



NORTON

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Bonded Abrasives

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

APPLICATIONS & MARKETS

- Surface grinding
- Tool & cutter grinding
- Sharpening
- Internal grinding
- Cylindrical grinding



MIDAS TO
CORRECT
MONTAGE

INNOVATION
BEST

1TGP

Type 01

FEATURES	BENEFITS
■ High performance SG [®] ceramic aluminium oxide abrasive	■ Blend of premium TG grain with pink alumina
■ Harder & sharper than conventional abrasive grains	■ Extremely high removal rate & wheel life
■ Unique, self sharpening, microcrystalline structure	■ Effective when productivity is the primary concern
■ Elongated grain shape	■ Suitable for medium to high power & stiff machines



IPA VORTEX TECHNOLOGY

Type 01

FEATURES	BENEFITS
■ High performance engineered alumina grain	■ Very high metal removal rates, resulting in reduced cycle times
■ High porosity & permeability for maximum coolant diffusion	■ Lower total cost per hour
■ Optimal grain spacing for improved chip clearance & reduced friction	■ Increase wheel life ■ Consistent grinding performance ■ Extremely cool cutting action promoting burn free results



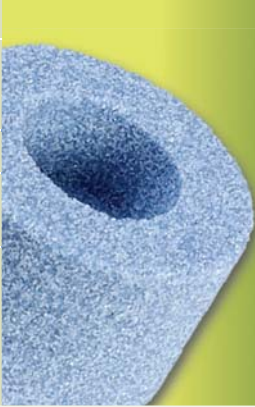
MIDAS TO
AMEND IMAGE

INNOVATION
BEST

ES5

Type 01 Type 05

FEATURES	BENEFITS
■ High performance SG [®] ceramic aluminium oxide abrasive	■ Very high concentration of ceramic ES grain
■ Exploded sintered grain	■ High removal rate & extended wheel life
■ Self-fracturing grain with very sharp edges	■ Ultimate cutting capability
■ Flaky grain shape	■ Exceptional sharpness for work under very low pressure ■ Primarily used in ID grinding

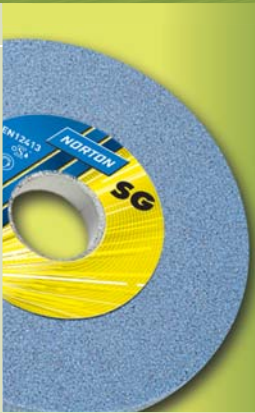


INNOVATION
BEST

5SG[®]

Type 01

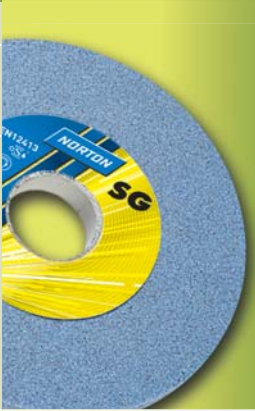
FEATURES	BENEFITS
■ Very high concentration of SG [®] ceramic aluminium oxide abrasive	■ Ultimate cutting capability ■ High removal rate & extended wheel life ■ Perfect for technical applications where grinding parameters can be adjusted to optimise performance



3SG[®]

Type 01

FEATURES	BENEFITS
■ High concentration of SG [®] ceramic aluminum oxide abrasive	■ Very good cutting capability
■ Unique, self sharpening, microcrystalline structure	■ High removal rate & extended wheel life ■ Suitable for very hard steels





BETTER

SGB

Type 01 Type 05

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

Type 01 Type 05

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

Type 01 Type 05

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

Type 01

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



57A

Type 01

FEATURES

- Semi-pure brown fused aluminium oxide abrasive
- High durability

BENEFITS

- For use on steel & steel alloys
- Versatile, durable, & free cutting
- Economical
- Ideal for general purpose applications



GOOD

STRAIGHT WHEELS

DIM DxTxB (mm)	SHAPE	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
				INNOVATION					
Type 01 Type 05									
10x10x4	01	50	10	ES5 60 K VX	66253050152				
13x13x4	01	50	10	ES5 60 K VX	66253050120				
13x13x4,76	05	50	10	ES5 60 K VX	66253049906				
16x16x6	01	50	10	ES5 60 K VX	66253050153			38A 60 LVS	66253050359
16x16x6	05	50	10	ES5 60 LVX	66253049919				
20x20x6	01	50	10					38A 60 LVS	69936641129
20x20x6	05	50	10	ES5 60 K VX	66253049935	SGB 60 K VX	69936681793		
20x20x6,35	05	50	10	ES5 60 K VX	66253049908				
25x25x6,35	05	50	10	ES5 60 K VX	66253049890			38A 60 LVS	69936621516
25x25x8	05	50	10	ES5 60 LVX	66253049913				
25x25x8	05	50	10	ES5 60 JVX	66253049943	SGB 60 K VX	69936681795		
32x20x10	05	50	10			SGB 60 JVX	69936641074		
32x25x8	05	50	10	ES5 60 JVX	66253049945				
32x30x10	05	50	10			SGB 60 K VX	69936681798		
32x32x9,53	05	50	10	ES5 60 K VX	66253049912				
32x32x10	05	50	10			SGB 60 JVX	69936676291	38A 60 LVS	69936675118
40x25x9,53	05	50	10	ES5 60 K VX	66253049903				
40x25x10	05	50	10	ES5 60 K VX	66253049922				
40x32x10	05	50	10	ES5 60 LVX	66253049940				
40x40x10	05	50	10	ES5 60 K VX	66253049916				
50x6x6	01	50	10					38A 60 NVS	69936675122
50x32x13	05	50	10	ES5 60 LVX	66253049938				
50x40x10	05	50	10					86A 60 KVTECH	66253049914
50x40x12,7	05	50	10	ES5 60 K VX	66253049889			38A 60 LVS	69936621569
50x40x13	05	50	10	ES5 60 K VX	66253049949				
50x40x16	05	50	10	ES5 60 K VX	66253049926			86A 60 KVTECH	66253049929
63x10x20	01	50	10					38A 60 NVS	66253050376
63x40x12,7	05	50	10	ES5 60 K VX	66253049910			38A 60 LVS	69936621565
65x50x16	05	50	10			SGB 60 JVX	69936676211		
76x32x20	05	50	10	ES5 60 K VX	66253049931				
80x10x32	01	50	10					38A 60 LVS	66253050241
100x6x32	01	50	2					38A 60 LVS	66253050244
100x10x32	01	50	2	3SG 60 K VX	66253050246			38A 60 LVS	66253050404
100x13x32	01	50	2			SGB 60 K VX	66253049862	38A 60 LVS	66253050409
100x16x32	01	50	2	3SG 46 K VX	66253050283				
100x20x32	01	50	2					38A 46 KVS	66253054532
	01	50	2					38A 60 KVS	66253051062
	01	50	2					38A 60 LVS	66253050413
125x6x32	01	50	2	3SG 60 LVX	66253054862			38A 60 LVS	66253050440
	01	50	2					38A 60 NVS	69936675721
125x8x32	01	50	2					38A 60 LVS	66253050443

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 Technical Information section at the back of this catalogue.

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





STRAIGHT WHEELS (CONTINUED)									
DIM DxTxB(mm)	SHAPE	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
Type 01 Type 01F									
125x10x32	01	50	2					38A 46 JVS	66253050441
	01	50	2					38A 60 KVS	66253051063
	01	50	2					38A 60 LVS	69936675731
	01	50	2					38A 80 LVS	66253050254
	01	50	2					38A 120 JVS	66253050449
125x13x32	01	50	2	3SG 60 JVX	66253050290			38A 100 JVS	66253050257
125x16x32	01	50	2					38A 60 MVS	66253050237
125x20x32	01	50	2	3SG 60 JVX	66253050255	SGB 60 LVX	66253050286	38A 60 KVS	66253050620
	01	50	2					38A 60 LVS	69936675736
150x2x32	01	63	6					38A 80 NVS TTVS	69936677254
150x3,2x32	01	63	6					19A 60 MVS MTVS	69936675941
150x4x20	01	63	6					38A 60 LVS TTVS	69936675591
	01	63	6					38A 80 NVS TTVS	69936676720
	01	63	6					38A 100 MVS MTVS	69936640219
150x4x30	01	63	6	3SG 80 NVX	69936678980			38A 80 NVS TTVS	69936639730
150x4x32	01	63	6					19A 60 MVS MTVS	69936674920
	01	63	6					19A 60 OVS MDVS	69936675946
150x6x20	01F	63	6					86A 80 OVS DDVS	69936686760
150x6x32	01	50	2	3SG 60 LVX	66253055040	SGB 80 LVX	66253049867	38A 80 NVS	69936641572
	01	50	2	3SG 80 LVX	66253054873			38A 120 JVS	69936675746
	01	50	2					38A 80 KVS	66253051068
	01F	63	6					19A 60 MVS MTVS	69936675964
	01F	63	6					19A 60 OVS MDVS	69936675963
150x6x38	01	50	2			SGB 60 KVX	66253049900		
150x8x20	01F	63	6					86A 80 OVS DDVS	69936686743
150x8x32	01	50	2	3SG 60 JVX	66253055041			38A 60 LVS	69936675743
	01	50	2					38A 80 MVS	66253050388
	01	50	2					38A 120 JVS	69936675748
	01F	63	6					38A 60 MVS T6	69936658071
	01F	63	6	3SG 80 NVX	66253052706			19A 60 NVS MTVS	66253051097
150x10x32	01	50	2	5SG 60 KVX	69936640331	SGB 60 KVX	66253049871	38A 46 KVS	66253051072
	01	50	2	3SG 60 LVX	66253050280	SGB 100 JVX	66253049894	38A 46 MVS	66253050261
	01	50	2					38A 60 JVS	69936674921
	01	50	2					38A 60 KVS	66253051070
	01	50	2					38A 60 LVS	69936675744
	01	50	2					38A 60 MVS	69936641112
	01	50	2					38A 80 KVS	66253051071
	01	50	2					38A 80 MVS	66253050373
	01F	63	6					19A 60 OVS	66253050201
	01	50	2					38A 100 MVS	66253050371
01	50	2					38A 120 JVS	69936675749	

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

STRAIGHT WHEELS (CONTINUED)									
DIM DxTxB(mm)	SHAPE	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
				INNOVATION					
Type 01 Type 01F									
150x13x32	01	50	2	5SG 60 KVX	66253054864			38A 46 HVS	69936675753
	01	50	2	3SG 46 HVX	66253054863			38A 46 LVS	69936675754
	01	50	2	3SG 60 LVX	66253050142			38A 60 IVS	69936675756
	01	50	2					38A 60 NVS	69936675758
	01	50	2					38A 80 LVS	69936675759
	01	50	2					38A 120 JVS	69936675760
150x16x32	01	50	2	5SG 60 KVX	66253054866			38A 46 HVS	69936675761
	01	50	2	3SG 60 H12VXP	69936677177			38A 46 LVS	69936675763
	01	50	2	3SG 60 LVX	66253050367			38A 46 NVS	69936675762
	01	50	2					38A 60 LVS	69936675764
	01	50	2					38A 80 LVS	69936675767
	01	50	2					86A 46 G12VXP	66253050296
150x20x32	01	50	2	5SG 60 KVX	69936640816	SGB 60 KVX	66253049874	38A 46 KVS	66253051064
	01	50	2	3SG 60 KVX	66253050155	SGB 60 MVX	66253050169	38A 46 MVS	66253050372
	01	50	2			SGB 100 JVX	66253049895	38A 60 KVS	66253051065
	01	50	2					38A 60 LVS	69936641391
	01	50	2					38A 60 NVS	69936641392
	01	50	2					38A 80 KVS	66253051067
	01	50	2					38A 80 LVS	69936639416
	01	50	2					38A 100 JVS	66243570493
150x25x32	01	50	2					38A 60 KVS	66253050452
	01	50	2					38A 60 MVS	66253050381
175x4x51	01	63	6					19A 60 MVS MTVS	66253052709
175x6x51	01	63	6					19A 60 MVS MTVS	69936675980
175x8x51	01	50	2					38A 60 LVS	69936675786
180x6x32	01	50	2					38A 60 LVS	69936675784
	01	50	2					38A 120 LVS	69936675791
	01	63	6			SGB 120 JVX	69936638720	19A 60 MVS MTVS	69936675979
180x8x32	01	63	6					19A 60 MVS MTVS	69936675982
180x10x32	01	50	2			SGB 60 JVX	69936639145	38A 80 JVS	69936675781
	01	63	6					19A 60 MVS MTVS	69936675984
180x13x32	01	50	2	1TGP 60 H12VXP	69936676106	SGB 60 JVX	69936639148	38A 46 HVS	69936675798
	01	50	2	3SG 46 JVX	66253054876	SGB 80 JVX	69936639149	38A 60 LVS	69936675797
	01	50	2	3SG 80 JVX	66253054892			38A 80 LVS	69936675801
	01	50	2	3SG 120 JVX	66253054874			38A 120 JVS	69936675802
180x16x32	01	50	2	3SG 46 HVX	66253054882	SGB 70 GV12XP	69936639169	38A 46 HVS	69936675804
	01	50	2					38A 60 KVS	66253050453
	01	50	2					86A 70 GVXPM	66253050358

DIAMOND DRESSING

MIDAS TO INSERT
PAGE NUMBER

■ Norton offers an extensive range of complimentary diamond dressing solutions.
For more information see page ...





