

NORTON

SAINT-GOBAIN

NORTON ABRASIVE PRODUCTS FOR WELDING AND METAL FABRICATION

EFFECTIVE | 2011

BONDED ABRASIVE PRODUCTS



COATED ABRASIVE PRODUCTS



NON-WOVEN PRODUCTS



NON-ABRASIVE PRODUCTS



**THE MUSCLE
BEHIND THE MACHINE.™**

www.nortonabrasives.com

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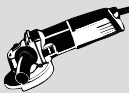



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THE **MUSCLE**
BEHIND THE MACHINE.™

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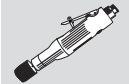

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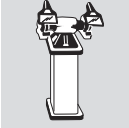
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FLAP DISCS

MACHINES USED **C**



CATEGORY DEFINITION **A**

Flap discs are versatile grinding and finishing tools, consisting of three main components: a backing plate, adhesive, and abrasive cloth flaps. The rectangular flaps are overlapped and glued to the backing plate. Flap discs are designed for right angle grinder applications ranging from heavy stock removal to surface blending.

APPLICATIONS: Grinding, stock removal, edge chamfering/beveling, weld blending, deburring/deflashing, rust removal, blending, cleaning and finishing

SIZE RANGE: 4" - 5/8" hole
4-1/2" - 7"; 5/8"-11 discard mount and 7/8" hole

GRIT RANGE: **B** 24 - 120

ABRASIVE GRAIN: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide

ABRASIVE FLAPS: Polyester or cotton

FLAP DISC SHAPE: Type 27 Flat and Type 29 Conical

ABRASIVE FLAP DENSITY: Standard or high

BACKING PLATE MATERIAL: Fiberglass, plastic or aluminum

FLAP DISC SHAPES



Type 27 Flat – The Best Choice for Finishing

- Used primarily on flat surfaces
- The best choice for blending and smooth finishing

GRIND AT FLATTER ANGLES:
0° - 15°



Type 29 Conical – The Best Choice for Aggressive Stock Removal

- Conical flap discs have angled flaps and may be used on both contoured and edge work
- The angle provides greater surface contact for stock removal on flat surfaces
- The best choice when speed and stock removal are primary considerations

GRIND AT STEEPER ANGLES:
15° - 25°

ABRASIVE FLAP DENSITIES



Standard Density

- Excellent for heavy-duty applications and rapid stock removal



High Density

- Ideal when working on uneven or curved surfaces, as well as finer grit blending

BACKING PLATE MATERIALS

All flap discs are a combination of abrasive flaps adhered to a rigid backing plate. It is the backing plate that provides stability during operation. There are three main materials used: fiberglass, plastic or aluminum. The fiberglass backing plate, along with the flap shape, helps to absorb vibration and is consumed during use with no smearing. Fiberglass is the most popular material because of its high strength and light weight. The plastic backing plate offers some additional conformability and is trimmable. The aluminum backing plate provides extra high strength and rigid support as needed. While not consumable during use, an aluminum plate can be recycled.



WHY CHOOSE FLAP DISCS? **E**

Flap discs replace both grinding wheels and fiber discs. The same flap disc can be used for applications such as:

Flap Discs vs. Grinding Wheels

- Faster stock removal
- Smoother finish, no gouging
- Cooler cutting, less glazing
- Lightweight, easier to control
- Less vibration, less operator fatigue
- Reduced noise

Flap Discs vs. Fiber Discs

- 20X longer life
- Fewer discs
- More control
- No burn-through
- Easier to use
- Reduces dust
- Use in confined spaces

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How Do I Match My End-User Needs?

- F** Application recommendations
- G** Best / Better / Good performance color coding
- H** Full application / grit guide

How Do I Match or Upgrade from a Competitive Product?

- I** Cross reference guide



FLAP DISCS

MACHINE USED **C**

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE **F**

	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
TYPE 29 FOR STOCK REMOVAL			
Stainless Steel / Titanium / Super Alloys	Norton SG Blaze R980P	NorZon BlueFire R884	Merit Metal
Mild Carbon Steel / Welds	Norton TwinFiber	NorZon BlueFire R884	Merit Metal
Ferrous Metals / Cast Iron	Norton TwinFiber	NorZon BlueFire R884	Merit Metal
Brass / Bronze / Aluminum	–	NorZon BlueFire R884	Merit Silicon Carbide
Paint / Glue / Adhesive	–	–	Merit Silicon Carbide
Concrete / Stone / Fiberglass	–	–	Merit Silicon Carbide
TYPE 27 FOR BLENDING AND FINISHING			
Stainless Steel / Titanium / Super Alloys	Norton SG Blaze R920	NorZon BlueFire R884	Merit Metal
Mild Carbon Steel / Welds	Norton TwinStar	NorZon BlueFire R884	Merit Metal
Ferrous Metals / Cast Iron	Norton TwinStar	NorZon BlueFire R884	Merit Metal
Brass / Bronze / Aluminum	–	NorZon BlueFire R884	Merit Metal

APPLICATION/GRIT RECOMMENDATION GUIDE **H**

COARSER (GRINDING) ← GRIT: 24 36 40 50 60 80 100 120 → FINER (FINISHING)

HEAVY STOCK REMOVAL | EDGE CHAMFERING, BEVELING, WELD BLENDING | DEBURRING, DEFLASHING, RUST REMOVAL, BLENDING | CLEANING AND FINISHING

STANDARD DENSITY ← HIGH DENSITY →

CROSS REFERENCE GUIDE **I**

	TOTAL PERFORMANCE		INITIAL PRICE	SPECIALTY
	BEST SG Blaze R980P/R920	TwinFiber / TwinStar	BETTER NorZon BlueFire R884	GOOD Metal / Zirconia Silicon Carbide
NORTON				
MERIT				
3M	947D	747D	5630, 5460	–
DeWalt	–	–	–	Z/A
Camel	–	C3	Z-Stainless	Z3, A3
Flexovit	–	–	Zircotec Premium, Zircotec HP	–
Garryson	–	–	Zirc+, Zirconium	Aluminum Oxide
Gem-Tex	–	Ceramic	–	Zirconia, A/O
Hermes	–	–	–	–
Klingspor	–	–	SMT 630	SMT 618, 619, 624, 626, 627, 628, 640
Metabo	–	–	–	Z/A
Pearl	–	Stainless Max	Zirconia Premium, TuffMax	Z/A Silver Line, Premium A/O Classic, Silver Line
Piersl	–	Ceramic	Cool Zirconia, CO-COOL	Zirconia, Cool Aluminum Oxide, Aluminum Oxide
Salt	–	–	Z	2A, 3A
SIA	–	–	–	Z/A
Standard	–	Ceramic Oxide	Zirconia Pro	Zirconia
Tyrolit	–	–	Z/A	A/O
Walter	–	–	Enduro Flex	–
Weiler	–	Saber Tooth Ceramic	–	Tiger Zirconium, A/O, Vortec





NORZON PLUS

Charger™

Gemini



CATEGORY DEFINITION

Depressed center wheels may also be referred to as raised hub wheels or by their shape designation of "Type", with Type 27 being the most popular. The depressed center design allows the flange/lock nut to recess within the wheel so that it can be used for various grinding and cutting applications. Depressed center wheels are designed to handle the most severe right angle grinding applications from heavy stock removal to rough blending. More recently, depressed center wheels have been designed to increase the utility of the tool for cut-off applications. While large right angle grinders (7" & 9") have been around for many years, small or mini grinders that handle 4", 4-1/2" and 5" wheels have made this machine, and wheel category, the most popular in power tools.

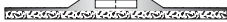
- APPLICATIONS: Grinding, stock removal, edge chamfering, beveling, weld blending, and cutting-off
- SIZE RANGE: 2" – 9"
- THICKNESS RANGE: .040 (1/32) – .250 (1/4")
- GRIT RANGE: 24 – 46 grits for stock removal; 60, 80, 120 grits for blending and finishing
- ABRASIVE GRAIN: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide
- MOUNTING OPTIONS: Plain hole (5/8" and 7/8") and discard mount (3/8-24" and 5/8-11")
- SHAPE: Type 27, Type 28, Type 29

TYPE-TO-APPLICATION RECOMMENDATION GUIDE

WHEEL TYPE/THICKNESS

APPLICATIONS

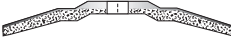
TYPE 27



Type 27 wheels are essentially straight wheels that have a "depressed center/raised hub". Different types of fiberglass reinforcement mesh give the product stability for use on the periphery, on the face, or a combination of the two.

			
	90° ANGLE	30° ANGLE	
.040", .045", .060", and .090" Type 27 RightCut	■		
.090" Type 27 RightCut	■		
.125" Type 27 RightCut	■		
1/8" Type 27	■	■	
5/32" Type 27	■	■	
1/8" Type 27 Flexible	■		
1/8" Type 27 Foundry Notchers	■	■	
1/4" Type 27	■	■	
1/4" Type 27 Foundry Snaggers	■	■	
1/4" Type 27 Heavy-Duty Foundry	■	■	

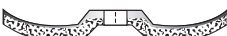
TYPE 28




Type 28 wheels are constructed with a downward angle built into the grinding section to facilitate a flatter grinding angle. These wheels can only be used on the face and never on the periphery for cutting-off.

			
		15° ANGLE	
1/4" Type 28 Saucers		■	

TYPE 29



Type 29 wheels are constructed with an upward angle built into the grinding section to provide full face contact for light stock removal and blending operations. These wheels can only be used on the face and never on the periphery for cutting-off.

			
		15° ANGLE	
1/8" Type 29 Flexible, AVOS		■	



MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
CUTTING			
Mild Carbon / High Tensile Steel	NorZon Plus	Charger Plus	Metal
Stainless Steel / Alloys	NorZon Plus	Charger Plus	Gemini
Contaminate Free		Charger Plus INOX	Gemini INOX
Cast Iron	NorZon Plus	Charger Plus	Gemini
Gray Iron		Charger Foundry	
Aluminum / Bronze / Brass			Gemini Aluminum
Asphalt / Brick / Concrete			Masonry
Fiberglass / Plastic			Masonry
NOTCHING			
Mild Carbon / High Tensile Steel	NorZon Plus	Charger Plus	Metal
Stainless Steel / Alloys	NorZon Plus	Charger Plus	Gemini
Contaminate Free		Charger Plus INOX	Gemini INOX
Cast Iron	NorZon Plus	Charger Plus	Gemini
GRINDING			
Mild Carbon / High Tensile Steel	NorZon Plus	Charger Plus	Metal
Stainless Steel / Alloys	NorZon Plus	Charger Plus	Gemini
Contaminate Free		Charger Plus INOX	Gemini INOX
Cast Iron	NorZon Plus	Charger Plus	Gemini
Gray Iron	NorZon Plus Foundry	Charger Foundry	Gemini
Aluminum / Bronze / Brass			Gemini Aluminum
Asphalt / Brick / Concrete			Masonry
BLENDING			
Mild Carbon / High Tensile Steel		Charger AVOS Flexible	Gemini Flexible
Stainless Steel / Alloys		Charger AVOS Flexible	Gemini Flexible
Aluminum / Bronze / Brass		Charger AVOS Flexible	Gemini Flexible
Fiberglass / Plastic		Charger AVOS Flexible	Gemini Flexible

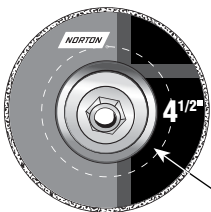
TYPICAL STEEL, STAINLESS STEEL, CAST IRON PRODUCTS: ANGLE IRON, BAR STOCK, DUCTILE PIPE, CHANNEL IRON, DECKING, REBAR, I-BEAMS, RAIL STEEL, STUDS, TUBING, AND WELDS

HOW TO PICK THE RIGHT BOND TYPE

Standard	<i>Unmarked</i>	Where an excellent blend of cut rate and life is needed
Fast Cut	FC	Where fast stock removal is needed, or the application only allows for low-pressure or under-horsepowered grinders
Long Life	LL	Where durability is needed due to severe application, and when horsepower of the grinder allows for heavy pressure
Contaminate Free	INOX	Contain <0.1% iron, sulfur or chlorine for rust-free and corrosion-free results. Will not contaminate stainless steel

HOW TO PICK THE RIGHT MOUNT

Most wheel sizes come with a plain hole or a discard mount option. While the plain hole has a small, initial cost advantage, the discard mount can provide a labor cost advantage with the quicker wheel change.

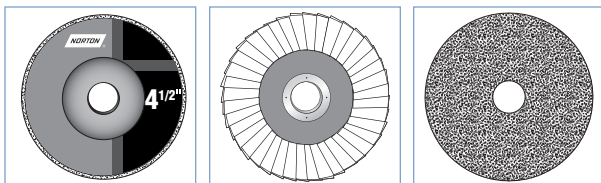


Mini-Mount Hub

Our unique, patented mini-mount hub used on 4-1/2" and 5" depressed center wheels provides up to 30% more wheel life because the hub covers just a small surface area, providing maximum grinding area exposure and usage.

STANDARD THROW-AWAY HUB SIZE

WHY CHOOSE DEPRESSED CENTER WHEELS?



Depressed Center Wheels vs. Flap Discs or Fiber Discs

- Up to 5X life over flap discs, less downtime
- Up to 100X life over fiber discs, less downtime
- Rigidity for severe operations and high power grinders
- 1/8" wheels can be used for cutting and grinding
- Can be used to grind inside corners at outer edge of wheel



CROSS REFERENCE GUIDES

TYPE 27 RIGHTCUT – .040" - .125"

	TOTAL PERFORMANCE			INITIAL PRICE			SPECIALTY
	BEST NorZon Plus	BETTER Charger Plus	GOOD Gemini INOX	Gemini Long Life	Gemini	Metal	GOOD Gemini Aluminum
Brilliant	—	—	—	Brill-Blade Heavy Duty	Brill-Blade Extra FC	Hornet	—
Bullard	—	ZA60T	—	TA46T, TA60T TA60U	SGA60U	A46T, A60T Comp.	AL46N
Camel	—	ZA Quickie Cut	A60-T-BF, WA60R Quickie Cut	Super Quickie Cut	A36-S-BF	—	A46 Quickie Cut
Flexovit	—	—	—	Razorblade A60SST	Razorblade A24T, 30V, 36T	—	—
Pearl	—	Redline Max Slimcut	—	Slimcut	—	Slimcut Pro-V, Silverline	—
Pferd	—	SGP-ZA-Q- INOX	SG-A-R-INOX, SGP-A-S-INOX	SG-A-S, SGP-A-T	—	PSF-A-P	S-G-N-ALU
Sait	Saitech	Z-tech	XA46R	A60S	SAIT.M.X	—	A46N
SpedeCut	—	—	—	—	—	A46, 60 TBXX	—
Walter	—	—	A-60SS-ZIP	A-60-ZIP	A-30-ZIP	—	A-60-ZIP-ALU

TYPE 27 AND 28 – 1/8" AND 1/4"

	TOTAL PERFORMANCE					INITIAL PRICE				SPECIALTY	
	BEST NorZon Plus	NorZon Plus Long Life	BETTER Charger Plus INOX	Charger Plus	Charger Plus Foundry	GOOD Gemini	Gemini Fast Cut	Gemini INOX	Metal	GOOD Gemini Aluminum	Masonry
Brilliant	—	—	Brill-Max Z24R	—	—	Brill-Tex A24UHPXL, A30T	Brill-Tex A24R Super-G	Brill-Tex A30P	Hornet Metal	Brill-Tex A30ALU	Brill-Tex C30P, Hornet Concrete
Bullard	TA24S	—	ZA24R	ZA24R Competitor	—	A24R	A24N	A46Q	A24R Competitor	AL36N	C24R
Camel	—	—	ZA24T	—	—	A24R	Ultra A24-N-BF, A24T Super Quickie Cut	WA24S	A24N, R & T Fast Cut	A30N, Fast Cut	C24R
Flexovit	Flexon ZA20Q	Flexon ZA24P ZA30T	—	Metalhog AXT24S	Flexon ZA16U	High Performance A24/30T	High Performance A30S, Specialist A30Q & R	Free Grind A30Q	—	Specialist A24ALU	High Performance C24/30P
Metabo	—	—	ZA24T	—	—	A24R & T	A24N	A36Q	—	A36M	C24N
Pearl	—	—	Z24T	—	—	Premium Metal A24S, Redline Max A/WA24S	Premium Metal A24R, Redline Max A/WA24R	WA24R, SRT24	Silver Line A24R & S	D.A. Series AL24M	Silver Line C24S
Pferd	—	—	ZA R SGP, Z-SG	ZA S GP, ZA T SGP	—	A-PS, A-SG	—	A-SG INOX, A-PS INOX	—	A-SG ALU	S-SG, Masonry
Sait	Saitech Attacker, Pipeline	Saitech Ultimate Performance	Z24R Z-tech	—	CA24R - Foundry	A24R, A24 Turbo	A24N	XA24Q	—	A46N - Aluminum	C24N
Tyrolit	—	—	ZA24N-BFX	ZA24P-BFX	ZZA24R-BFX	A30S & Q-BFX	A30R-BFX	A30-BF INOX	A30-BF	A36N-BFX WA46-BF	C30-BF
Walter	—	—	Double-X, Allsteel	Allsteel XX	—	HP	—	Stainless	—	Aluminum	Concrete

TYPE 27 – FLEXIBLE 1/8"

	TOTAL PERFORMANCE		INITIAL PRICE
	BETTER Charger Flex	GOOD Gemini Flex	
Brilliant	—	Brill-Flex	
Bullard	—	Flexlite AC	
Camel	—	FGF, Special Wheel	
Flexovit	—	Flexcel	
Metabo	—	Z-Plus	
Pearl	—	Flexible AC	
Pferd	SG-Flex	—	
Sait	—	Challenger II	
Walter	—	Flexcut	



FEATURED PRODUCTS



NORZON PLUS

BEST/HIGHEST PRODUCTIVITY FOR STEEL, STAINLESS STEEL AND ALL OTHER FERROUS METALS

FEATURES

- Combination of patented Norton SG (ceramic alumina) and NorZon (zirconia alumina) with an advanced bond system

BENEFITS

- 50 to 200% better overall performance versus competitive zirconia and ceramic wheels
- Lowest total grinding cost; highest productivity
- Up to 10X the performance of aluminum oxide wheels
- 50% or better cut rate than competitive zirconia wheels
- Easy on the operator and equipment
- Foundry Snagger
- Designed to withstand the most aggressive foundry application



CHARGER PLUS

BETTER CHOICE FOR STEEL, STAINLESS STEEL AND ALL OTHER FERROUS METALS

FEATURES

- High-ratio zirconia alumina blend with aluminum oxide
- Charger Contaminate Free **INOX**
- Charger Foundry
- AVOS Charger Flexible (with aluminum oxide grain)

BENEFITS

- 3 times the life of aluminum oxide wheels
- Ideal for stainless steel and carbon steel applications, efficiently grinds a variety of materials from alloys to gray iron
- Excellent performance to price ratio lowers total grinding costs
- Contain <0.1% iron, sulfur or chlorine for rust-free and corrosion-free result; will not contaminate stainless steel
- Zirconia alumina/silicon carbide abrasive and reinforcement structure designed for aggressive foundry applications
- Patented shape design provides complete vision of the grinding zone, for more efficient grinding, less gouging, and heat-reducing interrupted cuts
- Uniquely-patterned face creates cooler grinding and minimal gouging



GEMINI

GOOD CHOICE FOR STEEL AND FERROUS METALS AS WELL AS SPECIALTY APPLICATIONS IN ALUMINUM AND FOUNDRIES

FEATURES

- Quality aluminum oxide
- Gemini Contaminate Free **INOX**
- Gemini Aluminum

BENEFITS

- Consistent performance at a competitive price
- Contain <0.1% iron, sulfur or chlorine for rust-free and corrosion-free results; will not contaminate stainless steel
- Grind aluminum and soft metals without loading
- Contain no wax or rubber fillers



NORTON METAL/MASONRY

GOOD CHOICE FOR STEEL/FERROUS METAL AND MASONRY APPLICATIONS WITH LOW INITIAL PRICE

FEATURES

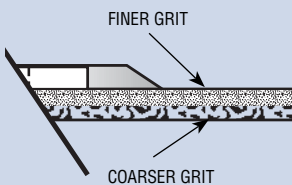
- Competitive initial price point
- Metal – aluminum oxide
- Masonry – sharp silicon carbide

BENEFITS

- Best starting specification for end user unable to measure performance
- Engineered for all steel/ferrous materials
- Engineered for all masonry materials such as concrete, brick and asphalt

Norton Fine, Hard Back Depressed Center Wheels Boost Productivity and Wheel Life

Versus Competitors' Monolithic Design (2 coarse layers)



Our fine, hard back (a finer-grit mixture in the top half of the grinding wheel) limits premature shedding or “spalling” and allows for a smoother grinding action from the periphery to the hub.

- At the proper grinding angle, a sharp bevel is produced at the wheel periphery
- As the wheel wears, this thin edge become susceptible to stress
- A coarse grit back is much more likely to break away prematurely resulting in unnecessary wheel loss and quite possibly an injury to operator and others



AVAILABILITY



TIER:	BEST	BETTER	GOOD	GOOD
TRADENAME:	NORZON PLUS	CHARGER PLUS	GEMINI	NORTON METAL
SHAPE:	Type 27	Type 27	Type 27	Type 27
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
.040, .045, .060, .090, .125 – RIGHTCUT CUT-OFF – TYPE 27						
4 x .045 x 5/8	15,280	20			66252833840	07660705249
4 x .125 x 3/8	15,280	20	66243529883			
4-1/2 x .040 x 5/8-11	13,580	20		66252837013		
4-1/2 x .045 x 5/8-11	13,580	20	66252830748	66252832009	66252819549	
4-1/2 x .045 x 7/8	13,580	20	66252830742	66252830125	66252819548 INOX	66252836497
4-1/2 x .090 x 5/8-11	13,580	20			66252823102	
4-1/2 x .090 x 7/8	13,580	20			66252835320	
		20			66252823103 INOX	
4-1/2 x .125 x 5/8-11	13,580	20	66252815010		66252813301	
4-1/2 x .125 x 7/8	13,580	20	66252830443		66252801860	
5 x .040 x 5/8-11	12,225	20		66252837014		
5 x .045 x 5/8-11	12,225	20			66252830586	
5 x .045 x 7/8	12,225	20	66252830744	66252830126	66252819550	
5 x .090 x 7/8	12,225	20			66252823106 INOX	
		20			66252836984 LL	
5 x .125 x 7/8	12,225	20			66252801862	
6 x .045 x 5/8-11	10,185	20			66252830587	
6 x .045 x 7/8	10,185	20	66252830745	66252830127	66252819551	
6 x .090 x 7/8	10,185	20			66252832487 INOX	
7 x .060 x 7/8	8,600	20			66252912626	07660705251
		10				
7 x .090 x 7/8	8,600	20			66252914638 INOX	
7 x .125 x 5/8-11	8,600	10	66252912625			
7 x .125 x 7/8	8,600	20	66252912624		66252900619	
9 x .060 x 5/8-11	6,600	10			66253019115	

RIGHTCUT WHEELS ARE TO BE USED FOR CUTTING ONLY.

1/8" – PIPE NOTCHING – TYPE 27						
7 x 1/8 x 5/8-11	8,600	10	66252939184			
9 x 1/8 x 5/8-11	6,600	10	66253049066			

PIPE NOTCHERS ARE TO BE USED FOR CUTTING/NOTCHING ONLY.

