

ID and Race Wheels



ID and Race Wheel FastTrack Availability

Type 01 Straight

Diameter: 0.164" thru 4.532"

Thickness: 0.150" thru 2.750"

Type 05 Recessed One Side

Diameter: 0.407" thru 4.625"

Thickness: 3/16" thru 3.100"

ABRASIVE	25A, 32A, 38A, 48A, 53A, 57A	5TG**	Quantum (NQ) 1SG, 3SG, 5SG	32AA
GRIT	46* - 120	80/1, 120/1	36 - 150	46 - 80
GRADE	J - P	I - M	I - N	I - M
STRUCTURE	6	8	6	6
BOND	VFL	VFL	VFL	VFL
SPEED	8,500 SFPM***			
TREAT 22	Available for Quantum (NQ) 32A, and 53A			

* 46 GRIT ONLY AVAILABLE IN .312 DIAMETER
 ** 5TG IS AVAILABLE IN /1 COMBINATION, ONLY
 *** SPEEDS UP TO 12,500 SFPM BY REQUEST AND SAFETY APPROVAL

For more program details, ask your Norton sales representative to review the First Line VFL ID & Race Wheel Brochure #6981 with you.

Vitrified First Line (VFL) ID and Race Wheel availability encompasses over 1,000 wheel sizes and most abrasive types. These high-performance wheels are made-to-order and shipped within two weeks of receipt of your order.

Additional dimensions and grinding faces are available as made-to-order products with 4-week lead-times.

Vitrified Wheels For Steel Applications

AVAILABILITY

TIER:
 BRAND:
 TRADENAME:
 ABRASIVE:



BEST

Norton
NORTON SG
 Ceramic Alumina



BETTER

Norton
32A
 Aluminum Oxide



GOOD

Norton
38A
 Aluminum Oxide

SIZE (D x T x H)	MAX. RPM	MIN./STD. PKG.	SPEC.	PART #	SPEC.	PART #	MIN./STD. PKG.	SPEC.	PART #
Type 01 Straight									
2 x 1/2 x 3/8	16,235	10/50			32A60-KVBE	66243428214			
3 x 1/4 x 1/2	10,825	10/50			32A60-KVBE	66243528696			
3 x 1/2 x 3/8	10,825	10/50			32A60-KVBE	66243528825	10/50	38A60-JVBE	66243529032
3 x 1/2 x 1/2	10,825	10/50			32A60-KVBE	66243528828			
3 x 1 x 1/2	10,825						1/10	38A60-MVBE	66243529145
	10,825						1/10	38A80-MVBE	66243529146
4 x 1/4 x 1/2	8,120	1/10			32A60-KVBE	66243529532	1/10	38A60-KVBE	66243529777
	8,120						1/10	38A100-IVBE	66243529782
4 x 1/4 x 3/4	8,120	1/10			32A60-KVBE	66243529736			
4 x 1/2 x 1/2	8,120	1/10			32A46-KVBE	66243529845	1/10	38A60-KVBE	66243529947
	8,120						1/10	38A100-KVBE	66243529954
4 x 1/2 x 3/4	8,120	1/10			32A60-KVBE	66243529849	1/10	38A60-KVBE	66243529961
	8,120	1/10			32A80-KVBE	66243529850			
4 x 1 x 1/2	8,120						1/10	38A60-MVBE	66243530126
5 x 1/4 x 1/2	4,970	1/10			32A60-KVBE	66252830572			
6 x 1/8 x 1-1/4	4,140	1/10			32A80-KVBE	66252835361	1/10	38A150-LVBE	66252835506
6 x 1/4 x 1/2	4,140	1/10			32A60-KVBE	66252835784			
6 x 1/4 x 1-1/4	4,140	1/10			32A60-KVBE	66252835786	1/10	38A60-KVBE	66252835803
	4,140						1/10	38A80-KVBE	66252835807
	4,140						1/10	38A150-KV	66252835759
6 x 1/2 x 1/2	4,140	1/10			32A60-KVBE	66252836394	1/10	38A60-KVBE	66252836530
	4,140						1/10	38A80-KVBE	66252836548
6 x 1/2 x 1-1/4	4,140	1/10			32A46-KVBE	66252836380	1/10	38A46-KVBE	66252836520
	4,140	1/10	5SG60-KVS	66252803344	32A60-KVBE	66252836396 B	1/10	38A60-KVBE	66252836533
	4,140	1/10			32A80-JVBE	66252836405	1/10	38A80-KVBE	66252836550
	4,140						1/10	38A120-KVBE	66252836664
6 x 3/4 x 1/2	4,140	1/10			32A60-KVBE	66252837420			
6 x 3/4 x 5/8	4,140						1/10	38A60-KVBE	66252837444
6 x 3/4 x 1-1/4	4,140	1/10			32A60-KVBE	66252837421	1/10	38A60-KVBE	66252837445
6 x 1 x 1-1/4	4,140	1/10			32A60-KVBE	66252837921 B			