STRAIGHT WHEELS (CONTINUED)									
DIM DxTxB(mm)	SHAPE	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
Type 01 Type 01F									
180x20x32	01	50	2	3SG 46 HVX	662530 54883	SGB 46 H12VXP	699366 38723	38A 46 HVS	662530 50454
	01	50	2	3SG 60 I12VXP	662530 50166	SGB 60 H10VXP	699366 39170	38A 46 JVS	699366 93706
	01	50	2			SGB 60 KVX	662530 49878	38A 60 JVS	699366 75810
	01	50	2					38A 60 MVS	662530 50273
180x25x32	01	50	2					38A 60 KVS	662530 50365
	01	50	2					38A 60 LVS	699366 75812
180x25x51	01	50	2					38A 46 NVS	699366 40967
	01	50	2					38A 60 MVS	699366 41085
200x4x32	01	63	6					19A 60 OVS MDVS	699366 75986
200x6x32	01	50	2	3SG 60 LVX	699366 39434	SGB 120 JVX	699366 77029	38A 60 MVS	662530 50455
	01	50	2					38A 80 NVS	699366 39662
	01	63	6					19A 60 MVS MTVS	699366 75988
	01	63	6					19A 60 OVS MDVS	699366 75987
200x20	01F	63	6				699366 88291		
200x8x32	01	63	6					19A 54 OVS MDVS	699366 75989
	01	63	6					19A 60 MVS MTVS	699366 75990
	01F	63	6			38A 60 NVS TDVS		38A 60 MVS T3	699366 58078
200x10x32	01	50	2	3SG 60 LVX	662530 54884	SGB 60 JVX	699366 39157	38A 60 LVS	699366 75818
	01	50	2			SGB 80 JVX	699366 39158	38A 120 JVS	699366 75819
	01	63	6					38A 60 MVS T3	699366 75927
	01	63	6					86A 54 OVS D3	662530 50147
	01	63	6					19A 54 OVS MDVS	699366 75991
	01	63	6					19A 60 MVS MTVS	699366 75992
	01F	63	6					38A 54 OVS TDVS	699366 67264
200x13x32	01	50	2			SGB 60 JVX	699366 39160	38A 46 HVS	699366 75826
	01	50	2			SGB 60 KVX	662530 49881	38A 60 JVS	699366 75821
	01	50	2			SGB 80 JVX	699366 39161	38A 60 LVS	699366 75823
	01	50	2			SGB 120 JVX	699366 76608	86A 70 G12VXP	662530 50374
	01	63	6					38A 60 MVS T3	699366 75928
	01	63	6					19A 54 OVS MDVS	699366 75993
	01	63	6					19A 60 MVS MTVS	699366 75994
200x13x50,8	01	50	2					38A 60 JVS	699366 39432
200x16x32	01	50	2					38A 46 HVS	699366 75828
	01	50	2					38A 60 KVS	662530 50456
200x16x50,8	01	50	2					38A 60 JVS	699366 41314
200x16x76,2	01	50	2					38A 60 LVS	699366 75827
200x20x32	01	50	2	3SG 60 H12VXP	699366 77181	SGB 46 HVX	699366 39171	38A 46 HVS	662530 50378
	01	50	2	3SG 60 IVX	662530 50258	SGB 60 H12VXP	699366 39172	38A 46 KVS	662530 51075
	01	50	2	3SG 60 JVX	662530 55869	SGB 60 KVX	662530 49887	38A 46 NVS	699366 41400
	01	50	2			SGB 60 MVX	662530 50173	38A 60 KVS	662530 51077
	01	50	2					38A 60 NVS	699366 67154
	01	50	2					38A 80 KVS	662530 51080
	01	50	2					86A 54 H12VXP	662530 51532

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

STRAIGHT WHEELS (CONTINUED)									
DIM DxTxB(mm)	SHAPE	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
Type 01 Type 01F									
200x20x50	01	50	2	3SG 46 E12VXP	699366 76703			38A 46 KVS	699366 41104
	01	50	2	3SG 60 HVX	662530 54886			86A 46 IVTECH	662530 50386
	01	50	2	3SG 60 JVX	662530 50362				
200x20x50,8	01	50	2	3SG 46 I12VXP	662530 52711			38A 46 JVS	699366 75832
	01	50	2	3SG 60 H12VXP	662435 93696			38A 46 KVS	662530 50103
	01	50	2	3SG 80 HVX	699366 76399			38A 60 HVS	699366 75834
	01	50	2					38A 60 KVS	662530 49967
	01	50	2					38A 100 JVS	699366 39795
200x20x51	01	50	2			SGB 60 JVX	699366 39251	38A 46 KVS	662530 51084
	01	50	2					38A 60 KVS	692104 51085
200x20x76	01	50	2	3SG 46 IVX	662530 54888			86A 46 IVTECH	662530 50250
200x20x76,2	01	50	2	3SG 46 HVX	662530 50156			38A 46 HVS	699366 41521
	01	50	2	3SG 60 IVX	662530 50157			38A 60 LVS	699366 75836
200x25x32	01	50	2	3SG 60 JVX	662530 54889	SGB 46 GV12XP	662530 51385	38A 46 LVS	699366 27127
	01	50	2			SGB 60 KVX	662530 49888	38A 46 NVS	699366 41406
	01	50	2					38A 60 LVS	699366 41407
	01	50	2					38A 60 MVS	662530 51079
	01	50	2					38A 80 KVS	662530 51082
	01	50	2					38A 80 NVS	699366 75847
	01	50	2					38A 100 JVS	662435 70496
200x25x50,8	01	50	2			SGB 46 KVX	662530 50183	38A 46 HVS	699366 75840
	01	50	2					38A 54 I12VXP	699366 81147
200x25x51	01	50	2			SGB 46 HVX	662530 49855	38A 46 KVS	662530 51086
	01	50	2					38A 60 KVS	662530 51089
	01	50	2					38A 60 LVS	699366 40125
	01	50	2						
200x25x76,2	01	50	2					38A 46 HVS	699366 41562
	01	50	2					38A 46 KVS	662530 49968
	01	50	2					38A 46 NVS	699366 75841
	01	50	2					38A 60 MVS	662530 49969
	01	50	2					38A 60 NVS	699366 75846
200x32x32	01	50	2			SGB 60 KVX	662530 49892	38A 46 MVS	662530 52712
	01	50	2					38A 60 LVS	699366 75855
	01	50	2					38A 60 NVS	699366 67155
200x32x51	01	50	2					38A 60 LVS	699366 40245
200x32x76,2	01	50	2					38A 46 IVS	662530 52713
	01	50	2					38A 46 NVS	699366 75849
	01	50	2					38A 60 MVS	662530 49972
	01	50	2					38A 60 NVS	699366 75854
200x35x32	01	50	2			SGB 46 KVX	662530 49859		
200x40x50,8	01	50	2			SGB 46 H12VXP	699366 76377	38A 46 IVS	699366 81707

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 Technical Information section at the back of this catalogue.





STRAIGHT WHEELS (CONTINUED)									
DIM DxTxB(mm)	SHAPE	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
Type 01 Type 01F									
225x5x60	01	50	2					38A 54 JVS	69936675859
225x20x51	01	50	2	3SG 60 H12VXP	69936676452	SGB 60 HVX	69936640943	38A 46 IVS	69936640871
225x25x51	01	50	2	3SG 54 F12VXP	69936676380				
225x25x76.2	01	50	2	3SG 46 HVX	66243570377				
225x32x76,2	01	50	2	3SG 46 HVX	66253055043				
	01	50	2	3SG 60 H12VXP	66243593705				
230x6x50,8	01	50	2					38A 100 JVS	69936639629
230x10x32	01	63	6					38A 60 MVS T3	69936675929
230x10x50,8	01	50	2					38A 100 JVS	69936640665
230x13x32	01	63	6					38A 60 MVS T3	69936675930
230x20x50,8	01	50	2	3SG 60 IVX	66253050240			38A 60 JVS	69936639549
230x25x50,8	01	50	2					38A 60 HVS	69936639829
250x10x32	01	50	1					38A 60 KVS	66253049904
	01	63	6					38A 60 MVS T3	69936675931
	01	63	6					86A 54 KVS M6	66253050146
	01	63	6					86A 54 OVS D3	66253050139
	01	63	6					19A 54 OVS MDVS	69936675998
	01	63	6					19A 60 MVS MTVS	69936675999
	01F	63	6					38A 46 MVS TTVS	66253050218
	01F	63	6					38A 54 OVS TDVS	69936667265
250x13x32	01	63	6					38A 60 MVS T3	69936675932
	01	63	6					86A 54 KVS M6	66253050123
	01	63	6					86A 54 OVS D3	66253050128
	01	63	6					19A 60 MVS MTVS	69936676001
250x13x76,2	01	50	1	3SG 60 K VX	69936623734				
250x20x32	01	50	1					38A 46 KVS	66253049918
	01	50	1					38A 60 KVS	66253049920
250x20x76,2	01	50	1					38A 60 LVS	69936675862

DIAMOND DRESSING

■ Norton offers an extensive range of complimentary diamond dressing solutions. For more information see page ...

MIDAS TO INSERT
PAGE NUMBER



STRAIGHT WHEELS (CONTINUED)									
DIM DxTxB[mm]	SHAPE	MOS [M/S]	PK QTY	BEST		BETTER		GOOD	
				INNOVATION					
Type 01									
250x25x32	01	50	1	3SG 60 HVX	66253050363	SGB 60 KVX	66253050160	38A 60 JVS	66253051098
	01	50	1					38A 60 KVS	66253049930
	01	50	1					38A 60 LVS	66253049927
	01	50	1					38A 60 MVS	66253051380
	01	50	1					38A 80 KVS	66253049932
	01	50	1					86A 46 IVTECH	66253050275
	01	50	1					86A 60 IVTECH	66253050390
250x25x50,8	01	50	1	3SG 46 KVX	66253050107			38A 46 LVS	69936623714
250x25x51	01	50	1					38A 46 IVS	69936640283
	01	50	1					38A 46 KVS	66253049936
	01	50	1					38A 60 KVS	66253049939
250x25x76	01	50	1					38A 46 KVS	66253049902
	01	50	1					38A 60 KVS	66253049905
	01	50	1					38A 60 LVS	69936678984
	01	50	1					38A 80 KVS	66253049907
	01	50	1						
250x25x76,2	01	50	1	IPA 60 EH17VTX	66253052716	SGB 46 HVX	66243570378	38A 46 G12VXP	66253050292
	01	50	1	IPA 60 XH17VTX	66253052721	SGB 46 KVX	66253050124	38A 46 IVS	66253050369
	01	50	1	3SG 46 KVX	69936623668	SGB 60 KVX	66253050126	38A 46 LVS	69936623691
	01	50	1	3SG 54 F12VXP	69936676054	SGB 70 H12VXP	69936623901	38A 60 IVS	66253050101
	01	50	1	3SG 60 KVX	66253055045			38A 60 LVS	69936623733
	01	50	1					38A 80 LVS	69936623651
250x25x120,6	01	50	1					38A 60 LVS	69936623688
250x32x32	01	50	1			SGB 60 KVX	66253050162	38A 46 KVS	66253049909
	01	50	1					38A 60 KVS	66253049911
	01	50	1					38A 60 NVS	69936667158
	01	50	1					38A 80 KVS	66253049915
250x32x76	01	50	1					38A 60 KVS	66253051102
250x32x76,2	01	50	1	3SG 46 HVX	66253055046				
250x40x32	01	50	1					38A 60 KVS	66253051093
250x40x51	01	50	1					38A 60 KVS	66253051095
250x40x76	01	50	1					38A 46 KVS	66253051104
250x40x76,2	01	50	1	3SG 46 G12VXP	69936676056	SGB 46 I10VXP	66253050205	38A 46 I12VXP	69936681148
	01	50	1	3SG 46 IVX	66253050259			38A 46 KVS	66253050186
250x50x76,2	01	50	1			SGB 46 KVX	66253050129	38A 46 LVS	69936623717
300x13x127	01	50	1			SGB 60 KVX	66253050131	38A 60 LVS	69936623652
300x20x127	01	50	1					38A 60 LVS	69936675872
300x25x127	01	50	1	3SG 46 KVX	66253055050	SGB 60 KVX	66253050132	38A 46 LVS	69936623601
	01	50	1	3SG 60 H12VXP	69936677184	SGB 80 I12VXP	66253050121	38A 60 KVS	66253050105
	01	50	1	3SG 60 KVX	66253055052			38A 80 LVS	69936623648
	01	50	1					57A 60 LVS	66253050370