1/8", 5/32" – CUTTING / NOTCHING / LIGHT GRINDING – TYPE 27						
3 x 1/8 x 3/8	18,000	20	66243528697			
4 x 1/8 x 3/8	15,280	20	66243529884	66243529893	66243529686	
4 x 1/8 x 5/8	15,280	20	66243529885	66243529851	66243530619	
		10				07660775930
4-1/2 x 1/8 x 5/8-11	13,580	20	66252830445	66252829853	66252830435	07660702677
		20		66243578249 INOX		
4-1/2 x 1/8 x 7/8	13,580	20	66252830444	66252829854	66252830609	66252836798
		20		66243578248 INOX		
5 x 1/8 x 5/8-11	12,225	20	66252832398	66252829857		
		20		66243578253 INOX		
		5				07660775915
5 x 1/8 x 7/8	12,225	20	66252830789	66252829858	66252830614	
		20		66243578252 INOX		
		10				07660775916
5 x 5/32 x 7/8	13,580	20			66252835579	
6 x 1/8 x 5/8-11	10,185	10		66243578257 INOX	66252833965	
6 x 1/8 x 7/8	10,185	20		66252809367	66252801864	
		20		66243578256 INOX		
6 x 5/32 x 7/8	10,185	20			66252835580	

CONTINUED

DEPRESSED CENTER DESCRIPTION CODES

INOX = CONTAMINANT FREE	FC = FAST CUT	LL = LONG LIFE	HD = HEAVY DUTY	BLANK = ALL PURPOSE
■ = STAINLESS	■ = STEEL / METAL	■ = FOUNDRY	■ = MASONRY	■ = ALUMINUM



AVAILABILITY



TIER:	BEST	BETTER	GOOD	GOOD
TRADENAME:	NORZON PLUS	CHARGER PLUS	GEMINI	NORTON METAL
SHAPE:	Type 27 and Type 28	Type 27 and Type 28	Type 27 and Type 28	Type 27
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
1/8", 5/32" – CUTTING / NOTCHING / LIGHT GRINDING – TYPE 27						
7 x 1/8 x 5/8-11	8,600	10	66252938855	66252929862	66252939259	07660702678
		10		66243578241 INOX		
7 x 1/8 x 7/8	8,600	20	66252938854	66252929863	66252939207	
		20		66243578240 INOX		07660775956
		5				
7 x 5/32 x 7/8	8,600	20			66252835581	
9 x 1/8 x 5/8-11	6,600	10	66253048897	66253029866		
		10		66243578245 INOX		07660775939
		5				
9 x 1/8 x 7/8	6,600	20	66253048896	66253029867	66253048994	
		20		66243578244 INOX		
1/4" – GRINDING – TYPE 27						
3 x 1/4 x 3/8	18,000	20	66243528809		66243528855	
4 x 1/4 x 3/8	15,280	20	66243529886	66243529899	66243529748	
4 x 1/4 x 5/8	15,280	20	66243529887	66243529852	66243519884 FC	66252836797
		20			66243530620	
		20			66252830575	
4-1/2 x 3/16 x 7/8	13,580	20	66252830446		66252817084 FC	66252819559
4-1/2 x 1/4 x 5/8-11	13,580	20	66252828804	66252829855	66252830432	
		20	66252835576 LL	66243578251 INOX	66252819568 INOX	
		20			66252830612 FC	66252836796
4-1/2 x 1/4 x 7/8	13,580	20	66252828803	66252829856	66252830611	
		20		66243578250 INOX	66252819567 INOX	
		20			66252837010	
5 x 1/4 x 5/8-11	12,225	20	66252828806	66252829859		
		20	66252835577 LL	66243578255 INOX		07660775913
		5				
5 x 1/4 x 7/8	12,225	20	66252828805	66252829861	66252830617 FC	
		20		66243578254 INOX	66252830615	
		20			66252819570 INOX	07660775918
		5				
6 x 1/4 x 5/8-11	10,185	10		66252832391	66252832390	
		10		66243578259 INOX		
6 x 1/4 x 7/8	10,185	20	66252809376	66252809372	66252801865	
		20		66243578258 INOX		
7 x 1/4 x 5/8-11	8,600	10	66252917881	66252929864	66252940147 FC	66252912633
		10	66252835578 LL	66243578243 INOX	66252940148	
7 x 1/4 x 7/8	8,600	20	66252917880	66252929865	66252940099 FC	
		20		66243578242 INOX	66252940098	07660775936
		5				
9 x 1/4 x 5/8-11	6,600	10	66253021634	66253029868	66253049105 FC	07660775938
		10	66252830728 LL	66243578247 INOX	66253049104	
		5				
9 x 1/4 x 7/8	6,600	20	66253021633	66253029869	66253049077 FC	07660775935
		20		66243578246 INOX		
		5				
1/4" – GRINDING – TYPE 28 SAUCER						
7 x 1/4 x 5/8-11	8,600	10	66252905369	66252905367	66252940149	
7 x 1/4 x 7/8	8,600	20	66252905368		66252940095	
9 x 1/4 x 5/8-11	6,600	10	66253006335	66253006334	66253049106	
9 x 1/4 x 7/8	6,600	20			66253049081	

DEPRESSED CENTER DESCRIPTION CODES

INOX = CONTAMINANT FREE	FC = FAST CUT	LL = LONG LIFE	HD = HEAVY DUTY	BLANK = ALL PURPOSE
■ = STAINLESS	■ = STEEL / METAL	■ = FOUNDRY	■ = MASONRY	■ = ALUMINUM



AVAILABILITY



TIER:	BEST	BETTER
TRADENAME:	NORZON PLUS	CHARGER PLUS
SHAPE:	Type 27	Type 27
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Silicon Carbide
MATERIAL:	FOUNDRY	FOUNDRY

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.
1/8", 1/4" – GRINDING / CUTTING – TYPE 27				
4 x 1/4 x 3/8	15,280	20		66243531504
4 x 1/4 x 5/8	15,280	20		66243531502
4-1/2 x 1/8 x 5/8-11	13,580	20		66252824508
4-1/2 x 1/8 x 7/8	13,580	20		66252824504
4-1/2 x 1/4 x 5/8-11	13,580	20		66252824509
4-1/2 x 1/4 x 7/8	13,580	20		66252824505
7 x 1/8 x 5/8-11	8,600	10		66252915529
7 x 1/4 x 5/8-11	8,600	10		66252915528
7 x 1/4 x 7/8	8,600	20		66252915527
9 x 1/8 x 5/8-11	6,600	10		66253018579
9 x 1/8 x 7/8	6,600	20		66253018574
		20		66253018940
9 x 1/4 x 5/8-11	6,600	10	66253007014	66253018580
		10		66253020902 HD
9 x 1/4 x 7/8	6,600	20	66253007013	66253018575
		20	66252832897 HD	66253020901 HD



TIER:	GOOD
TRADENAME:	GEMINI
SHAPE:	Type 27
ABRASIVE:	Aluminum Oxide
MATERIAL:	ALUMINUM

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.
1/8", 1/4" – GRINDING / CUTTING / BLENDING – TYPE 27			
4 x 1/4 x 5/8	15,280	20	66243529741
4-1/2 x 1/8 x 5/8-11	13,580	20	66252819555
4-1/2 x 1/8 x 7/8	13,580	20	66252819554
4-1/2 x 1/4 x 5/8-11	13,580	20	66252830433
4-1/2 x 1/4 x 7/8	13,580	20	66252830627
5 x 1/4 x 7/8	12,225	20	66252823273
7 x 1/4 x 5/8-11	8,600	10	66252940514
		10	66252940515
7 x 1/4 x 7/8	8,600	20	66252940516
9 x 1/4 x 5/8-11	6,600	10	66253049045



TIER:	GOOD
TRADENAME:	NORTON MASONRY
SHAPE:	Type 27
ABRASIVE:	Silicon Carbide
MATERIAL:	MASONRY

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.
1/8", 1/4" – GRINDING / CUTTING – TYPE 27			
4 x 1/8 x 5/8	15,280	10	07660775914
4 x 1/4 x 5/8	15,280	10	07660775912
4-1/2 x 1/8 x 5/8-11	13,580	10	07660775909
4-1/2 x 1/4 x 5/8-11	13,580	5	07660775993
4-1/2 x 1/4 x 7/8	13,580	10	07660775944
5 x 1/8 x 7/8	12,225	10	07660775945
5 x 1/4 x 7/8	12,225	5	07660775902
7 x 1/4 x 5/8-11	8,600	5	07660775942
7 x 1/4 x 7/8	8,600	5	07660775946
9 x 1/4 x 5/8-11	6,600	5	07660775937

DEPRESSED CENTER DESCRIPTION CODES

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■ = STAINLESS	■ = STEEL / METAL	■ = FOUNDRY	■ = MASONRY	■ = ALUMINUM



AVAILABILITY



TIER:	BETTER	BETTER	GOOD
TRADENAME:	AVOS CHARGER FLEXIBLE	CHARGER FLEXIBLE	GEMINI FLEXIBLE
SHAPE:	Type 29	Type 29	Type 27
ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	ALUMINUM STEEL / METAL	ALUMINUM STEEL / METAL	ALUMINUM STEEL / METAL
	PART NO.	PART NO.	PART NO.

SIZE (D X T X H)	MAX. RPM	STD. PKG.	GRIT	PART NO.	PART NO.	PART NO.
1/8" FLEXIBLE – BLENDING – TYPE 29 AND 27						
2 x 1/8 x 3/8	30,560	25	60			66252835632*
		25	80			66252835633*
		25	120			66252835634*
4 x 1/8 x 5/8	13,500	20	36			66243529721#
		20	60			66243529722#
4-1/2 x 1/8 x 5/8-11	13,580	20	36	66252825236	66252833455	
4-1/2 x 1/8 x 7/8	13,580	20	36	66252823473	66252833454	
		20	46	66252823475		
		20	60	66252823474		
		12,000	20	36		
		20	60			66252830425#
5 x 1/8 x 7/8	12,225	20	36	66252823478	66252833456	
7 x 1/8 x 5/8-11	8,600	10	36		66252917052	66252939024
7 x 1/8 x 7/8	8,600	20	36		66252917051	66252939028#

* 5 WHEELS PER DISPLAY PACK; 5 DISPLAY PACKS PER STANDARD PACKAGE.
USE WITH BACK PLATE. TWO BACK PLATES ARE INCLUDED IN EACH BOX OF 20 WHEELS.



Norton Depressed Center Adapter Kit

This reusable adapter kit contains everything you need to mount depressed center wheels and saucers with 7/8" center holes on to a portable right angle or vertical shaft grinders. Adapter hubs are threaded for mounting on to standard 5/8"-11 NCRH spindles.

KIT NO.	WHEEL DIAMETER	WHEEL THICKNESS	PART NO.	STD. PKG.
114	6" thru 9"	1/16" thru 1/4"	07660789275	1

Norton Type 01 & 27 RightCut Line – 4" - 9"

Norton RightCut wheels provide lowest total cost versus competitive initial cutting solutions for right angle grinders. Available in 4" through 9" diameters in Type 01 straight and Type 27 depressed center shapes.



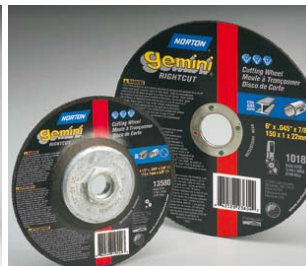
BEST NorZon Plus RightCut

Highest Productivity, Lowest Total Cost
Advanced grain technology – a blend of Norton SG® (seeded gel) ceramic alumina and NorZon zirconia alumina abrasives – in the fastest cutting bond system. Across all grinding jobs, testing shows performance up to 100% better than competitive high-performance wheels and up to 10 times better than aluminum oxide wheels.



BETTER Charger RightCut

Exceptional Blend of Performance and Price
Zirconia alumina and aluminum oxide combination provides up to 2X cut rate and up to 3X longer life over conventional aluminum oxide products on stainless and carbon steel.



GOOD Gemini RightCut

Good Performance, Wide Variety and Good Initial Price
Engineered blend of high-performance aluminum oxide provides the best starting specification on a wide variety of sizes and thicknesses at a good initial price.



GOOD Norton Metal RightCut

Good Performance, Low Initial Price
Popular aluminum oxide starting specification where good performance at a low price is the primary consideration.





NORZON PLUS

Charger

Gemini



CATEGORY DEFINITION

The Norton small diameter cut-off wheel line consists of Type 01 straight and Type 27 depressed center cut-off wheels from 1-1/2" to 9" diameters. These wheels come in ultra thin .035 for quick burn/burr free cutting to .125" for more durable applications. All are reinforced for the demanding nature of portable cut-off.

- APPLICATIONS:** Cutting sheet metal, cutting pipe, and metal plate dimensioning (metal fabrication)
- SIZE RANGE:** 1-1/2" - 9" diameter
- THICKNESS RANGE:** .035, .040, .045, .060, .090, and .125
- ABRASIVE GRAIN:** Ceramic Alumina/Zirconia Alumina, Zirconia Alumina/Aluminum Oxide, Aluminum Oxide, Silicon Carbide
- SHAPE:** Type 01 Straight and Type 27 Depressed Center

TYPE-TO-APPLICATION RECOMMENDATION GUIDE

WHEEL TYPE/THICKNESS	APPLICATIONS		
TYPE 01	Type 1 cut-off wheels are designed for traditional cut-off applications. All are supplied with full fiberglass reinforcing.		
.035, .040, .045, .060	Where fast cutting and low kerf loss are desired	■	■
.090, .125	For tough cutting and notching applications where stability is important	■	■
TYPE 27	Type 27 cut-off wheels are designed with a depressed center to provide a recess for the hub, which allows flush cutting		
.040, .045, .060	Where fast cutting and low kerf loss are desired		■
.090, .125	For tough cutting and notching applications where stability is important		■

HOW TO PICK THE RIGHT BOND TYPE

All Purpose	<i>Unmarked</i>	Where an excellent blend of cut rate and life is needed
Fast Cut	FC	Where fast stock removal is needed, or the application only allows for low-pressure or under-horsepowered grinders
Long Life	LL	Where durability is needed due to severe application, and when horsepower of the grinder allows for heavy pressure
Contaminate Free	INOX	Contain <0.1% iron, sulfur or chlorine for rust-free and corrosion-free results; will not contaminate stainless steel
Aluminum	ALU	Specially formulated bond for reduced loading/surface contamination cutting aluminum/soft materials

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
CUTTING			
Mild Carbon / High Tensile Steel	NorZon Plus	Charger	Metal
Stainless Steel / Alloys	NorZon Plus	Charger	Gemini
Contaminate Free		Charger INOX	Gemini INOX
Cast Iron	NorZon Plus	Charger	Gemini
Aluminum / Bronze / Brass			Gemini ALU
Asphalt / Brick / Concrete			Masonry



CROSS REFERENCE GUIDES

TYPE 01 .035 - .125 CUT-OFF WHEELS FOR DIE GRINDERS

	TOTAL PERFORMANCE			INITIAL PRICE		SPECIALTY	
	BEST NorZon Plus	BETTER Charger	GOOD Gemini Fast Cut	Gemini	Metal	GOOD Gemini INOX	
NORTON							
Brilliant	—	Brill-Max ZA	—	—	Safe-Tex FC, LL	—	
Bullard	—	ZA46T, ZA60T	TA36T	TA46T, TA60T	A36T, A60T Comp.	—	
Camel	—	ZA60-TBF	A36 RBF	A60 RBF	Fast Cut RBF	—	
Flexovit	Flexon Fast Cut A46, 60	—	High Perf Fast Grind A36	High Perf Fast Cut A36, 46, 60	—	—	
Pearl	—	SRT, Zirconia	—	Premium	Silver Line	—	
Pferd	—	—	—	—	PSF-A	SG-A-R-INOX	
Sait	Saittech	—	A60S	A24R, A36T, A60T	—	—	
SpedeCut	—	—	—	—	A46, 60 TBXX	—	
Walter	—	—	A24 ZIP	A60 ZIP	—	—	

TYPE 01 AND 27 .040 - .125 CUT-OFF WHEELS FOR RIGHT ANGLE GRINDERS

	TOTAL PERFORMANCE				INITIAL PRICE			SPECIALTY		
	BEST NorZon Plus Fast Cut	NorZon Plus	BETTER Charger Fast Cut	Charger	GOOD Gemini Fast Cut	Gemini	Metal	GOOD Gemini ALU	Gemini INOX	Masonry
NORTON										
Brilliant	—	—	—	—	Brill-Blade Extra FC	Brill-Blade Heavy Duty	Hornet Stinger	—	—	—
Bullard	—	—	—	ZA60T	SGA60U	TA46T, TA60T, TA60U	A46T, A60T Comp.	AL46N	—	C24R
Camel	—	—	—	ZA Quickie Cut	A36-S-BF	Super Quickie Cut	Quickie Cut	A46 Quickie Cut	A60-T-BF, WA60R Quickie Cut	—
Flexovit	—	—	—	—	Razorblade A60SST	Razorblade A24T, 30V, 36T	—	Razorblade A30Q	—	C30U
Metabo	—	—	—	A 60 XP Super Slicer	—	A 60 TX Slicer-Plus	A 60 TZ Slicer	—	—	—
Pearl	—	—	—	Redline Max Slimcut	—	Slimcut	Slimcut Pro-V, Silverline	—	—	—
Pferd	—	—	—	SGP-ZA-Q-INOX	—	SG-A-S, SGP-A-T	PSF-A-P	S-G-N-ALU	SG-A-R-INOX, SGP-A-S-INOX	SG-C-R
Sait	—	Saittech	—	Z-tech	SAIT.M.X	A60S	—	A46N	XA46R	—
SpedeCut	—	—	—	—	—	—	A46, 60 TBXX	—	—	—
Walter	—	—	—	—	A-30-ZIP	A-60-ZIP	—	A-60-ZIP-ALU	A60-SS-ZIP	C-30-ZIP

FEATURED PRODUCTS



NORZON PLUS CUT-OFF / RIGHTCUT

BEST CHOICE FOR HIGHEST PRODUCTIVITY FOR STEEL, STAINLESS STEEL AND ALL OTHER FERROUS METALS

FEATURES

- Patented Norton SG (ceramic alumina) / NorZon (zirconia alumina) grain combination
- Highly advanced bond system

BENEFITS

- Fastest cutting wheel available on the market, up to 3X faster cutting versus aluminum oxide
- 3X – 10X life versus aluminum oxide wheels on carbon steel, stainless and cast iron



CHARGER CUT-OFF / RIGHTCUT

BETTER CHOICE FOR ALL STEEL AND STAINLESS STEEL APPLICATIONS

FEATURES

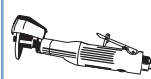
- A unique blend of premium NorZon (zirconia alumina) and aluminum oxide grain

BENEFITS

- 2X – 3X the life of aluminum oxide wheels
- Up to 2X faster cutting versus aluminum oxide wheels

SMALL DIAMETER REINFORCED CUT-OFF WHEELS

MACHINES USED



AVAILABILITY

TIER:
TRADENAME:



SHAPE:
ABRASIVE:

MATERIAL:

SIZE
(D X T X H)

MAX.
RPM

STD.
PKG.

PART NO.

PART NO.

PART NO.

PART NO.

PART NO.

PART NO.

TYPE 01 – CUT-OFF

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
1-1/2 x .035 x 1/16	40,745	25			66243427764				
1-1/2 x .035 x 1/8	40,745	25			66243427831				
1-1/2 x .035 x 1/4	40,745	25			66243427875				
2 x .035 x 1/8	30,560	25					66243411392	FC	
2 x .035 x 1/4	30,560	25			66243428014			66243411393	FC
2 x .035 x 3/8	30,560	25						66243411394	FC
2 x .060 x 1/8	30,560	25			66243428041				
2 x .060 x 1/4	30,560	25			66243427993				
2 x .060 x 1/4	30,560	25						66243411395	FC
2 x .060 x 3/8	30,560	25						66243411396	FC
2 x .125 x 1/4	30,560	25						66243411402	FC
2 x .125 x 3/8	30,560	25						66243411403	FC
2-1/2 x .035 x 1/8	30,560	25			66243528476				
2-1/2 x .035 x 1/4	30,560	25			66243528425				
2-1/2 x .060 x 1/4	30,560	25						66243510640	FC
2-1/2 x .060 x 3/8	30,560	25						66243510641	FC
2-7/8 x .035 x 1/4	25,465	25							07660789019
3 x .035 x 1/4	25,465	25	66243510668		66243528573		66243510627	FC	
3 x .035 x 3/8	25,465	25	66243510669	66243527753	66243528574		66243510628	FC	66243537271 LL 07660789451
3 x .060 x 1/4	25,465	25	66243510670		66243528471		66243510645	FC	66243510649 LL
3 x .060 x 3/8	25,465	25	66243510671	66243527755	66243528552		66243510647	FC	66243510648 LL 07660789012
		25	66243510835	LL					
3 x .125 x 1/4	25,465	25					66243510650	FC	66243510652 LL
3 x .125 x 3/8	25,465	25	66243510673				66243510651	FC	66243510653 LL 07660789384
4 x .035 x 1/4	19,100	25			66243529606		66243510629	FC	
4 x .035 x 3/8	19,100	25	66243510675	66243527340	66243529621		66243510630	FC	66243537273 LL
4 x .035 x 1/2	19,100	25			66243529622				
4 x .035 x 5/8	15,280	25			66243529590				
4 x .035 x 3/4	19,100	25			66243529609				
4 x .040 x 5/8	15,280	25							07660701616
4 x .045 x 5/8	15,280	25					66243527956		
4 x .060 x 1/4	19,100	25	66243510676				66243510654	FC	
4 x .060 x 3/8	19,100	25	66243510677	66243527338	66243529604		66243510655	FC	66243510657 LL
4 x .090 x 5/8	15,280	25					66243527955		
4 x .125 x 1/4	19,100	25					66243510658	FC	
4 x .125 x 3/8	19,100	25	66243510841	66243527339			66243510659	FC	66243510661 LL
		25	66243510680	LL					
5 x .035 x 3/8	12,225	25			66252830653				
6 x .035 x 3/8	10,185	25			66252835064				
6 x .035 x 1/2	10,185	25			66252835053				
6 x .035 x 5/8	10,185	25			66252835054		66252809714		
6 x .040 x 3/8	12,225	25							66252840608
6 x .060 x 5/8	10,185	25					66252809718		
7 x .060 x 5/8	8,730	25					66252905957		
8 x .060 x 5/8	7,640	25			66253017771	LL	66253007025		
		10					66253017795		

Drill Mount Mandrel

5

07660747769*

* FOR MOUNTING 2" AND 3" x 3/8" HOLE CUT-OFF WHEELS ON TO A DRILL

CUT-OFF DESCRIPTION CODES

INOX = CONTAMINANT FREE

FC = FAST CUT

LL = LONG LIFE

BLANK = ALL PURPOSE

■ = STAINLESS

■ = STEEL / METAL

■ = MASONRY



AVAILABILITY

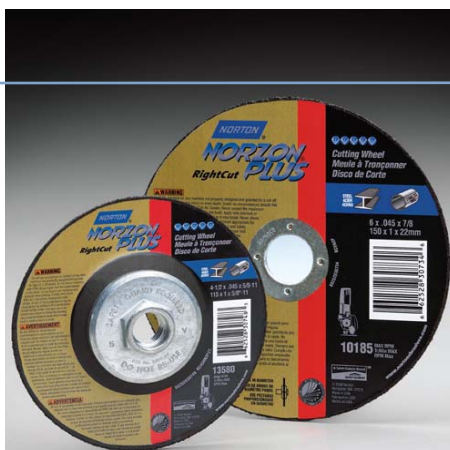


TIER:	BEST	BETTER	GOOD	GOOD
TRADENAME:	NORZON PLUS RIGHTCUT	CHARGER RIGHTCUT	GEMINI RIGHTCUT	NORTON METAL RIGHTCUT
SHAPE:	Type 01	Type 01	Type 01	Type 01
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL
	PART NO.	PART NO.	PART NO.	PART NO.

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
TYPE 01 – RIGHTCUT CUT-OFF						
4 x .040 x 5/8	15,280	25				07660701616
4 x .045 x 5/8	15,280	25			66243527956	
4 x .090 x 5/8	15,280	25			66243527955	
4-1/2 x .040 x 7/8	13,580	25		66252837011		66252840001
4-1/2 x .045 x 7/8	13,580	25	66252830730	66252826569	66252823602	
		25			66252832906	
4-1/2 x .090 x 7/8	13,580	25			66252823599	
5 x .040 x 7/8	12,225	25		66252837012		
		15				07660701618
5 x .045 x 7/8	12,225	25	66252830731	66252826570	66252823603	
		25			66252832907	
5 x .090 x 7/8	12,225	25			66252823600	
6 x .040 x 3/8	12,225	25				66252840608
6 x .040 x 7/8	10,185	25				07660702757
6 x .045 x 7/8	10,185	25	66252830734	66252826571	66252823604	
		25			66252832908	
6 x .090 x 7/8	10,185	25			66252823601	
7 x .060 x 7/8	8,600	25	66252900652		66252832323	07660704732

Norton Type 01 & 27 RightCut Line – 4" - 9"

Norton RightCut wheels provide lowest total cost versus competitive initial cutting solutions for right angle grinders. Available in 4" through 9" diameters in Type 01 straight and Type 27 depressed center shapes.



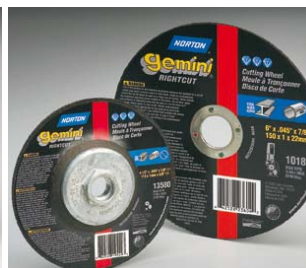
BEST NorZon Plus RightCut

Highest Productivity, Lowest Total Cost
Advanced grain technology – a blend of Norton SG® (seeded gel) ceramic alumina and NorZon zirconia alumina abrasives – in the fastest cutting bond system. Across all grinding jobs, testing shows performance up to 100% better than competitive high-performance wheels and up to 10 times better than aluminum oxide wheels.



BETTER Charger RightCut

Exceptional Blend of Performance and Price
Zirconia alumina and aluminum oxide combination provides up to 2X cut rate and up to 3X longer life over conventional aluminum oxide products on stainless and carbon steel.



GOOD Gemini RightCut

Good Performance, Wide Variety and Good Initial Price
Engineered blend of high-performance aluminum oxide provides the best starting specification on a wide variety of sizes and thicknesses at a good initial price.



GOOD Norton Metal RightCut

Good Performance, Low Initial Price
Popular aluminum oxide starting specification where good performance at a low price is the primary consideration.