B = BEST SELLER; PERFORMS WELL IN A VARIETY OF APPLICATIONS FOR MANY SATISFIED CUSTOMERS S = SINGLE PACK

Vitrified Wheels For Steel Applications

AVAILABILITY



TIER:
BRAND:
TRADENAME:
ABRASIVE:

BEST	BETTER	GOOD
Norton	Norton	Norton
QUANTUM / NORTON SG	32A	38A / GEMINI
Ceramic Alumina	Aluminum Oxide	Aluminum Oxide

SIZE (D x T x H)	MAX. RPM	MIN./STD. PKG.	SPEC.	PART #	SPEC.	PART #	MIN./STD. PKG.	SPEC.	PART #
Type O1 Straight									
7 x 1/8 x 1-1/4	3,275	1/10			32A60-IVBE	66252939112	1/10	38A80-IVBE	66252939219
	3,600						1/10	38A100-KVBE	66252939223
7 x 1/4 x 1-1/4	3,600	1/10	5NQ46-IVS	66253350690	32A46-HVBE	66252939543	1/10	38A46-HVBE	66252939690
	3,600	1/10	5NQ60-JVS	66253293579	32A46-IVBE	66252939544	1/10	38A46-IVBE	66252939691
	3,600	1/10	5SG46-IVS	66252940207 B	32A46-JVBE	66252939545	1/10	38A46-JVBE	66252909755
	3,600	1/10	5SG46-IVS	66253288575 S	32A46-KVBE	66252939862	1/10	38A60-HVBE	66252939695
	3,600	1/10	5SG60-IVS	66252939459 B	32A60-HVBE	66252939547	1/10	38A60-IVBE	66252939696
	3,600	1/10	5SG60-IVS	66253288576 S	32A60-IVBE	66252939548 B	1/10	38A60-JVBE	66252939698
	3,600	1/10	5SG60-JVS	66252939460	32A60-IVBE	66253288569 S	1/10	38A60-KVBE	66252939700
	3,600	1/10	5SG60-KVS	66252939461 B	32A60-JVBE	66252939549 B	1/10	38A60-HVBE	66252939707
	3,600	1/10	5SG60-KVS	66253288577 S	32A60-KVBE	66252939552 B	1/10	38A80-IVBE	66252939808
	3,600	1/10	5SG80-IVS	66252939462	32A60-KVBE	66253288570 S	1/10	38A80-JVBE	66252939809
	3,600	1/10	5SG80-JVS	66252939463	32A80-HVBE	66252939557	1/10	38A80-KVBE	66252939812
	3,600	1/10	5SG80-KVS	66252939464	32A80-IVBE	66252939658 B	1/10	38A100-IVBE	66252939823
	3,600	1/10	5SG100-JVS	66252939467	32A80-IVBE	66253288571 S	1	38A100-IVBE	66253288799 S
	3,600	1/10	5SG100-KVS	66252939468 B	32A80-JVBE	66252939660 B	1/10	38A100-JVBE	66252939826
	3,600	1/10	5SG100-KVS	66253288578 S	32A80-KVBE	66252939662 B	1/10	38A100-KVBE	66252939827
	3,600	1/10			32A80-KVBE	66253288572 S	1/10	38A100-LVBE	66252939830
	3,600	1/10			32A100-IVBE	66252939670 B	1/10	38A120-JVBE	66252939833
	3,600	1/10			32A100-JVBE	66252939672	1/10	38A120-KVBE	66252939834
	3,600	1/10			32A100-IVBE	66253288573 S	1/10	38A150-KVBE	66252939838
	3,600	1/10			32A100-KVBE	66252939673 B	1/10	38A150-LVBE	66252939839
	3,600	1/10			32A100-KVBE	66253288574 S	1/10	38A150-MV	66252939521
	3,600	1/10			32A120-IVBE	66252939680	1/10	38A220-KV	66252939528
	3,600	1/10			32A120-KVBE	66252939682	1/10	38A220-LV	66252939529
	3,600	1/10			32A220-LVBE	66252939689	1/10	38A220-LVBE	66252939847
	3,600	1/10					1/10	38A220-MV	66252939530
	3,600	10/10					10/10	Gemini 60-I	66253246722
	3,600	10/10					10/10	Gemini 60-J	66253246788
	3,600	10/10					10/10	Gemini 60-K	66253246789