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





STRAIGHT WHEELS (CONTINUED)									
DIM DxTxB(mm)	SHAPE	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
INNOVATION									
Type 01 Type 05									
300x32x32	01	50	1					38A 46 NVS	699366 75879
	01	50	1					38A 60 KVS	662530 51100
	01	50	1					38A 60 NVS	699366 39618
300x32x76,2	05	50	1					38A 46 HVS	662530 49973
300x32x127	01	50	1	IPA 60 EH20VTX	662530 49858	SGB 46 F12VXP	699366 76705	38A 46 HVS	699366 75883
	01	50	1	IPA 60 XH20VTX	662530 49861	SGB 46 HVX	662435 70380	38A 60 LVS	699366 75884
	01	50	1	3SG 60 KVX	662530 55872	SGB 46 IVX	662530 50175		
	01	50	1			SGB 60 KVX	699366 76386		
300x40x51	01	50	1					38A 46 KVS	662530 51096
	01	50	1					38A 60 KVS	662530 49944
300x40x76	01	50	1					38A 46 KVS	662530 49948
								38A 60 KVS	662530 49953
300x40x76,2	01	50	1	IPA 60 EH20VTX	662530 49863				
	01	50	1	IPA 60 XH20VTX	662530 49866				
300x40x127	01	50	1	3SG 46 HVX	25305 55893	SGB 46 G12VXP	699366 39946	38A 46 IVS	662530 49975
	01	50	1	3SG 60 KVX	662530 55053	SGB 60 KVX	662530 50179	38A 60 LVS	699366 75891
	01	50	1					86A 54 G12VXPM	662530 51533
300x50x76,2	01	50	1					38A 46 IVS	662530 50251
300x50x127	01	50	1	IPA 60 EH20VTX	662530 49869	SGB 46 G12VXP	662435 70384	38A 46 JVS	699366 23649
	01	50	1	IPA 60 XH20VTX	662530 49872			38A 60 KVS	662530 54524
355x25x127	01	50	1	IPA 60 EH20VTX	662530 49873	SGB 46 JVX	662530 50118	38A 60 LVS	699366 75901
	01	50	1	IPA 60 XH20VTX	662530 49875	SGB 60 LVX	662530 50135		
	01	50	1	3SG 60 LVX	662530 55895				
355x30x127	01	50	1			SGB 46 G11VXP	662530 50177		
355x32x127	01	50	1	3SG 60 KVX	662530 55902	SGB 54 E12VXP	699366 76713	38A 60 LVS	699366 75903
355x40x51	01	50	1					38A 46 KVS	662530 51373
	01	50	1					38A 60 KVS	662530 49963
355x40x127	01	50	1	IPA 60 EH20VTX	662530 55877	SGB 46 G12VXP	662530 49901	38A 46 JVS	699366 23753
	01	50	1	IPA 60 XH20VTX	662530 55879	SGB 46 JVX	662530 50117	38A 60 LVS	699366 75908
	01	50	1	3SG 46 HVX	662530 55056	SGB 80 I12VXP	662530 55058		
	01	50	1	3SG 60 LVX	662530 55057				
355x50x41	01	50	1					38A 46 KVS	662530 49941
355x50x51	01	50	1					38A 60 KVS	662530 51101
355x50x127	01	50	1	IPA 60 EH20VTX	662530 55880	SGB 46 H11VXP	662530 54500	38A 46 IVS	699366 75913
	01	50	1	IPA 60 XH20VTX	662530 55883	SGB 46 J12VX	699366 23781	38A 46 I11VXP	662530 50212
	01	50	1	3SG 46 F12VXP	699366 23900	SGB 54 G12VXP	662530 49857	38A 46 KVS	662530 51108
	01	50	1	3SG 46 HVX	662530 55059	SGB 60 KVX	662530 50138	38A 60 KVS	662530 49951
	01	50	1	3SG 46 JVX	6992530 55063			38A 80 KVS	662530 49955

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

STRAIGHT WHEELS (CONTINUED)									
DIM DxTxB(mm)	SHAPE	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
INNOVATION									
Type 01									
355x63x127	01	50	1					38A 46 KVS	662530 49957
	01	50	1					38A 60 KVS	662530 49959
406x25x127	01	50	1	3SG 60 LVX	662530 55083	SGB 60 KVX	699366 44046	38A 60 LVS	699366 94018
406x32x127	01	50	1					38A 60 LVS	662530 49841
406x40x50,8	01	50	1					A 24 QVS	699366 94363
406x50x50	01	50	1					A 24 QVS	662434 48177
406x50x127	01	50	1					A 24 QVS	662434 67496
	01	50	1					A 36 QVS	662434 67497
406x40x127	01	50	1	3SG 60 LVX	662530 55086	SGB 60 KVX	662530 49843	38A 46 JVS	662434 66541
	01	50	1					38A 46 KVS	662530 55066
	01	50	1					38A 60 LVS	662434 66542
	01	50	1					38A 80 KVS	662530 55069
406x50x127	01	50	1	IPA 60 EH20VTX	662530 55884	SGB 46 G12VXP	662434 68401	38A 46 I12VXP	662530 54508
	01	50	1	IPA 60 XH20VTX	662530 55885	SGB 46 HVX	662434 48363	38A 46 JVS	662434 66547
	01	50	1	5SG 46 G12VXP	662434 68188	SGB 60 KVX	662530 55072	38A 60 LVS	662434 66546
	01	50	1	3SG 46 HVX	662530 55912				
	01	50	1	3SG 54 F12VXP	662530 54506				
406x50x203	01	50	1					38A 46 KVS	662530 55078
	01	50	1					38A 60 KVS	662530 55079
406x60x127	01	50	1					38A 60 LVS	662530 49839
457x50x127	01	50	1					38A 60 LVS	662434 66558
500x50x203	01	50	1					38A 60 KVS	662530 54504
500x50x203.2	01	50	1			SGB 60 KVX	662434 48367		
500x60x203.2	01	50	1			SGB 60 KVX	662530 49853		
500x63x203.2	01	50	1					38A 60 LVS	662434 47835
500x80x203.2	01	50	1			SGB 60 JVX	662530 49850		
508x50x203.2	01	50	1	3SG 60 KVX	662530 55088				
508x80x203.2	01	50	1					38A 60 LVS	662434 65706
508x203x304.8	01	50	1					57A 60 MVS	662530 49852
710x40x50	01	50	1					A90 NVS	662530 49847

SHAPE KEY

Type 01

Type 05

Type 01F

MIDAS TO
DELETE
BACKGROUND





Norton vitrified grinding wheels have set the standard for generations – leading the way with technological improvements to maximise performance and productivity. Silicon carbide wheels are used primarily on tungsten carbide, non-magnetic stainless steel, aluminium and glass.

APPLICATIONS & MARKETS

- Surface grinding
- Tool & cutter grinding
- Sharpening



BETTER

39C

Type 01

FEATURES	BENEFITS
■ Highest purity green silicon carbide abrasive	■ Ideal for precision grinding & sharpening applications on metal carbide & non ferrous metals
■ Harder & more friable than aluminium oxide abrasive	

DIAMOND DRESSING

■ Norton offers an extensive range of complimentary diamond dressing solutions. For more information see page ...

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



STRAIGHT WHEELS

DIM DxTxB[mm]	SHAPE	MOS (M/S)	PK QTY	GOOD		DIM DxTxB[mm]	SHAPE	MOS (M/S)	PK QTY	GOOD	
Type 01						Type 01					
76x25x12,7	01	50	10	39C 80 IV	66253052726	200x25x32	01	50	2	39C 80 KVS	66253050276
76x25x13	01	50	10	39C 80 ISV	66253050168		01	50	2	39C 100 JVS	66253050375
80x25x12,7	01	50	10	39C 60 MV	66253051624		01	50	2	39C 120 KVS	69936641428
80x25x13	01	50	10	39C 60 MV	66253051623	200x25x76,2	01	50	2	39C 60 KVS	69936675672
100x10x32	01	50	2	39C 80 LVS	66253050380		01	50	2	39C 80 LVS	69936675673
	01	50	2	39C 120 KVS	66253049701		01	50	2	39C 120 KVS	69936675674
125x13x32	01	50	2	39C 80 KVS	66253049896	200x32x32	01	50	2	39C 60 KVS	69936640293
125x16x32	01	50	2	39C 80 LVS	66253050393		01	50	2	39C 80 KVS	69936667106
125x20x32	01	50	2	39C 80 LVS	69936667443		01	50	2	39C 120 KVS	69936675677
150x4x32	01	50	2	39C 120 KVS	66253050248	200x32x51	01	50	2	39C 60 KVS	69936641031
150x6x32	01	50	2	39C 100 KVS	66253050377	200x32x76,2	01	50	2	39C 60 KVS	69936675643
	01	50	2	39C 120 KVS	69936675617		01	50	2	39C 80 KVS	69936675644
150x10x32	01	50	2	39C 80 KVS	66253050357		200x6x32	01	50	2	39C 120 KVS
	01	50	2	39C 120 KVS	69936675629	01		50	2	39C 120 KVS	69936675636
150x13x32	01	50	2	39C 80 KVS	66253049897	225x25x32	01	50	2	39C 60 LVS	69936667108
150x16x32	01	50	2	39C 60 KVS	69936675656	225x32x32	01	50	2	39C 80 KVS	69936667109
	01	50	2	39C 120 KVS	69936675659	250x13x32	01	50	1	39C 36 KV	69936655917
	01	50	2	39C 80 LVS	69936675657	250x25x32	01	50	1	39C 60 KV	66253049923
150x20x20	01	50	2	39C 60 JV	66253051383		01	50	1	39C 60 LVS	69936667111
	01	50	2	39C 60 KVS	69936641411		01	50	1	39C 80 KV	66253050477
	01	50	2	39C 80 LVS	69936641413		01	50	1	39C 80 LVS	69936675679
150x20x32	01	50	2	39C 100 JVS	66253050300	250x25x76,2	01	50	1	39C 54 MVS	69936623732
	01	50	2	39C 120 KVS	69936641414		01	50	1	39C 100 KVS	69936623643
	01	50	2	39C 60 KVS	69936675661		250x32x32	01	50	1	39C 60 KVS
	01	50	2	39C 80 KVS	66253050278	01		50	1	39C 80 KVS	69936640845
150x25x32	01	50	2	39C 120 KVS	69936675664	250x60x106	01	50	1	39C 12 TV	69210432031
	01	50	2	39C 60 KVS	69936641415		01	50	1	39C 16 TV	69210432595
180x20x32	01	50	2	39C 60 KVS	69936641415	300x25x127	01	50	1	39C 60 KVS	69936623687
	01	50	2	39C 80 LVS	69936676582		01	50	1	39C 80 JVS	69936640343
	01	50	2	39C 120 KVS	69936675666		01	50	1	39C 100 KVS	69936623679
180x25x32	01	50	2	39C 60 KVS	69936675667	300x32x127	01	50	1	39C 60 KVS	69936693249
	01	50	2	39C 80 LVS	69936667101		300x40x32	01	50	1	39C 60 KVS
200x10x32	01	50	2	39C 120 KVS	69936675637	01		50	1	39C 80 KVS	69936676387
200x13x32	01	50	2	39C 80 JVS	69936676152	300x40x76	01	50	1	39C 90 KVS	69936639836
200x20x20	01	50	2	39C 80 KVS	69936641417		300x40x127	01	50	1	39C 46 KV
	01	50	2	39C 80 MVS	69936640220	01		50	1	39C 60 KVS	69936675684
200x20x32	01	50	2	39C 60 KVS	69936641418	355x32x127		01	50	1	39C 80 KVS
	01	50	2	39C 80 KVS	69936676351		01	50	1	39C 60 KVS	69936675650
	01	50	2	39C 100 JVS	66253050389	355x40x127	01	50	1	39C 60 KVS	69936675651
	01	50	2	39C 120 KVS	69936641421		01	50	1	39C 80 KVS	69936675685
200x20x51	01	50	2	39C 60 KVS	69936640176	406X40X127	01	50	1	39C 60 KVS	66243466414
200x20x76,2	01	50	2	39C 80 LVS	69936675671						
200x25x32	01	50	2	39C 46 LVS	69936675639						
	01	50	2	39C 60 KVS	69936641424						

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 Technical Information section at the back of this catalogue.



Vitrified bench grinding wheels are used for off-hand tool sharpening and grinding

APPLICATIONS & MARKETS

- Sharpening
- Toolroom



GOOD	A		Type 01	
	FEATURES		BENEFITS	
	■ Regular brown aluminium oxide abrasive		■ Very tough, suitable for grinding most types of steel & soft iron	
	■ Contains 3% titanium oxide		■ Good cost/performance compromise	
	■ Unique, self sharpening, microcrystalline structure		■ Hard wearing wheels for general purpose cylindrical off-hand bench & pedestal grinding applications	

DIAMOND DRESSING

- Norton offers an extensive range of complimentary diamond dressing solutions. For more information see page ...

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STRAIGHT WHEELS

DIM DxTxB[mm]	MOS [M/S]	PK QTY	GOOD	
Type 01				
125x15x20	50	2	A 60 NVS	662530 50184
125x20x32	50	2	A 36 PVS	699366 66907
	50	2	A 46 NVS	699366 75558
	50	2	A 60 NVS	699366 66909
150x16x32	50	2	A 36 PVS	699366 75559
	50	2	A 46 NVS	699366 75560
	50	2	A 60 NVS	699366 75561
150x20x20	50	2	A 60 MVS	692104 34201
150x20x31,75	50	2	A 36 PVS	699366 23300
150x20x32	50	2	A 24 RVS	699366 66911
	50	2	A 36 PVS	699366 41366
	50	2	A 36 QVS	662530 50263
	50	2	A 46 NVS	699366 41367
	50	2	A 60 NVS	699366 41368

STRAIGHT WHEELS (CONTINUED)

