CARBIDE TYPES
NQN BLEND	38A	39C
NQ BLEND	32A	37C
SG BLEND	19A	A

DIM DxTxH (mm)	W	E	J	K	U	Deburring & Sharpening	Grinding	Materials	SPECIFICATION		MOS (m/s)	ART NO.	PK QTY	QUALITY TIER
									Grit size	Grade				
100x13x12,7	5	7	45	50	2,5	●		●	38A 60	K VS	45	69936624605	2	+++
100x13x20	5	7	41	41	3,2	●		●	3SG 60	K VX	45	66253050236	2	+++++
	5	7	41	41	3,2	●		●	38A 60	J VS3	45	66253348382	2	++++
125x13x20	6	7	61	61	3,2	●		●	2NQ60	J VS3	45	66253348378	2	+++++
	6	7	61	61	3,2	●		●	3SG 60	J VX	45	69936686768	2	+++++
	6	7	61	61	3,2	●		●	38A 60	J VS3	45	66253348488	2	++++
150x13x20	8	9	56	56	3,2	●		●	3SG 60	L VX	45	66253050231	2	+++++
	8	9	56	56	3,2	●		●	SGB46	K VS3	45	66253348384	2	++++
	8	9	56	56	3,2	●		●	SGB60	K VS3	45	66253348379	2	++++
150x13x32	7	9	86	86	3,2	●		●	3SG 60	K VX	45	66253050239	2	+++++
	7	9	86	86	3,2	●		●	38A 46	K VS	45	69936686194	2	+++
	7	9	86	86	3,2	●		●	38A 60	J VS3	45	66253348380	2	+++
150x20x32	8	9	87	87	3,2	●		●	SGB60	K VX	45	66253050245	2	+++
200x20x32	10	12	90	90	3,2	●		●	38A 60	K VS	45	69936686215	2	+++
200x32x32	10	12	92	92	3,2	●		●	SGB46	I VX	45	66253050253	2	+++