3,600	10/10					10/10	Gemini 80-K	66253246792	
7 x 3/8 x 1-1/4	3,600	1/10			32A60-KVBE	66252940276	1/10	38A60-KVBE	66252940294
	3,600	1/10			32A80-KVBE	66252940284	1/10	38A80-IVBE	66252940297
7 x 1/2 x 1-1/4	3,600	1/10	5NQ46-HVS3	66253375053	32A46-FVBEP	66252941203	1/10	25A46-HVP2	66252916219
	3,600	1/10	5NQ46-IVS	69083159103	32A46-GVBE	66252940862	1/10	25A60-HVP2	66252916221
	3,600	1/10	5NQ46-IVS3	66253375052	32A46-GVBEP	66252941204 B	1/10	38A46-GVBE	66252941022
	3,600	1/10	5NQ46-JVS	69083159104	32A46-HVBE	66252940863 B	1/10	38A46-GVBEP	66252941323
	3,600	1/10	5NQ60-GVSP	69083159105	32A46-HVBE	66253288775 S	1/10	38A46-HVBE	66252941023
	3,600	1/10	5NQ60-IVS3	66253375047	32A46-HVBEP	66252941205 B	1	38A46-HVBE	66253288770 S
	3,600	1/10	5NQ60-JVS	69083159106	32A46-IVBE	66252940864 B	1/10	38A46-HVBEP	66252941324
	3,600	1/10	5NQ60-JVS3	66253375046	32A46-IVBE	66253288776 S	1/10	38A46-HVP2	66252916223
	3,600	1/10	3SGP46-GVSP	66252911717	32A46-IVBEP	66252941206	1/10	38A46-IVBE	66252941024
	3,600	1/10	3SGR46-HVP2	66252916211	32A46-JVBE	66252940865 B	1/10	38A46-JVBE	66252941026
	3,600	1/10	3SGR60-HVP2	66252916213	32A46-JVBE	66253288777 S	1	38A46-JVBE	66253288767 S
	3,600	1/10	5SG46-GVSP	66252940522	32A46-KVBE	66252940867 B	1/10	38A46-KVBE	66252941028
	3,600	1/10	5SG46-HVS3	66253375050	32A54-IVBE	66252940873	1/10	38A60-HVBE	66252941035
	3,600	1/10	5SG46-HVSP	66252941130	32A60-GVBEP	66252941313	1/10	38A60-HVBEP	66252941330
	3,600	1/10	5SG46-IVS	66252940193 B	32A60-HVBE	66252940879 B	1/10	38A60-IVBE	66252941036
	3,600	1/10	5SG46-IVS	66253288788 S	32A60-HVBEP	66252941314	1/10	38A60-JVBE	66252941038
	3,600	1/10	5SG46-IVS3	66253375049	32A60-IVBE	66252940880 B	1	38A60-JVBE	66253288766 S
	3,600	1/10	5SG46-IVSP	66252940523	32A60-IVBE	66253288779 S	1/10	38A60-KVBE	66252941041
	3,600	1/10	5SG46-JVS	66252940194 B	32A60-JVBE	66252940882 B	1	38A60-KVBE	66253288769 S
	3,600	1/10	5SG46-JVS	66253288789 S	32A60-JVBEP	66252941316	1/10	38A60-LVBE	66252911677
	3,600	1/10	5SG46-KVS	66252940195	32A60-KVBE	66252940885 B	1/10	38A80-HVBE	66252941047
	3,600	1/10	5SG60-GVSP	66252940524	32A60-KVBE	66253288782 S	1/10	38A80-IVBE	66252941048
	3,600	1/10	5SG60-IVS	66252940196 B	32A60-LVBE	66252940888	1/10	38A80-JVBE	66252941049
	3,600	1/10	5SG60-IVS	66253288791 S	32A80-HVBE	66252940894	1/10	38A80-KVBE	66252941054
	3,600	1/10	5SG60-IVS3	66253375045	32A80-IVBE	66252940895 B	1	38A80-KVBE	66253350641 S
	3,600	1/10	5SG60-IVSP	66252940525	32A80-IVBE	66253288783 S	1/10	38A80-LVBE	66252941056
	3,600	1/10	5SG60-JVS	66252940197 B	32A80-JVBE	66252940897 B	1/10	38A100-IVBE	66252941163
	3,600	1/10	5SG60-JVS	66253288792 S	32A80-KVBE	66252940899 B	1/10	38A100-JVBE	66252941165