DIM DxTxB(mm)	MOS (M/S)	PK QTY	GOOD		DIM DxTxB(mm)	MOS (M/S)	PK QTY	GOOD	
Type 01					Type 01				
150x25x32	50	2	A 36 PVS	699366 66914	250x40x32	50	1	A 36 QVS	699366 81793
	50	2	A 36 QVS	662530 50265		50	1	A 60 NVS	699366 66946
	50	2	A 46 NVS	699366 41370		50	1	A 24 QVS	699366 75574
180x20x31,75	50	2	A 46 NVS	699366 23305	300x32x32	50	1	A 36 OVS	699366 75575
180x20x32	50	2	A 46 NVS	699366 41372		50	1	A 60 KVS	692104 31561
	50	2	A 60 NVS	699366 80380	300x32x50,8	50	1	A 24 QVS	699366 75577
180x25x32	50	2	A 24 RVS	699366 66922		50	1	A 46 NVS	699366 75578
	50	2	A 30 PVS	699366 39691	50	1	A 24 QVS	699366 75579	
	50	2	A 36 QVS	699366 66923	300x32x127	50	1	A 36 OVS	699366 75580
	50	2	A 46 NVS	699366 75564		50	1	A 46 NVS	699366 75581
	50	2	A 60 NVS	699366 76609	300x40x30	50	1	A 36 PVS	699366 81734
200x20x32	50	2	A 24 RVS	699366 66926		50	1	A 60 NVS	699366 81735
	50	2	A 30 PVS	699366 75566	300x40x32	50	1	A 46 NVS	699366 39682
	50	2	A 36 QVS	699366 66928		50	1	A 60 MVS	699366 40221
	50	2	A 46 NVS	699366 41375	300x40x50	50	1	A 90 OVS	699366 40787
	50	2	A 60 NVS	699366 66929	300x40x50,8	50	1	A 60 NVS	699366 23670
200x25x32	50	2	A 24 RVS	699366 76374	300x40x51	50	1	A 24 PVS	692104 31557
	50	2	A 30 PVS	699366 41382		50	1	A 60 KVS	692104 31562
	50	2	A 36 PVS	699366 41383	300x40x76	50	1	A 60 NVS	699366 39611
	50	2	A 36 QVS	662530 50267	300x40x76,2	50	1	A 36 OVS	699366 75607
	50	2	A 46 MVS	662530 50271	300x40x127	50	1	A 24 QVS	699366 75583
	50	2	A 60 NVS	699366 93708		50	1	A 36 OVS	699366 75584
200x25x76,2	50	2	A 30 PVS	699366 75567		50	1	A 46 NVS	699366 75585
	50	2	A 46 NVS	699366 75568	300x50x32	50	1	A 24 QVS	699366 39767
	50	2	A 60 NVS	699366 75569		50	1	A 36 OVS	699366 81823
	50	2	A 24 RVS	699366 66930		50	1	A 46 NVS	662435 70460
200x32x32	50	2	A 36 PVS	699366 66932	50	1	A 60 NVS	662435 70484	
	50	2	A 46 NVS	699366 40814	350x40x35	50	1	A 36 QVS	699366 81739
	50	2	A 60 NVS	699366 90246		50	1	A 24 RVS	699366 81743
	200x32x51	50	2	A 60 NVS	699366 40748	350x50x35	50	1	A 36 QVS
200x32x76,2	50	2	A 46 NVS	662435 93707	50		1	A 60 NVS	699366 81742
225x32x32	50	2	A 36 QVS	699366 66938	355x40x127	50	1	A 24 QVS	699366 75586
	50	2	A 60 NVS	699366 94426		50	1	A 46 NVS	699366 75587
250x25x32	50	1	A 36 PVS	699366 66940	355x45x127	50	1	A 36 OVS	699366 76013
	50	1	A 46 NVS	699366 41386		50	1	A 46 NVS	699366 75910
250x32x32	50	1	A 24 QVS	699366 66942	355x50x127	50	1	A 24 QVS	699366 75588
	50	1	A 30 PVS	699366 75572		50	1	A 36 OVS	699366 75589
	50	1	A 36 PVS	699366 66943		50	1	A 46 NVS	699366 75590
	50	1	A 46 NVS	699366 40194					
	50	1	A 60 MVS	699366 42130					

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 Technical Information section at the back of this catalogue.

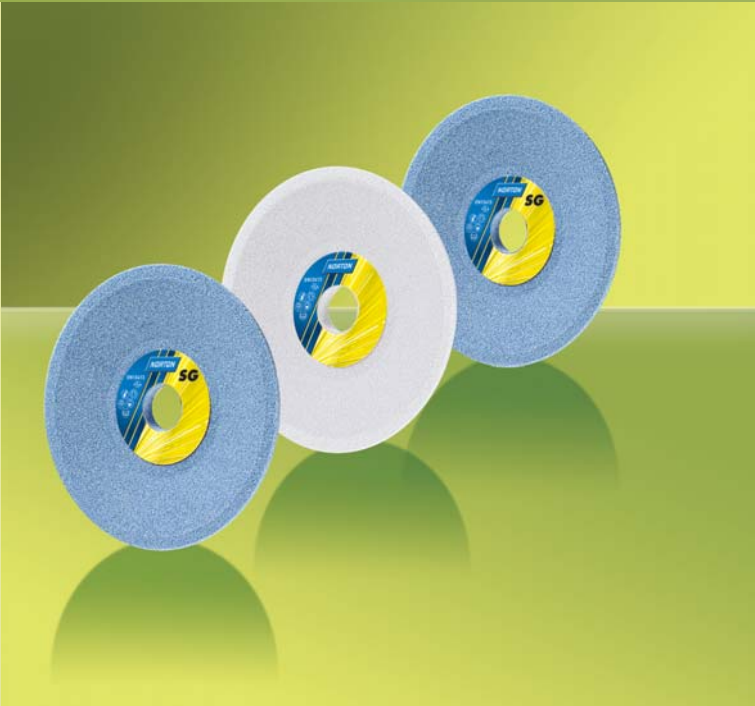
Dimensions Key: DIM = Dimensions, D = Diameter, T = Thickness, B = Bore



Manufactured using Norton’s market leading abrasives technology, vitrified dishes are designed to maximise performance and productivity in sharpening applications.

APPLICATIONS & MARKETS

- Sharpening



GOOD

38A

Type 12

FEATURES

- High purity white aluminium oxide abrasive
- Friable abrasive

BENEFITS

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



METAL PRECISION

DIA (mm)	T (mm)	B (mm)	W (mm)	E (mm)	J (mm)	K (mm)	U (mm)	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
 Type 12															
76	8	12,7	5	8	25	25	1	50	10					38A 80 MVS	699366 23916
80	10	13	4	6	35	35	2,5	50	10					38A 60 LVS	699366 88738
100	13	12,7	5	7	45	50	2,5	50	2					38A 60 KVS	699366 24605
100	13	20	5	7	41	41	3,2	50	2	3SG 60 K VX	662530 50236	SGB 60 LVX	699366 86659	38A 60 KVS	699366 86186
								50	2					38A 120 MVS	699366 86189
125	13	20	6	7	61	61	3,2	50	2	3SG 60 JVX	699366 86768			38A 60 KVS	699366 86192
								50	2	3SG 60 K VX	662530 50242				
150	13	20	7	9	86	86	3,2	50	2	3SG 46 K VX	662530 50143			38A 60 KVS	699366 86199
								50	2	3SG 60 JVX	699366 86771				
150	13	20	8	9	56	56	3,2	50	2	3SG 60 LVX	662530 50231	SGB 46 LVX	699366 86732	38A 60 NVS	699366 86818
								50	2			SGB 60 LVX	699366 82791		
150	13	32	7	9	86	86	3,2	50	2	3SG 46 K VX	662530 50238			38A 46 KVS	699366 86194
								50	2	3SG 60 K VX	662530 50239			38A 60 KVS	699366 86198
								50	2					38A 120 JVS	699366 86204
150	16	20	8	9	66	66	3,2	50	2	3SG 54 LVX	699366 86772	SGB 60 K VX	662530 50256	38A 60 KVS	699366 82252
150	16	32	8	9	66	66	3,2	50	2	3SG 46 K VX	662530 50141			38A 60 KVS	699366 88577
										3SG 60 K VX	662530 50232				
150	16	32	8	9	66	66	3,2	50	2			SGB 60 K VX	662530 50245		
180	16	32	9	10	96	96	3,2	50	2			SGB 60 K VX	662530 50247		
180	20	32	9	11	70	70	3,2	50	2	3SG 54 K VX	662530 50234	SGB 54 K VX	662530 50260		
200	16	20	12	10	90	90	3,2	50	2					38A 46 JVS	699366 88749
200	20	32	10	12	90	90	3,2	50	2			SGB 46 JVX	662530 50249	38A 60 KVS	699366 86215
												SGB 60 K VX	662530 50252		
200	32	32	10	12	92	92	3,2	50	2			SGB 46 IVX	662530 50253		

Dimensions Key: DIM = Dimensions, DIA = Diameter, T = Thickness, B = Bore, W = Rim Width, E = Back Thickness, J = External Flat Diameter, K = Internal Flat Diameter, U = Rim Depth

Manufactured with the Norton's leading technology, vitrified cups are designed to maximise performance and productivity for sharpening applications.

APPLICATIONS & MARKETS

- Sharpening



BETTER

SGB



FEATURES

- Medium concentration of ceramic aluminium oxide abrasive
- 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



39C



FEATURES

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

BENEFITS

- Ideal for precision grinding & sharpening applications on metal carbide & non-ferrous metals



BEST

5SG®



FEATURES

- Very high concentration of SG® ceramic aluminium oxide abrasive

BENEFITS

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



3SG®



FEATURES

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

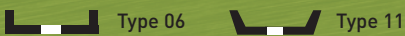
BENEFITS

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



GOOD

38A



FEATURES

- High purity white aluminium oxide abrasive
- Friable abrasive

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



MIDAS TO RE COLOUR PINK



METAL PRECISION												
DIA	T (mm)	B (mm)	W (mm)	E (mm)	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
 Type 06												
63	40	20	10	10	50	10					38A 60 KVS	699366 74852
80	40	20	6	8	63	6					38A 60 MVS M3	699366 74809
80	40	20	6	10	50	10			SGB 60 JVX	662435 70391		
80	40	20	8	8	63	6					38A 60 KVS T3	699366 74810
80	40	20	8	10	50	10	ES5 80 LVX	662530 49970				
80	40	20	10	10	50	10			SGB 60 LVX	662530 50098		
80	40	32	10	10	50	10					38A 46 KVS	699366 74853
100	40	32	13	13	50	2					38A 60 KVS	699366 74854
100	50	19,8	11	11	50	2					38A 120 KVS	699366 23690
100	50	20	8	10	50	2			SGB 46 JVX	662435 70392		
					50	2			SGB 60 KVX	699366 41284		
100	50	20	10	10	50	2	3SG 46 KVX	662530 50071			38A 46 KVS	699366 44193
					50	2	3SG 60 JVX	662530 50069			38A 60 JVS	699366 74860
					50	2	3SG 60 KVX	662530 49965			38A 60 KVS	699366 74857
					50	2	3SG 70 KVX	662530 50067			38A 80 JVS	699366 39600
100	50	20	10	13	50	2	3SG 60 LVX	662530 49960			38A 60 LVS	699366 39450
					50	2	3SG 80 LVX	662530 49966			38A 60 MVS	699366 39460
					50	2					38A 80 KVS	699366 39436
100	50	32	10	10	50	2	5SG60KVX	662530 50070			38A 60 KVS	699366 74859
					50	2	3SG46JVX	662530 50072				
					50	2	3SG60KVX	662530 50073				
125	50	32	10	13	50	2					38A 60 LVS	699366 39992
125	50	32	13	13	50	2	3SG 46 JVX	699366 76356	SGB 60 JVX	662530 50075	38A 46 KVS	662530 49956
125	63	32	8	13	50	2					38A 46 KVS	662530 49958
125	63	32	10	10	50	2					86A 46 E12 VXP	662530 51528
125	63	32	10	13	50	2			SGB 60 KVX	699366 40579		
125	63	32	13	16	50	2					86A 46 G12 VXP	662530 51525
150	32	32	35	12	50	2					38A 60 LVS	699366 40294
150	32	60	32	13	50	2					38A 60 MVS	699366 74871
150	40	32	16	13	50	2					38A 46 HVS	699366 74872
					50	2					38A 60 KVS	699366 74875
150	50	32	16	16	50	2	3SG 46 KVX	662530 50068	SGB 46 KVX	662530 50093	38A 46 JVS	699366 76128
					50	2			SGB 60 KVX	662530 50076	38A 60 KVS	699366 74879
150	50	65	20	16	50	2					38A 60 LVS	699366 39480
150	60	32	10	16	50	2			SGB 54 KVX	662530 50099		
150	63	32	16	16	50	2			SGB 46 JVX	662530 54727	38A 36 IVS	699366 40369
					50	2					38A 46 HVS	699366 74905
					50	2					38A 46 JVS	699366 74881
150	63	50,8	16	16	50	2			SGB 36 HVX	662530 50080		
									SGB 60 JVX	662530 50082		