AVAILABILITY



TIER:	BEST	BETTER	GOOD	GOOD
TRADENAME:	NORZON PLUS RIGHTCUT	CHARGER PLUS RIGHTCUT	GEMINI RIGHTCUT	NORTON METAL RIGHTCUT
SHAPE:	Type 27	Type 27	Type 27	Type 27
ABRASIVE:	Ceramic Alumina/ Zirconia Alumina	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
MATERIAL:	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
TYPE 27 – RIGHTCUT CUT-OFF						
4 x .045 x 5/8	15,280	20			66252833840	07660705249
4 x .125 x 3/8	15,280	20	66243529883			
4-1/2 x .040 x 5/8-11	13,580	20		66252837013		
4-1/2 x .045 x 5/8-11	13,580	20	66252830748	66252832009	66252819549	
4-1/2 x .045 x 7/8	13,580	20	66252830742	66252830125	66252819548	66252836497
4-1/2 x .090 x 5/8-11	13,580	20			66252823102	INOX
4-1/2 x .090 x 7/8	13,580	20			66252835320	
		20			66252823103	INOX
4-1/2 x .125 x 5/8-11	13,580	20	66252815010		66252813301	
4-1/2 x .125 x 7/8	13,580	20	66252830443		66252801860	
5 x .040 x 5/8-11	12,225	20		66252837014		
5 x .045 x 5/8-11	12,225	20			66252830586	
5 x .045 x 7/8	12,225	20	66252830744	66252830126	66252819550	
5 x .090 x 7/8	12,225	20			66252823106	INOX
		20			66252836984	LL
5 x .125 x 7/8	12,225	20			66252801862	
6 x .045 x 5/8-11	10,185	20			66252830587	
6 x .045 x 7/8	10,185	20	66252830745	66252830127	66252819551	66252840486
6 x .090 x 7/8	10,185	20			66252832487	INOX
7 x .060 x 7/8	8,600	20			66252912626	
		10				07660705251
7 x .090 x 7/8	8,600	20			66252914638	INOX
7 x .125 x 5/8-11	8,600	10	66252912625			
7 x .125 x 7/8	8,600	20			66252900619	
9 x .060 x 5/8-11	6,600	10			66253019115	

RIGHTCUT WHEELS ARE TO BE USED FOR CUTTING ONLY



TIER:	BETTER	GOOD	GOOD	GOOD
TRADENAME:	CHARGER	GEMINI	NORTON METAL	NORTON MASONRY
SHAPE:	Type 01	Type 01	Type 01	Type 01
ABRASIVE:	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide
MATERIAL:	STEEL / METAL	STEEL / METAL	STEEL / METAL	MASONRY

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
TYPE 01 – CIRCULAR SAW						
6 x .035 x 5/8	10,185	25		66252809714		
6 x .060 x 5/8	10,185	25		66252809718		
6-1/2 x 1/8 x DM-5/8	9,405	10			07660789098	07660789089
7 x .060 x 5/8	8,730	25		66252905957		
7 x 1/8 x DM-5/8	8,730	25			07660789097	07660789088
8 x .060 x 5/8	7,640	25	66253017771 LL	66253007025		
		10		66253017795		
8 x 1/8 x DM-5/8	7,640	10			07660789096	07660789086

DM DENOTES DIAMOND MOUNT; 5/8" HOLE BUSHINGS INCLUDED

CUT-OFF DESCRIPTION CODES

INOX = CONTAMINANT FREE	FC = FAST CUT	LL = LONG LIFE	BLANK = ALL PURPOSE
■ = STAINLESS	■ = STEEL / METAL	■ = MASONRY	





CATEGORY DEFINITION

Norton high speed cut-off abrasive wheels provide the industry's leading performance in all high speed gas and electric-powered applications.

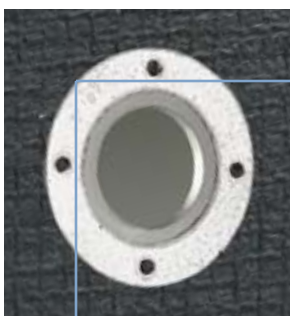
APPLICATIONS:	<p>Metalworking: steel, stainless, ductile, cast iron, rail steel and metal decking</p> <p>Non-Metal Building Materials: concrete, brick, masonry, asphalt, aggregate, stone and schedule 40 and 80 PVC pipe</p> <p>Rescue and Demolition: steel, acrylic, fiberglass, rubber, glass, wood, concrete, brick and asphalt</p>
SIZE RANGE:	12" – 16" diameter
THICKNESS RANGE:	1/8"
ABRASIVE GRAIN:	Aluminum Oxide, Silicon Carbide
SHAPE:	Type 01 Straight
REINFORCEMENT:	Wheels are offered in standard two layer reinforcement as well as three layer reinforcement for higher speed saws and heavy-duty applications
ARBOR:	Wheels are offered with a patent-pending universal arbor that accommodates both 20mm (Stihl®) and all other machines with 1" arbors

MATERIAL / APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

ICON	APPLICATION
	Metal High-performance aluminum oxide grain wheels designed for general purpose cutting of all steel and stainless parts including rebar, steel pipe, structural steel, sheet metal, cable and small to medium diameter solid pieces
	Metal Decking High-performance aluminum oxide abrasive combined with a thicker wheel that stands up to the sharp edges of sheet metal and roof decking.
	Rail Steel NEW A finer grit, harder grade aluminum oxide wheel designed for straight, fast cuts on all sizes of rail track. Additional high-performance lines of rail cut wheels are available for production applications.
	Ductile/Cast Iron A special blend of silicon carbide abrasive for cutting and aluminum oxide abrasive for life, designed to cut ductile and cast iron pipe, concrete-lined water pipes, sewer construction and heavy duty PVC.
	Rescue For ventilation, forcible entry, rescue and demolition. A versatile abrasive formula that can be used on a wide range of materials including all types of metals and masonry
	Concrete Coarse grit silicon carbide abrasive provides a low initial cost solution for cutting brick, block, concrete or other masonry materials. For higher-production applications that require optimum speed of cut and product life, please see our complete selection of high speed diamond wheels in our Norton Construction diamond product line.
	Asphalt A special blend of extra coarse silicon carbide abrasive grains provides a low initial cost solution for cutting asphalt, green concrete, asphalt over concrete, a wide range of aggregates and abrasive materials. For higher-production applications that require optimum speed of cut and product life, please see our Norton Construction diamond product line.

HOW TO PICK THE RIGHT REINFORCEMENT

	Two full layers of reinforcing are offered for lower power machines, and light to medium applications where speed of cut is the primary selection criterion.
	Three full layers of reinforcing are recommended for high speed, high horsepower machines where the application is heavy-duty, and durability is the primary selection criterion.



Universal Arbor

Two Blade Sizes in One

Our Norton patent-pending 1 1/20mm knock-out arbor fits all gas and electric high speed saws. A 20mm bushing is pre-mounted into the 1" molded arbor hole. The wheel, with the 20mm bushing, can be mounted directly on any 20mm arbor high speed saw. With the bushing removed, exposing the 1" arbor hole, the wheel can be mounted on any 1" arbor high speed saw. Combining this arbor, with heavy-duty triple reinforcing results in a higher performing, extra strong, longer lasting cutting wheel. Once the 20mm bushing is removed, it cannot be replaced.



CROSS REFERENCE GUIDE

SPECIALTY



	GOOD Metal	Metal Decking	Rail Steel	Ductile	Concrete	Asphalt
Abmast	A 24 R, Kompetitor Metal	A 24 T	Rail-Kut A 24 Z	AC 24 R, Kompetitor Ductile Iron	C 24 R, Kompetitor Concrete	C 16 T, Kompetitor Asphalt
Brilliant	Metal/Stainless	—	A24PB	—	Concrete/Masonry	—
Bullard Blaze & Road Warrior	A24R, ZA24Q, The Competitor	TA24R	A30R	AC24R	C24R, The Competitor	CC20R
Camel	A24-R	A24-T	—	AC24-R	C24-R	C16-U
Flexovit	A24/30SB	A24TB	A30PB	AC24SB	C30UB	C16UB
Husqvarna	Blue XHS, Blue QMS-CM, Blue EHS	Grey QMS-CM	Yellow QMS-CM	Green QMS-CM, Green EHS	Red XHS, Red QHS-CM, Red EHS	Black QMS-AS
Pearl	SRT, Premium A36S, Silver Line A30R	—	—	AC30S	Premium C36S, Silver Line C24R	—
Pferd	A 24 R SG	A 24 Q SG-RAIL	A 24 Q SG-RAIL	AC 24 Q SG	C 24 R SG	—
Sait	A24R, A30S, XFC	Brute	Hobo	Ductile	C24R	Big M.A.C, XFC
Tyrolit	A30P, A30BF	—	—	AC24, AC30BF	1C24, C30BF	—
Virginia Abrasives	Metal	—	—	Ductile	Concrete	Asphalt
Walter	A-24	—	—	—	—	—

AVAILABILITY



TIER:	GOOD	GOOD	GOOD	GOOD	GOOD
TRADENAME:	METAL HD	METAL	METAL DECKING	RAIL STEEL	RESCUE
SHAPE:	Type 01	Type 01	Type 01	Type 01	Type 01
ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
REINFORCING:	3 layers	2 layers	2 layers	2 layers	2 layers
MATERIAL:					

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
TYPE 01 CUT-OFF – FOR GAS & ELECTRIC-POWERED SAWS							
12 x 1/8 x 1" / 20mm	6,360	10	66252836708	66252837838			
14 x 1/8 x 1" / 20mm	5,400	10	66252835386	66252837841	66252832521		66243578262
14 x 1/8 x 1"	5,400	10				66253260462	
16 x 1/8 x 1" / 20mm	4,800	10		66252830886			
16 x 1/8 x 1"	4,800	10				66253259935	



TIER:	GOOD	GOOD	GOOD	GOOD	GOOD
TRADENAME:	DUCTILE HD	DUCTILE	CONCRETE HD	CONCRETE	ASPHALT
SHAPE:	Type 01	Type 01	Type 01	Type 01	Type 01
ABRASIVE:	Silicon Carbide	Silicon Carbide	Silicon Carbide	Silicon Carbide	Silicon Carbide
REINFORCING:	3 layers	2 layers	3 layers	2 layers	2 layers
MATERIAL:					

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
TYPE 01 CUT-OFF – FOR GAS & ELECTRIC-POWERED SAWS							
12 x 1/8 x 1" / 20mm	6,360	10		66252837840	66252836709	66252837839	70184670243
14 x 1/8 x 1" / 20mm	5,400	10	66252835388	66252837843	66252835387	66252837842	70184672877
16 x 1/8 x 1" / 20mm	4,800	10				70184623029	



CATEGORY DEFINITION

These powerful, self-propelled machines are designed to cut concrete slabs and asphalt and are normally fitted with diamond blades. For inexperienced operators or small jobs, the machines can accommodate low initial cost, conventional abrasives wheels.

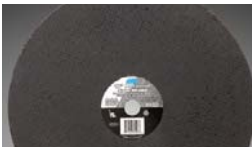


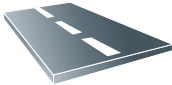
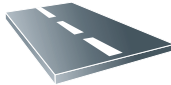
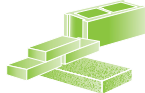
APPLICATIONS:	Cutting straight sections of concrete surfaces
SIZE RANGE:	14" and 18" diameter
THICKNESS RANGE:	3/16" – 3/8"
ABRASIVE GRAIN:	Silicon Carbide
SHAPE:	Type 01 Straight
BOND:	Hot Pressed (HP) – for higher horsepower machine applications where additional durability is needed, may be used wet or dry Cold Pressed (CP) – for lower horsepower machines, which need a free-cutting wheel
ARBOR:	All are 1" with a drive pin



CROSS REFERENCE GUIDE

	SPECIALTY		
	← BETTER	GOOD	GOOD →
NORTON	Norton Asphalt / Green Concrete – HP	Norton Asphalt	Norton Concrete
Abmast	—	C 16 T. Kompetitor Asphalt/Concrete	C 24 R
Bullard Blaze & Road Warrior	—	C16R & T, C16R3	—
Camel	—	C16-U	C24-R
Flexovit	HPC16AG	C16 G.P. C16UB	C20SB/C16TB
Husqvarna	Red GC-7A	Black EWC	Gold RTC, Blue RTC, Blue EWC
Pearl	—	—	Premium C36S, Silver Line C24R
Pferd	—	C 24 R SG ASP	C 24 R SG GP
Sait	Street Runner	C16	C24R, Street Walker
Tyrolit	Concrete/Asphalt CHP	Asphalt CP	Concrete CP
Virginia Abrasives	—	GC/Asphalt	Concrete
Walter	—	—	C-24

AVAILABILITY

	 BETTER	 GOOD	 GOOD
TIER:	BETTER	GOOD	GOOD
TRADENAME:	ASPHALT – HP	ASPHALT – CP	CONCRETE
SHAPE:	Type 01	Type 01	Type 01
ABRASIVE:	Silicon Carbide	Silicon Carbide	Silicon Carbide
BOND:	Hot Pressed	Cold Pressed	Cold Pressed
MATERIAL:			
SIZE (D X T X H)			
MAX. RPM			
STD. PKG.			
PART NO.			
TYPE 01 CUT-OFF – FOR WALK-BEHIND SAWS			
14 x 3/16 x 1 Pin Hole	4,365	10	70184670100
14 x 1/4 x 1 Pin Hole	4,365	5	70184670099
18 x 1/4 x 1 Pin Hole	4,250	5	70184670103
18 x 3/8 x 1 Pin Hole	4,250	5	70184648998



For higher-production applications, that require optimum speed of cut and product life, please see our complete selection of walk-behind diamond blades in our Diamond, Abrasives and Equipment for the Construction Market Catalog #7719 found on www.nortonconstructionproducts.com.



NORZON PLUS

Charger

Gemini



CATEGORY DEFINITION

A chop saw is a light, low horsepower portable machine. Although very similar to a compound miter saw, it is designed for cutting denser materials, like metal bar, tubing or pipe. Chop saw cut-off wheels are designed specifically for this machine with finer grit, softer grades, and reinforcement layers that match the application.

- APPLICATIONS:** Cutting small diameter metal pieces, bar stock, metal pipe, tubing, decking, cable, drywall studs, and metal plate dimensioning
- SIZE RANGE:** 10" - 16" diameter
- THICKNESS RANGE:** 7/64"
- ABRASIVE GRAIN:** Zirconia Alumina/Aluminum Oxide Blend, Aluminum Oxide, Silicon Carbide
- SHAPE:** Type O1 Straight
- REINFORCEMENT TYPE:** Side reinforced, centrally reinforced

CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE ←			INITIAL PRICE →			← SPECIALTY →		
	BETTER			GOOD			GOOD		
NORTON	Charger Fast Cut	Charger Rapid Cut	Charger Long Life	Gemini Fast Cut	Gemini Rapid Cut	Gemini Long Life	Stud Cutter	Gemini Aluminum	Masonry
Brilliant	—	—	—	Super-G	Tube/Pipe	—	Drywall Stud	Aluminum	—
Bullard	ZA36T	—	—	TA36T A46T The Competitor	A36R The Competitor	A36R Ironmaster	A46T Studmaster	AL36R	—
Camel	—	—	ZA24-S	A36-P, WA36-P	—	A36-S	A30-R Mr. Stud	A30-N	—
Dewalt	—	—	XP	GP, Stainless Fabrication	—	—	Stud Cutting	—	—
Flexovit	—	—	—	A30R Fast Cut A30-Q Free Cut	—	A30S Long Life	A30T Drywall Stud	—	—
Makita	—	—	—	—	General Purpose	—	—	—	—
Pearl	SRT36	—	—	A36P Premium	A30P Silver Line	—	A46S Stud Cutting	—	—
Pferd	—	—	—	A 36 K SG CHOP	PSF CHOP	—	A 36 K SG-STUD	—	C 36 K SG-CHOP
Sait	Saitech Steel Worker	Z-tech	—	EZ-Chop	EZ-Chop Attacker	Iron Worker	Stud King	Aluminum	—
Walter	—	—	—	—	A-30	A-30-HC+	—	A30-ALU	—

APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

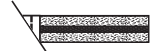
WHEEL TYPE/REINFORCEMENT

TYPE O1 STRAIGHT SIDE REINFORCED CUT-OFF WHEEL



Side reinforced wheels have two full layers of reinforcing and are designed for a fast cut and the most aggressive applications. All Purpose, Fast Cut, and Long Life are side reinforced.

TYPE O1 STRAIGHT CENTRALLY REINFORCED CUT-OFF WHEEL



Centrally reinforced wheels have a single layer of reinforcing with exposed rough sides for free-cutting, non-binding applications where minimal burr and burn are the key requirements. Rapid Cut wheels are centrally reinforced.

HOW TO PICK THE RIGHT BOND TYPE

All Purpose	UNMARKED	Where an excellent blend of cut rate and life is needed
Fast Cut	FC	Used when fast cutting is desired or when cutting pieces with larger cross sections
Long Life	LL	Where durability is needed due to severe application, and when cutting parts with small cross sections
Rapid Cut	RC	Where a free cutting, non-binding wheel is needed for burn-free and burr-free cuts
High-Performance	STUD	High-performance aluminum oxide/resin bond combination designed for cleaner cuts and longer life when cutting steel studs
Aluminum	ALU	Specially formulated bond for reduced loading/surface contamination when cutting aluminum/soft materials



FEATURED PRODUCTS



CHARGER CHOP SAW REINFORCED CUT-OFF WHEELS

BETTER CHOICE FOR STEEL, STAINLESS STEEL AND ALL OTHER FERROUS METALS

FEATURES

- Zirconia alumina/aluminum oxide abrasive blend
- Fast Cut: side reinforced
- Long Life: side reinforced
- Rapid Cut: centrally reinforced, rough sides

BENEFITS

- 2X the life and cut rate of aluminum oxide
- Engineered for larger cross-sections and/or hard-to-cut materials
- Ideal for small cross-section workpieces
- Free cutting, non-binding; burr- and burn-free cuts



GEMINI CHOP SAW REINFORCED CUT-OFF WHEELS

GOOD CHOICE FOR ALL STEEL AND FERROUS METALS AS WELL AS SPECIALTY APPLICATIONS IN ALUMINUM

FEATURES

- Fast Cut: side reinforced
- Long Life: side reinforced
- Rapid Cut: centrally reinforced, rough sides
- Aluminum: specially formulated bond for aluminum and other soft, nonferrous metals; no wax or rubber fillers

BENEFITS

- Engineered for larger cross-sections and/or hard-to-cut materials
- Ideal for small cross-section workpieces
- Free cutting, non-binding; burr- and burn-free cuts
- Free cutting; resist loading
- No surface contamination



METAL STUD CUTTER CHOP SAW REINFORCED CUT-OFF WHEELS

GOOD CHOICE FOR DRYWALL STUDS

FEATURES

- Stud Cutter: thin, side-reinforced; with high-performance aluminum oxide abrasive

BENEFITS

- Designed specifically for cutting steel studs

AVAILABILITY



TIER:	BETTER	BETTER	GOOD	GOOD	GOOD	GOOD
TRADENAME:	CHARGER	CHARGER	GEMINI	GEMINI	METAL	MASONRY
SHAPE:	Type 01	Type 01	Type 01	Type 01	Type 01	Type 01
ABRASIVE:	Zirconia Alumina/ Aluminum Oxide	Zirconia Alumina/ Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide
REINFORCEMENT:	Side	Central	Side	Central	Side	Side
MATERIAL:	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	MASONRY

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
TYPE 01 STRAIGHT CUT-OFF								
10 x 7/64 x 1	6,110	10			66253106109	LL		
12 x 7/64 x 1	5,095	10	66253207552		66253207554	LL	66253214561	RC
14 x 7/64 x 1	4,365	10	66253306624	FC	66253309614	RC	66253306627	FC
			66253306625	LL		66253306626	LL	
						66253314816	ALU	
							07660789405	STUD
							07660703970	
								07660789402
16 x 7/64 x 1	3,820	10	66253410196	FC			66253410198	LL
			66253410197	LL				

DEPRESSED CENTER DESCRIPTION CODES

FC = FAST CUT	LL = LONG LIFE	RC = RAPID CUT	ALU = ALUMINUM	STUD = STUD CUTTER
■ = STAINLESS	■ = STEEL / METAL	■ = MASONRY		



CATEGORY DEFINITION

The Norton stationary saw reinforced cut-off wheel line consists of Type 01 straight 10" - 24" wheels, designed to fit on fixed-base stationary saws that are free-standing or mounted on a workbench.

APPLICATIONS:	Primary applications are cutting of all metal parts (flat stock, bars, studs, pipes, tubes, angle iron, cable), wire rope and hydraulic hose used in fabrication, construction and plant maintenance.
SIZE RANGE:	10" – 24" diameter
THICKNESS RANGE:	3/32", 1/8", 5/32", 3/16"
ABRASIVE GRAIN:	Zirconia Alumina/Aluminium Oxide Blend, Aluminum Oxide, Silicon Carbide
SHAPE:	Type 01 Straight

CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE				INITIAL PRICE	SPECIALTY
	BETTER	GOOD				GOOD
<i>NORTON</i>	Charger	Gemini Fast Cut	Gemini Long Life	Gemini Rapid Cut*	Norton Masonry	Foundry Cut**
Abmast	Z 24 R3	A 30 R	—	—	—	AC 24 R3
Brilliant	—	GP Fast Cut	GPX Long Life	XL , XLX	—	—
Bullard	—	A30-R	A30-T	A300	C20R	—
Camel	ZA24-R	A24-R, A46-T	—	—	C24-R	WA24-S
Flexovit	—	A30RB Multi Purpose	A30SB Long Life, A24TB Long Life	—	C24RB	AC24PB Heavy Duty
Metabo	—	A30N, A30R	A30S, A30V	—	C30S	—
Pearl	SRT36	A30P Premium, A30Q Silver Line	A30S Premium, A36R Premium	—	C24 Silver Line	—
Pferd	ZA 24 Q/R SG-HD	A 24 N/P SG-HD	A 24 Q/S SG-HD	—	C 24 0 SG	—
Sait	—	A24N, A36R	A24R	—	C24R	—
Tyrolit	—	A30BF	—	—	C30BF	—
Walter	—	A-24-FC	A-24-RIP	—	—	—

* FOR BURR-FREE APPLICATIONS, PLEASE REFER TO GEMINI RAPID CUT WHEELS IN CHOP SAW CUT-OFF WHEEL SECTION OR AT WWW.NORTONABRASIVES.COM
 ** FOR FOUNDRY AND OTHER PRODUCTION CUT-OFF WHEELS, PLEASE REFER TO THAT SECTION OF THE NORTON FULL LINE CATALOG #7362 OR AT WWW.NORTONABRASIVES.COM

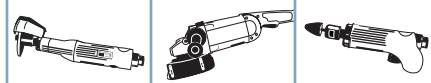
AVAILABILITY

TIER:	BETTER	GOOD	GOOD	GOOD
TRADENAME:	CHARGER	GEMINI FAST CUT	GEMINI LONG LIFE	MASONRY
SHAPE:	Type 01	Type 01	Type 01	Type 01
ABRASIVE:	Zirconia Alumina/Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide
MATERIAL:	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	STAINLESS STEEL / METAL	MASONRY

SIZE (D X T X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
TYPE 01 STRAIGHT CUT-OFF						
10 x 3/32 x 5/8	6,110	10	66253106108	66253106101	66253106102	07660789391
12 x 1/8 x 1	5,095	10	66253207550	66253207547	66253207548	07660789350
14 x 1/8 x 1	4,365	10	66253306623	66253306609	66253306611	07660789353
16 x 1/8 x 1	3,820	10		66253422942		70184623029
16 x 5/32 x 1	3,820	10	66253410194	66253410183	66253410184	
18 x 5/32 x 1	3,015	10		66253410185		
20 x 5/32 x 1	2,710	5	69078609045 FC	69078609031	69078609032	
		5	69078609046 LL			
20 x 3/16 x 1	2,710	5		69078609033	69078609034	
24 x 3/16 x 1-3/4	2,260	5		61463650196		

DEPRESSED CENTER DESCRIPTION CODES

FC = FAST CUT	LL = LONG LIFE	BLANK = ALL PURPOSE
■ = STAINLESS	■ = STEEL / METAL	■ = MASONRY



CATEGORY DEFINITION

For consistent, quality performance in foundries, welding shops, fabrication facilities, steel mills and shipyards, Norton snagging wheels maximize your productivity. Used on horizontal/straight shaft grinders or right angle cup portable grinders.