B = BEST SELLER; PERFORMS WELL IN A VARIETY OF APPLICATIONS FOR MANY SATISFIED CUSTOMERS S = SINGLE PACK

CONTINUED

Vitrified Wheels For Steel Applications CONTINUED

AVAILABILITY



TIER: **BEST**
 BRAND: Norton
 TRADENAME: **QUANTUM / NORTON SG**
 ABRASIVE: Ceramic Alumina

TIER: **BETTER**
 BRAND: Norton
 TRADENAME: **32A / 48A**
 ABRASIVE: Aluminum Oxide

TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **38A / GEMINI**
 ABRASIVE: Aluminum Oxide

SIZE (D x T x H)	MAX. RPM	MIN./STD. PKG.	SPEC.	PART #	SPEC.	PART #	MIN./STD. PKG.	SPEC.	PART #
Type O1 Straight									
7 x 1/2 x 1-1/4	3,600	1/10	5SG60-JVS3	66253375043	32A80-KVBE	66253288784 S	1/10	38A100-KVBE	66252941168
	3,600	1/10	5SG60-KVS	66252940198	32A80-LVBE	66252940900	1/10	38A120-JVBE	66252941174
	3,600	1/10	5SG60-LVS	66252940199	32A100-IVBE	66252940907	1/10	38A120-KVBE	66252941175
	3,600	1/10	5SG80-IVS	66252940200	32A100-JVBE	66252941008	1/10	38A150-JVBE	66252941179
	3,600	1/10	5SG80-IVSP	66252940527	32A120-LVBE	66252941018 B	1/10	38A150-MV	66252940595
	3,600	1/10	5SG80-JVS	66252940201 B	32A120-LVBE	66253288786 S	1/10	38A220-QV	66252940605
	3,600	1/10	5SG80-JVS	66253288793 S	48A46-HVP2	66252916215 B	10/10	Gemini 46-H	66253246795
	3,600	1/10	5SG80-KVS	66252940202	48A60-HVP2	66252916217 B	10/10	Gemini 46-I	66253246800
	3,600	1/10	5SG80-LVS	66252940203			10/10	Gemini 46-J	66253246802
	3,600	1/10	5SG100-JVS	66252940204			10/10	Gemini 46-K	66253246812
	3,600	1/10	5SG100-KVS	66252940205			10/10	Gemini 60-I	66253246818
	3,600						10/10	Gemini 60-J	66253246820
	3,600						10/10	Gemini 60-K	66253246821
	3,600						10/10	Gemini 80-K	66253246832
3,600						10/10	Gemini 100-K	66253246838	
7 x 5/8 x 1-1/4	3,600	1/10			32A60-IVBE	66252941762			
7 x 3/4 x 1-1/4	3,600	1/10	5SG46-IVS	66252942304	32A46-GVBEP	66252942070	1/10	38A46-HVBE	66252941950
	3,600	1/10	5SG46-KVS	66252942305	32A46-HVBE	66252941930	1/10	38A46-KVBE	66252941954
	3,600	1/10	5SG60-JVS	66252942307	32A46-IVBE	66252941931	1/10	38A60-IVBE	66252942207
	3,600	1/10	5SG60-KVS	66252942308	32A46-KVBE	66252941935	1/10	38A60-KVBE	66252942060
	3,600	1/10			32A60-IVBE	66252941938			
	3,600	1/10			32A60-KVBE	66252941943			
7 x 1 x 1-1/4	3,600	1/10	5SG60-JVS	66252942429	32A80-IVBE	66252941946			
	3,600	1/10	5SG60-KVS	66252942430	32A46-HVBE	66252942513	1/10	38A46-HVBE	66252942534
	3,600	1/10			32A46-JVBE	66252942268			
200mm x 10mm x 31.75mm	3,600	1/10			32A60-IVBE	66252942524			
	3,600	1/10			32A60-KVBE	66252942709			
	3,600	1/10							
8 x 1/4 x 1-1/4	+	1/10	5SG60-KVS	66253043351	32A46-HVBE	66253043412	1/10	38A60-IVBE	66253043431
	+	1/10	5SG80-KVS	66253043353	32A46-IVBE	66253043310	1/10	38A60-JVBE	66253043432
	3,600	1/10			32A46-KVBE	66253043413	1/10	38A60-KVBE	66253010825
	3,600	1/10			32A60-IVBE	66253043416 B	1/10	38A80-IVBE	66253043437
	3,600	1/10			32A60-IVBE	66253288796 S	1/10	38A80-JVBE	66253043439
	3,600	1/10			32A60-JVBE	66253043417	1/10	38A80-KVBE	66253043461
	3,600	1/10			32A60-KVBE	66253043399	1/10	38A100-IVBE	66253043445
	3,600	1/10			32A80-IVBE	66253043421	1/10	38A100-KVBE	66253043447
	3,600	1/10			32A80-KVBE	66253043458 B	1/10	38A120-KVBE	66253043450
	3,600	1/10			32A80-KVBE	66253288797 S	1/10	38A150-KVBE	66253043451
	3,600	1/10			32A80-LVBE	66253043425			
	3,600	1/10			32A100-IVBE	66253043426			
	3,600	1/10			32A100-KVBE	66253043428			
	3,600	1/10			32A60-KVBE	66253043565			

B = BEST SELLER; PERFORMS WELL IN A VARIETY OF APPLICATIONS FOR MANY SATISFIED CUSTOMERS S = SINGLE PACK
 * = FOR FINE GRIT DIAMOND POLYIMIDE WHEELS

TECHtip

8" TYPE O1 AND TYPE O5 VITRIFIED TOOLROOM WHEELS' MAXIMUM OPERATING SPEEDS:

- Stock NorPor VP2 wheels = 3,600 RPMs
- All other 46 grit, J grade and harder = 3,600 RPMs
- All other 54 grit, I grade and harder = 3,600 RPMs
- All other 60 grit and finer, H grade and harder = 3,600 RPMs
- † Exceptions to the rule: speed-tested to 3,600 RPM
- All other specifications = 3,105 RPMs



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

For non-stock toolroom wheels: if you don't see the toolroom wheel you need in our stock listing, call your local authorized Norton distributor to check our made-to-order non-stock availability – including our revolutionary new Quantum and Vitrium³ bond ceramic wheels.