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

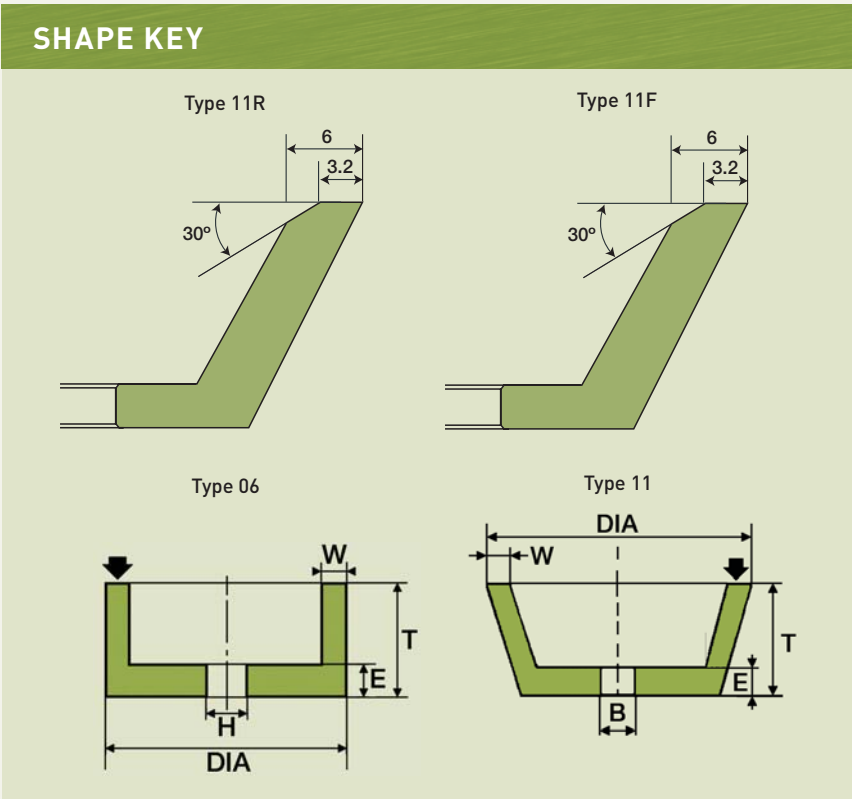
METAL PRECISION (CONTINUED)												
DIA	T (mm)	B (mm)	W (mm)	E (mm)	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
 Type 06												
150	80	32	20	20	50	2			SGB 46 G12 VXP	699366 76357	38A 46 HVS	699366 74905
									SGB 46 HVX	662530 50096	38A 46 IVS	699366 58606
165	63	32	10	13	50	2					38A 46 F12 VXP	662530 51529
175	75	76,2	20	20	50	2			SGB 46 G12 VXP	662530 50097	38A 36 IVS	699366 81747
											38A 46 H12 VXP	699366 81146
180	40	76,2	32	13	50	2					38A 46 MVS	699366 74884
180	45	60	40	16	50	2					38A 60 MVS	699366 74886
180	63	50,8	16	16	50	2			SGB 46 JVX	662530 50084	38A 36 HVS	699366 74887
180	76	32	16	16	50	2					38A 36 IVS	699366 39449
180	76	78	16	16	50	2	3SG 36 IVX	662530 49962			38A 24 JVS	699366 39987
					50	2					38A 36 IVS	699366 39587
					50	2					38A 36 JVS	699366 39817
					50	2					38A 46 HVS	699366 39616
					50	2					38A 46 IVS	699366 39533
180	80	32	13	10	50	2			SGB 46 G12 VXP	699366 40451		
180	80	32	16	16	50	2					38A 46 HVS	699366 74889
200	40	32	45	15	50	2					38A 46 LVS	662435 70536
					50	2					38A 60 LVS	662435 70537
200	40	76,2	40	13	50	2			SGB 46 LVX	662530 50085	38A 46 KVS	699366 74880
					50	2			SGB 60 LVX	662530 50087	38A 46 MVS	699366 74890
200	63	50,8	20	20	50	2					38A 46 HVS	699366 74898
200	82	78	16	20	50	2	3SG 36 IVX	662530 49964	SGB 36 H12 VXP	699366 79013	38A 36 IVS	699366 39502
					50	2					38A 36 IVS	699366 39387
200	100	32	20	25	50	2			SGB 46 G12 VXP	699366 40271		

NON-FERROUS PRECISION												
DIA	T (mm)	B (mm)	W (mm)	E (mm)	MOS (M/S)	PK QTY	GOOD					
 Type 06												
100	50	20	10	10	50	2	39C 80 KV				699366 68290	
100	50	20	10	13	50	2	39C 80 JVS				699366 40131	
100	50	32	10	10	50	2	39C 60 JV				699366 68288	
125	63	32	25	16	50	2	39C 60 JV				699366 68305	
150	32	60	32	13	50	2	39C 80 JV				699366 68308	
200	40	76,2	40	13	50	2	39C 60 JV				699366 68347	
					50	2	39C 80 JV				699366 68348	
					50	2	39C 120 JV				699366 68353	
300	63	127	40	20	50	1	39C 60 JV				699366 68365	



METAL PRECISION												
DIA	T (mm)	B (mm)	W (mm)	E (mm)	MOS (M/S)	PK QTY	BEST		BETTER		GOOD	
 Type 11												
80	32	20	6	8	50	6			SGB 46 K VX	662530 50125	38A 60 KVS	699366 82483
					50	6			SGB 60 LVX	662530 50137		
80	40	20	8	10	50	6	ES5 80 JVX	662530 50109				
100	40	20	8	10	50	2	3SG 46 K VX	662530 50127	SGB 60 LVX	699366 86717	38A 46 KVS	699366 86166
					50	2	3SG 60 K VX	662530 50110			38A 60 KVS	699366 86170
					50	2	3SG 60 LVX*	662530 55956				
100	40	32	8	10	50	2	3SG46K VX	662530 50112	SGB60JVX	662530 50130	38A54KVS	699366 86224
					50	2	3SG60K VX	662530 50114			38A60KVS	699366 86169
					50	2					38A60LVS	699366 88495
125	40	20	8	10	50	2	3SG46K VX	699366 86770			38A46JVS	699366 88603
125	40	32	8	10	50	2	5SG46K VX	662530 50122	SGB60JVX	699366 82429	38A46KVS	699366 86175
					50	2	3SG60K VX	662530 50116			38A60JVS	662530 50104
					50	2					38A60KVS	699366 86176
					50	2					38A80KVS	662530 50106
125	45	20	6	13	50	2	3SG46K VX**	662530 55954	SGB60K VX	699366 86736	38A60LVS	699366 88494
					50	2	3SG60K VX**	662530 55955			86A46KVTECH	662530 50102
150	50	20	10	13	50	2					38A60KVS	699366 82567
150	50	32	10	13	50	2	3SG60K VX	662530 50119	SGB46K VX	699366 88939	38A46KVS	699366 86177
					50	2			SGB46JVX	662530 50133	38A60KVS	699366 82576
					50	2			SGB54K VX	662530 50140		
					50	2			SGB60K VX	662530 50134		

*Type 11R **Type11F



SGA TO SUPPLY IMAGE

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

Cylinders are relatively soft and have a thin contact area and they are normally used in a chuck or fixed to a plate. The part is held on a table and either reciprocates or turns in a clockwise direction. To improve safety, cylinders are bound with layers of multi-filament high strength tape.

APPLICATIONS & MARKETS

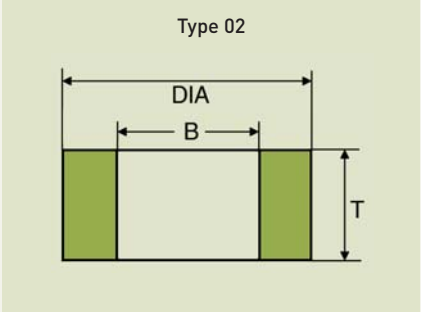
- Surface grinding



CYLINDERS

DIM DxTxB(mm)	PK QTY	(M/S)	BETTER		GOOD	
Type 02						
127x50x101,6	2	50			38A 46 IVS	699366 23695
152,4x50x127	2	50			38A 36 IVS	699366 23639
200x100x160	2	50	SGB 46 HVX	699366 86693	38A 46 GVS	699366 86231
254x100x204	1	50			38A 46 GVS	699366 86297
457x125x377	1	50			38A 30 HVS	662434 65839

SHAPE KEY



BETTER

SGB

Type 02

FEATURES

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

BENEFITS

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



GOOD

38A

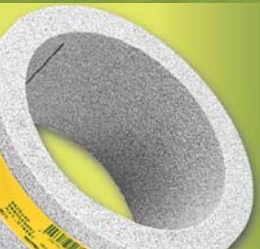
Type 02

FEATURES

- High purity white aluminium oxide abrasive
- Friable abrasive

BENEFITS

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



SGA TO SUPPLY IMAGE

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

Surface grinding segments are generally used to grind flat stock or flat surfaces within a workpiece. Applications can vary from heavy, rapid stock removal to precision tolerance operations.

APPLICATIONS & MARKETS

- Grinding large moulds & dies
- Sharpening knives, blades, cutlery



BEST

5SG®

Type 31

FEATURES

- Very high concentration of SG® ceramic aluminium oxide abrasive

BENEFITS

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



3SG®

Type 31

FEATURES

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

BENEFITS

- Very high cutting capability
- High removal rate & extended product life
- Suitable for very hard steels



GOOD

38A

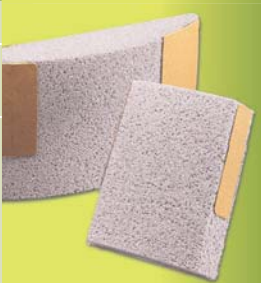
Type 31

FEATURES

- High purity white aluminium oxide abrasive
- Friable abrasive

BENEFITS

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



86A

Type 31

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



19A

Type 31

FEATURES

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

BENEFITS

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



37C

Type 31

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



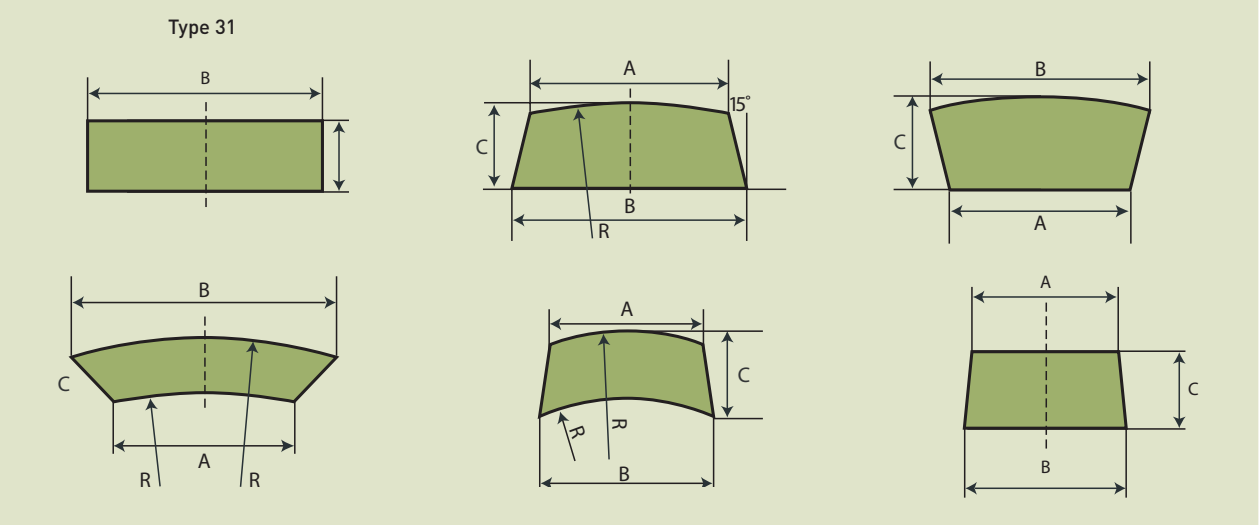
METAL PRECISION

Type 31								
DIM LxBxC(mm)	SEGMENT		SHAPE	PK QTY	BEST		GOOD	
	A (mm)	R						
150x80x25	0	0°	SA	4			38A 30 IVS	69936686253
100x65x25	56,9	205°	SB	4			86A 30 IV TECH	66253050274
200x103x38	84,8	228,6°	SB	4	5SG 46 G12 VXP	66253055947	38A 24 F12 VXP	69936625436
190x112,3x44,4	78,6	381°	SC	4			38A 30 G12 VXP	66253050262
110x70x20	47	100°	SD	4			86A 36 IV TECH	66253050288
	47	100°	SD	4			86A 46 HV TECH	66253050272
90x50x16	45	91°	SE	4	3SG 36 IVX	66253055949	38A 36 IVS	69936688543
	45	91°	SE	4	3SG 46 HVX	66253050277	38A 46 HVS	69936682335
110x53,5x16	47	89°	SE	4			38A 36 IVS	69936688485
	47	89°	SE	4			38A 46 HVS	69936688614
90x42x20	38		SO	4	3SG 46 HVX	66253050279	38A 36 HVS	69936686257
	38		SO	4			38A 46 HVS	69936686263
	38		SO	4			38A 60 GVS	69936686264
110x50x25	43,5		SO	4	3SG 46 GVX	66253050281	38A 46 GVS	69936686266
	43,5		SO	4	3SG 60 GVX	66253050282	38A 60 GVS	69936686267
	43,5		SO	4			19A 54 IVS	69936686249
110x60x22	54		SO	4	3SG 36 HVX	66253050266	38A 36 HVS	69936682248
110x70x25	64		SO	4			38A 36 IVS	69936682640
121x59.5x21	48		SO	4			38A 30 HVS	69936624796
	48		SO	4			38A 36 IVS	69936682231
	48		SO	4			86A 46 HV TECH	66253050264
150x70x25	64		SO	4	3SG 36 E12 VXP	69936688295	38A 30 IVS	69936682296
	64		SO	4	3SG 36 HVX	66253050285	38A 36 IVS	69936686248
60x65x20	58		SO	4			86A 36 IV TECH	66253050269
180x103x38	94		SO	4	3SG 36 HVX	66253050287	38A 30 IVS	69936686273

NON-FERROUS PRECISION

Type 31								
DIM LxBxC(mm)	SEGMENT		SHAPE	PK QTY	BEST		GOOD	
	A (mm)	R(mm)						
100x65x25	56,9	205	SB	4			37C 30 HV	69936688426
110x70x25	64		SO	4			37C 24 IV	69936683895

SHAPE KEY



DIAMOND DRESSING

■ Norton offers an extensive range of complimentary diamond dressing solutions. For more information see page ...

MIDAS TO INSERT
PAGE NUMBER



Dimensions Key: DIM = Dimensions, L = Length, B = Width, C = Thickness, A = Segment, R = Segment External Radius



Norton offers high quality vitrified mounted points, available in a full range of standard shapes and spindles.