APPLICATIONS: Removing flaws, cracks, gates, risers and parting lines, smoothing weld seams, cleaning castings, and rough beveling

SIZE RANGE: Type 01 Straight Wheels: 2-1/2" – 8" diameter
Type 06 and 11 Cup Wheels: 4" – 6" diameter
Cones and Plugs: Type 16, 17, 17R, 18 and 18R

GRIT RANGE: 14 – 24

ABRASIVE TYPES: Zirconia Alumina NZ, Zirconia Alumina/Aluminum Oxide Blend AZ, Zirconia Alumina/Silicon Carbide Blend AZC, Aluminum Oxide 57A, Aluminum Oxide/Silicon Carbide Blend 57AC, Silicon Carbide 37C



MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

		BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
Iron	Gray	NorZon NZ14-R	Charger AZ14-R	Gemini 57A16-Q
	Ductile/Malleable	NorZon NZ14-R	Charger AZ14-R	Gemini 57A16-Q
	Dirty/Scale-covered		Charger AZC16-Q	Gemini 57AC16-Q
Steel	Carbon and Low Alloy	NorZon NZ16-Q	Charger AZ16-Q	Gemini 57A16-Q
	Stainless and High Alloy	NorZon NZ16-P	Charger AZ16-Q	Gemini 57A16-Q
Aluminum, Copper, Brass, & Bronze Alloys			Charger AZC16-Q	Gemini 57AC16-Q

NOTE: GRADE, GRIT AND ABRASIVE TUNING MAY BE NECESSARY TO OBTAIN OPTIMUM PERFORMANCE

CROSS REFERENCE GUIDE FOR TYPE 01, 06 AND 11

	TOTAL PERFORMANCE ←			INITIAL PRICE →		
	BEST NorZon NZ	BETTER Charger AZ	BETTER Charger AZC	GOOD Gemini 57A	GOOD Gemini 57AC	GOOD Gemini 37C
Brilliant	—	ZA16QB	—	A16QB	—	C16QB
Bullard	—	ZA16PB	—	A16R	AC16	C16P
Camel	—	—	—	A	CA	C
Flexovit	ZA16PB	—	—	A16QB	AC16QB	C16PB
Gulf States	Zirconium	—	—	A16	—	C16
Pacific	Z, Z-GPC	—	—	A	CA	—
Pearl	—	—	—	A16Q	—	C16-Q
Pferd	ZA 16 Q SG	—	—	A 16 Q SG	—	C 16 Q SG
Sait	—	Z16	—	A16, 20	CA16	C16
Tyrolit	—	—	—	A16PB	—	C16PB
Walter	—	—	—	A	—	C

FEATURED PRODUCTS



NORZON PLUS WHEELS, CONES AND PLUGS

BEST CHOICE FOR HEAVY-DUTY STOCK REMOVAL ON HIGH HORSEPOWER GRINDERS

FEATURES

- NZ (NorZon) – premium zirconia alumina grain

BENEFITS

- Engineered for high-powered machines
- 10X life, 50% faster grinding versus aluminum oxide



CHARGER SNAGGING WHEELS, CONES AND PLUGS

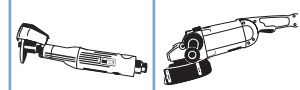
BETTER CHOICE FOR STOCK REMOVAL WITH MEDIUM TO LOW HORSEPOWER GRINDERS

FEATURES

- AZ – zirconia alumina/aluminum oxide blend
- AZC – zirconia alumina/silicon carbide blend

BENEFITS





- Fast, smooth grinding
- Up to 5X the life of aluminum oxide with better grinding action
- Use on dirty, scale-covered castings



AVAILABILITY

TIER:
BRAND:
TRADENAME:
ABRASIVE:

		
BEST	BETTER	GOOD
Norton	Norton	Norton
NORZON PLUS	CHARGER	GEMINI
Zirconia Alumina	Zirconia Alumina/Aluminum Oxide AZ Zirconia Alumina/Silicon Carbide AZC	Aluminum Oxide 57A Silicon Carbide 37C Aluminum Oxide/Silicon Carbide 57AC

SIZE (D X T X H)	MAX. RPM	STD. PKG.	SPEC	PART NO.	SPEC	PART NO.	SPEC	PART NO.
TYPE 01 STRAIGHT 								
2-1/2 x 1/2 x 3/8	21,700	10					57A24-R	66243522381
3 x 1/4 x 3/8	20,370	10			AZ20-T	66243509999	57A24-T	66243528831
3 x 3/8 x 3/8	18,080	10					57A24-R	66243522415
3 x 1/2 x 3/8	18,080	10					57A24-P	66243522417
4 x 1/4 x 3/8	15,280	10			AZ20-T	66243510000	57A24-R	66243522221
6 x 1 x 5/8	8,000	5	NZ14-Q	66252838075	AZ14-R	66252809564*	57A16-QS	66252809563*
S Webs			NZ14-R	66252837961	AZC16-Q	66252837965		
8 x 3/4 x 5/8	6,000	10			AZ14-R	66253006674		
S Webs								
8 x 1 x 5/8	6,000	5	NZ16-O	66253030778	AZ14-R	66253006672*		
S Webs			NZ16-Q	66253044532	AZ14-T	66253006673*		
		10			AZC14-Q	66253030782		
					AZ16-Q	66253006670		
					AZC16-Q	66253006671		
TYPE 06 STRAIGHT CUP 								
6 x 2 x 5/8-11	6,000	5	NZ16-R	66252838577				
Rim 2" Back 3/4"								
TYPE 11 FLARING CUP 								
4/3 x 2 x 5/8-11	9,070	10	NZ16-Q	66243530761	AZ16-Q	66243509998	57A16-Q	66243510512
Rim 3/4" Back 3/4"								
5/3-3/4 x 2 x 5/8-11	7,260	10			AZ16-Q	66252809208	57A16-Q	66252809598
Rim 1" Back 3/4"								
6/4-3/4 x 2 x 5/8-11	6,000	5	NZ16-Q	66252838568	AZ16-P	66252825197	57A16-Q	66252825201
Rim 1" Back 3/4"			NZ16-R	66252838566				
6/4-3/4 x 2 x 5/8-11	6,000	5	NZ16-P	66252830765	AZ14-R	66252809211	37C16-P	66252809609
Rim 1-1/2" Back 3/4"					AZ16-Q	66252809209	57A16-Q	66252809618
					AZC16-Q	66252809210	57AC16-Q	66252809608
TYPE 11 FLARING CUP WITH STEEL BACK 								
4/3 x 2 x 5/8-11	9,070	10			AZ16-Q	66243527807		
Rim 3/4" Back 3/4"								
5/3-13/16 x 2 x 5/8-11	7,260	10			AZ16-Q	66252823518		
Rim 1" Back 3/4"								
6/4-13/16 x 2 x 5/8-11	6,000	5			AZ14-R	66252809213	57A16-Q	66252809599
Rim 1-1/2" Back 3/4"					AZ16-Q	66252809212	57AC16-Q	66252809600
					AZC16-Q	66252825195		

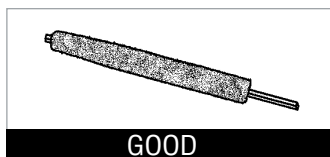
*STD. PKG. = 10



AVAILABILITY

BEST	BETTER	GOOD
Norton	Norton	Norton
NORZON PLUS	CHARGER	GEMINI
Zirconia Alumina	Zirconia Alumina/Aluminum Oxide Blend	Aluminum Oxide

SIZE (D X T X H)	MAX. RPM	STD. PKG.	SPEC	PART NO.	SPEC	PART NO.	SPEC	PART NO.
TYPE 16 CONES								
1 x 3 x 3/8-24 (ME 107019)	36,290	10					57A24-R	61463622342
1-1/2 x 2-1/2 x 3/8-24 (ME 44436)	24,190	10					57A24-R	61463622349
1-1/2 x 3 x 3/8-24 (ME 139029)	24,190	10			AZ24-R	61463614587		
1-1/2 x 3 x 5/8-11 (ME 70535)	24,190	10	NZ20-R	61463644231	AZ20-R	61463614588	57A24-R	61463622190
1-3/4 x 3 x 3/8-24 (ME49226)	20,735	10					57A24-R	61463614503
1-3/4 x 3 x 5/8-11 (ME 33432)	20,740	10					57A24-R	61463622195
2 x 3 x 5/8-11 (ME 28229)	18,145	10	NZ20-R	61463644232	AZ20-R	61463614604	57A24-R	61463622218
2-3/4 x 3-1/2 x 5/8-11 (ME 18265)	13,195	10			AZ16-R	61463614599	57A24-R	61463622387
TYPE 17 CONES, SQUARE TIP								
1-1/2 / 1/2 x 3 x 3/8-24	24,190	10					57A24-R	61463622194
2 / 1/2 x 3 x 5/8-11	18,145	10					57A24-R	61463615722
TYPE 17R CONES, ROUND TIP								
2 / 3/4 x 3 x 5/8-11 (ME 151373)	18,145	10			AZ20-R	61463615866		
TYPE 18 PLUGS, SQUARE TIP								
1-1/2 x 2-1/2 x 3/8-24	24,190	10					57A24-R	61463622217
1-1/2 x 2-1/2 x 5/8-11	24,190	10	NZ20-R	61463644224	AZ20-R	61463644256	57A24-R	61463622351
1-1/2 x 3 x 5/8-11	24,190	10			AZ20-R	61463644257	57A24-R	61463622191
2 x 3 x 5/8-11	18,145	10	NZ20-R	61463644234	AZ20-R	61463614601	57A24-R	61463622219
					AZ24-R	61463614595		
2 x 4 x 5/8-11	18,145	10					57A24-R	61463622366
TYPE 18R PLUGS, ROUND TIP								
1-1/2 x 3 x 3/8-24	24,190	10					57A24-R	61463622192
2 x 3 x 5/8-11	18,145	10			AZ20-R	61463644259	57A24-R	61463622220



TIER: **GOOD**
 BRAND: Norton
 ABRASIVE: Silicon Carbide

SIZE (T X W X L)	STD. PKG.	SPEC.	PART NO.
STOCK RESINOID CORE FILES – SILICON CARBIDE			
1/2 x 1 x 10	5	37C24-SB	61463610314

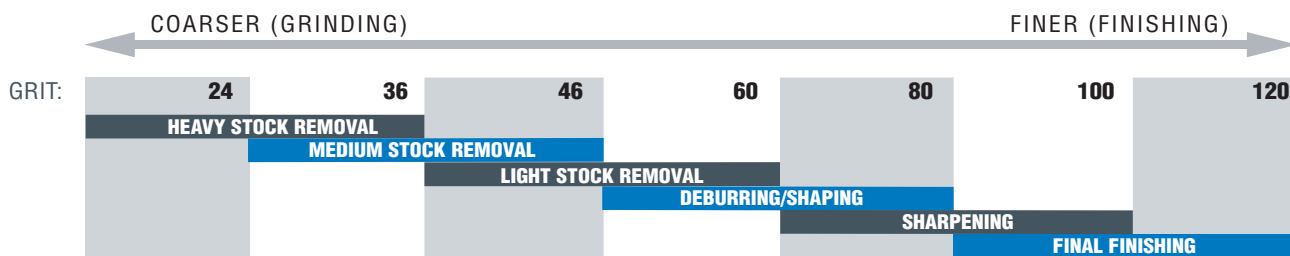


CATEGORY DEFINITION

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

- APPLICATIONS: Offhand deburring and sharpening of parts and tools
- SIZE RANGE: 5" – 12"
- GRIT RANGE: 24 – 150
- ABRASIVE TYPES: Aluminum Oxide (Alundum), Silicon Carbide (Crystolon)
- BUSHINGS: Telescopic arbor bushings to fit all popular grinders are packaged with the wheel

APPLICATION/GRIT RECOMMENDATION GUIDE



FEATURED PRODUCTS



PREMIUM WHITE ALUMINUM OXIDE

BETTER CHOICE FOR LIGHT METAL REMOVAL AND SHARPENING OF HIGH-SPEED TOOL STEELS (55 RC AND HIGHER)

FEATURES

- White aluminum oxide in a premium vitrified bond

BENEFITS

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



GEMINI ALUMINUM OXIDE

GOOD CHOICE FOR ALL GENERAL-PURPOSE BENCH AND PEDESTAL APPLICATIONS ON METAL

FEATURES

- Quality, gray aluminum oxide

BENEFITS

- Economical prices; ideal for small job shops and numerous general-purpose applications



GEMINI SILICON CARBIDE

GOOD CHOICE FOR ALL GENERAL-PURPOSE BENCH AND PEDESTAL APPLICATIONS ON NONFERROUS MATERIALS AND CARBIDE TOOLING

FEATURES

- Sharp, green silicon carbide

BENEFITS

- Economical prices; ideal for small job shops and numerous general-purpose applications



AVAILABILITY

TIER:
BRAND:
TRADENAME:
ABRASIVE:



Norton

PREMIUM ALUNDUM

White Aluminum Oxide



Norton

GEMINI ALUNDUM

Gray Aluminum Oxide



Norton

GEMINI CRYSTOLON

Green Silicon Carbide

SIZE (D X T X H)	MAX. RPM	MIN./STD. PKG.	SPEC.	PART NO.	SPEC.	PART NO.	SPEC.	PART NO.
5 x 1/2 x 1	4,965	1/5			Medium 60/80 Fine 100/120	07660788202 07660788201		
5 x 3/4 x 1	4,965	1/5			Coarse 36/46 Medium 60/80 Fine 100/120	07660788215 07660788210 07660788205		
5 x 1 x 1	4,965	1/5			Coarse 36/36 Medium 60/80	07660788230 07660788225		
6 x 1/2 x 1	4,140	1/5			Coarse 36/46 Medium 60/80 Fine 100/120	66252836132 66252836131 66252836133	Medium 60 Fine 80 Extra Fine 120	66252836571 66252836572 66252836573
6 x 3/4 x 1	4,140	1/5	Medium 60 Fine 100 Very Fine 150	07660788246 07660788247 07660788248	Coarse 36/46 Medium 60/80 Fine 100/120	07660788245 07660788240 07660788235	Medium 60 Fine 80 Extra Fine 120	66252837190 66252837191 66252837192
6 x 1 x 1	4,140	1/5	Medium 60 Fine 100 Very Fine 150	07660788261 07660788262 07660788263	Coarse 36/46 Medium 60/80 Fine 100/120	07660788260 07660788255 07660788250	Medium 60 Fine 80 Extra Fine 120	66252837187 66252837193 66252837194
7 x 1 x 1	3,600	1/5			Coarse 36/46 Medium 60/80 Fine 100/120	07660788275 07660788270 07660788265	Medium 60 Fine 80 Extra Fine 120	66252942300 66252942301 66252942302
8 x 3/4 x 1	3,600	1/5			Coarse 36/46 Medium 60/80 Fine 100/120	07660788278 07660788277 66253042317		
8 x 1 x 1	3,600	1/5	Medium 60 Fine 100 Very Fine 150	07660788281 07660788282 07660788283	Very Coarse 24 Coarse 36/46 Medium 60/80 Fine 100/120	66253044454 07660788286 07660788285 07660788280	Medium 60 Fine 80 Extra Fine 120	66253044087 66253044534 66253044535
10 x 1 x 1-1/4	2,485	1/2			Very Coarse 24 Coarse 36/46 Medium 60/80 Fine 100/120	66253160788 07660788295 07660788290 66253160350	Medium 60 Fine 80	66253144536 66253160366
10 x 1-1/4 x 1-1/4	2,485	1/2			Coarse 36/46 Medium 60/80	66253161250 66253161251		
10 x 1-1/2 x 1-1/4	2,485	1/2			Coarse 36/46 Medium 60/80	66253161393 66253161395		
12 x 1-1/2 x 1-1/2	2,070	1/2			Coarse 36/46 Medium 60/80	66253263052 66253263053		
12 x 2 x 1-1/4	2,070	1/2					Medium 60 Fine 80	66253263359 66253263360
12 x 2 x 1-1/2	2,070	1/2			Very Coarse 24 Coarse 36/46 Medium 60/80	66253263054 66253263055 66253263056		

Bench and Pedestal Wheel Arbor Bushings

WHEEL DIAMETER	WHEEL CENTER HOLE	1/2"	5/8"	3/4"	7/8"	1"	1-1/4"
5", 6", 7"	1"	•	•	•	•		
8"	1"		•	•	•		
10"	1-1/4"			•	•	•	
12" x 2"	1-1/4"					•	
12"	1-1/2"					•	•

THESE SIZE BUSHINGS SHIPPED FREE OF CHARGE WITH YOUR WHEEL ORDER.

TECHtip

- Unsecured machines can move, causing grinding breakage and injury. Fixed-based bench and pedestal grinders MUST be secured.
- Do not grind wood, plastic or any other non-metallic material on a bench or pedestal grinder.
- All bench and pedestal wheels must be dressed to prevent loading. Loading can cause excessive heat, damage to the workpiece, and wheel breakage. Dressing exposes new cutting edges and provides chip clearance.
- Recommended Starting Dressing Stick: 1 x 1 x 6 37C24-SVK Part No. 61463610462.



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



CATEGORY DEFINITION

Resin bond, vitrified bond, center lap, and cotton fiber mounted points are available in a wide range of shapes.

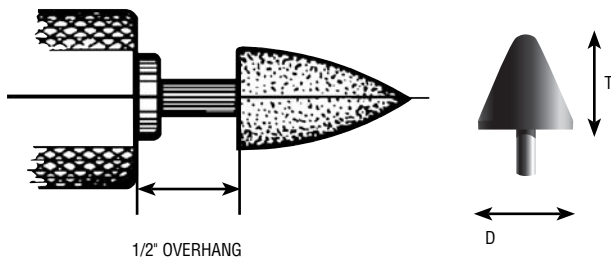
- INDUSTRIES:
- Aerospace
 - Tool and Die
 - Construction
 - Metal Fabrication
 - Automotive
 - Cutlery
 - Mold Shops
 - Stainless Steel Equipment
 - Foundries

ABRASIVE GRAIN: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide

SHAPE AVAILABILITY: A, B, and W



MEASUREMENT GUIDE



DESCRIPTION OF OVERHANG

Overhang is the distance between the grinder chuck and the abrasive on the spindle. The larger the overhang, the lower the maximum safe operating speed.

SIZE

Measured by diameter (D) x thickness (T)

FEATURED PRODUCTS



CENTER LAP MOUNTED POINTS FOR EXCELL-O CENTER LAP AND SIMILAR MACHINES

FEATURES

- Specially formulated wheel treatment (#5 wood resin)
- Larger diameter spindle
- Precise dimensional tolerances

BENEFITS

- Adds lubricity to the wheel, minimizing risk of metallurgical damage
- Minimum deflection, rigid support
- Ensure accurate location of part centers

AVAILABILITY

TIER:	BETTER
BRAND:	Norton
TRADENAME:	CENTER LAP
ABRASIVE:	Aluminum Oxide

SHAPE	SIZE (D X T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART NO.
CENTER LAP MOUNTED POINTS						
-	1/2 x 2**	1/2	65,000	5/25	A80-VVM	61463621421
-	1 x 2**	1/2	15,900	5/25	A80-VVM	61463622926

** POINTED 60°

† SPINDLE LENGTH IS 1-1/4"

* MAXIMUM OPERATING SPEED BASED ON 1/2" OVERHANG

TECHtip

Dress the center lap mounted points frequently to ensure accurate and smooth center holes.



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



COTTON FIBER MOUNTED POINTS GOOD FOR BLENDING AND POLISHING

FEATURES

- 80 grit
- 120 grit

BENEFITS

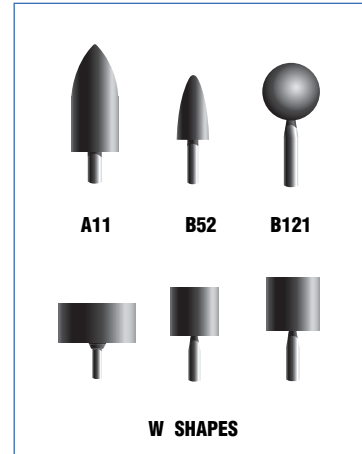
- For most materials
- For polishing and stainless steel applications

AVAILABILITY

TIER:	GOOD
BRAND:	Norton
TRADENAME:	COTTON FIBER
ABRASIVE:	Aluminum Oxide

SHAPE	SIZE (D X T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART NO.
COTTON FIBER MOUNTED POINTS						
A11	7/8 x 2	1/4	25,420	25/25	A80-HBF3	61463622664
B52	3/8 x 3/4	1/8	64,810	25/25	A120-HBF3	61463620242
B121	1/2" Ball	1/8	62,420	25/25	A80-HBF3	61463622657
W163	1/4 x 1/2	1/8	59,990	25/25	A80-HBF3 A120-HBF3	61463622655 61463622656
W176	3/8 x 1/2	1/8	50,460	25/25	A80-HBF3	61463622654
W185	1/2 x 1/2	1/8	42,750	25/25	A80-HBF3	61463622649
W187	1/2 x 1	1/8	22,630	25/25	A80-HBF3	61463622651
W220	1 x 1	1/4	30,370	25/25	A80-HBF3	61463622646

† SPINDLE LENGTH IS 1-1/2" * MAXIMUM OPERATING SPEED BASED ON 1/2" OVERHANG



NORZON – RESIN BOND MOUNTED POINTS BEST CHOICE FOR FAST STOCK REMOVAL

FEATURES

- NZ (NorZon) zirconia alumina self-sharpening abrasive and durable organic bond
- 2X faster stock removal than competitive aluminum oxide products
- Last 4X longer



CHARGER – RESIN BOND MOUNTED POINTS BETTER CHOICE FOR FAST STOCK REMOVAL AND LONG LIFE

FEATURES

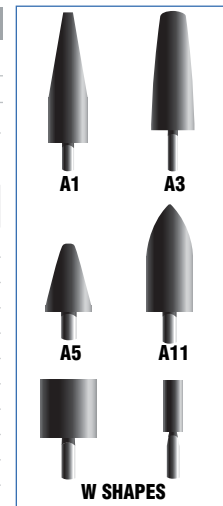
- Zirconia alumina / aluminum oxide abrasive blend
- 35% faster cut rate than standard aluminum oxide
- An aggressive, free cut
- More parts cleaned in less time to substantially increase productivity
- Specially formulated organic bond
- 2X greater life than ordinary aluminum oxide
- Reduces vibration and wheel chatter

AVAILABILITY

TIER:	BEST	BETTER
BRAND:	Norton	Norton
TRADENAME:	NORZON	CHARGER
ABRASIVE:	Zirconia Alumina	Zirconia Alumina/Aluminum Oxide

SHAPE	SIZE (D X T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART NO.	SPEC	PART NO.
RESIN BOND MOUNTED POINTS								
A1	3/4 x 2-1/2	1/4	20,960	5/25	NZ24-UBXR1	61463616457	Charger	61463616458
A3	1 x 2-3/4	1/4	15,530	5/25	NZ24-UBXR1	61463616459	Charger	61463616460
A5	3/4 x 1-1/8	1/4	38,550	5/25			Charger	61463616462
A11	7/8 x 2	1/4	25,420	5/25	NZ24-UBXR1	61463616463	Charger	61463616464
W189	1/2 x 2	1/4	26,830	5/25	NZ24-UBXR1	61463616465	Charger	61463616466
W197	5/8 x 2	1/4	24,550	5/25	NZ24-UBXR1	61463616467		
W207	3/4 x 1-1/2	1/4	27,070	5/25			Charger	61463616470
W208	3/4 x 2	1/4	22,830	5/25	NZ24-UBXR1	61463616471	Charger	61463616472
W220	1 x 1	1/4	30,370	5/25	NZ24-UBXR1	61463617520	Charger	61463617521
W221	1 x 1-1/2	1/4	24,490	5/25	NZ24-UBXR1	61463616473	Charger	61463616474
W222	1 x 2	1/4	20,250	5/25	NZ24-UBXR1	61463616475	Charger	61463616476

† SPINDLE LENGTH IS 1-1/2" * MAXIMUM OPERATING SPEED BASED ON 1/2" OVERHANG





NORTON QUANTUM (NQ) – VITRIFIED BOND MOUNTED POINTS

BEST CHOICE FOR HIGH VOLUME OPERATIONS

FEATURES

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

BENEFITS

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



GEMINI – VITRIFIED BOND MOUNTED POINTS

GOOD VALUE FOR GENERAL PURPOSE, SMALL JOB SHOP APPLICATIONS

FEATURES

- 38A abrasive
- Diverse shapes and sizes

BENEFITS

- Cool cutting, less burn
- Ideal when initial price is the main purchasing consideration

AVAILABILITY

TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	QUANTUM	GEMINI
ABRASIVE:	Ceramic Alumina	38A

SHAPE	SIZE (D X T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART NO.	SPEC	PART NO.
VITRIFIED BOND MOUNTED POINTS – A SHAPES								
A1	3/4 x 2-1/2	1/4	20,960	5/25	3NQ80	69083149139	38A36-T	61463624374
A1	3/4 x 2-1/2	1/4	20,960	5/25			38A60-P	61463624375
A3	1 x 2-3/4	1/4	15,530	5/25			38A36-T	61463624377
A3	1 x 2-3/4	1/4	15,530	5/25			38A60-P	61463624378
A4	1-1/4 x 1-1/4	1/4	28,550	5/25			38A60-P	61463624380
A5	3/4 x 1-1/8	1/4	38,550	5/25			38A36-T	61463624381
A5	3/4 x 1-1/8	1/4	38,550	5/25			38A60-P	61463624382
A11	7/8 x 2	1/4	25,420	5/25	3NQ80	69083149141	38A36-T	61463624384
A11	7/8 x 2	1/4	25,420	5/25			38A60-P	61463624385
A12	11/16 x 1-1/4	1/4	38,050	5/25	3NQ60	61463677679		
A12	11/16 x 1-1/4	1/4	38,050	5/25			38A60-P	61463624388
A13	1-1/8 x 1-1/8	1/4	31,850	5/25			38A60-P	61463624389
A14	11/16 x 7/8	1/4	43,440	5/25			38A60-P	61463624390
A15	1/4 x 1-1/16	1/4	50,510	5/25			38A60-P	61463624391
A21	1 x 1	1/4	35,510	5/25	3NQ80	69083149144	38A60-P	61463624392
A23	3/4 x 1	1/4	40,300	5/25	3NQ80	69083149143	38A60-P	61463624394
A24	1/4 x 3/4	1/4	56,000	5/25			38A60-P	61463624395
A25	1" Ball	1/4	35,510	5/25	3NQ80	61463677680	38A60-P	61463624396
A26	5/8" Ball	1/4	48,980	5/25	3NQ80	69083149145	38A60-P	61463624397
A31	1-3/8 x 1	1/4	27,780	5/25			38A60-P	61463624399
A34	1-1/2 x 3/8	1/4	25,460	5/25			38A60-P	61463624402
A36	1-5/8 x 3/8	1/4	23,510	5/25	3NQ80	69083149146	38A60-P	61463624404
A37	1-1/4 x 1/4	1/4	30,560	5/25			38A60-P	61463624405
A38	1 x 1	1/4	35,510	5/25	3NQ80	61463677682	38A60-P	61463624406
A39	3/4 x 3/4	1/4	44,030	5/25	3NQ80	69083149147	38A60-P	61463624407
A40	3/4" Ball	1/4	44,030	5/25			38A60-P	61463624408

† STANDARD SPINDLE SIZE IS 1/4" x 1-1/2"

* MAXIMUM OPERATING SPEED BASED ON 1/2" OVERHANG





AVAILABILITY

TIER:

BEST

GOOD

BRAND:
TRADENAME:
ABRASIVE:

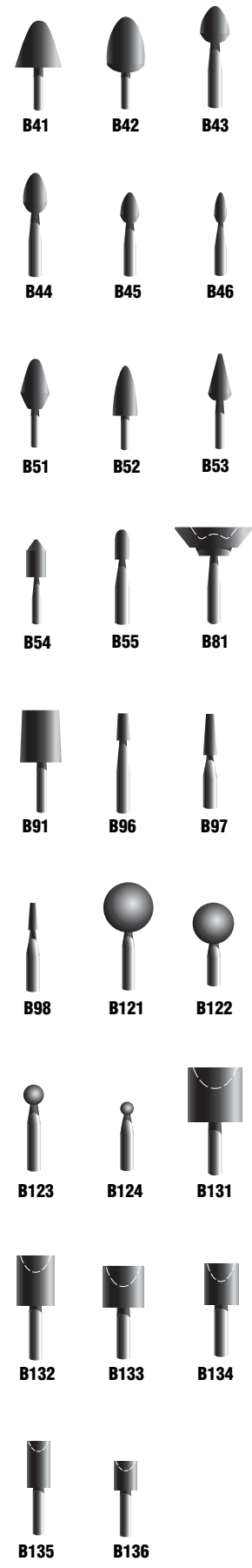
Norton
QUANTUM
Ceramic Alumina

Norton
GEMINI
38A

SHAPE	SIZE (D X T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART NO.	SPEC	PART NO.
VITRIFIED BOND MOUNTED POINTS – B SHAPES								
B41	5/8 x 5/8	1/8	59,560	5/25			38A60-P	61463624410
B42	1/2 X 3/4	1/8	61,320	5/25	3NQ80	69083149045	38A60-P	61463624412
B43	1/4 x 5/16	1/8	76,160	5/25			38A60-P	61463624413
B44	7/32 x 3/8	1/8	75,840	5/25			38A60-P	61463624414
B45	3/16 x 5/16	1/8	79,600	5/25			38A60-P	61463624415
B46	1/8 x 5/16	1/8	83,530	5/25			38A60-P	61463624416
B51	7/16 x 3/4	1/8	62,820	5/25			38A60-P	61463624418
B52	3/8 x 3/4	1/8	64,810	5/25	3NQ80	69083149046	38A60-P	61463624420
B52	3/8 x 3/4	1/4	78,340	5/25			38A60-P	61463624419
B52	3/8 x 3/4	1/8	64,810	5/25			38A90-Q	61463624422
B53	5/16 x 5/8	1/8	67,070	5/25			38A60-P	61463624423
B54	1/4 x 1/2	1/8	71,340	5/25			38A60-P	61463624424
B55	1/8 x 1/4	1/8	85,900	5/25			38A60-P	61463624425
B81	3/4 x 3/16	1/8	50,930	5/25			38A60-P	61463624437
B91	1/2 x 5/8	1/8	61,110	5/25			38A60-P	61463624443
B96	1/8 x 1/4	1/8	85,900	5/25			38A60-P	61463624448
B96	1/8 x 1/4	1/8	85,900	5/25			38A90-Q	61463624449
B97	1/8 x 3/8	1/8	81,550	5/25	3NQ80	69083149048	38A60-P	61463624451
B98	3/32 x 1/4	1/8	88,040	5/25			38A60-P	61463624452
B121	1/2" Ball	1/8	62,420	5/25			38A60-P	61463624466
B122	3/8" Ball	1/8	68,740	5/25	3NQ80	69083149050	38A60-P	61463624470
B122	3/8" Ball	1/8	68,740	5/25			38A90-Q	61463624471
B123	3/16" Ball	1/8	84,720	5/25			38A60-P	61463624472
B124	1/8" Ball	1/8	91,770	5/25			38A90-Q	61463624474
B131	1/2 x 1/2	1/8	62,420	5/25	3NQ80	69083149049	38A60-P	61463624475
B132	3/8 x 1/2	1/8	65,910	5/25			38A60-P	61463624479
B133	3/8 x 3/8	1/8	68,740	5/25			38A60-P	61463624481
B134	5/16 x 3/8	1/8	71,220	5/25			38A60-P	61463624482
B135	1/4 x 1/2	1/8	71,340	5/25			38A60-P	61463624484
B136	1/4 x 5/16	1/8	76,160	5/25			38A60-P	61463624485

† STANDARD SPINDLE SIZE IS 1/8" OR 1/4" x 1-1/2"

* MAXIMUM OPERATING SPEED BASED ON 1/2" OVERHANG





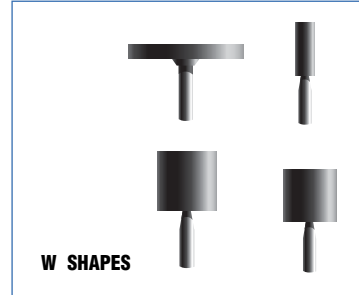
AVAILABILITY

TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	QUANTUM	GEMINI
ABRASIVE:	Ceramic Alumina	38A

SHAPE	SIZE (D X T)	SPINDLE DIA. †	MAX. RPM*	MIN./STD. PKG.	SPEC	PART NO.	SPEC	PART NO.
VITRIFIED BOND MOUNTED POINTS – W SHAPES								
W144	1/8 x 1/4	1/8	92,460	5/25			38A60-P	61463624488
W145	1/8 x 3/8	1/8	84,190	5/25			38A60-P	61463624489
W146	1/8 x 1/2	1/8	76,820	5/25			38A60-P	61463624491
W152	3/16 x 1/4	1/8	82,070	5/25			38A60-P	61463624495
W153	3/16 x 3/8	1/8	73,880	5/25			38A60-P	61463624496
W154	3/16 x 1/2	1/8	66,580	5/25	3NQ80	69083149133	38A60-P	61463624497
W160	1/4 x 1/4	1/8	75,330	5/25			38A60-P	61463624501
W162	1/4 x 3/8	1/8	67,210	5/25			38A60-P	61463624503
W163	1/4 x 1/2	1/8	59,990	5/25			38A60-P	61463624504
W164	1/4 x 3/4	1/8	47,880	5/25	3NQ80	69083149135	38A60-P	61463624505
W170	5/16 x 1/2	1/8	54,860	5/25			38A60-P	61463624511
W175	3/8 x 3/8	1/8	57,530	5/25			38A60-P	61463624516
W176	3/8 x 1/2	1/8	50,460	5/25			38A60-P	61463624517
W177	3/8 x 3/4	1/8	38,640	5/25			38A60-P	61463624518
W185	1/2 x 1/2	1/8	42,750	5/25	3NQ80	69083149137	38A60-P	61463624525
W185	1/2 x 1/2	1/4	44,470	5/25			38A60-P	61463624526
W186	1/2 X 3/4	1/4	40,500	5/25			38A60-P	61463624528
W188	1/2 x 1-1/2	1/4	31,070	5/25			38A60-P	61463624530
W189	1/2 x 2	1/4	26,830	5/25	3NQ80	61463677683	38A60-P	61463624531
W196	5/8 x 1	1/4	34,670	5/25			38A60-P	61463624539
W200	3/4 x 1/8	1/8	50,930	5/25			38A60-P	61463624543
W200	3/4 x 1/8	1/8	50,930	5/25			38A90-Q	61463624544
W204	3/4 x 3/4	1/4	36,510	5/25			38A60-P	61463624549
W205	3/4 x 1	1/4	32,950	5/25			38A60-P	61463624550
W208	3/4 x 2	1/4	22,830	5/25	3NQ80	61463677684	38A60-P	61463624553
W215	1 x 1/8	1/8	38,200	5/25	3NQ80	69083149138	38A60-P	61463624560
W216	1 x 1/4	1/4	38,200	5/25			38A60-P	61463624562
W218	1 x 1/2	1/4	37,890	5/25			38A60-P	61463624564
W220	1 x 1	1/4	30,370	5/25	3NQ80	61463677685	38A60-P	61463624566
W221	1 x 1-1/2	1/4	24,490	5/25			38A60-P	61463624567
W222	1 x 2	1/4	20,250	5/25			38A60-P	61463624569
W230	1-1/4 x 1-1/4	1/4	25,200	5/25			38A60-P	61463624578
W235	1-1/2 x 1/4	1/4	25,460	5/25			38A60-P	61463624583
W236	1-1/2 x 1/2	1/4	25,460	5/25	3NQ80	61463677686	38A60-P	61463624585
W237	1-1/2 x 1	1/4	25,460	5/25			38A60-P	61463624587
W238	1-1/2 x 1-1/2	1/4	20,720	5/25			38A60-P	61463624588
W242	2 x 1	1/4	19,100	5/25			38A60-P	61463624592

† STANDARD SPINDLE SIZE IS 1/8" OR 1/4" x 1-1/2"

* MAXIMUM OPERATING SPEED BASED ON 1/2" OVERHANG



W SHAPES

TECHtip

- For best mounted point performance, always run the mounted point at the maximum allowable speed according to ANSI B7.1. Refer to the speed chart included in each shipment for proper operating speeds.
- Use "A" shapes for medium- to heavy-duty blending.
- Use "B" shapes for light deburring and finishing/polishing.
- Use "W" shapes for offhand and precision grinding of medium to heavy stock.
- Use 36 grit and coarser for rough grinding.
- Use 60 and 90 grits for imparting fine finishes or when grinding on narrow surfaces.



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



50-Piece Mounted Point Kits

- Each kit contains 5 each of 10 of our best selling mounted point shapes and specifications
- The 1/4" spindle kit contains "A"-shaped points that are ideal for general maintenance and metalworking applications
- The 1/8" spindle kits contain "B"-shaped points for light deburring machine parts or finishing/polishing dies
- The "W"-shaped points in both these kits work well for precision grinding of medium to heavy stock

TIER:	BEST	GOOD
BRAND:	Norton	Norton
TRADENAME:	QUANTUM	GEMINI

SHAPE	SPINDLE DIA. †	MIN./STD. PKG.		PART NO.	PART NO.
MOUNTED POINT KITS					
Assorted	1/4	1	50 piece Premium Norton Quantum 1/4" Spindle Mounted Point Kit contains 5 each of A1, A5, A11, A21, A23, A26, A36, A39, W242 Norton Quantum and 5 W220 A80-HBF3	69083147810	
Assorted	1/8	1	50 piece Premium Norton Quantum 1/8" Spindle Mounted Point Kit contains 5 each of B42, B52, B97, B122, B131, W154, W164, W185, W215 Norton Quantum and W163 A80-HBF3	69083147806	
Assorted	1/4	1	50 piece 38A60-P 1/4" Spindle Gemini Mounted Point Kit contains 5 each of A1, A5, A11, A21, A23, A26, A36, A39, W242 Gemini and 5 W220 A80-HBF3		69083147789
Assorted	1/8	1	50 piece 38A60-P 1/8" Spindle Gemini Mounted Point Kit contains 5 each of B42, B52, B97, B122, B131, W154, W164, W185, W215 Gemini and W163 A80-HBF3		69083147669

† STANDARD SPINDLE SIZE IS 1/8" OR 1/4" x 1-1/2"



CATEGORY DEFINITION

Hard silicon carbide rubbing bricks are used for heavy-duty applications such as rubbing floors, cleaning and scouring castings, rubbing down concrete, and removing mold marks.

APPLICATIONS:

Floor Rubbing Bricks – are used to rub down concrete and remove mold marks. These are designed to fit the chucks of common concrete floor grinding equipment. Reusable wooden wedges anchor the bricks to the equipment chucks.

Plain Hand Rubbing Bricks – are the choice of mechanics and foundrymen for dressing grinding wheels and cleaning or scouring castings.

Fluted Hand Rubbing Bricks – are used by masons and stone workers for rubbing down concrete and removing mold marks. The diagonal flutes provide sharp edges, a clean shearing action, and carry away debris.

Fluted Hand Rubbing Bricks with Handle – make quick work of removing mold marks and rubbing down concrete. The firmly attached handle reduces fatigue and facilitates overhead, wall, and floor work.

GRIT RANGE:

6 – 120

ABRASIVE TYPE:

Silicon Carbide

AVAILABILITY

TIER:

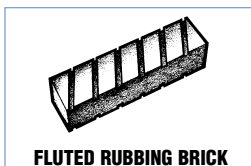
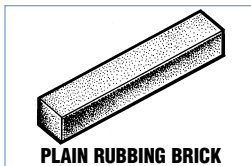
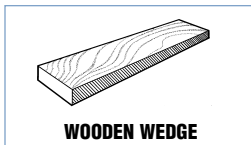
BETTER

BRAND

Norton

ABRASIVE:

Silicon Carbide



SIZE (L X W X H)	QTY./ PKG.	QTY./ CASE	SPEC.	PRODUCT NO.	PART NO.
PLAIN FLOOR RUBBING BRICKS WITH WOODEN WEDGES					
4 x 2 x 2	1	6	C6-R		61463653292
			C10-R		61463653293
			C24-R		61463653294
			C80-R		61463653295
FLOOR RUBBING BRICK WITH CENTER SCORE					
8 x 2 x 2	1	5	C120-R*		61463685296*
WOODEN WEDGES					
	6	6			61463685297
PLAIN HAND RUBBING BRICKS					
8 x 2 x 2	1	5	C24	BP28	61463687830
FLUTED HAND RUBBING BRICKS					
6 x 2 x 2	1	5	C20	BF26	61463687840
8 x 2 x 2	1	5	C20	BF28	61463687845
FLUTED HAND RUBBING BRICKS WITH HANDLE					
6 x 3 x 1	1	5	C20	BFH6	61463687800
8 x 3-1/2 x 1-1/2	1	5	C20	235	61463687795

* 8" BRICK HAS A CENTER SCORE TO FACILITATE DIVIDING THE BRICK IN HALF – AN ECONOMICAL ALTERNATIVE TO BUYING TWO 4" BRICKS.



CATEGORY DEFINITION

Since 1823, Norton has been the leading supplier of sharpening and finishing products, delivering the superior performance you expect. Norton sharpening products include: benchstones, lubricants, abrasive files and slips, sharpening stations and systems, specialty and pocket stones.

- APPLICATIONS: Deburring, dimensioning, sharpening, honing
- GRIT RANGE: Coarse, Medium, Fine, Extra Fine, Ultra Fine
- ABRASIVE TYPES: Aluminum Oxide (India), Silicon Carbide (Crystolon), Arkansas, Diamond

Retail Packaged Sharpening Products



AVAILABILITY

TIER: **BETTER**
BRAND Norton

SIZE (L X W X H)	SPECIFICATION	QTY./CASE	PART NO.
ABRASIVE SHARPENING STONES			
Axe & Hatchet Sharpener			
3 x 5/8 round	Coarse/Fine Crystolon	10	07660785316
Pocket Knife Sharpener			
3 x 7/8 x 3/8 with case	Medium Aluminum Oxide	5	07660787937
3 x 1-1/2 x 1/2 with case	Coarse/Fine Aluminum Oxide	5	07660787630
Economy Tool & Knife Bench Stone			
6 x 2 x 3/4	Coarse/Fine Aluminum Oxide	5	07660787933
8 x 2 x 3/4	Coarse/Fine Aluminum Oxide	10	07660787934
High Quality Tool & Knife Bench Stone			
6 x 2 x 3/4	Coarse/Fine Crystolon	5	07660787935
Chisel & Planer Blade Sharpener			
8 x 2 x 3/4	Coarse/Fine India	10	07660787936
Household Knife & Tool Sharpener			
7-1/2	Fine Crystolon	5	07660787939
Farm Tool Sharpener			
10 x 1-1/4 x 3/4	Coarse Crystolon	10	07660787730
Lawn & Garden Tool Sharpener			
9-1/2 x 1-3/8 x 1/2	Medium Crystolon	10	07660787938
Sharpening Stone Oil			
4-1/2 oz.	Oil	5	07660787940



Rolling Wheel Knife Sharpener

The compact, handheld **Rolling Wheel Knife Sharpener** has two slots, to sharpen each side of the blade. It has a built-in proper angle for sharpening. No lubricant needed.

SPECIFICATION	QTY./CASE.	PART NO.
Slotted, handheld	12	66253092616



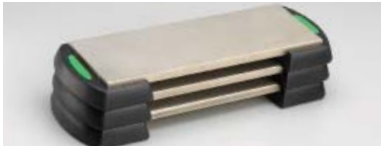
Knife and Scissors Sharpener

The **Knife and Scissors Mechanical Sharpener** is a quick and portable tool for hundreds of sharpening applications.

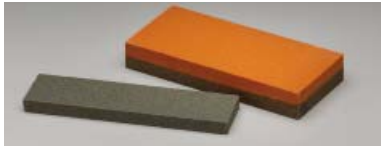
SPECIFICATION	QTY./CASE.	PART NO.
Carbide	6	07660787520



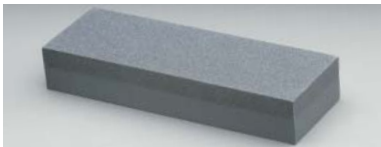
Bulk Sharpening Products



Faster and 100X the life of regular abrasives, **stackable diamond benchstones** provide quick, exceptional sharpening.



India benchstones produce a strong, keen, long-lasting edge on quality tools.



Crystolon benchstones are used for general sharpening when the speed of sharpening is more important than the fineness of the cutting edges.



Pre-loaded, full-color **Benchstone Display** with twelve Crystolon (silicon carbide) benchstones, anniversary boxed.



Natural ozark quartz Arkansas benchstones create the finest finishes. White in color; may contain shades of red, yellow and gray.



Norton Oil is a highly refined lubricating oil and meets U.S. Pharmacopoeia standards for use around food preparation operations.

Tradesmen's Utility Stones are used for sharpening knives and as abrasive files in many different industries.

Utility File is designed for sharpening coarse cutting edges on cutting implements and edged garden tools.

AVAILABILITY

SIZE (L X W X H)	SPECIFICATION	QTY./ CASE	TIER:	BETTER
			BRAND	Norton
STACKABLE DIAMOND BENCHSTONES				
6 x 2 x 1/4	D220 D325 D600	5		66253268082 66253268081 66253268080
8 x 2 x 1	D220 D325 D600	5		66253268087 66253268086 66253268083
INDIA (ALUMINUM OXIDE) SINGLE GRIT BENCHSTONES				
4 x 1 x 1/4	Coarse Medium Fine	5	CB14 MB14 FB14	61463685580 61463685575 61463685570
4 x 1 x 1/2	Coarse Medium Fine	5	CB24 MB24 FB24	61463685595 61463685590 61463685585
6 x 2 x 1	Coarse Medium Fine	5	CB6 MB6 FB6	61463685620 61463685615 61463685610
8 x 2 x 1	Coarse Medium Fine	5	CB8 MB8 FB8	61463685635 61463685630 61463685625
INDIA (ALUMINUM OXIDE) COMBINATION GRIT BENCHSTONES				
4 x 1 Round	Coarse/Fine	5	IB64	61463685545
4 x 1-3/4 x 5/8	Coarse/Fine	5	IB134	61463685550
5 x 2 x 3/4	Coarse/Fine	5	IB45	61463685555
6 x 2 x 1	Coarse/Fine	5	IB6	61463685560
8 x 2 x 1	Coarse/Fine	5	IB8	61463685565
11-1/2 x 2-1/2 x 1	Coarse/Fine	2	IM2	61463685851
CRYSTOLON (SILICON CARBIDE) COMBINATION GRIT BENCHSTONES				
4 x 1 Round	Coarse/Fine	5	JB64	61463685435
4 x 1-3/4 x 5/8	Coarse/Fine	5	JB134	61463685440
5 x 2 x 3/4	Coarse/Fine	5	JB45	61463685445
6 x 2 x 1	Coarse/Fine	5	JB6	61463685450
8 x 2 x 1	Coarse/Fine	5	JB8	61463685455
11-1/2 x 2-1/2 x 1	Coarse/Fine	2	JUM3	61463685840
12 x 2-1/2 x 1-1/2	Coarse/Fine	2	JUM4	61463685855
BENCHSTONE DISPLAY UNIT				
8 x 2 x 1 Benchstones	Coarse/Fine	12	JB8	66253096034
ARKANSAS SINGLE GRIT BENCHSTONES				
3 x 1 x 3/8	Extra Fine Soft Arkansas	10	SB13	61463687560
4 x 2 x 3/4-1	Extra Fine Soft Arkansas	5	SB4	61463685670
6 x 2 x 3/4-1	Extra Fine Soft Arkansas	5	SB6	61463685675
8 x 2 x 3/4-1	Extra Fine Soft Arkansas	5	SB8	61463685680
4 x 2 x 3/4-1	Ultra Fine Hard Arkansas	5	HB4	61463685655
6 x 2 x 3/4-1	Ultra Fine Hard Arkansas	5	HB6	61463685660
8 x 2 x 3/4-1	Ultra Fine Hard Arkansas	5	HB8	61463685665
NORTON OIL				
4-1/2 oz.	Oil	20	XB1	61463687760
1 Pint	Oil	20	XB5	61463687770
1 Quart	Oil	5	XB2	61463687775
TRADESMEN'S UTILITY STONES – CRYSTOLON (SILICON CARBIDE)				
14-3/4 including handle	Coarse/Fine	10	JT930	61463687675
14-3/4 including handle	Medium	10	JT920	61463687670
UTILITY FILE – CRYSTOLON (SILICON CARBIDE)				
14 including handle	Coarse	10	JD2	61463687750







NORTON **SG**
BLAZE®

NorZon®
BLUEFIRE™

MERIT



CATEGORY DEFINITION

The most heavy-duty of coated abrasive discs with resin over resin construction on heavy-duty vulcanized fiber backing. Designed for applications ranging from heavy stock removal to surface blending. Used with back-up pads on portable angle grinders.

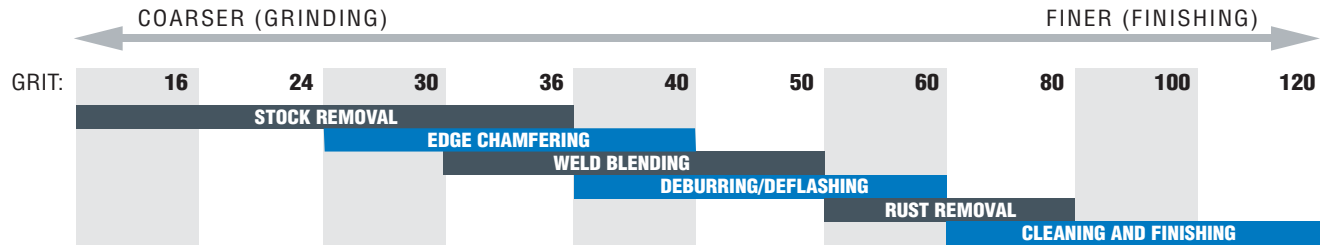
- APPLICATIONS: Stock removal, edge chamfering, weld blending, deburring/deflashing, rust removal, cleaning and finishing
- SIZE RANGE: 4" x 5/8" hole, 4-1/2" – 9-1/8" x 7/8" hole
- GRIT RANGE: 16 – 120
- ABRASIVE GRAIN: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide
- PRODUCT OPTIONS: Speed-Change hubs (5/8-11"), AVOS technology
- ACCESSORIES: Air-cooled and smooth-faced back-up pads

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
Stainless Steel / Titanium / Super Alloys*	Norton SG Blaze F980	Norton NorZon BlueFire F826	Merit Metal A/O
Mild Carbon Steel / Welds	Norton SG GreenLyte F968	Norton NorZon BlueFire F826	Merit Metal A/O
Ferrous Metals / Cast Iron	Norton SG GreenLyte F968	Norton NorZon BlueFire F826	Merit Metal A/O
Brass / Bronze / Aluminum	–	Norton Metalite F220	Merit Metal A/O
Paint / Glue / Stonework	–	Norton FastCut Silicon Carbide	Merit Metal A/O

*NICKEL/COBALT BASED – HASTELLOY, INCONEL, WASSPALLOY

APPLICATION/GRIT RECOMMENDATION GUIDE



CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE			INITIAL PRICE			
	BEST		BETTER			GOOD	
	SG Blaze F980	SG GreenLyte F968	NorZon BlueFire F826		Metalite F220	Metalite F226	
			Ceramic	Z/A		Metal	
NORTON							
MERIT							
3M	985C, 982C	988C, 983C	785C	501C	–	280C	381C, 281C GreenCorp
Camel	–	–	Ceramic Blend	–	Zirconia	A/O Open	–, A/O
Flexovit	–	–	Flexon CG	Flexon	–	–	Specialist, High Perf
GemTex	–	–	X, PMD	–	ZEE	SMD	–, A
Hermes	CB844X	CB444X/J	–	RB414X/J	–	–	RB314X/J, –
Klingspor	CS661	–	–	CS570	CS565	–	–, CS561
Metabo	–	–	–	–	Z/A	–	–, A
Mirka	–	–	–	Blue A/Z	Gold A/Z	–	–, Red A/O
Pearl	–	–	–	–	Zirconia	–	A/O Premium, A/O Silver
Pferd	CO Cool	CO	CO-PMD	Z Cool	Z	–	A Cool, A
Sait	9S	8S	–	3Z	Z	–	3A, A, 2A
SIA	–	4515	–	4815	4819	–	–, 4919
Standard	–	–	Ceramic	–	Zirconia	–	A/O Extra, A/O
VSM	XF870	XF750	ZF844	ZF745	ZF713, ZF714	–	KF808, KF708
Walter	–	–	–	Topcut, Inox	–	–	Coolcut, –
Weiler	–	–	–	–	Zirconium	–	–, A/O



FEATURED PRODUCTS



NORTON SG BLAZE F980

BEST CHOICE FOR STAINLESS STEEL, TITANIUM, AND SUPER ALLOYS

FEATURES

- Patented, new generation ceramic alumina grain
- Full-ratio / 100% ceramic alumina grain
- Self-lubricating, advanced supersize treatment
- Improved resin bond system
- Extra heavy-duty backing on 50 grit & coarser
- Foil-packed availability

BENEFITS

- Improved micro-fracturing for sharper grain edges and improved grain life
- Significant cut rate and life over competitive blended/low-ratio ceramic alumina discs
- Reduced heat, loading and glazing on stainless, titanium and super alloys
- Improved grain retention for longer life
- Increased life and durability
- Improved humidity and prevention against curl
- Fully recyclable for reduced landfill waste



NORTON SG GREENLYTE F968

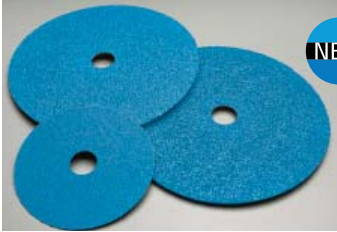
BEST CHOICE FOR CARBON STEEL, WELDS, FERROUS METALS, AND CAST IRON

FEATURES

- Premium, patented, self-sharpening full-ratio ceramic abrasive grain

BENEFITS

- Faster initial cut rate, longer life and improved finishes versus competitive ceramic