Vitrified Wheels For Steel Applications CONTINUED

AVAILABILITY



TIER: **BEST**
 BRAND: Norton
 TRADENAME: **QUANTUM / NORTON SG**
 ABRASIVE: Ceramic Alumina

TIER: **BETTER**
 BRAND: Norton
 TRADENAME: **32A / 48A**
 ABRASIVE: Aluminum Oxide

TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **38A / 25A / GEMINI / 57A**
 ABRASIVE: Aluminum Oxide

SIZE (D x T x H)	MAX. RPM	MIN./STD. PKG.	SPEC.	PART #	SPEC.	PART #	MIN./STD. PKG.	SPEC.	PART #
Type O1 Straight									
8 x 1/2 x 1-1/4	+	1/10	5NQ46-HVS3	66253387211	32A46-GVBEP	66253043882 B	1/10	25A46-HVP2	66253019354
	3,105	1/10	5NQ46-IVS	69083159107	32A46-HVBE	66253043712 B	1/10	38A46-HVBE	66253043746
	3,105	1/10	5NQ46-IVS3	66253387212	32A46-HVBE	66253288800 S	1	38A46-HVBE	66253350640 S
	+	1/10	5NQ46-JVS	69083159108	32A46-HVBEP	66253043883 B	1/10	38A46-HVBEP	66253043891 †
	3,105	1/10	5NQ60-GVSP	69083159109	32A46-IVBE	66253043713 B	1/10	38A46-IVBE	66253043749
	3,600	1/10	5NQ60-IVS3	66253387214	32A46-JVBE	66253043715 B	1/10	38A46-JVBE	66253043752
	3,600	1/10	5NQ60-JVS	69083159110	32A46-JVBE	66253288801 S	1/10	38A46-KVBE	66253043762
	3,600	1/10	5NQ60-JVS3	66253387213	32A46-KVBE	66253043716 B	1/10	38A60-HVBE	66253043756
	+	1/10	3SGP46-HVSP	66253011505	32A60-FVBEP	66253043886 †	1/10	38A60-IVBE	66253043757
	+	1/10	3SGP46-JVH	66253013796	32A60-GVBEP	66253043887 †	1/10	38A60-JVBE	66253043858
	3,600	1/10	3SGR46-GVP2	66253019345	32A60-HVBE	66253043724	1/10	38A60-KVBE	66253043861
	3,600	1/10	3SGR46-HVP2	66253019346	32A60-HVBEP	66253043888	1/10	38A80-IVBE	66253043866
	3,600	1/10	3SGR60-HVP2	66253019348	32A60-IVBE	66253043725 B	1/10	38A80-JVBE	66253013787
	+	1/10	5SG46-GVSP	66253043649	32A60-IVBE	66253288802 S	1/10	38A80-KVBE	66253043869
	+	1/10	5SG46-HVS3	66253387220	32A60-JVBE	66253043727 B	1/10	38A100-KVBE	66253043877
	+	1/10	5SG46-HVSP	66253043915 †	32A60-KVBE	66253043729 B	10/10	Gemini 46-H	66253246841
	+	1/10	5SG46-IVS	66253044089 B	32A60-KVBE	66253288803 S	10/10	Gemini 46-I	66253246843
	+	1/10	5SG46-IVS	66253288804 S	32A80-HVBE	66253043733	10/10	Gemini 46-J	66253246845
	+	1/10	5SG46-IVS3	66253387221	32A80-IVBE	66253043734	10/10	Gemini 46-K	66253246848
	+	1/10	5SG46-IVSP	66253043650	32A80-JVBE	66253043736	10/10	Gemini 60-J	66253246857