APPLICATIONS & MARKETS

- Deburring
- Blending
- Finishing



GOOD

86A

FEATURES	BENEFITS
■ Highly refined pink aluminium oxide abrasive	■ Very versatile
■ Tougher than pure white aluminium oxide abrasive	■ Reduced dress frequency
■ Good profile holding	■ Better part geometry
■ Contains a small portion of chromium oxide abrasive	

MOUNTED POINTS SHAPE A						
SHAPE	DIM DIAxL(mm)	SPINDLE DIAxL(mm)	MOS (RPM)	PK QTY	GOOD	
A1	20x65	6x40	15,000	20	86A 60 PVS	66253055212
		6x40	15,000	20	86A 30 PVS	66253055021
A3	22x70	6x40	14,000	20	86A 60 PVS	66253055218
		6x40	14,000	20	86A 36 PVS	66253055235
A4	30x30	6x40	20,000	20	86A 36 PVS	66253055179
		6x40	20,000	20	86A 60 PVS	66253054956
A5	20x28	6x40	30,000	20	86A 60 PVS	66253055094
A7	30x50	6x40	13,000	20	86A 30 PVS	66253055022
A8	20x50	6x40	18,000	20	86A 36 PVS	66253055308
		6x40	18,000	20	86A 60 PVS	66253055877
A9	30x50	6x40	13,000	20	86A 30 PVS	66253055395
A10	22x70	6x40	14,000	20	86A 36 PVS	66253055237
A11	21x45	6x40	18,000	20	86A 60 PVS	66253055214
		6x40	18,000	20	86A 30 PVS	66253055307
		6x40	18,000	20	86A 46 PVS	66253055023
		6x40	18,000	20	86A 36 PVS	66253055095

MOUNTED POINTS SHAPE A (CONTINUED)						
SHAPE	DIM DIAxL(mm)	SPINDLE DIAxL(mm)	MOS (RPM)	PK QTY	GOOD	
A12	18x30	6x40	30,000	10	86A 36 PVS	66253054962
	20x32	6x40	30,000	10	86A 60 PVS	66253055096
A13	25x25	6x40	25,000	10	86A 60 PVS	66253055125
A14	18x22	6x40	35,000	10	86A 60 PVS	66253055180
A15	6x25	6x40	30,000	10	86A 90 PVS	66253055126
A19	30x50	6x40	13,000	10	86A 36 PVS	66253054960
		6x40	13,000	10	86A 60 PVS	66253054961
A20	40x50	6x40	10,000	10	86A 36 PVS	66253054963
A21	25x25	6x40	25,000	10	86A 36 PVS	66253055238
		6x40	25,000	10	86A 60 PVS	66253054965
A24	6x20	6x40	41,000	10	86A 60 PVS	66253055127
		6x40	41,000	10	86A 90 PVS	66253055311
A25	25x25	6x40	25,000	10	86A 60 PVS	66253055128
A26	16x16	6x40	54,000	10	86A 46 PVS	66253055204
		6x40	54,000	10	86A 90 PVS	66253054952
A36	40x10	6x40	25,000	10	86A 60 PVS	66253055129
		6x40	25,000	10	86A 90 PVS	66253054968
A37	30x6	6x40	30,000	10	86A 90 PVS	66253055313
A38	25x25	6x40	25,000	10	86A 60 PVS	66253054946

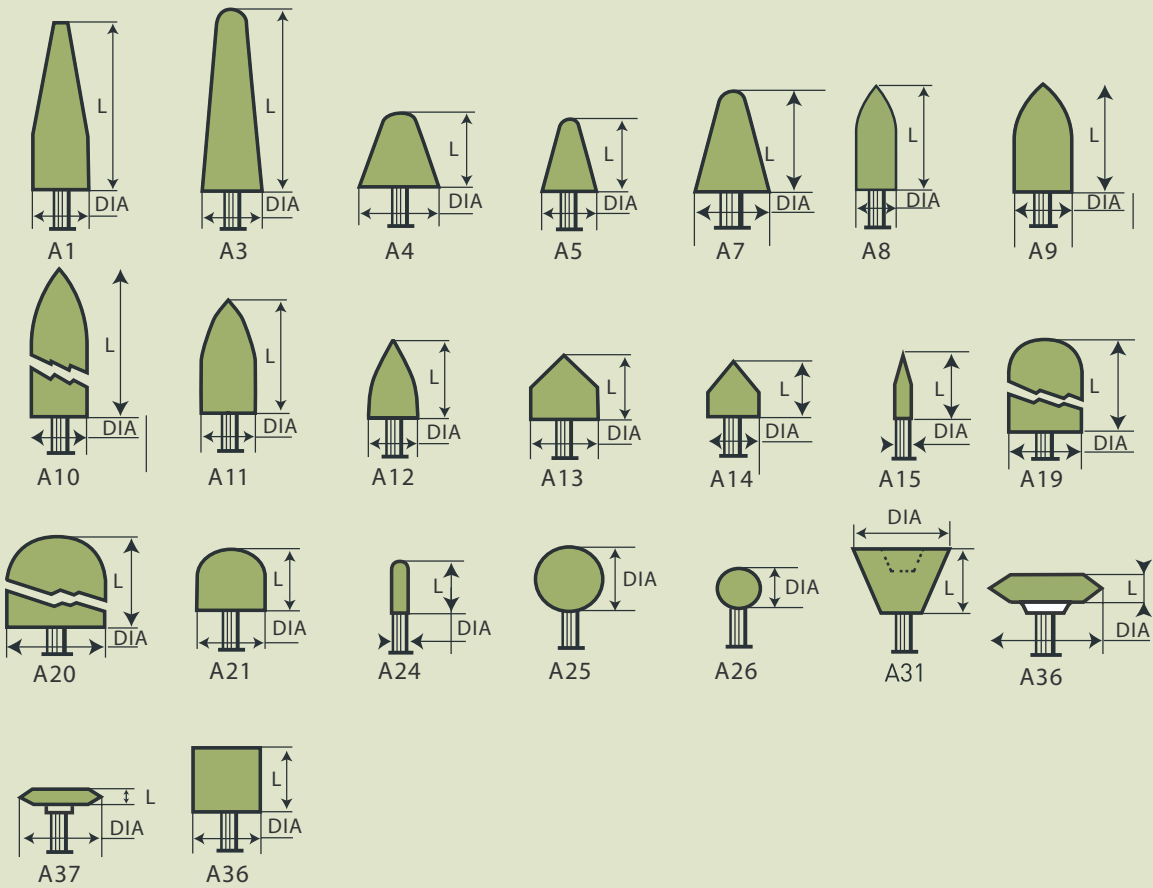
MOUNTED POINTS SHAPE B						
SHAPE	DIM DIAxL(mm)	SPINDLE DIAxL(mm)	MOS (RPM)	PK QTY	GOOD	
B44	6x10	3x40	61,000	10	86A 90 PVS	66253055183
B46	3x8	3x40	90,000	10	86A 90 PVS	66253055185
B51	11x20	3x40	41,000	10	86A 90 PVS	66253055402
B52	10x20	3x40	41,000	10	86A 90 PVS	66253055232
B53	6x16	3x40	54,000	10	86A 90 PVS	66253055305
		3x40	54,000	10	86A 120 PVS	66253055090
B54	6x13	3x40	54,000	10	86A 90 PVS	66253055139
B55	3x6	3x40	90,000	10	86A 90 PVS	66253055401
B61	20x8	3x40	47,000	10	86A 90 PVS	66253055020
B81	20x4	3x40	47,000	10	86A 90 PVS	66253055140
B91	13x16	3x40	58,000	10	86A 90 PVS	66253055199
B97	3x10	3x40	90,000	10	86A 90 PVS	66253055141
B121	13x13	3x40	58,000	10	86A 90 PVS	66253055143
B123	5x5	3x40	73,000	10	86A 90 PVS	66253055207

MOUNTED POINTS SHAPE C						
SHAPE	DIM DIAxL(mm)	SPINDLE DIAxL(mm)	MOS (RPM)	PK QTY	GOOD	
C262	16x32	6x40	25,000	10	86A 90 PVS	66253055217
		6x40	25,000	10	86A 150 PVS	66253055025
C263	20x32	6x40	30,000	10	86A 60 PVS	66253055177

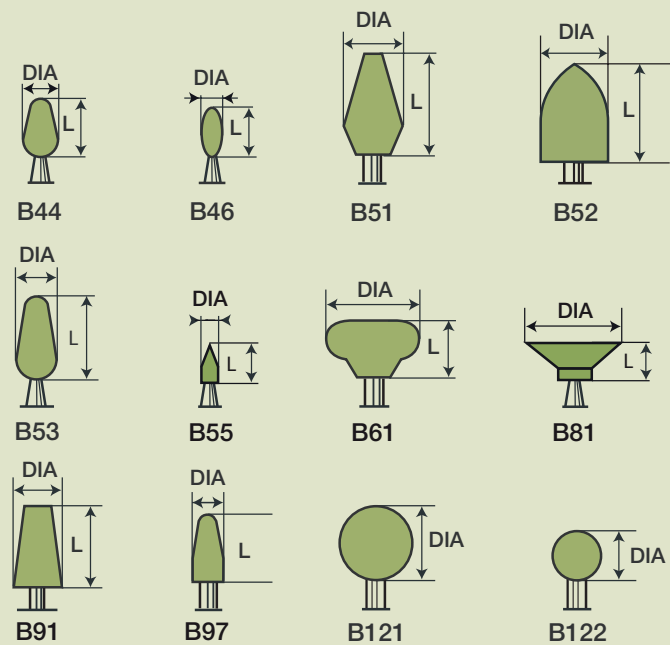
Dimensions Key: DIM = Dimensions, DIA = Diameter, L = Length



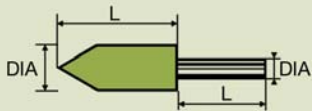
SHAPE A KEY



SHAPE B KEY



SHAPE C KEY



MIDAS TO INSERT B54?

MOUNTED WHEELS

SHAPE	DIA DxL(mm)	SPINDLE DIAxL(mm)	MOS (RPM)	PK QTY	GOOD	
W144	3x6	3x40	90,000	10	86A 60 PVS	66253055396
	3x6	3x40	90,000	10	86A 90 PVS	66253055147
	3x6	3x40	90,000	10	86A 100 PVS	66253055036
W145	3x10	3x40	90,000	10	86A 90 PVS	66253055145
W146	3x13	3x40	80,000	10	86A 90 PVS	66253055148
W149	4x6	3x40	80,000	10	86A 90 PVS	66253055150
W153	5x10	3x40	73,000	10	86A 90 PVS	66253055160
W154	5x13	3x40	70,000	10	86A 90 PVS	66253055162
W160	6x6	3x40	61,000	10	86A 90 PVS	66253055164
W161	6x8	3x40	61,000	10	86A 90PVS	66253055306
W162	6x10	6x40	61,000	10	86A 60 PVS	66253055166
		6x40	61,000	10	86A 90 PVS	66253055206
W163	6x13	6x40	54,000	10	86A 60 PVS	66253055210
		3x40	54,000	10	86A 90 PVS	66253055167
W164	6x20	3x40	41,000	10	86A 90 PVS	66253055168
W169	8x10	3x40	61,000	10	86A 60 PVS	66253055398
		3x40	61,000	10	86A 90 PVS	66253055241
W170	8x13	3x40	54,000	10	86A 60 PVS	66253055248
W171	8x20	3x40	41,000	10	86A 60 PVS	66253055171
	8x20	3x40	41,000	10	86A 90 PVS	66253055208
W175	10x10	3x40	61,000	10	86A 80 PVS	66253055202
		3x40	61,000	10	86A 90 PVS	66253055173
W176	10x13	3x40	54,000	10	86A 60 PVS	66253055315
		3x40	54,000	10	86A 90 PVS	66253055176
W177	10x20	6x40	41,000	10	86A 60 PVS	66253055092
		3x40	41,000	10	86A 90 PVS	66253055203
W179	10x32	3x40	25,000	10	86A 60 PVS	66253055223
		3x40	25,000	10	86A 90 PVS	66253055346
W185	13x13	6x40	58,000	10	86A 90 PVS	66253055211
		6x40	48,000	10	86A 46 PVS	66253055250
		3x40	48,000	10	86A 60 PVS	66253054953
W186	13x20	6x40	48,000	10	86A 90 PVS	66253054970
		6x40	20,000	10	86A 90 PVS	66253055131
		6x40	20,000	10	86A 46 PVS	66253054972
W188	13x40	3x40	47,000	10	86A 46 PVS	66253055351
		6x40	47,000	10	86A 60 PVS	66253055091
		3x40	47,000	10	86A 90 PVS	66253055133
W195	16x20	6x40	35,000	10	86A 46 PVS	66253055357
		6x40	35,000	10	86A 90 PVS	66253054973
W196	16x25	6x40	18,000	10	86A 46 PVS	66253055213
		6x40	18,000	10	86A 90 PVS	66253055010
W197	16x50	6x40	42,000	10	86A 36 PVS	66253055181
		6x40	42,000	10	86A 60 PVS	66253055134
W204	20x20	6x40	42,000	10	86A 60 PVS	66253055134

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

This image shows a full-page view of a notebook or worksheet. At the top, there is a solid green horizontal band containing the word "NOTES" in white, bold, uppercase letters. Below this header, the rest of the page is filled with light gray horizontal lines, providing space for writing.