NEW

NORTON NORZON BLUEFIRE F826

BETTER CHOICE FOR STAINLESS, SUPER ALLOYS, STEEL, CAST IRON AND HIGH PRESSURE APPLICATIONS

FEATURES

- New, improved blend of patented ceramic alumina and zirconia alumina abrasive

BENEFITS

- Fast, aggressive cutting
- Self-sharpens with use



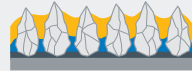
NEW

NORTON METALITE F220

BETTER CHOICE FOR SOFT METALS

FEATURES

- High-performance aluminum oxide
- Paraffin wax coating



BENEFITS

- Low initial price with consistent performance
- Minimizes loading without sacrificing life, while providing excellent cut
- Reduces heat at the point of contact, so disc remains free-cutting and lasts longer
- Less pressure required for optimum performance



NEW

NORTON FASTCUT TYPE 27

BETTER CHOICE FOR PAINT, GLUE, ADHESIVE AND STONEWORK

FEATURES

- Extra coarse 16 grit, sharp silicon carbide abrasive grain
- Engineered specifically with cooling ridges
- Type 27 flat faced, depressed center shaped, with rigid fiber backing

BENEFITS

- Quickly penetrates and removes any coatings (adhesives, paint, acrylics, mastics, etc.)
- Aggressively grinds concrete, marble, granite, and other stonework
- Minimize loading by creating an interrupted cut
- Remain free-cutting and last longer
- Ideal for demanding right angle grinding, at comfortable low angles



NEW

MERIT METAL

GOOD STARTING SPECIFICATION FOR ALL METALS

FEATURES

- High-performance aluminum oxide

BENEFITS

- Low initial price with consistent performance



AVAILABILITY



TIER:	BEST	BEST	BETTER	BETTER	BETTER
BRAND:	Norton	Norton	Merit	Norton	Merit
TRADENAME:	NORTON SG BLAZE F980	SG GREENLYTE F968	CERAMIC	NORZON BLUEFIRE F826	ZA
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina	Ceramic/Zirconia	Zirconia Alumina
OTHER:	Supersize				

SIZE (D X H)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
4-1/2 x 7/8	24	25	69957398000	66261141313	66623355601	66261138457	66623353315
	30		66254425334				
	36		69957398001	66261141312	66623355602	66261138456	66623353316
	40			66261058701			
	50		69957398002	66261141311	66623355603	66261138454	66623353318
	60		69957398003	66261141310	66623355604	66261138453	66623353319
	80		69957398004	66261141309	66623365598	66261138452	66623353320
	100			66261141308			
	120		66254425332	66261141307			
5 x 7/8	24	25	69957398005	66261141320	66623355597	66261138563	66623357290
	50		66254464822#				
	30	25	66254425333				
	36	25	69957398006	66261141319	66623355598	66261138562	66623357291
	50		66254464821#				
	40	25		66261058702			
	50	25	69957398007	66261141318	66623355599	66261138561	66623357292
	50		66254464820#				
	60	25	69957398008	66261141317	66623355600	66261138601	66623357293
	80	25	69957398009	66261141316	66623366015	66261138600	66623357294
	100		66261141315				
	120		66254409084	66261141314			
7 x 7/8	24	25	69957398010	66261141327	66623355578	66261138594	66623357295
	50		66254464819#				
	30	25	66254420653				
	36	25	69957398011	66261141326	66623355594	66261138593	66623357296
	50		66254464816#				
	40	25		66261058703			
	50	25	69957398012	66261141325	66623355595	66261138592	66623357297
	50		66254464815#				
	60	25	69957398013	66261141324	66623355596	66261138591	66623357298
	80	25	69957398014	66261141323	66623365600	66261138590	66623357299
	100		66261141322				
	120		66254411528	66261141321			
9-1/8 x 7/8	24	25	69957398015	66261141344	05539510782	66261138584	
	36		69957398016	66261141343	05539510749	66261138583	
	50		69957398017		05539510748	66261138582	
	60			66261141341			
	80			66261141340			
	100			66261141339			

SHRINK-WRAP FOIL PACK: 10 DISCS PER PACK, 5 PACKS PER STANDARD PACKAGE

NOTE: FIBER DISCS MUST ALWAYS BE USED WITH BACK-UP PADS, SHOWN ON THE LAST PAGE OF THIS SECTION

Foil Packaging for Norton SG Blaze!

Controlled humidity prevents curl, 10 per pack



NorZon BlueFire F826

Faster and cooler cutting with new patented abrasive blend





AVAILABILITY

			TIER: BETTER	GOOD	GOOD	GOOD
			BRAND: Norton	Norton	Norton	Merit
			TRADENAME: METALITE F220	METALITE F226	METALITE F226	MERIT METAL
			ABRASIVE: Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
			OTHER: Paraffin Fill	Individual UPC Barcode		
SIZE (D X H)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
4 x 5/8	24	25		66261133434	07660704709**	05539510595
	36			66261133433	07660704710**	05539510594
	50			66261133432	07660704711**	05539510593
	60			66261133431		05539510592
	80			66261133430		05539510591
	100			66261133429		
	120			66261133428		
4-1/2 x 7/8	24	25	66254400694	66261133519	07660704712**	66623353309
	36			66261133517	07660704713**	66623353306
	50			66254400696	07660704714**	66623353310
	60			66254400698		66623353311
	80			66254400700		66623353312
	100				66623353313	
	120				66623353314	
5 x 7/8	16	25	66254400692	66261133617		05539510684
	24			66261133615	07660704706**	66623357276
	36			66261133610	07660704707**	66623357277
	50			66254400688	07660704708**	66623357278
	60			66254400690		66623357279
	80			66254400691		66623357280
	100				66623357281	
120		66623357282				
7 x 7/8	16	25	66254400702	66261133760		05539510693
	24			66261133755	07660704703**	66623357283
	36			66261133750	07660704704**	66623357284
	50			66254400703	07660704705**	66623357285
	60			66254400704		66623357286
	80			66254400705		66623357287
	100				66623357288	
120		66623357289				
9-1/8 x 7/8	16	25		66261133890		
	24			66261133885		05539510702
	36			66261133880		05539510701
	50			66261133875		05539510700
	60			66261133870		05539510699
	80			66261133865		
	100			66261133860		
120	66261133855		05539510695			

** 10 PER STD. PKG.

NOTE: FIBER DISCS MUST ALWAYS BE USED WITH BACK-UP PADS, SHOWN ON THE LAST PAGE OF THIS SECTION

Norton Metalite F226 Discs

Individual UPC Bar-Coded

- High-performance aluminum oxide fiber discs at market competitive prices
- Job Packs with 10 per box; ideal for walk-in displays and small contractor purchases
- All discs are UPC bar-coded and can be sold individually





Speed-Change Discs

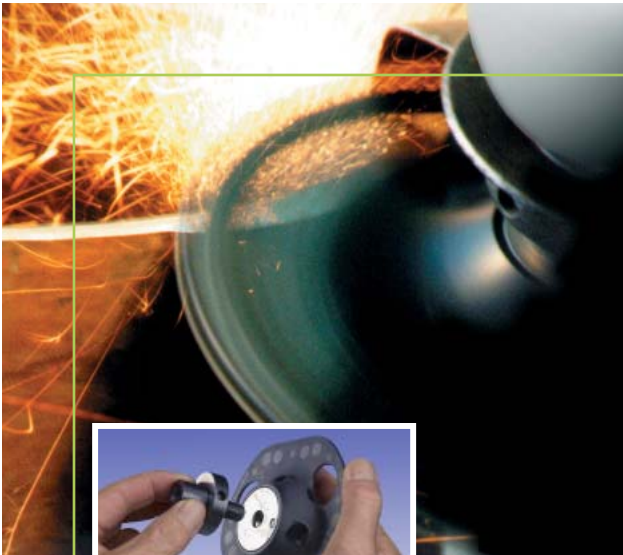
These fiber discs feature Norton quick, tool-free, twist-on and off Speed-Change fasteners. Discs lock to standard back-up pads with a unique nut design and are easily removed, increasing your productivity with more time to grind.

AVAILABILITY

SIZE (D X H)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.
4-1/2 x 5/8-11 Speed-Change	24	25	66261023269		
	36		66261185294		
5 x 5/8-11 Speed-Change	24	25	66254425336	66261138797	
	36		66261185801	66261138796	66261137522
	60				66261137515
7 x 5/8-11 Speed-Change	24	25	69957349782	66261138819	66261137625
	36		66261029863	66261138818	66261137620
	50			66261138817	66261137615
	60			66261138816	
	80				66261137605
	100				66261137600
120			66261137595		

TIER:	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton
TRADENAME:	NORTON SG BLAZE F980	NORZON BLUEFIRE F826	METALITE F226
ABRASIVE:	Ceramic Alumina	Ceramic/Zirconia	Aluminum Oxide
OTHER:	Supersize		

NOTE: SPEED-CHANGE FIBER DISCS MUST ALWAYS BE USED WITH BACK-UP PADS, SHOWN ON THE LAST PAGE OF THIS SECTION



AVOS Fiber Discs and Speed-Lok Back-up Pads

- Patented, see-through design allows interrupted cut which reduces heat up to 30% over standard discs
- The scooped holes create air flow to pull swarf away from grinding zone; cool cutting and extended product life
- 5" back-up pad for full utilization of discs – no gouging
- Quick, tool-free, twist-on and off Speed-Lok fasteners

AVAILABILITY

SIZE	GRIT	STD. PKG.	PART NO.	PART NO.
4-1/2" Speed-Lok (3 hole)	24	10	66254468389	66261129718
	36		66254468390	66261129719
	50		66254468391	66261129720
	60		66254468392	66261129721
	80		66254468393	66261129722
5" Speed-Lok (3 hole)	24	10	66254468385	66261126556
	36		66254468386	66261126557
	50		66254468387	66261126558
	60		66254468388	66261126559
7" Speed-Lok (6 hole)	24	10	66254468381	66261137454
	36		66254468382	66261137455
	50		66254468383	66261137456
	60		66254468384	66261137457
	80			66261137458

TIER:	BEST	BETTER
BRAND:	Norton	Norton
TRADENAME:	NORTON SG BLAZE F980	NORZON BLUEFIRE F826
ABRASIVE:	Ceramic Alumina	Ceramic/Zirconia

SIZE	RPM	STD. PKG.	PART NO.
AVOS Triangular Speed-Lok Back-up Pads			
4-1/2" x 5/8-11	13,000	5	63642502985
5" x 3/8-24 Pistol Grip*	20,000	5	63642503029
5" x 5/8-11	13,000	5	63642502517
5" x 7/16-20 Pistol Grip*	20,000	5	63642503030
AVOS Round Speed-Lok Back-up Pads			
7" x 5/8-11 Hard	8,600	5	63642504873
7" x 5/8-11 Medium	8,600	5	63642504874

*USE ON AIR PNEUMATIC AND HIGH-SPEED PISTOL GRIP SANDERS

NOTE: AVOS FIBER DISCS MUST BE USED WITH AVOS BACK-UP PADS SHOWN AT LEFT



Air-Cooled Standard Back-up Pad

Slotted hub design and curved ribs draw heat away from the grinding zone, reducing disc loading and increasing life. All pads have a 5/8"-11 threaded female hub for mounting. We also offer a no-nose for shorter-shafted right angle grinders.



Smooth Face Back-up Pad

Molded rubber back-up pads with a smooth face.

- Hard density pads are for aggressive cutting action
- Medium density pads are for all-purpose applications
- Soft density pads are used for contours and fine finishing work

DESCRIPTION	MAX. RPM	STD. PKG.	PART NO.
RUBBER BACK-UP PADS			
AIR COOLED STANDARD			
4" Medium	12,000	5	63642504918
4-1/2" Medium	11,000	5	63642502122
5" Medium	10,000	5	63642543421
7" Hard	8,600	5	63642543425
7" Medium	8,600	5	63642543422
9" Hard	6,600	5	63642543426
9" Medium	6,600	5	63642543423

NOTE: RETAINER NUTS ARE NOT INCLUDED WITH BACK-UP PADS. THESE MUST BE ORDERED SEPARATELY.

AIR COOLED NO-NOSE			
4-1/2" Medium	11,000	5	63642504872
5" Medium	10,000	5	63642503000
7" Medium	8,600	5	66254487375

SMOOTH FACE / SPEED-CHANGE			
4-1/2" Medium	20,000	5	66254492277
5" Medium	12,000	5	63642543235
7" Hard	8,600	5	63642543240
7" Medium	8,600	5	63642543245
7" Soft	8,600	5	63642543250
9" Medium	7,000	5	63642543270

TOOLS			
#103 Retainer Nut	—	10	63642543463
Spanner Wrench	—	5	63642543005
66NS Short Retainer Nut	—	10	63642543461

FastCut Fiber Discs

Type 27 (flat-faced), semi-rigid fiber-backed discs with extra sharp, 16 grit silicon carbide abrasive, are engineered specifically with cooling ridges for an interrupted cut to efficiently grind softer materials (marble, granite, concrete, etc.) where loading is a problem.

Cooling ridges minimize loading to remain free-cutting and last longer.

AVAILABILITY

TIER:	BETTER
BRAND:	Norton
TRADENAME:	FASTCUT TYPE 27
ABRASIVE:	Silicon Carbide
OTHER:	Semi-Rigid

SIZE (D X H)	GRIT	STD. PKG.	PART NO.
4-1/2 x 7/8	16	25	66261199054
7 x 7/8	16	25	66261199052

NOTE: FASTCUT DISCS MUST BE USED WITH BACK-UP PADS ABOVE







NORTON *SG*
BLAZE

Norton
BLUEFIRE

TWIN★**STAR**

MERIT



CATEGORY DEFINITION

Flap discs are versatile grinding and finishing tools, consisting of three main components: a backing plate, adhesive, and abrasive cloth flaps. The rectangular flaps are overlapped and glued to the backing plate. Flap discs are designed for right angle grinder applications ranging from heavy stock removal to surface blending.

- APPLICATIONS: Grinding, stock removal, edge chamfering/beveling, weld blending, deburring/deflashing, rust removal, blending, cleaning and finishing
- SIZE RANGE: 4": 5/8" hole
4-1/2" - 7": 5/8"-11 discard mount and 7/8" hole
- GRIT RANGE: 24 – 120
- ABRASIVE GRAIN: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide
- ABRASIVE FLAPS: Polyester or cotton
- FLAP DISC SHAPE: Type 27 Flat and Type 29 Conical
- ABRASIVE FLAP DENSITY: Standard or high
- BACKING PLATE MATERIAL: Fiberglass, plastic or aluminum

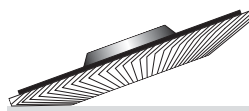
FLAP DISC SHAPES



GRIND AT FLATTER ANGLES:
0° – 15°

Type 27 Flat – The Best Choice for Finishing

- Used primarily on flat surfaces
- The best choice for blending and smooth finishing



GRIND AT STEEPER ANGLES:
15° – 25°

Type 29 Conical – The Best Choice for Aggressive Stock Removal

- Conical flap discs have angled flaps and may be used on both contoured and edge work
- The angle provides greater surface contact for stock removal on flat surfaces
- The best choice when speed and stock removal are primary considerations

ABRASIVE FLAP DENSITIES



Standard Density

- Excellent for heavy-duty applications and rapid stock removal

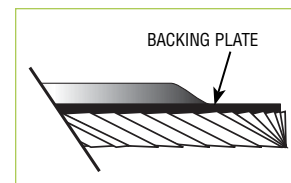


High Density

- Ideal when working on uneven or curved surfaces, as well as finer grit blending

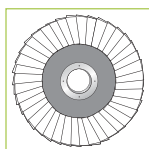
BACKING PLATE MATERIALS

All flap discs are a combination of abrasive flaps adhered to a rigid backing plate. It is the backing plate that provides stability during operation. There are three main materials used: fiberglass, plastic or aluminum. The fiberglass backing plate, along with the flap shape, helps to absorb vibration and is consumed during use with no smearing. Fiberglass is the most popular material because of its high strength and light weight. The plastic backing plate offers some additional conformability and is trimmable. The aluminum backing plate provides extra high strength and rigid support as needed. While not consumable during use, an aluminum plate can be recycled.



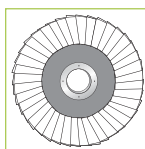
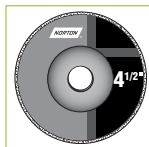
WHY CHOOSE FLAP DISCS?

Flap discs replace both grinding wheels and fiber discs. The same flap disc can be used for applications ranging from stock removal to blending.



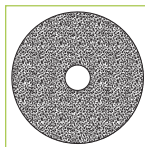
Flap Discs vs. Grinding Wheels

- Faster stock removal
- Smoother finish, no gouging
- Cooler cutting, less glazing
- Lightweight, easier to control
- Less vibration, less operator fatigue
- Reduced noise



Flap Discs vs. Fiber Discs

- 20X longer life, reduced abrasive cost
- Fewer disc changes, reduced labor cost
- More consistent finish
- No back-up pad required
- Easier storage, no curling
- Reduced loading
- Use flap discs one grit size coarser than fiber discs, except in 36 grit.

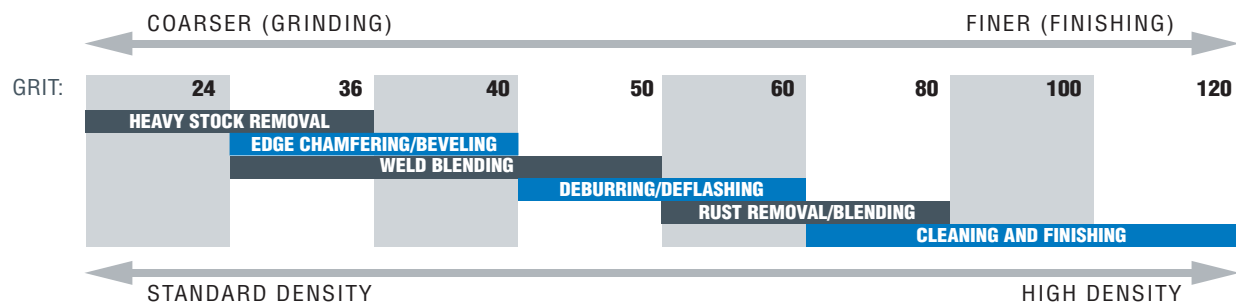




MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
TYPE 29 FOR STOCK REMOVAL			
Stainless Steel / Titanium / Super Alloys	Norton SG Blaze R980P	NorZon BlueFire R884	Merit Metal
Mild Carbon Steel / Welds	Norton TwinFiber	NorZon BlueFire R884	Merit Metal
Ferrous Metals / Cast Iron	Norton TwinFiber	NorZon BlueFire R884	Merit Metal
Brass / Bronze / Aluminum	–	NorZon BlueFire R884	Merit Silicon Carbide
Paint / Glue / Adhesive	–	–	Merit Silicon Carbide
Concrete / Stone / Fiberglass	–	–	Merit Silicon Carbide
TYPE 27 FOR BLENDING AND FINISHING			
Stainless Steel / Titanium / Super Alloys	Norton SG Blaze R980P	NorZon BlueFire R884	Merit Metal
Mild Carbon Steel / Welds	Norton TwinStar	NorZon BlueFire R884	Merit Metal
Ferrous Metals / Cast Iron	Norton TwinStar	NorZon BlueFire R884	Merit Metal
Brass / Bronze / Aluminum	–	NorZon BlueFire R884	Merit Metal

APPLICATION/GRIT RECOMMENDATION GUIDE



CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE		INITIAL PRICE	SPECIALTY	
	BEST SG Blaze R980P	TwinFiber / TwinStar	BETTER NorZon BlueFire R884	GOOD	
				Metal / Zirconia	Silicon Carbide
NORTON					
MERIT					
3M	947D	747D	563D, 546D	–	–
DeWalt	–	–	–	Z/A	–
Camel	–	C3	Z-Stainless	Z3, A3	SC
Flexovit	–	–	–	Zircotex Premium, Zircotex HP	–
Garryson	–	–	Zirc+, Zirconium	Aluminum Oxide	–
GemTex	–	Ceramic	–	Zirconia, A/O	–
Hermes	–	–	–	–	–
Klingspor	–	–	SMT 630	SMT 618, 619, 624, 626, 627, 628, 640	–
Metabo	–	–	–	Z/A	–
Pearl	–	Stainless Max	Zirconia Premium, TuffMax	Z/A Silver Line, Premium A/O Classic, Silver Line	SC
Pferd	–	Ceramic	Cool Zirconia, CO-COOL	Zirconia, Cool Aluminum Oxide, Aluminum Oxide	Masonry Silicon Carbide
Sait	–	–	Z	2A, 3A	–
SIA	–	–	–	Z/A	–
Standard	–	Ceramic Oxide	Zirconia Pro	Zirconia	–
Tyrolit	–	–	Z/A	A/O	–
Walter	–	–	Enduro Flex	–	–
Weiler	–	Saber Tooth Ceramic	–	Tiger Zirconium, A/O, Vortec	–



FEATURED PRODUCTS



IMPROVED

NORTON SG BLAZE R980P / QUICK TRIM NORTON SG BLAZE R980P

BEST/HIGHEST PRODUCTIVITY FOR STAINLESS STEEL, TITANIUM, AND SUPER ALLOYS

FEATURES

- Latest-generation ceramic alumina abrasive grain
- Supersize grinding aid
- Y-weight polyester flaps
- Durable fiberglass back
- New orange, flexible plastic backing plate on Type 27 Quick Trim

BENEFITS

- Last 50% – 200% longer than any flap discs on stainless steel, cobalt, chrome, Inconel, titanium and other hard-to-grind materials
- Cool, noticeably fast cut rate
- Significantly improve life, grain retention and fray resistance
- High strength, lightweight, absorbs vibration
- New industry standard for trimmability



IMPROVED

TWINFIBER / TWINSTAR

BEST/HIGH PRODUCTIVITY FOR MILD CARBON STEEL, AND FERROUS METALS

FEATURES

- New, premium ceramic and zirconia alumina abrasive blend
- Durable, fiberglass back (Type 29 TwinFiber)
- New plastic backing plate material (Type 27 TwinStar)

BENEFITS

- Excellent performance and efficiencies on mild carbon steel and ferrous metal/cast iron applications
- High strength, lightweight, absorbs vibration
- New industry standard for trimmability

NEW



NEW

NORZON BLUEFIRE R884

BETTER CHOICE FOR MILD CARBON STEEL, AND WELD

FEATURES

- High performance zirconia alumina plus abrasive
- Polyester flaps
- Durable, fiberglass back
- Semi-open coat

BENEFITS

- Aggressive cut and long life
- Up to 30% longer life than competitive zirconia alumina products
- Improved durability
- High strength, lightweight, absorbs vibration
- Retards loading on aluminum



NEW

MERIT METAL

GOOD CHOICE FOR STAINLESS STEEL, CAST IRON, AND ALUMINUM

FEATURES

- Quality zirconia alumina abrasive
- Engineered blend of X-weight cotton and Y-weight polyester flaps
- Durable, fiberglass back
- Competitive initial price point

BENEFITS

- Good cut rate and life
- Type 29 for hard to grind materials
- Type 27 for softer materials
- Longer life and wear resistance
- High strength, lightweight, absorbs vibration
- Best starting specification for end-user unable to measure performance



NEW

MERIT SILICON CARBIDE

GOOD CHOICE FOR BRASS, BRONZE AND NONMETALS

FEATURES

- Silicon carbide abrasive
- Durable, fiberglass back
- Competitive initial price point

BENEFITS

- Good for very soft (aluminum) to very hard (concrete) materials
- High strength, lightweight, absorbs vibration
- Ideal starting specification for end-user unable to measure performance



AVAILABILITY

TIER:	BEST	BEST	BEST	BEST	BEST
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	SG BLAZE R980P	SG BLAZE R980P	TWINSTAR	SG BLAZE R980P	TWINFIBER
SHAPE:	Type 27 Flat	Type 27 Flat	Type 27 Flat	Type 29 Conical	Type 29 Conical
FLAP DENSITY:	Standard	Standard	Standard	Standard	Standard
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina/ Zirconia Alumina	Ceramic Alumina	Ceramic Alumina/ Zirconia Alumina
BACKING PLATE:	Fiberglass	Quick Trim Plastic	Quick Trim Plastic/*Plastic	Fiberglass	Fiberglass
OTHER:	Supersize	Supersize		Supersize	

SIZE (D X H)	GRIT	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
4 x 5/8	40	15,300	10			63642536153*		
	60				63642536154*			
	80				63642536155*			
	120							
4-1/2 x 5/8-11	36	13,300	10	66261100005	66254400257	63642536147•	66261183490	63642536156•
	40			66261100006	66254400258	63642536148•	66261183491	63642536157•
	60			66261100007	66254400259	63642536149•	66261183492	63642536158•
	80			66261100008	66254400261		66261183493	63642536158•
	120							63642597115•
4-1/2 x 7/8	36	13,300	10	66261100001	66254400253	63642504876*	66261183486	63642504329
	40			66261100002	66254400254	63642504877*	66261183487	63642504330
	60			66261100003	66254400255	63642504878*	66261183488	63642504331
	80			66261100004	66254400256	63642504879*	66261183489	63642504332
	120					63642505279*		63642504333
5 x 7/8	36	12,000	10	66261100009	66254400262	63642505281*	66261190001	
	40			66261100010	66254400264	63642505282*	66261190002	
	60			66261100011	66254400265	63642505283*	66261190003	
	80			66261100012	66254400519	63642505284*	66261190004	
	120					63642505285*		
5 x 5/8-11	40	12,000	5			66254491941		
	60				66254491942			
	80				66254491943			
6 x 7/8	40	10,200	10					63642541406
	60						63642541407	
	80						63642541408	
	120							
7 x 5/8-11	36	8,600	10	66261100017	66254461066	63642536150•	66261183498	63642536159•
	40			66261100018	66254461067	63642536151•	66261183499	63642536160•
	60			66261100019	66254461068	63642536152•	66261183500	63642536161•
	80			66261100020	66254461069		66261183501	
	120							
7 x 7/8	36	8,600	10	66261100013	66254461059	63642504880*	66261183494	63642504334
	40			66261100014	66254461060	63642504881*	66261183495	63642504335
	60			66261100015	66254461061	63642504882*	66261183496	63642504336
	80			66261100016	66254461063	63642504883*	66261183497	63642504337
	120							63642504338

* 5/8-11 (HUBBED) TWINSTAR AND TWINFIBER FLAP DISC STD. PKG. QUANTITY = 5



New Trimmable, Flexible Plastic Backing Plate

Quick Trim Norton SG Blaze R980P and TwinStar

New higher-performance abrasive flaps are mounted on our new flexible, easily-trimmable plastic backing plate. For custom sizes or to fully use the flaps, the new Quick Trim flap discs are the answer. Available in 7/8" hole or our industry standard 5/8-11 mini mount that ensures maximum safety for all right angle grinders.