	3,600	1/10	5SG46-JVS	66253044090 B	32A80-KVBE	66253043737			
	3,600	1/10	5SG46-JVS	66253288806 S	32A100-IVBE	66253043740			
	3,600	1/10	5SG46-KVS	66253044091	32A100-KVBE	66253043742			
	3,600	1/10	5SG60-GVSP	66253043651 †	48A46-HVP2	66253019350 B			
	3,600	1/10	5SG60-IVS	66253044092					
	3,600	1/10	5SG60-IVS3	66253387225					
	3,600	1/10	5SG60-IVSP	66253043652					
	3,600	1/10	5SG60-JVS	66253044093 B					
	3,600	1	5SG60-JVS	66253288808 S					
	3,600	1/10	5SG60-JVS3	66253387228					
	3,600	1/10	5SG60-KVS	66253044094					
	3,600	1/10	5SG80-JVS	66253044096					
	3,600	1/10	5SG80-KVS	66253044097					
	3,600	1/10	5SG100-KVS	66253019435					
8 x 3/4 x 1-1/4	3,105	1/10	5NQ46-IVS	69083159111	32A46-GVBEP	66253044195	1/10	38A46-HVBE	66253044175
	+	1/10	5NQ46-JVS	69083159112	32A46-HVBE	66253044159	1/10	38A46-IVBE	66253044177
	+	1/10	5NQ60-GVSP	69083159113	32A46-HVBEP	66253044196 †	1/10	38A46-KVBE	66253044180
	+	1/10	5NQ60-JVS	69083159114	32A46-IVBE	66253044215	1/10	38A60-IVBE	66253044184
	+	1/10	5SG46-IVS	66253044098	32A46-JVBE	66253044161			
	3,600	1/10	3SGP46-JVH	66253013792	32A46-KVBE	66253044165			
	+	1/10	5SG46-JVS	66253044099 B	32A60-GVBEP	66253044198			
	3,600	1/10	5SG60-IVS	66253044101	32A60-HVBE	66253044168			
	3,600	1/10	5SG60-JVS	66253044102	32A60-IVBE	66253044169			
	3,600	1/10	5SG60-KVS	66253044103	32A60-JVBE	66253044171			
	3,600	1/10			32A60-KVBE	66253044173			
	3,600	1/10			32A80-KVBE	66253044064			
8 x 1 x 1-1/4	+	1/10	5SG46-KVS	66253002588	32A46-HVBE	66253044616	1/10	38A46-IVBE	66253044636
	+	1/10	5SG60-GVSP	66253003228†	32A46-IVBE	66253044617	1/10	38A60-IVBE	66253044456
	3,600	1/10	5SG60-IVS	66253002639	32A46-KVBE	66253044622	1/10	57A60-MVBE	66253044270
	3,600	1/10			32A60-IVBE	66253044624			
	3,600	1/10			32A60-KVBE	66253044629			
10 x 1/4 x 3	2,485						1/-	38A80-KVBE	66253149572
10 x 1/2 x 3	2,485	1/-			32A60-JVBE	66253149729	1/-	38A60-KVBE	66253149859
	2,485						1/-	38A80-KVBE	66253149865
10 x 3/4 x 3	2,485	1/-			32A46-IVBE	66253160024	1/-	38A46-JVBE	66253160158
	2,485	1/-			32A60-IVBE	66253160137	1/-	38A60-IVBE	66253160163
	2,485	1/-			32A60-KVBE	66253160143			
10 x 1 x 1-1/4	2,485	1/-			32A60-KVBE	66253160774			
10 x 1 x 2	2,485	1/-			32A46-IVBE	66253160749			