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



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



GOOD

38A

FEATURES	BENEFITS
High purity white aluminium oxide abrasive	Ideal for dressing CBN Super Abrasive
Friable abrasive	



37C

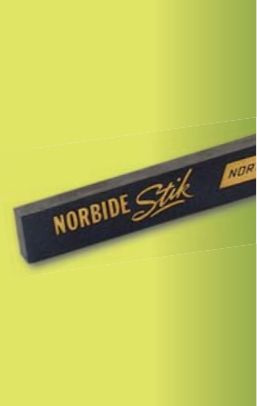
FEATURES	BENEFITS
High purity black silicon carbide abrasive	Ideal for dressing conventional vitrified grinding wheels
Harder & more friable than aluminium oxide abrasive	



BEST

NORBIDE

FEATURES	BENEFITS
Manufactured from sintered Boron Carbide	Excellent chemical & wear resistance
	Long product life, reduced maintenance & less downtime
Extremely hard & very dense	Suitable for applications such as blast nozzles, monument nozzles & armour components
	Suitable also for dressing tool & cutter wheels 200mm & smaller, especially cups & saucer shapes



BETTER

39C

FEATURES	BENEFITS
Highest purity green silicon carbide abrasive	Ideal for dressing conventional vitrified grinding wheels
Harder & more friable than aluminium oxide abrasive	Outperforms 37C for better cutting efficiency & longer life



GENERAL PURPOSE DRESSING STICKS

RECTANGULAR			
DIM WxHxL(mm)	PK QTY	GOOD	
13x25x150	10	38A 220 KV	662434 60886
25x50x200	10	39C 60 KV	699366 85066

DRESSING STICKS FOR SUPER ABRASIVE GRINDING WHEELS

RECTANGULAR			
DIM WxHxL(mm)	PK QTY	GOOD	
13x25x150	10	38A 150 HVBE	614636 05565
	10	38A 220 HVBE	614636 05066
	10	38A 320 HVBE	699366 84889
SQUARE			
DIM WxHxL(mm)	PK QTY	GOOD	
20x20x100	10	38A 220 HVS	699366 82631
	10	37C 80 MV	699366 85063
	10	38A 150 IVBE	699366 82314
	10	37C 320 HV	662434 53547
20x20x150	10	37C 80 MV	699366 85063
20x20x200	10	38A 220 IVBE	614636 03606

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

DRESSING STICKS FOR BONDED ABRASIVE GRINDING WHEELS			
RECTANGULAR			
DIM WxHxL(mm)	PK QTY	GOOD	
5x12,7x76,2	1	NORBIDE	614636 10148
25x50x200	10	37C 24 TV	699366 85072
SQUARE			
DIM WxHxL(mm)	PK QTY	GOOD	
25x25x150	10	37C 30 UV	699366 24620
ROUND			
DIA xL(mm)	PK QTY	GOOD	
25,4x203,2	10	37C 30 TV	614636 25024

SGA TO SUPPLY IMAGE

NOTES

[illegible]



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

MIDAS TO SUPPLY IMAGE

PRODUCT SELECTION

APPLICATION	COARSE / MEDIUM SHARPENING	FINE STONING	FINISH HONING
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	A240FR96

BENCH & COMBINATION OIL STONES

BENCH STONES				
DIM LxWxH(mm)	TYPE	PK QTY	GOOD	
76x22x10	FBP3	5	Fine India	614636 25077
102x25x6	MB14	5	Medium India	614636 85575
	FB14	5	Fine India	614636 85570
102x25x13	CB24	5	Coarse India	614636 85595
	MB24	5	Medium India	614636 85590
	MJB24	5	Medium Crystolon	614636 85480
	FB24	5	Fine India	614636 85585
	FJB24	5	Fine Crystolon	614636 85475
102x44x13	MB124	5	Medium India	614636 26048
127x51x16	MB35	5	Medium India	614636 85605
152x38x13	MB26	5	Medium India	614636 26034
152x51x19	HB6	5	Hard Arkansa	614636 85660
	UPB6	10	Medium India	614636 90694
152x51x25	CB6	5	Coarse India	614636 85620
	MB6	5	Medium India	614636 85615
	MJB6	5	Medium Crystolon	614636 85505
	FB6	5	Fine India	614636 85610
	FJB6	5	Fine Crystolon	614636 85500
203x51x25	CB8	5	Coarse India	614636 85635
	UPB8	10	Medium India	614636 85755
	MB8	5	Medium India	614636 85630
	FB8	5	Fine India	614636 85625

GOOD

CRYSTOLON		
FEATURES	BENEFITS	MIDAS TO CREATE IMAGE
■ Premium Silicon Carbide Abrasive	■ Fast cutting stone; ideal for general sharpening of cutting tools	
■ Pre-filled with oil	■ Fast stock removal for quick edge shaping with minimal loading	
	■ Saves time by eliminating the need for pre-soaking prior to use	
INDIA		
FEATURES	BENEFITS	MIDAS TO CREATE IMAGE
■ Smooth cutting aluminium oxide abrasive	■ Long lasting cutting edge	
■ Norton's trademark for a fine finish	■ Ideal for cleaning, deburring & good quality finishes	
■ Pre-filled with oil	■ Saves time by eliminating the need for pre-soaking prior to use	
ARKANSAS		
FEATURES	BENEFITS	MIDAS TO CREATE IMAGE
■ Natural premium Novaculite quarried in Arkansas & available in soft & hard	■ Sharpest possible razor edges	
	■ Near mirror finishes	
	■ Use for finer honing after India stone	
■ Dense construction	■ Absorb oil at a much slower rate, hence these stones do not require prefilling	



DIM
LxWxH(mm)

!

DIM
LxWxH(mm)

SGA TO SUPPLY IMAGE[illegible]

167



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

MIDAS TO CREATE IMAGE

PRODUCT SELECTION

APPLICATION	COARSE / MEDIUM SHARPENING	FINE STONING	FINISH HONING
Carbide Tool	Medium Crystolon Square		
Center 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
Gouges (Wood)		Fine India Gouge Sharpening Stone	
Keyways	Coarse/Medium India Square	Fine India Square	Hard Arkansas Square
Lathe Bits		Fine India Square	Hard Arkansas Square
Leather	Medium Crystolon Tradesmen		
Machine Knife Stone	Coarse Crystolon Machine Knife		
Magnetic Chucks		India Round	
Pen Knife			Arkansas Pen Knife
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
Reamers	Medium India Reamer Stone	Fine India Reamer Stone	
Router Bits		Fine India Square	
Scythe Stone	Scythe Stone		
Silversmith	Medium India Silversmith	Fine India Silversmith	
Tap Threads		Fine India Triangle	

GOOD

CRYSTOLON

FEATURES

- Premium Silicon Carbide Abrasive

BENEFITS

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

MIDAS TO CREATE IMAGE

INDIA

FEATURES

- Smooth cutting aluminium oxide abrasive

BENEFITS

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

MIDAS TO CREATE IMAGE

ARKANSAS

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

MIDAS TO CREATE IMAGE

ABRASIVE FILES

 HALF ROUND				
DIM LxH(mm)	TYPE	PK QTY	GOOD	
102x6	MF314	5	Medium India	614636 86355
102x8	MF324	5	Medium India	614636 86370
102x10	MF334	5	Medium India	614636 86385
	FF334	5	Fine India	614636 86380
102x13	MF344	5	Medium India	614636 86400
	FF344	5	Fine India	614636 86395





ABRASIVE FILES (CONTINUED)				
ROUND				
DIM LxDIA(mm)	TYPE	PK QTY	GOOD	
76x6	HF813	5	Hard Arkansas	61463686800
102x3	MF212	5	Medium India	61463626143
	FF212	5	Fine India	61463626076
102x6	MF214	5	Medium India	61463686475
	FF214	5	Fine India	61463686470
	CF214	5	Coarse India	61463686480
102x8	MF224	5	Medium India	61463626036
	FF224	5	Fine India	61463626071
102x10	MF234	5	Medium India	61463686490
	FF234	5	Fine India	61463686485
102x13	MF244	5	Medium India	61463686505
	FF244	5	Fine India	61463686500
152x10	MF236	5	Medium India	61463690575
	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
SQUARE				
DIM LxH(mm)	TYPE	PK QTY	GOOD	
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
	CF14	5	Coarse India	61463686075
102x8	FF24	5	Fine India	61463690673
	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	CF46	5	Coarse India	61463686120
	FF46	5	Fine India	61463686110
	MF46	5	Medium India	61463686115

ABRASIVE FILES (CONTINUED)				
SQUARE (CONTINUED)				
152x16	CF56	5	Coarse India	61463686135
	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
	MF76S	5	Medium India	61463626141
TRIANGLE				
DIM LxH(mm)	TYPE	PK QTY	GOOD	
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
	CF134	5	Coarse India	61463686255
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	CF166	5	Coarse India	61463686315
	MF166	5	Medium India	61463686310
	MJF166	5	Medium Crystolon	61463625048
152x25	FF166	5	Fine India	61463686305
	MF176	5	Medium India	61463686325
203x16	FF176	5	Fine India	61463686320
203x19	MF178	5	Medium India	61463626073
203x19	MF180	5	Medium India	61463626130
	FF180	5	Fine India	61463626082
254x25	CF182	5	Coarse India	61463626043
	MF182	5	Medium India	61463626074



KNIFE BLADE FILES

POINTED FILES

SILVERSMITH FILES

SGA TO SUPPLY IMAGE

NOTES

This image shows a full page of blank, lined paper. The paper is white and features evenly spaced, horizontal green lines running across its entire width. There are no margins, text, or other markings on the page.



Norton abrasive slips and speciality 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

■ ANY FURTHER TEXT TO BE SUPPLIED?

MIDAS TO CREATE IMAGE

GOOD

CRYSTOLON

FEATURES	BENEFITS	
Premium Silicon Carbide Abrasive	- Fast cutting tone; ideal for general sharpening of cutting tools - Fast stock removal for quick edge shaping with minimal loading	MIDAS TO CREATE IMAGE

INDIA

FEATURES	BENEFITS	
- Smooth cutting aluminium oxide abrasive - Norton's trademark for a fine finish	Ideal when a close tolerance is more important than the speed of cut	MIDAS TO CREATE IMAGE

ARKANSAS

FEATURES	BENEFITS	
Natural premium Novaculite quarried in Arkansas & available in soft & hard	- Sharpest possible razor edges - Near mirror finishes - Use for finer honing after India stone	MIDAS TO CREATE IMAGE

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	
Milling Cutter	Medium India round edge slip	Fine India round edge slip	Hard Arkansas round edge slip

SLIP STONES

CARBIDE TOOL SLIP STONES				
DIM LxWxH(mm)	TYPE	PK QTY	GOOD	
89x19x13	MJT63	5	Medium Crystolon	61463687290
	FJT63	5	Fine Crystolon	61463687285
ROUND EDGE SLIP STONES				
DIM LxWxH(mm)	TYPE	PK QTY	GOOD	
102x25x11	MS14	5	Medium India	61463687140
	FS14	5	Fine India	61463687135
102x32x6	HS14	5	Hard Arkansas	61463687050
102x44x10	HS4	5	Hard Arkansas	61463687045
114x44x6	MJS24	5	Medium Crystolon	61463687080
	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	MJS44	5	Medium Crystolon	61463687095
	MS44	5	Medium India	61463687180
	FJS44	5	Fine Crystolon	61463687090
	FS44	5	Fine India	61463687175
114x54x16	MS54	5	Fine India	61463690656
127x25x8	MS15	5	Medium India	61463687195
	FS15	5	Fine India	61463687190
CARVING TOOL SLIP STONES				
DIM LxWxH(mm)	TYPE	PK QTY	GOOD	
57x22x5	AS22	5	Hard Arkansas ultra-fine	61463687255

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



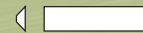
DIM LxWxH(mm)	TYPE	PK QTY	GOOD	
152x51x35	FS76	5	Fine India	614636 87305



DIM LxWxH(mm)	TYPE	PK QTY	GOOD	
241x35x13	JT911	5	Medium Crystolon	076607 87938
254x32x19	JT930	5	Medium Crystolon	614636 87675



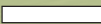
DIM DIAxH(mm)	TYPE	PK QTY	GOOD	
102x38	JB74	5	Coarse Crystolon	614636 87570



DIM LxWxH(mm)	TYPE	PK QTY	GOOD	
127x25x5	FT125	5	Fine India	614636 87430
	MT125	5	Medium India	614636 87425
152x25x6	MT126	5	Medium India	614636 87440



DIM LxWxH(mm)	TYPE	PK QTY	GOOD	
203x51x51	BF28	5	Hand Crystolon	614636 87845
203x89x38	0000235	5	Fluted Crystolon	614636 87795



DIM LxWxH(mm)	TYPE	PK QTY	GOOD	
240x35x13	TJ4	5	Scythe Stone	699366 93133



DIM LxWxH(mm)	TYPE	PK QTY	GOOD	
200x10x20	-	5	A240FR96	699366 25667

177

NOTES

Reinforced cut-off wheels contain fabric incorporated throughout the entire diameter which is designed to increase the resistance to flexural bending solicitation while operating. 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

BEST

4NZ (TOROS)

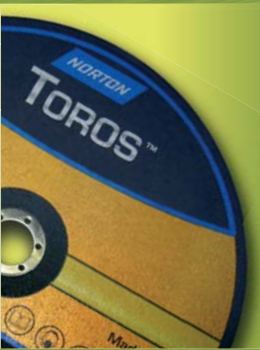
Type 41 Type 42

FEATURES

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

BENEFITS

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



5NZ (TOROS)

Type 41 Type 42

FEATURES

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

BENEFITS

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



BEST

XGP (TOROS)

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



39C (TOROS)

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



74C (TOROS)

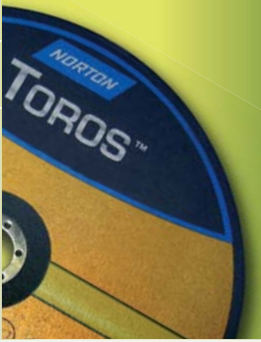
Type 41

FEATURES

- Special blend silicon carbide abrasives
- More durable than the sharper 39C abrasive