AVAILABILITY



TIER:	BETTER	BETTER
BRAND:	Norton	Norton
TRADENAME:	NORZON BLUEFIRE R884	NORZON BLUEFIRE R884
SHAPE:	Type 27 Flat	Type 29 Conical
FLAP DENSITY:	Standard	Standard
ABRASIVE:	Zirconia Alumina Plus	Zirconia Alumina Plus
BACKING PLATE:	Fiberglass	Fiberglass

SIZE (D X H)	GRIT	MAX. RPM	STD. PKG.	PART NO.	PART NO.
4-1/2 x 5/8-11	36	13,300	10	66254461202	66254461165
	40			66254461203	66254461167
	60			66254461204	66254461170
	80			66254461206	66254461173
4-1/2 x 7/8	36	13,300	10	66254461196	66254461155
	40			66254461197	66254461161
	60			66254461198	66254461163
	80			66254461200	66254461164
5 x 7/8	36	12,000	10	66254461208	66254461174
	40			66254461209	66254461176
	60			66254461210	66254461177
	80			66254461212	66254461178
7 x 5/8-11	36	8,600	10	66254461219	66254461188
	40			66254461221	66254461190
	60			66254461223	66254461192
	80			66254461225	66254461193
7 x 7/8	36	8,600	10	66254461213	66254461180
	40			66254461215	66254461183
	60			66254461216	66254461185
	80			66254461217	66254461186

When You Want Fast and Tough, You Want Norton

Whether you want maximum productivity or simply the lowest initial cost solution, Norton and Merit have the product for all your right angle grinding and blending applications.



BEST Norton SG Blaze

Highest Productivity, Lowest Total Cost

Latest-generation ceramic alumina abrasive provides the industry's fastest cutting discs and 50-200% longer life over any flap disc on stainless, titanium, and super alloys.



BETTER NorZon BlueFire

Exceptional Blend of Performance and Price

New zirconia alumina plus abrasive for an increased cut rate and up to 30% longer life over conventional zirconia products on carbon steel and welds.



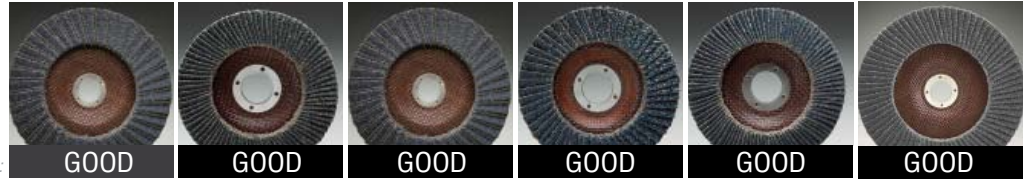
GOOD Merit Metal

Good Performance, Low Initial Price

Engineered blend of two high performance zirconia products provides the best starting specification when price is primary consideration.



AVAILABILITY



TIER:	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD
BRAND:	Merit	Merit	Merit	Merit	Merit	Merit
TRADENAME:	METAL	ZIRCONIA	METAL	ZIRCONIA	ZIRCONIA	SILICON CARBIDE
SHAPE:	Type 27 Flat	Type 27 Flat	Type 29 Conical	Type 29 Conical	Type 29 Conical	Type 29 Conical
FLAP DENSITY:	Standard	High	Standard	Standard	High	Standard
ABRASIVE:	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina	Silicon Carbide
BACKING PLATE:	Fiberglass	Fiberglass	Fiberglass	Fiberglass	Fiberglass	Fiberglass

SIZE (D X H)	GRIT	MAX. RPM*	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
4 x 5/8	24	15,300	10				08834193722		
	36					08834193630			
	40					08834193645			
	60					08834193631			
	80					08834193632			
	120					08834193646			
4-1/2 x 5/8-11	24	13,300	10		08834191969		08834193726		
	36			66254472655	08834199749	66254419991	08834193679	08834194447	
	40			66254437013	08834194731	66254419994	08834193680	08834193906	
	60			66254472656	08834199750	66254419996	08834193681	66261044504	66254460664
	80			66254448989	08834190330	66254419997	08834193682	66261044505	08834196277
	120			66254472657	08834191941		08834193683	66261044506	08834196275
4-1/2 x 7/8	24	13,300	10		08834194834		08834193723	08834194833	
	36			66254472653	08834192985	66254419963	08834193633	08834191427	
	40			66254437004	08834190172	66254419978	08834193647	08834190726	
	60			66254448989	08834190767	66254419984	08834193634	08834190175	66254460663
	80			66254448990	08834194360	66254419987	08834193635	08834190924	08834195676
	120				08834194841		08834193648	08834190995	08834195677
5 x 5/8-11	24	12,000	10				08834193727		
	36					08834193684			
	40					08834193685			
	60					08834193686			
	80					08834193687			
	120					08834193688			
5 x 7/8	24	12,000	10				08834193724		
	36			66254472659		66254419998	08834193649		
	40			66254472660	08834190074	66254420001	08834193650		
	60			66254472661	08834190376	66254420002	08834193651	08834190876	66254460694
	80			66254472662	08834192269	66254420003	08834193652	08834190405	66254460463
	120				08834192299		08834193653	08834192209	66254460464
6 x 5/8-11	24	10,200	10				66254407155		
	36					66254407157			
	40			66254491773		66254491779	66254407158		
	60			66254491774		66254491780	66254407159		
	80			66254491775		66254491781	66254407160		
	120						66254407161		
6 x 7/8	24	10,200	10				66261095708		
	36					66261095711			
	40			66254491770		66254491776	66261095716		
	60			66254491771		66254491777	66261095717		
	80			66254491772		66254491778	66261095718		
	120						66261095719		
7 x 5/8-11	24	8,600	10		08834191986		08834193728		
	36			66254472669	08834195073	66254420009	08834193689	08834193830	
	40			66254472670	08834191043	66254420010	08834193690	66261044540	
	60			66254472671	08834197227	66254420012	08834193691	08834199751	66254460666
	80			66254472672	08834191674	66254420013	08834193692	08834192896	08834197186
	120				08834191987		08834193693	66261044541	08834197187
7 x 7/8	24	8,600	10		08834194831		08834193725	08834190877	
	36			66254472664	08834194361	66254420004	08834193636	08834190878	
	40			66254472665	08834190933	66254420006	08834193654	08834192059	
	60			66254472666	08834194514	66254420007	08834193637	08834196985	66254460665
	80			66254472667	08834194362	66254420008	08834193638	08834196986	08834195705
	120				08834194832		08834193655	08834196988	66254460462

* MAX RPM FOR MERIT ZIRCONIA HIGH DENSITY FLAP DISCS IS 13,000



20X High Performance

- Zirconia alumina abrasive disc, packaged for retail/walk-in selling
- Individual hang card provides product selling points
- Product ships in merchandisable display case of small quantities



AVAILABILITY

TIER:	BEST
BRAND:	Norton
TRADENAME:	20X
SHAPE:	Type 29
FLAP DENSITY:	Standard
ABRASIVE:	Zirconia Alumina Plus
BACKING PLATE:	Fiberglass

SIZE (D X H)	GRIT	MAX. RPM	STD. PKG.	PART NO.
4 x 3/8-24	40	15,300	5	07660703214
	60			07660703215
	80			07660703216
4-1/2 x 5/8-11	40	13,300	5	07660703211
	60			07660703212
	80			07660703213
7 x 5/8-11	40	8,600	5	07660703205
	60			07660703206
	80			07660703207
Wire Rack			2	07660704157

Wire rack (with header card) allows merchandising of 4" and 4-1/2" product three ways: hung on pegboard, mounted on an upright, or placed on a shelf/counter



Merit Mini Flap Discs



- High performance zirconia alumina abrasive provides maximum cut rate and life
- Layered flaps wear away evenly, producing a high quality and consistent finish

AVAILABILITY

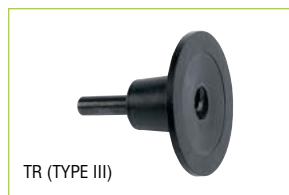
TIER:	BETTER	BETTER
ABRASIVE:	Zirconia Alumina	Zirconia Alumina
FLAP:	Cotton	Cotton
BACKING MATERIAL:	Extra Heavy Duty Plastic	Extra Heavy Duty Plastic
ATTACHMENT:	TS (Type II)	TR (Type III)



SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.
2"	36	10	08834195020	08834194550
	40		08834195021	08834194551
	60		08834195022	08834194552
	80		08834195023	08834194553
	120		08834195024	08834194554
3"	36	10	08834195035	08834194563
	40		08834195036	08834194564
	60		08834195037	08834194565
	80		08834195038	08834194566
	120		08834195039	08834194567



TS (TYPE II)



TR (TYPE III)

DESCRIPTION	STD. PKG.	MAX. RPM	PART NO.
MINI FLAP DISC BACK-UP PADS			
2" & 3" TS (Type II) Back-up Pads	1	30,000	08834168539
2" & 3" TR (Type III) Back-up Pads	1	30,000	08834160172



DRYice®



NORTON
GOLDA290™



CATEGORY DEFINITION

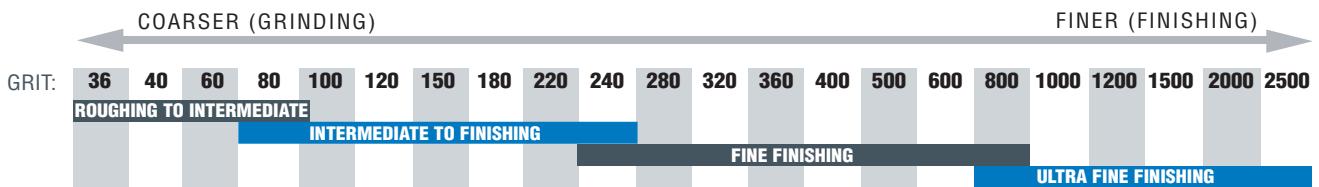
For use on random orbital and rotary sanders. The industry's highest performing and broadest selection of paper discs in PSA (pressure sensitive adhesive) disc rolls, individual discs, and hook and loop discs.

APPLICATIONS:	Stripping and preparing primed and painted surfaces for finishing, sanding of plastics, fiberglass and composites, bare wood sanding, light weld blending, preparing and finishing metal, and sanding of all gel coat and body filler compounds
SIZE RANGE:	3" – 8"
GRIT RANGE:	36 – 2500
ABRASIVE GRAIN:	Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide
ATTACHMENT SYSTEMS:	PSA (pressure-sensitive adhesive), hook and loop
PAPER WEIGHTS:	Heavyweight – E and F Lightweight – A, B and C
VACUUM HOLES:	See product availability charts

MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

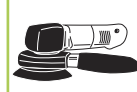
	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST		BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE		GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE	
	Heavy-Medium Stock Removal	Light Stock Removal-Finishing	Heavy-Medium Stock Removal	Light Stock Removal-Finishing	Heavy-Medium Stock Removal	Light Stock Removal-Finishing
Primed, Painted Surfaces		A975	H875	A275	H290	PB273
Fiberglass / Composites / Gel Coats		A975	H875	A275	H290	PB273
Wood		A975	H875	A275	H290	PB273
Metal	H920	A975	H822	A275	H290	PB273
Body Fillers / Compounds / Plastics		A975	H875	A275	H290	PB273

APPLICATION/GRIT RECOMMENDATION GUIDE



CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE						INITIAL PRICE			
	BEST		BETTER				GOOD			
<i>NORTON</i>	Heavy-Wt. Norton SG H920	Light-Wt. Norton SG A975	Heavy-Wt. NorZon Plus H822	Heavy-Wt. NorZon Plus H875	Light-Wt. Adalox A275	Light-Wt. Adalox A270	Light-Wt. Durite A475	Heavy-Wt. Adalox H290	Light-Wt. Adalox A290	Light-Wt. Merit PB273
3M	763U, 7511	734U, 735U, 765L	–	750U, 751U, 740I, 745I	216U, 255L, 260L, 334U	210U, 268L, 360L	414N, 415N 405N, 415U, 435U	363I	236U	214U, 316U Red
Hermes	CB115	–	BW 115	–	VC154-LL	VC152	PSF-LL, SF168	VC152	HCAB-LL, HC135, VC151-LL	–
Indasa	–	–	–	–	RedLine	–	–	–	–	WhiteLine
Klingspor	–	PS36	PS20, PS21, PS22	–	PS33	–	PL35	–	PS33	PL36
Mirka	–	–	–	Royal Coarse Cut	Q-Silver, Royal, Silver Royal Micro	–	CaratFlex, PolarStar	–	Bulldog Gold	Carat (B)
SIA	–	1950	1820, 1919	1820, 1919	1940, 1950	–	1748	–	1947	–
VSM	–	–	–	KP510E, KP709	MPG	–	CP131A	–	KP911	MP10



FEATURED PRODUCTS



NORTON SG H920
BEST CHOICE FOR MORE DEMANDING STOCK REMOVAL APPLICATIONS

FEATURES

- Patented Norton SG ceramic alumina abrasive
- Strong, heavy F-weight paper, synthetically-coated

BENEFITS

- Maximum life; fast aggressive cutting action, yet cool cutting
- Maximum durability and chip resistance, ideal for soldered and welded areas, and unpainted metal applications



NO-FIL DRYICE NORTON SG A975
BEST CHOICE FOR THE MOST DEMANDING SANDING APPLICATIONS

FEATURES

- Patented P-graded Norton SG ceramic alumina abrasive
- Unique fiber-reinforced, flexible B- and C-wt. latex-saturated backing
- Water-based No-Fil stearate, non-pigmented

BENEFITS

- Fastest cut rate; longest life of any paper disc
- 50-60% improvement in tear strength, longer life in all applications
- Flexible; can be used wet
- Provides maximum load resistance and extended life; no color transfer



NORZON H875
BETTER CHOICE FOR SOFT MATERIAL APPLICATIONS

FEATURES

- Patented NorZon zirconia alumina abrasive
- Strong, heavy, E-weight paper
- Open coat design

BENEFITS

- Extended life over original zirconia alumina products
- Improved cut rate
- Increased durability and chip resistance, flexible
- Reduced loading; ideal for body-filler, fiberglass and composites



NO-FIL ADALOX A275
BETTER CHOICE FOR HIGH-PERFORMANCE DRY FINISHING ON ALL MATERIALS

FEATURES

- Premium P-graded, heat-treated aluminum oxide abrasive
- Unique fiber-reinforced, flexible B-weight latex-saturated backing
- Water-based stearate, non-pigmented, No-Fil coating
- 5" and 6" individual PSA discs in fine grits have a tabbed, white translucent liner

BENEFITS

- Superior life, fast cut rate, consistent finish
- 50-60% improvement in tear strength
- Flexible; can be used wet
- Provides maximum load resistance and extended life; no color transfer to work
- The PSA adhesive is protected from air-borne contaminants
- The tab allows easier removal of the paper liner



NEW

NO-FIL DURITE A475
BETTER CHOICE FOR HARD-TO-SAND SURFACES AND WOOD APPLICATIONS

FEATURES

- P-graded, hard, silicon carbide abrasive
- Water-based stearate, non-pigmented, No-Fil coating
- Durable, fiber-reinforced, B-wt. latex paper

BENEFITS

- Easy penetration of the hardest surfaces
- Resists loading for the longest usable product life; no color transfer to work
- Provides flexibility and resistance to tearing



NEW

MERIT PB273
GOOD CHOICE FOR SANDING PAINT, PRIMER, PLASTICS, FIBERGLASS, AND WHITEWOOD AT A LOW INITIAL PRICE

FEATURES

- P-graded, aluminum oxide abrasive
- Flexible latex B-wt. backing, with a full resin bond and open coat
- Water-based stearate, non-pigmented, No-Fil coating

BENEFITS

- Fast cutting action and extended life with consistent finish
- Improved resistance to delamination; no delamination to back-up pad
- Can be used moist or wet
- Provides improved load resistance
- No color transfer to work



AVAILABILITY
STICK AND SAND (PSA)
DISC ROLLS
NON-VACUUM

BEST	BETTER	BETTER	BETTER	GOOD	GOOD
TIER: Norton	Norton	Norton	Norton	Norton	Merit
BRAND: A975	A275	A270	A475	A290	PB273
CAP CODE: Ceramic Alumina	Aluminum Oxide	Aluminum Oxide	Silicon Carbide	Aluminum Oxide	Aluminum Oxide
ABRASIVE: Lightweight	Lightweight	Lightweight	Lightweight	Lightweight	Lightweight
PAPER BACKING WEIGHT: P-Graded	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded
OTHER:					

SIZE	GRIT	ROLLS/ STD. PKG.	DISCS/ ROLL	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
3-1/2	80	4	100		66261136376				
	120			66261136375					
	180			66261136373					
	220			66261136372					
	320			66261136369					
	400			66261136368					
5	60	4	100					66261149831	
	80			66261140502	66261131464*		66254487415	66261149830	66623362930
	100			66261140501	66261131463*		66254487417	66261149829	66623371920
	120			66261140500	66261131462*		66254487418	66261149828	66623362929
	150			66261140499	66261131461*		66254487440	66261149827	66623362928
	180			66261140498	66261131460*		66254487441	66261149826	66623362927
	220			66261142474	66261131459*	66261127463	66254487442	66261149825	66623362926
	240			66261155380	66261131458*		66254487443	66261149824	66623362925
	280			66261155379	66261131457*			66261149823	
	320			66261155378	66261131456*	66261127465	66254487444	66261149822	66623362924
	400			66261155377	66261131454*	66261127466		66261149821	66623362923
	500				66261131453*	66261127467			
	600				66261131452*				66623362922
	800				66261131451*				66623362921
	6			60	4	100			
80		66261140512	66261131481*				66254487446	66261149842	66623362940
100		66261140511	66261131480*					66261149841	
120		66261140510	66261131479*				66254487447	66261149840	66623362939
150		66261140509	66261131478*					66261149839	66623362938
180		66261140508	66261131477*				66254487448	66261149838	66623362937
220		66261148340	66261131476*	66261127473			66254487449	66261149837	66623362936
240		66261155376	66261131475*					66261149836	66623362935
280		66261155375	66261131474*					66261149835	
320		66261155374	66261131473*				66254487450	66261149834	66623362934
360			66261141198*						
400		66261155373	66261131471*					66261149833	66623362933
500			66261131470*						
600			66261131469*						66623362932
800			66261131468*						66623362931
8	80	4	100		66261131617				
	120			66261131615					
	150			66261131614					
	180			66261131613					
	220			66261131612					
	320			66261131609					

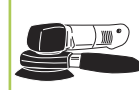
* PACKAGING STANDARDS A275 = 6/100



PSA Disc Roll Dispenser

- Norton disc roll dispensers feature heavy-duty construction and a rubberized finish to protect your product, as well as the finish on your workpiece
- These versatile dispensers are designed to accommodate any 5" or 6" disc roll or sheet roll
- They can be attached to a wall or stacked for multi-grit or multi-diameter operations
- Discs are individually dispensed and removed from the roll by a cutter bar

DESCRIPTION	STD. PKG.	PART NO
PSA DISC ROLL DISPENSER		
Single Disc Roll Dispenser	1	63642542772
Double Disc Roll Dispenser (shown)	1	63642502981



AVAILABILITY
STICK AND SAND (PSA)
DISC ROLLS
NON-VACUUM



TIER:	BEST	BETTER	BETTER
BRAND:	Norton	Norton	Norton
CAP CODE:	H920	H822	H875
ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Zirconia Alumina
PAPER BACKING WEIGHT:	Heavyweight	Heavyweight	Heavyweight

SIZE	GRIT	ROLLS/ STD. PKG.	DISCS/ ROLL	PART NO.	PART NO.	PART NO.
5	60	4	100	66261149873	66261137310	66261124977 66261125597
	80			66261149872	66261137309	
	100			66261149871	66261137308	
	120			66261149870	66261137307	
	150				66261137306	
6	60	4	100	66261149876	66261137323	66261125573
	80			66261149874	66261137322	
	120					
8	100	4	50	66261149879		
	120			4	100	66261137333

AVAILABILITY
STICK AND SAND (PSA)
DISC ROLLS – VACUUM



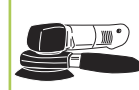
TIER:	BETTER	GOOD
BRAND:	Norton	Norton
CAP CODE:	A275	A290
ABRASIVE:	Aluminum Oxide	Aluminum Oxide
PAPER BACKING WEIGHT:	Lightweight	Lightweight
OTHER:	P-Graded	P-Graded

SIZE	GRIT	ROLLS/ STD. PKG.	DISCS/ ROLL	PART NO.	ROLLS/ STD. PKG.	DISCS/ ROLL	PART NO.
5	60	6	100	66261131498	4	100	66261130266
	80			66261131497			66261130265
	100			66261131496			66261130264
	120			66261131495			66261130263
	150			66261131494			66261130262
	180			66261131493			66261130261
	220			66261131492			66261130260
	240			66261131490			66261130259
	320			66261131488			66261130258
	400			66261131487			
	500			66261131485			
	800						
6	80	6	100	66261131515	4	100	66261130276
	100			66261131514			66261130275
	120			66261131513			66261130274
	150			66261131512			66261130273
	180			66261131511			66261130272
	220			66261131510			66261130271
	240			66261131509			
	280			66261131508			
	320			66261131507			
	400			66261131505			66261130268
	600			66261131503			

Refer to the end of this section for back-up pads and accessories.

PAPER DISCS

MACHINES USED



AVAILABILITY
HOOK AND LOOP
NON-VACUUM

BEST	BEST	BETTER	BETTER	BETTER	GOOD	GOOD
TIER:	Norton	Norton	Norton	Norton	Merit	Norton
BRAND:	H920	A975	H875	A275	A475	A290
CAP CODE:	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina	Aluminum Oxide	Silicon Carbide	Aluminum Oxide
ABRASIVE:	Heavyweight	Lightweight	Heavyweight	Lightweight	Lightweight	Lightweight
PAPER BACKING WEIGHT:		P-Graded		P-Graded	P-Graded	P-Graded
OTHER						

SIZE	GRIT	MIN./ STD PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
3	80	50/200				66261131532			
	100					66261144926			
	120					66261128688			
	150					66261140385			
	180					66261131528			
	220					66261131527			
	240					66261131526			
	320					66261131524			
	400					66261136995			
	500					66261131521			
	600					66261136996			
	800					66261131519			
	1000					66261135900			
	1500					66261147434			
	5		40	25/100			66261125684		
60		100/400	66261149864*						66261130224
80			66261149865*	66261140522‡	66261125444•	66261131549	66623362950	66261149907	
100			66261149866*	66261140521‡		66261131548	66623362788	66261149906	
120			66261149867*	66261140520‡		66261131547	66623362949	66261149905	
150				66261140519‡		66261131546	66623362948	66261149904	
180				66261140518‡		66261131545	66623362947	66261149903	
220				66261149541‡		66261131544	66623362946	66261149902	
240						66261131543	66623362945		
280						66261131542			
320				66261149538‡		66261131541	66623362944	66261149900	
400				66261149537‡		66261131539	66623362943	66261149899	
500						66261131538	66261052270		
600						66261131537	66254421221	66623362942	
800						66261131536	66261052267	66623362941	
1000						66261131535	66261052254		
1200						66261131534			
1500						66261131533			
6	36	25/100			66261123590				
	40				66261123589				
	80	100/400		66261140532‡	66261123588•	66261131566	66623362960	66261149916	
	100			66261140531‡		66261131565	66623365789	66261149915	
	120			66261140530‡		66261131564	66623362959	66261149914	
	150			66261140529‡		66261131563	66623362958	66261149913	
	180			66261140528‡		66261131562	66623362957	66261149912	
	220			66261149546‡		66261131561	66623362956	66261149911	
	240					66261131560	66623362955		
	280					66261131559		66261149910	
	320			66261149543‡		66261131558	66623362954	66261149909	
	400			66261149542‡		66261131556	66623362953	66261149908	
	500					66261131555	66261052269		
	600					66261131554		66623362952	
	800					66261131553	66261052268	66623362951	
	1000					66261131552	66261052255		
	1200					66261131551			
	1500					66261131550			
8	36	25/100			66261123593				
	40				66261123592				
	60	50/250	66261149894						
	80	25/100			66261123591				
	100	50/250	66261149896						
	120	100/400							
	180					66261131662			

PACKAGING STANDARDS: MIN. / STD. PKG.

- * H920 = 50/250
- ‡ A975, A975 VACUUM, A290 VACUUM = 50/200
- H875 = 25/100

Refer to the end of this section for back-up pads and accessories.