+ † REFER TO THE TECH TIPS ON PREVIOUS PAGE. B = BEST SELLER; PERFORMS WELL IN A VARIETY OF APPLICATIONS FOR MANY SATISFIED CUSTOMERS S = SINGLE WHEEL PACK

Vitrified Wheels For Steel Applications CONTINUED

AVAILABILITY



TIER:
BRAND:
TRADENAME:
ABRASIVE:

BEST	BETTER	GOOD
Norton	Norton	Norton
QUANTUM / NORTON SG	32A / 48A	38A
Ceramic Alumina	Aluminum Oxide	Aluminum Oxide

SIZE (D x T x H)	MAX. RPM	MIN./STD. PKG.	SPEC.	PART #	SPEC.	PART #	MIN./STD. PKG.	SPEC.	PART #	
Type O1 Straight										
10 x 1 x 3	2,485	1/-	5SG46-GVSP	66253160494	32A46-HVBE	66253160747	1/-	38A46-IVBE	66253160889	
	2,485	1/-	5SG46-IVS	66253160400	32A46-IVBE	66253160750	1/-	38A46-JVBE	66253160892	
	2,485	1/-	5SG46-JVS	66253160401	32A46-JVBE	66253160754	1/-	38A60-IVBE	66253160898	
	2,485	1/-	5SG46-KVS	66253160402	32A46-KVBE	66253160758	1/-	38A60-KVBE	66253160900	
	2,485	1/-	5SG60-GVSP	66253160495	32A60-IVBE	66253160769				
	2,485	1/-	5SG60-IVS	66253160403	32A60-KVBE	66253160777				
	2,485	1/-	5SG60-JVS	66253160404	32A80-KVBE	66253160782				
	2,485	1/-	5SG60-KVS	66253160405						
12 x 1/2 x 3	2,070	2/-			32A60-JVBE	66253262134				
	2,070	2/-			32A80-KVBE	66253262110				
12 x 1/2 x 5	2,070	2/-			32A60-KVBE	66253262107				
	2,070	2/-			32A80-KVBE	66253262111				
12 x 3/4 x 3	2,070	1/-	5SG46-IVS	66253262204	32A46-GVBEP	66253262392	1/-	38A46-JVBE	66253262281	
	2,070	1/-			32A46-HVBE	66253262260				
	2,070	1/-			32A46-IVBE	66253262261				
	2,070	1/-			32A60-IVBE	66253262270				
	2,070	1/-			32A60-KVBE	66253262273				
12 x 1 x 1-1/4	2,070	1/-			32A46-KVBE	66253262570				
12 x 1 x 3	•	1/-	3SGR46-HVP2	66253220885	32A46-GVBEP	66253262840	1/-	38A46-HVBE	66253262700	
	2,070	1/-	5SG46-HVSP	66253262488	32A46-HVBE	66253262562	1/-	38A46-IVBE	66253262702	
	2,070	1/-	5SG46-IVS	66253262500	32A46-HVBEP	66253262842	1/-	38A46-JVBE	66253262704	
	2,070	1/-	5SG46-JVS	66253262501	32A46-IVBE	66253262564	1/-	38A60-IVBE	66253262713	
	2,070	1/-	5SG46-KVS	66253262502	32A46-JVBE	66253262567				
	2,070	1/-	5SG60-GVSP	66253262593	32A46-KVBE	66253262572				
	2,070	1/-	5SG60-IVS	66253262503	32A60-HVBE	66253262580				
	2,070	1/-	5SG60-JVS	66253262504	32A60-IVBE	66253262581				
	2,070	1/-	5SG60-KVS	66253262505	32A60-KVBE	66253262689				
	2,070	1/-			32A80-KVBE	66253262532				
	2,710	1/-			48A60-HVP2	66253220891				
	12 x 1 x 5	2,070	1/-	5SG46-GVSP	66253262594	32A46-GVBEP	66253262841	1/-	38A46-IVBE	66253262703
		2,070	1/-	5SG46-IVS	66253262508	32A46-HVBE	66253262563	1/-	38A60-KVBE	66253262719
2,070		1/-	5SG46-JVS	66253262509 B	32A46-IVBE	66253262565				
2,070		1/-	5SG46-KVS	66253262510	32A46-KVBE	66253262573				
2,070		1/-	5SG60-GVSP	66253262595	32A60-HVBE	66253262734				
2,070		1/-	5SG60-IVS	66253262511	32A60-IVBE	66253262582				
2,070		1/-	5SG60-JVS	66253262512	32A60-JVBE	66253262686				
2,070		1/-	5SG60-KVS	66253262513	32A60-KVBE	66253262691 B				
2,070		1/-	5SG80-JVS	66253262515	32A80-JVBE	66253262696				
2,070		1/-			32A80-KVBE	66253262697				
12 x 1-1/4 x 3	2,070	1/-			32A46-IVBE	66253262301				
12 x 1-1/2 x 1-1/4	2,070	1/-			32A46-KVBE	66253263146				
12 x 1-1/2 x 3	2,070	1/-	5SG46-IVS	66253202820	32A46-HVBE	66253263143				
	2,070	1/-			32A46-IVBE	66253263144				
	2,070	1/-			32A60-JVBE	66253263123				
12 x 1-1/2 x 5	2,070	1/-	5NQ46-IVS	69083159115	32A46-GVBEP	66253263192	1/-	38A46-IVBE	66253214987	
	2,070	1/-	5NQ46-JVS	69083159116	32A46-HVBE	66253263128				
	2,070	1/-	5NQ60-GVSP	69083159117	32A46-IVBE	66253263145				
	2,070	1/-	5NQ60-JVS	69083159118	32A46-JVBE	66253263120				
	2,070	1/-	3SGP60-GVSP	66253215030	32A60-HVBE	66253263149				
	2,070	1/-	5SG46-GVSP	66253203453	32A60-KVBE	66253263034				
	2,070	1/-	5SG46-IVS	66253202842						
	2,070	1/-	5SG46-JVS	66253202926						
	2,070	1/-	5SG60-GVSP	66253262596						
12 x 2 x 1-1/4	2,070	1/-			32A46-KVBE	66253263461				
	2,070	1/-			32A46-MVBE	66253263463				
12 x 2 x 3	2,070	1/-			32A46-IVBE	66253263459				
12 x 2 x 5	2,070	1/-			32A46-HVBE	66253263403				
	2,070	1/-			32A46-IVBE	66253262302				
	2,070	1/-			32A60-KVBE	66253263465				

+ † REFER TO THE TECH TIPS AT THE BOTTOM OF PAGE 223 • 12" TYPE O1 WHEEL MAXIMUM RPM: NORPOR WHEELS = 2,710; ALL OTHERS = 2,070
B = BEST SELLER; PERFORMS WELL IN A VARIETY OF APPLICATIONS FOR MANY SATISFIED CUSTOMERS

Vitrified Wheels For Steel Applications CONTINUED

AVAILABILITY



TIER:
BRAND:
TRADENAME:
ABRASIVE:

BEST
Norton
QUANTUM / NORTON SG
Ceramic Alumina

BETTER
Norton
32A
Aluminum Oxide

GOOD
Norton
38A / 57A
Aluminum Oxide

SIZE (D x T x H)	MAX. RPM	MIN./STD. PKG.	SPEC.	PART #	SPEC.	PART #	MIN./STD. PKG.	SPEC.	PART #
Type O1 Straight									
14 x 1/2 x 5	1,800	1/-	5SG80-KVS	66253363814	32A60-KVBE	66253363761			
14 x 3/4 x 5	1,800	1/-			32A60-KVBE	66253363772			
14 x 1 x 3	1,800	1/-	5SG46-IVS	66253363960	32A46-HVBE	66253363912			
	1,800	1/-	5SG46-KVS	66253363961	32A46-IVBE	66253363914			
14 x 1 x 5	1,800	1/-			32A60-IVBE	66253363927			
	1,800	1/-	5SG46-GVSP	66253364108	32A46-GVBEP	66253364074	1/-	38A46-HVBE	66253364043
	1,800	1/-	5SG46-HVSP	66253313990	32A46-HVBE	66253363913	1/-	38A60-IVBE	66253363947
	1,800	1/-	5SG46-IVS	66253363970	32A46-IVBE	66253363915	1/-	38A60-JVBE	66253364051
	1,800	1/-	5SG46-JVS	66253363971	32A46-JVBE	66253363919	1/-	38A60-KVBE	66253364053
	1,800	1/-	5SG60-IVS	66253363974	32A46-KVBE	66253363921	1/-	38A80-KVBE	66253364058
	1,800	1/-	5SG60-IVSP	66253363871	32A60-GVBEP	66253364077	1/-	57A60-KVBE	66253364065
	1,800	1/-	5SG60-JVS	66253363975	32A60-HVBE	66253363926	1/-	57A60-LVBE	66253364066
	1,800	1/-	5SG60-KVS	66253363976	32A60-JVBE	66253363930	1/-	57A80-MVBE	66253364070
	1,800	1/-	5SG80-JVS	66253363979	32A60-KVBE	66253363932			
	1,800	1/-	5SG80-KVS	66253364003	32A60-LVBE	66253364035			
	1,800	1/-			32A80-JVBE	66253364038			
	1,800	1/-			32A80-KVBE	66253364039			
14 x 1 x 8	1,800	1/-			32A60-IVBE	66253363887			
14 x 1-1/2 x 5	1,800	1/-	5NQ46-HVS3	66253387216	32A46-GVBEP	66253364238	1/-	38A46-HVBE	66253313968
	1,800	1/-	5NQ46-IVS3	66253387219	32A46-HVBE	66253364335 B	1/-	38A46-HVBEP	66253313969
	1,800	1/-	5NQ46-IVS	69083159119	32A46-HVBEP	66253364243	1/-	38A46-IVBE	66253364090
	1,800	1/-	5NQ46-JVS	69083159120	32A46-IVBE	66253364336	1/-	38A46-JVBE	66253364240
	1,800	1/-	5NQ60-GVSP	69083159122	32A46-JVBE	66253364337	1/-	38A60-IVBE	66253364247
	1,800	1/-	5NQ60-JVS	69083159124	32A46-KVBE	66253364339			
	1,800	1/-	3SGP46-GVSP	66253306780	32A60-HVBE	66253364340			
	1,800	1/-	3SGP46-HVSP	66253307025	32A60-IVBE	66253364239			
	1,800	1/-	3SGP46-JVH	66253313976	32A60-JVBE	66253364341			
	1,800	1/-	5SG46-GVSP	66253364320	32A60-KVBE	66253364342			
	1,800	1/-	5SG46-HVS3	66253387231	32A80-JVBE	66253364246			
	1,800	1/-	5SG46-HVSP	66253302625					
	1,800	1/-	5SG46-IVS	66253364097					
	1,800	1/-	5SG46-IVS3	66253387234					
	1,800	1/-	5SG46-IVSP	66253302498					
	1,800	1/-	5SG46-JVS	66253364098 B					
	1,800	1/-	5SG60-IVS	66253364100					
	1,800	1/-	5SG60-JVS	66253364101					
	1,800	1/-	5SG60-KVS	66253302160					
	1,800	1/-	5SG80-KVS	66253363815					
14 x 2 x 5	1,800	1/-	5SG60-JVS	66253364414	32A46-IVBE	66253364323			
	1,800	1/-			32A46-JVBE	66253364508			
	1,800	1/-			32A46-KVBE	66253364509			
	1,800	1/-			32A60-KVBE	66253364510			

B = BEST SELLER; PERFORMS WELL IN A VARIETY OF APPLICATIONS FOR MANY SATISFIED CUSTOMERS

DRESSING: SINGLE POINT DRESSING TOOL STARTING RECOMMENDATIONS

WHEEL SIZES	TOOL SHANK DIAMETER	CERAMIC (NQ, NORTON SG, TG, ETC.), 37C & 39C WHEELS		25A, 32A, 38A, 48A, 53A, 57A, 64A, 86A WHEELS	
		PRODUCT NO.	PART #	PRODUCT NO.	PART #
12" to 14"	3/8"	BCSG5M6	66260157009	BC5M6	66260195004
	7/16"	BCSG5M7	66260156907	BC5M7	66260195005

THESE TOOLS ARE A STANDARD RECOMMENDATION; SEE THE "DIAMOND TOOL" SECTION FOR ADDITIONAL TOOLS. SEE THE FLIENEN TOOL SECTION FOR FURIOSO TOOLS, ENGINEERED SPECIFICALLY FOR QUANTUM VITRIFIED WHEEL DRESSING.