BENEFITS

- Good wheel life, limited MRR
- Good to cut aluminum, cast iron & bronze



BETTER

U57A

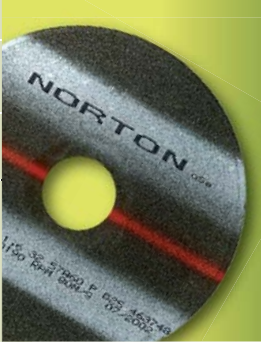
Type 41 Type 42

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

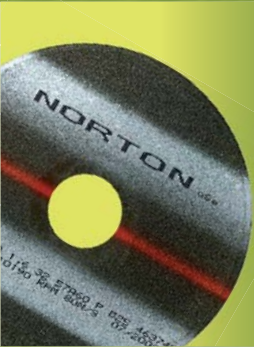


GOOD

57A

Type 41

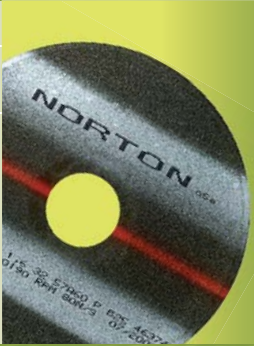
FEATURES	BENEFITS
Semifriable aluminium oxide abrasive	Cool & burn free cutting
Less tough than type A abrasive but offers better cutting quality	Ideal for heat-sensitive applications with light to moderate feed rates
Pointed shape	- Suitable for all steels - Good compromise between cut quality & wheel life - Very versatile: suitable for all steels



A

Type 41

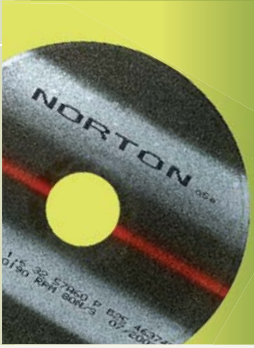
FEATURES	BENEFITS
Tougher than pure white aluminium oxide abrasive	Good wheel life, limited MRR
General purpose abrasive suitable for most operations	- Good for cutting medium to soft steels - Economy product - First choice for less technical applications



23A

Type 41

FEATURES	BENEFITS
An abrasive blend of semifriable 57A aluminium oxide & white monocristalline 32A aluminium oxide	- Cool & burn free cutting - Suitable for all steels - Improved metal removal rate compared to 57A pure semifriable aluminium oxide abrasive



BONDS

- 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.

MAXIMUM OPERATING SPEED	
COLOUR	MOS (m/s)
Green	100
Red	80
Yellow	63

NON-REINFORCED						
DIM DIAxTxB(mm)	MOS (m/s)	PK QTY	BEST		GOOD	
Type 41						
100x1x13	80	25			57A 60 PB25	662530 56355
100x1x20	80	25			23A 80 PB25	662530 56356
125x1x13	80	25			57A 60 PB25	662530 56357
125x1x16	80	25			23A 80 PB25	662530 56358
125x1x20	80	25			57A 60 PB25	662530 56359
150x1,6x16	80	25			23A 60 NB25	662530 56362
150x1,6x20	63	25			23A 60 LB25	662530 56365
	80	25			23A 60 NB25	662530 56366
	80	25			57A 60 PB25	662530 56364
150x1,6x31,75	80	25			57A 60 RB25	662530 56371
150x1,6x32	80	25			57A 60 NB25	662530 56360
	80	25			57A 60 PB25	662530 56372
150x1x13	80	25			23A 80 PB25	662530 56361
150x1x16	80	25			23A 80 PB25	662530 56363
150x1x20	80	25			23A 80 NB25	662530 56367
	80	25			23A 80 PB25	662530 56368
150x1x32	80	25			57A 60 PB25	662530 56373
150x2x20	80	25			23A 60 NB25	662530 56370
150x2x32	80	25			57A 60 PB25	662530 56369
150x3x32	80	25			57A 60 PB25	662530 56374
180x1,6x31,75	80	25			57A 60 PB25	662530 56375
	80	25			57A 60 RB25	662530 56376
200x1,5x20	63	10	XGP 70 FB26 (Toros)	662530 51281		
200x1,6x20	80	25			57A 60 PB25	662530 56377
200x1,6x32	80	25			57A 60 NB25	662530 56382
	80	25			57A 60 PB25	662530 56380
	80	25			57A 60 RB25	662530 56381
200x2x20	63	25			23A 60 LB25	662530 56378
200x2x25,4	80	25			57A 60 PB25	662530 56379
250x1,6x25,4	80	10			57A60NB25 (Toros)	662530 56383
250x1,6x32	63	10	39C 70 DB24 (Toros)	662530 53166		
	63	10	74C 70 FB24 (Toros)	662530 51377		
	63	10	XGP 70 EB26 (Toros)	662530 51375		
	63	10	XGP 70 FB26 (Toros)	662435 83122		
	63	10	XGP 70 HB26 (Toros)	662435 83121		
	63	10	XGP 70 JB26 (Toros)	662530 53173		

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



NON-REINFORCED (CONTINUED)								
DIM DIAxTxB(mm)	MOS (m/s)	PK QTY	BEST			GOOD		
 Type 41								
300x2x32	63	10	39C 70 DB24 (Toros)	662530	53168			
	63	10	XGP 70 EB26 (Toros)	662530	51287			
	63	10	XGP 70 FB26 (Toros)	662530	51376			
350x2,5x32	63	10	39C 70 DB24 (Toros)	662530	51291			
	63	10	74C 70 FB24 (Toros)	662530	51379			
	63	10	XGP 70 EB26 (Toros)	662530	34094			
	63	10	XGP 70 FB26 (Toros)	662528	28120			
	63	10	XGP 70 HB26 (Toros)	662528	28119			
400x3x32	63	10	XGP 60 EB26 (Toros)	662530	51290			
	63	10	XGP 60 FB26 (Toros)	662530	51378			
450x3,5x32	63	10	XGP 60 EB26 (Toros)	662530	51374			

REINFORCED



DIM DIAxTxB(mm)	MOS (m/s)	PK QTY	BEST		BETTER		GOOD	
 Type 41								
150x2x20	80	25						
200x2x20	80	25			U57A 60 QB25 NA2	662530 56384		
200x2x32	80	25			U57A 60 QB25 NA2	662530 56385		
300x3,5x25,4	80	25	4NZ 30 TB65 NA	662530 56387	U57A 60 OB25 NA2	662530 56386		
350x3,5x25,4	80	25	4NZ 30 TB65 NA	662530 59172				
	80	25	4NZ 30 TBF3 (Toros)	662530 56388				
400x4,5x25,4	80	25	4NZ 30 XB25 NA	662530 59175				
	80	25	4NZ 30 YB65	662530 56390				
400x4,5x40	80	25	4NZ 30 YBF 3 NA (Toros)				57A 24 PB25	662530 59176
400x4x25,4	80	25	Better		U57A 24 TB65	662530 56389		
400x4x32	80	25	4NZ 30 XBF3 NA (Toros)	662530 59174				
500x4,5x25,4	80	10	4NZ 24 TB65 NA	662530 56527				
500x5,5x25,4	80	10	4NZ 30 XB25 NA	662530 56535				
	80	10					57A 24 PB25 NA4	662530 56533
	80	10					57A 24 RB25 NA4 (TBDX METAL)	662530 56536
500x5,5x40	100	10			57A2 44 TBF1 (Toros)	662530 56534		
500x5x25,4	80	10					57A 24 TB25 NA (RC26)	662530 56529
600x6,5x60	100	10					57A 24 PB25 NA6	662530 57645

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

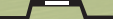
REINFORCED (CONTINUED)								
DIM DIAxTxB(mm)	MOS (m/s)	PK QTY	BEST		BETTER		GOOD	
 Type 42								
600x7x60	100	10			U57A 24 VBF3 NA6 (Toros)	662530 57646		
600x7x76	80	10					A 24 R8F3	
600x7x60	100	10			U57A 24 VBF3 NA6 (Toros)	692104 31609		
600x7x76	80	10					A 24 R8F3	
400x5x76,2	80	25	4NZ 24 ZB25 DA8	662530 56523			A 24 RBF3	
	80	25	5NZ 24 PBF3 DA6 (Toros)	662530 56525				
	80	25			U57A 20 VB25 DA8	662530 56524		
	80	25						
500x6x76.2	80	10			U57A 20 RB25 DA8	662530 56538		
508x6x76,2	80	10	4NZ 24 ZB25 DA8	662530 56539				
	80	10	5NZ 20 PBF3 DA6 (Toros)	662530 56540				

REINFORCEMENTS

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



Straight Type 41



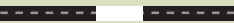
Depressed Centre Type 42



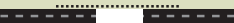
NA



NA2[†]



NA3



NA4



NA6



DA6



DA8

[†]NA2 is different from NA because it adopts lighter reinforcements

SPEC CHECK

- Non-reinforced cut-off wheels are designed for use on “fixed base” types of 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

Bonded
Abrasives

ORGANIC CUT-OFF WHEELS

183

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 cut wheels on vertical grinders. Since finish tolerances are not usually critical, coarse, durable wheels are used with grit sizes ranging from 16 to 24

FOUNDRY

- Foundries
- Welding shops
- Steel mills
- Forge shops



BONDS

- B3** Foundry wheels: multi-purpose bond that gives satisfactory results on most applications
- B5** Portable foundry: Typical bond for cups used in snagging operations
- B28** Foundry wheels: high level bond suitable for most technical applications requiring high powered machines

PEDESTAL SNAGGING

DIM DIAxTxB(mm)	MOS (m/s)	PK QTY	BEST		GOOD	
Type 01						
300x50x32	50	2			A 16 NB3	662435 40529
	50	2			A 36 06B3	662435 40530
355x50x127	50	2			A 16 0B28	662530 57667
400x50x127	50	2			A 24 QB3	692104 31446
508x50x127	50	1			A 16 NB28	662530 57668
508x50x50	50	1	ZF7A 16 R5B3	662530 57670		
508x60x127	50	1	ZF7A 20 Q5B3	662530 57673		
	50	1	ZF7A 16 R5B3	662530 57671		
760x76x304,8	50	1	ZF7C 16 3PB28	662530 57679		
760x80x304,8	50	1	ZF7A 14 3RB28	662530 57675		
	50	1	ZF7A 16 3RB28	662530 57676		

BEST

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



GOOD

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 MRR
- Good for cutting medium to soft steels
- Economy product
- First choice for less technical applications



C

Type 11

FEATURES

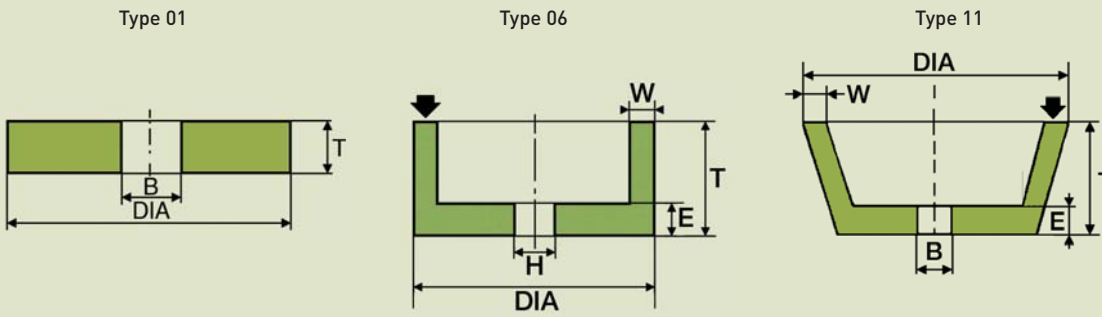
- Low purity black silicon carbide abrasive
- Harder & more friable than aluminium type abrasives

BENEFITS

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



SHAPE KEY



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

A mounted wheel is a small grinding wheel permanently fastened to its own spindle or mandrel. It can be used on a variety of machines for deburring, tool sharpening, finishing cavities and removing mould and marks. The Norton catalogue offers primarily shape W products, although other shapes are available on request. For use on all steel types, cast iron & superalloys

APPLICATIONS & MARKETS

- Foundries
- Steel mills
- Tool industry



ORGANIC MOUNTED WHEELS

SHAPE	DIM DIAxL(mm)	SPINDLE DIAxL(mm)	MOS (RPM)	PK QTY	BEST	
W177	10x20	6x40	66,000	20	A 46 QB	66253053220
W178	10x25	6x40	55,200	20	A 46 QB	66253053221
W188	13x40	6x40	30,370	20	A 36 QB	66253053225
	13x40	6x40	30,370	20	A 46 QB	66253053226
W204	20x20	6x40	42,750	20	A 46 QB	66253053229
W205	20x25	6x40	34,500	20	A 36 QB	66253053230
	20x25	6x40	34,500	20	A 46 QB	66253053231
W207	20x40	6x40	24,000	20	A 46 QB	66253053232
W220	25x25	6x40	25,500	20	A 36 QB	66253053239
	25x25	6x40	25,500	20	A 46 QB	66253053237
W221	25x40	6x40	19,120	20	A 46 QB	66253053243
W230	32x32	6x40	24,000	20	A 36 QB	66253053250
	32x32	6x40	24,000	20	A 46 QB	66253053248
W236	40x13	6x40	25,130	20	A 46 QB	66253055251
W242	50x25	6x40	19,100	20	A 46 QB	66253055252

BEST

A

FEATURES

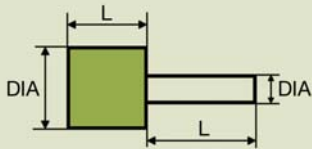
- Tougher than pure white aluminium oxide abrasive
- General purpose abrasive for most operations

BENEFITS

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



SHAPE W KEY



SGA TO SUPPLY
APPLICATION IMAGE

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