AVAILABILITY
HOOK AND LOOP
VACUUM

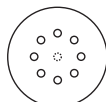
TIER:	BEST	BETTER	BETTER	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Merit
CAP CODE:	A975	H875	A275	A290	A290	PB273
ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
PAPER BACKING WEIGHT:	Lightweight	Heavyweight	Lightweight	Lightweight	Heavyweight	Lightweight
OTHER:	P-Graded		P-Graded	P-Graded	P-Graded	P-Graded

SIZE	GRIT	MIN./ STD PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
			5 IN. X 5 HOLE DIE #3328		5 IN. X 5 HOLE DIE #3328	5 IN. X 5 HOLE DIE #3328	5 IN. X 8 HOLE DIE #3392	5 IN. X 8 HOLE DIE #3392
5	60	100/400				66261130236‡	66261130245‡	
	80		66261140517‡		66261131583	66261130235‡	66261130244‡	66623366071
	100				66261131582	66261130234‡	66261130243‡	
	120		66261140515‡		66261131581	66261130233‡	66261130242‡	66623369778
	150				66261131580	66261130232‡	66261130241‡	66623366073
	180				66261131579	66261130231‡	66261130240‡	66623366074
	220				66261131578	66261130230‡	66261130239‡	66623366075
	240				66261131577			
	280				66261131576			
	320				66261131575	66261130227‡	66261130238‡	66623366077
	400				66261131573	66261130226‡		
	600				66261131571			
			6 IN. X 6 HOLE DIE #3371		6 IN. X 6 HOLE DIE #3371	6 IN. X 6 HOLE DIE #3371		
6	80	100/400	66261140527‡		66261131600	66261130255‡		
	100		66261140526‡		66261131599			
	120				66261131598	66261130253‡		
	150				66261131597			
	180				66261131596			
	220				66261131595	66261130250‡		
	280				66261131593			
	320		66261149553‡		66261131592			
	400				66261131590			
	600				66261131588			
	800				66261131587			
			8 IN. X 8 HOLE DIE #3370					
8	36	25/100			66261123598			
	80				66261123596			

PACKAGING STANDARDS: ‡ A975, A975 VACUUM, A290 VACUUM = 50/200

New for Fein/Festo Sanders

High-performance abrasives for high performance sanders. Now available: Norton SG A975 discs with center vacuum hole for Fein and Festo random orbital sanders.



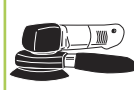
6 IN. X 9 HOLE
DIE #3408-2



BEST

TIER:	Norton
BRAND:	A975
ABRASIVE:	Ceramic Alumina
PAPER BACKING WEIGHT:	Lightweight
OTHER:	P-Graded

SIZE	GRIT	STD. PKG.	PART NO.
6	80	50/200	07660705489
	100		07660705488
	120		07660705487
	150		07660705486
	180		07660705485
	220		07660705484
	320		07660705483



AVAILABILITY
INDIVIDUAL DISCS

TIER:	BETTER	BETTER	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Merit
CAP CODE:	H875	H875	A275	H290	PB273
ABRASIVE:	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
PAPER BACKING WEIGHT:	Heavyweight	Heavyweight	Lightweight	Heavyweight	Lightweight
FASTENING:	PSA	PSA Vacuum	PSA Tabbed	PSA	PSA Tabbed
OTHER:			P-Graded	P-Graded	P-Graded

SIZE	GRIT	MIN./ STD PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
				 5" X 5 HOLE DIE #3328			
5	36 40 80 100 120 150 180 220 240 320 400 600 800 1000 1200	50/200 100/400	66261125436 66261125307 66261125244	66261124919			69957348198‡ 69957348200 69957348201 69957348202 69957348203 69957348204 69957348205 69957348206 69957348207 69957348223 69957348224
				 6" X 6 HOLE DIE #3371			
6	36 40 80 1000 1200 1500	50/200 100/400	66261123575 66261123574 66261123573	66261123580	66261131467 66261131466 66261131465	66261130834‡ 66261130833‡ 66261130832‡	
				 8" X 8 HOLE DIE #3370			
8	36 40 80	25/100	66261123578 66261123577 66261123576	66261123584 66261123582		66261130827• 66261130826•	

PACKAGING STANDARDS:
MIN. / STD. PKG.
• H290 = 50/200
‡ H290 AND PB273 = 100/400

Refer to the end of this section for back-up pads and accessories.



FEATURED PRODUCTS



MULTI-AIR HOOK AND LOOP VACUUM
LESS DUST; MORE PRODUCTIVITY

FEATURES

- Revolutionary design for maximum vacuum assist
- Cutting surface of disc remains clean
- Highly-engineered back-up pad
- Unique SoftTouch discs on durable foam in fine grits

BENEFITS

- 30% increase in dust extraction; clogging is virtually eliminated
- Cleaner working environment; less dust and contamination
- 35% increase in productivity versus traditional vacuum systems
- No clogging; consistent cut throughout the life of the disc
- Revolutionary style for maximum dust extraction
- Sand over contours without cutting through
- Color-coded by grit size for easy identification

AVAILABILITY
HOOK AND LOOP
VACUUM

TIER:	BEST	BEST	BETTER	BETTER	BETTER	BETTER
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton
CAP CODE:	A975	H835	A275	A270	A475	A275 SOFTTOUCH
ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Aluminum Oxide	Aluminum Oxide	Silicon Carbide	Aluminum Oxide
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded

SIZE	GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	
5 x 11/16	80	100/400	63642563535						
	120		63642563536						
	150		63642563537					66254469673 NS	
	180		63642563538					66254469674 NS	
	220		63642563539						
	240		63642563540						
	280		63642563541 NS						
	320		63642563542			63642563520	66261071087 NS		
	360					63642563521 NS			
	400		63642563543			63642563522	66261029749 NS		
	500					63642563523	66261029750 NS		
	600					63642563524 NS	66254469392 NS		
	800					63642563525	66254412761 NS		
1000					66254476828 NS				
6 x 11/16	80	50/200	63642506243	66261181412					
	80	100/400			63642560561				
	100		66254412469 NS						
	120		63642506244*		63642560562 NS				
	150		63642506245*		63642560563		66254469675 NS		
	180		63642506246*		63642560564		66254469677 NS		
	220		63642506247*		63642560565				
	240		63642506248*		63642560566				
	280		63642506249*		63642560567				
	320		63642506250*		63642560568				
	360				63642560569 NS				
	400		63642506251*		63642560570		66261052264 NS		
	500		63642506252*		63642560571				
	600		63642506253*		63642560572		66254433565 NS		
	800		63642506254*		63642560573		66261052257 NS		
800	20/80						63642560577		
1000						66261052256 NS			
1000	20/80						63642560578		
1500							63642560579		
8 x 3/4	80	100/400	66254460398 NS		66254460406 NS				
	100		66254460399 NS		66254460407 NS				
	120		66254460400 NS		66254460408 NS				
	150		66254460401 NS		66254460410 NS				
	180		66254460403 NS		66254460412 NS				
	220		66254460404 NS		66254460413 NS				
	240		66254460405 NS		66254460414 NS				
	280					66254460415 NS			
	320					66254460416 NS			

PACKAGING STANDARDS: NS NON-STOCK: 5" AND 6" DISCS – MINIMUM QUANTITY = 2,000 DISCS, AND 8" DISCS – MINIMUM QUANTITY = 1,200 DISCS ,
*A975 6" DISCS: MIN./STD. PKG. - 50/200



NEW



Multi-Air Foam Interface Pads

- Allow sanding of contours and improve surface finish.
- Use with fine grit hook and loop Multi-Air sanding discs.
- Use with Multi-Air back-up pads.
- Not for use with Multi-Air SoftTouch discs.

DESCRIPTION	STD. PKG.	PART NO.
MULTI-AIR INTERFACE PADS		
5" Pad	16	63642585864
6" Pad	12	07660719359
8" Pad	10	07660782019

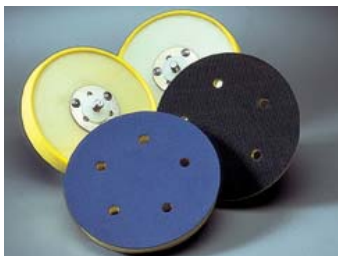
IMPROVED



Multi-Air Hook and Loop Back-up Pads with Vacuum Holes

- Multi-Air back-up pads are engineered to work as a system with our Multi-Air discs to enhance the performance of the discs by aligning with the discs' holes maximizing dust extraction and life of the discs.
- These pads are recommended for all Multi-Air applications.
- Pads have longer hooks for maximum hold.

DESCRIPTION	STD. PKG.	PART NO.
MULTI-AIR BACK-UP PADS WITH VACUUM HOLES		
5" (125mm) with 5/16"-24 Shank, Foam Laminate Pad	1	63642582249
6" (150mm) with 5/16"-24 Shank, Foam Laminate Pad	1	63642582245
6" (150mm) with 5/16"-24 Shank, Urethane Pad	1	63642506160
8" for Hutchins	10	66254425341



Low-Profile Pads for Dual Action / Random Orbital Sanders

- Soft density low-profile pads utilize 1/2" thick foam for fine finish sanding and offer moderate conformability.
- Medium low-profile pads have 1/2" thick urethane foam for intermediate and finish sanding.
- Firm density low-profile pads utilize 1/4" thick urethane foam for flash and seam removal.
- Available with PSA or hook and loop faces. Both designs are shock resistant and have a fiberglass backing plate with a riveted 5/16"-24 threaded shank for added strength and increased heat resistance.
- Available with standard hole patterns for vacuum-assist sanding.

DESCRIPTION	MAX. RPM	STD. PKG.	PART NO.
LOW PROFILE PADS FOR DA/RANDOM ORBITAL SANDERS			
3" Foam Polishing Pad		10	63642504295
3" Hook & Loop Soft Low-Profile	12,000	10*	63642506128
3" x 7/8" Hook & Loop Pad		10	63642541947
3-1/4" Hook & Loop Buffing Pad			66261085302
5" PSA Soft Low-Profile	12,000	5*	63642506126
5" PSA Medium Low-Profile	15,000	5*	63642506131
5" PSA Medium Low-Profile with 5 vacuum holes	15,000	5*	63642506132
5" Hook & Loop Soft Low-Profile	12,000	5*	63642506129
5" Hook & Loop Medium Low-Profile	15,000	5*	63642506135
5" Hook & Loop Medium Low-Profile with 5 vacuum holes	15,000	5*	63642506136
6" PSA Soft Low-Profile	12,000	5*	63642506127
6" PSA Medium Low-Profile	15,000	5*	63642506133
6" PSA Medium Low-Profile with 6 vacuum holes	15,000	5*	63642506134
6" Hook & Loop Soft Low-Profile	12,000	5*	63642506130
6" Hook & Loop Medium Low-Profile	15,000	5*	63642506137
6" Hook & Loop Medium Low-Profile with 6 vacuum holes	15,000	5*	63642506138
8" Hook & Loop Medium Low-Profile with 8 vacuum holes, 5 screw	1,500	5*	63642543712
8" Hook & Loop Medium Low-Profile with 8 vacuum holes, 6 screw	1,500	5*	63642543714

* PACKED IN INDIVIDUAL CLAMSHELL

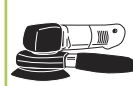


Tapered Pads for Dual Action / Random Orbital Sanders

- Designed with medium density polyurethane foam and a tapered edge for conformability, these pads are firm enough for flat surfaces, yet soft enough for severe curves and contours.
- Available with either PSA (vinyl) or hook and loop faces in vacuum or non-vacuum.
- The 5" and 6" pads are shock resistant and have a fiberglass backing plate with a riveted 5/16"-24 threaded shank for use on random orbital or dual action sanders.
- The 8" pads have a 5/8"-11 threaded female hub.

DESCRIPTION	MAX. RPM	STD. PKG.	PART NO.
TAPERED PADS FOR DA/RANDOM ORBITAL SANDERS			
5" PSA Medium Tapered	15,000	5*	63642506139
5" PSA Medium Tapered with 5 vacuum holes	15,000	5*	63642506140
5" Hook & Loop Medium Tapered	15,000	5*	63642506143
5" Hook & Loop Medium Tapered with 5 vacuum holes	15,000	5*	63642506144
6" PSA Medium Tapered	15,000	5*	63642506141
6" PSA Medium Tapered with 6 vacuum holes	15,000	5*	63642506142
6" Hook & Loop Medium Tapered	15,000	5*	63642506145
6" Hook & Loop Medium Tapered with 6 vacuum holes	15,000	5*	63642506146
8" PSA Medium Tapered	6,000	5*	63642543112
8" Hook & Loop Medium Tapered	3,200	5*	63642543704

* PACKED IN INDIVIDUAL CLAMSHELL



Hook & Loop Foam Interface Pads

- Designed for use with our fine grit hook and loop sanding discs.
- Improve both surface finish and cut rate.
- Use with hook and loop back-up pads.

DESCRIPTION	STD. PKG.	PART NO.
FOAM HOOK & LOOP INTERFACE PADS		
3" Diameter, 1/2" Thick Interface	10	63642505457
6" Diameter, 1/2" Thick Interface	5	63642542089
5" Diameter, 3/4" Thick Interface	2	63642502161
6" Diameter, 3/4" Thick Interface	2	63642502162



Half Moon Hand Pad

- The unique half moon pad uses a standard 5" hook and loop disc folded in half, which adheres to the hooks on the pad face.
- The straight edge of the pad allows the operator to sand corners, contours, narrow crevices and minute imperfections without over-sanding.

DESCRIPTION	STD. PKG.	PART NO.
HALF MOON HAND PAD		
5" Hook and Loop	10	63642502768



Polishing Adapter Pad

- Converts your standard hook and loop pad into a soft polishing pad.
- The foam adapter is 3/8" thick and is excellent for fine grits where minimal removal is required.
- It is ideal for either flat or contour surfaces.

DESCRIPTION	MAX. RPM	STD. PKG.	PART NO.
POLISHING ADAPTER PAD			
5" Hook and Loop Adapter Pad	3,786	10	63642503121



Ergonomic Hand Sanders

- The ergonomic palm sander is uniquely designed to be user-friendly, with finger indentations for the operator.
- It quickly converts standard 5" and 6" hook and loop discs into hand sanders for finishing flat surfaces.

DESCRIPTION	STD. PKG.	PART NO.
ERGONOMIC HAND SANDER		
5" Hook and Loop	5	63642503147
6" Hook and Loop	5	63642503726



Disc Hand Pads

- Hand pads eliminate finger sanding.
- The 1" thick pad is composed of two layers, neoprene and polyester foam, for excellent conformability and softness, resulting in fine finishes.
- The ultra-thin 3/16" thick pad is composed of a single layer of neoprene foam and is designed for maximum flexibility – producing excellent finishes.
- Each pad has an elastic hand strap to hold it firmly in place.
- Available with either PSA (vinyl) faces or hook and loop face.

DESCRIPTION	STD. PKG.	PART NO.
DISC HAND PADS		
5" x 3/16" Thick Soft Foam PSA	10	63642503111
5" x 1" Thick Soft Foam PSA	10	63642502842
5" x 1" Thick Soft Foam Hook and Loop	10	63642503117





CATEGORY DEFINITION

Norton PSA and Merit ShurStik PSA (pressure sensitive adhesive) individual cloth discs and disc rolls are used on three different types of machines and the application changes depending on which one they are used on.

- APPLICATIONS:**
- Pneumatic Die Grinders and Electric Random Orbital Sanders – for use on contours or flat surfaces for light- to medium-pressure grinding, blending, leveling, and finishing applications
 - Stationary Disc Sanders – used in woodworking and metalworking for stock removal, sanding/grinding flat surfaces, dimensioning and finishing
- SIZE RANGE:** 1/2" – 24" diameter
- GRIT RANGE:** 24 – 320
- ABRASIVE GRAIN:** Ceramic Alumina, Zirconia Alumina, Aluminum Oxide
- BACK-UP PADS:** Rubber, with hardness variations for different applications, for portable machines. Steel for stationary disc sanders



Small Diameter Cloth Discs for Pneumatic Die Grinders

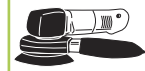


AVAILABILITY

TIER:	GOOD
BRAND:	Merit
TRADENAME:	ShurStik
ABRASIVE:	Aluminum Oxide
ATTACHMENT:	PSA

GRIT	1/2"	3/4"	1"	1-1/2"	2"	3"	4"
24	-	-	08834172143	08834171143	08834171158	08834171173	08834171188
36	08834171100	08834171114	08834171129	08834171144	08834171159	08834171174	08834171189
40	08834171101	08834171115	08834171130	08834171145	08834171160	08834171175	08834171190
50	08834171102	08834171116	08834171131	08834171146	08834171161	08834171176	08834171191
60	08834171103	08834171117	08834171132	08834171147	08834171162	08834171177	08834171192
80	08834171104	08834171118	08834171133	08834171148	08834171163	08834171178	08834171193
100	08834171105	08834171119	08834171134	08834171149	08834171164	08834171179	08834171194
120	08834171106	08834171120	08834171135	08834171150	08834171165	08834171180	08834171195
150	08834171107	08834171121	08834171136	08834171151	08834171166	08834171181	08834171196
180	08834171108	08834171122	08834171137	08834171152	08834171167	08834171182	08834171197
240	08834171109	08834171123	08834171138	08834171153	08834171168	08834171183	08834171198
320	08834171110	08834171124	08834171139	08834171154	08834171169	08834171184	08834171199
QTY./ BOX	100	100	100	100	100	100	100
BACK-UP PADS	1/4" Shank 15,000 RPM 08834174096	1/4" Shank 15,000 RPM 08834174097	1/4" Shank 15,000 RPM 08834174098	1/4" Shank 15,000 RPM 08834174099	1/4" Shank 12,000 RPM 08834174100	1/4" Shank 10,000 RPM 08834174101	1/4" Shank 6,000 RPM 08834174102





Cloth PSA Discs for Random Orbital Sanders

FEATURED PRODUCTS



NORTON SG R938

BEST CHOICE FOR FLASH AND SEAM REMOVAL ON MOLDED PARTS AND A BROAD RANGE OF NONFERROUS METALWORKING AND WOODWORKING APPLICATIONS

FEATURES

- Patented, P-graded, Norton SG (ceramic alumina) grain
- All resin bond
- Strong, semi-flexible X-weight cotton cloth backing
- DL (dustless) anti-static
- Discs are tabbed

BENEFITS

- Maximum life; rapid, cool cutting; consistent finishes
- Provides excellent grain retention and load resistance
- Durable; resistant to heat
- Cleaner workpiece and equipment
- Easy application and removal

AVAILABILITY

TIER:
BRAND:
TRADENAME:
ABRASIVE:
ATTACHMENT:
OTHER:



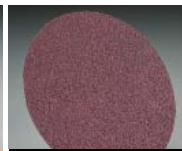
BEST

Norton
R980P
Ceramic Alumina
PSA Discs



BEST

Norton
R938
Ceramic Alumina
PSA Tabbed Discs
P-Graded



GOOD

Norton
Metalite R228
Aluminum Oxide
PSA Discs



GOOD

Norton
Metalite R228
Aluminum Oxide
PSA Disc Roll

SIZE (D)	GRIT	MIN./ STD. PKG.	PART NO.	PART NO.	PART NO.	STD. PKG./ DISCS/ROLL	PART NO.
5"	36	50/250	66254461506		66261136589	4/100	66261133252
	40		66254461507		66261136588		
	50		66254461508		66261136587		
	60		66254461509		66261136586		
	80		66254461510		66261136585		
	100				66261136584		
	120				66261136583		
	150				66261136582		
	180				66261136581		
	6"		60		50/250		
80			66261136595				
100			66261136594				
120			66261136593				
180			66261136592				
8"	36	50/250			66261136350		
	40			66261136351			
	50			66261136352			
	60			66261136352			
	80			66261136354			
	120			66261136355			

Back-up Pads for Cloth PSA Discs

DESCRIPTION	MAX. RPM	STD. PKG.	PART NO.
BACK-UP PADS FOR CLOTH PSA DISCS			
5" Diameter – Low Profile – Soft	12,000	5	63642503087
5" Diameter – Low Profile – Firm	12,000	5	63642503605
5" Diameter – Tapered – Medium	12,000	5	63642503112
6" Diameter – Tapered – Medium	10,000	5	63642543852
8" Diameter – Tapered – Medium	6,000	5	63642543112



Large Diameter Cloth PSA Discs

Used on stationary disc machines for dimensioning and finishing metal workpieces and woodworking. Pressure sensitive adhesive offers fast, convenient mounting. Made without center holes for full-face usage.



BLAZE R980P

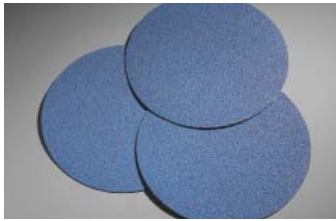
BEST CHOICE FOR ALL HARD-TO-GRIND HIGH ALLOY STEELS

FEATURES

- Norton SG ceramic alumina abrasive
- Improved resin bond
- Self-lubricating supersize treatment
- Strong Y-weight. polyester backing

BENEFITS

- Coolest cut; significantly faster cut rate
- Better grain adhesion, edge-fray resistance
- Cool cut on harder-to-grind materials
- Long life and consistent cut



NORZON R821

BETTER CHOICE FOR GRINDING AND DEBURRING STAINLESS STEEL

FEATURES

- Self-sharpening, zirconia alumina abrasive
- Heavy Y-weight backing

BENEFITS

- Cooler cut, extended life over aluminum oxide discs
- Durable; reduced edge wear

AVAILABILITY

TIER:

TRADENAME:

ABRASIVE:

ATTACHMENT:

BETTER

BLAZE R980P

Ceramic Alumina

PSA

	10	12	16	18	20
WIDTH					
36		66254416171			66254416165
40		66254416172			66254416166
50		66254416173			66254416167
60		66254416174			66254416168
80		66254416175			66254416169
120		66254417176			66254417170
MIN./STD. PKG.		25/50			25/50

AVAILABILITY

TIER:

TRADENAME:

ABRASIVE:

ATTACHMENT:

BETTER

NORZON R821

Zirconia Alumina

PSA

	10	12	16	18	20
WIDTH					
24		66261138318			
36		66261138319		66261138337	66261138343
40	66261138314	66261138320			66261138344
50		66261138321	66261138333		
60	66261138316	66261138322	66261138334		66261138346
80	66261138317	66261138323	66261109128		
MIN./STD. PKG.	25/50	25/50	25/50	25/50	25/50

AVAILABILITY

TIER:

TRADENAME:

ABRASIVE:

ATTACHMENT:

GOOD

METALITE R228

Aluminum Oxide

PSA

	10	12	15	16	18	20	24
WIDTH							
36	66261136606	66261136635	66261136666	66261136700	66261136720	66261136710	66261136718
40	66261136604	66261136630	66261136665	66261136685		66261136709	66261136717
50	66261136607	66261136625	66261136714	66261136684		66261136711	66261136725
60	66261136602	66261136620	66261136663	66261136683	66261136696	66261136712	66261136726
80	66261136601	66261136615	66261136662	66261136701	66261136723	66261136706	66261136727
100	66261136600	66261136614					
120		66261136613					
MIN./STD. PKG.	25/50	25/50	25/50	25/50	25/50	25/50	10/10

QUICK-CHANGE DISCS



NORTON **SG**
BLAZE

Norton
BLUEFIRE

MERIT



CATEGORY DEFINITION

Tool-free, twist-on and -off fastening systems make fast work of disc changes to maximize productivity by minimizing downtime.

- APPLICATIONS:** Mini flap, fiber, and trimmable hard plastic discs: welding grinding and blending; heavy metal removal; light deburring and finishing
Cloth discs: light- to medium-pressure grinding; blending, leveling, and finishing applications; for use on contours or flat surfaces
- SIZE RANGE:** 9/16" – 4" diameter
- GRIT RANGE:** 24 – 320
- ABRASIVE GRAIN:** Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide
- BACKING:** Fiber or cloth
- CLOTH FLEX:** 3-ply (more aggressive), 2-ply (standard), or fx (more flexible) lamination
- ATTACHMENT:** Type TS (II), Type TR (III), and Type TP (I)
- BACK-UP PADS:** Rubber with hardness variations for different applications

COATED ABRASIVE QUICK-CHANGE DISC AVAILABILITY



Fiber

- The most heavy-duty discs with resin over resin construction on heavy-duty vulcanized fiber backing. Premium grain for applications from heavy stock removal to surface blending



NorKut

- Unique polymer backing resists cracking and breakage and can be cut down to the 1" core. Use the cores to grind "pinch" welds and other hard-to-reach areas.



Mini Flap

- Layered flaps wear away evenly, producing an aggressive cutting action while also providing blending capabilities



Cloth 3-Ply

- These heavy-duty, 3-ply polyester laminate construction discs are the most aggressive and durable cloth discs on the market



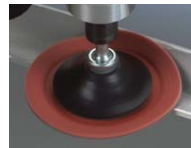
Cloth 2-Ply

- Our standard 2-ply laminate construction creates an aggressive and durable cloth disc for flat surfaces



Cloth Flexible (fx)

- Offer a flexible, 2-ply cotton laminate construction for added conformability on contoured surfaces or any application where added flexibility is needed



Cloth FlexEdge

- Manufactured with an abrasive cloth where the outer 3/8" is more flexible than the rest of the disc; designed to avoid gouging on contoured surfaces or soft materials

QUICK-CHANGE ATTACHMENT SYSTEMS AND CROSS REFERENCE GUIDE

Type TS (Type II)

- Features a turn-on/turn-off style fastener
- Fastener is made of metal
- Equivalent to Standard Abrasives' SocAtt® locking system



Type TR (Type III)

- Features a roll-on/roll-off style fastener
- Fastener is made of plastic
- Equivalent to 3M™ Roloc™ fastening system



Type TP (Type I)

- Snap-on/snap-off system which enables you to change discs quickly and safely, reducing downtime and operating expenses
- Fastener is made of nylon



MERIT

Type II

Type III

Type I

NORTON

TS

TR

TP

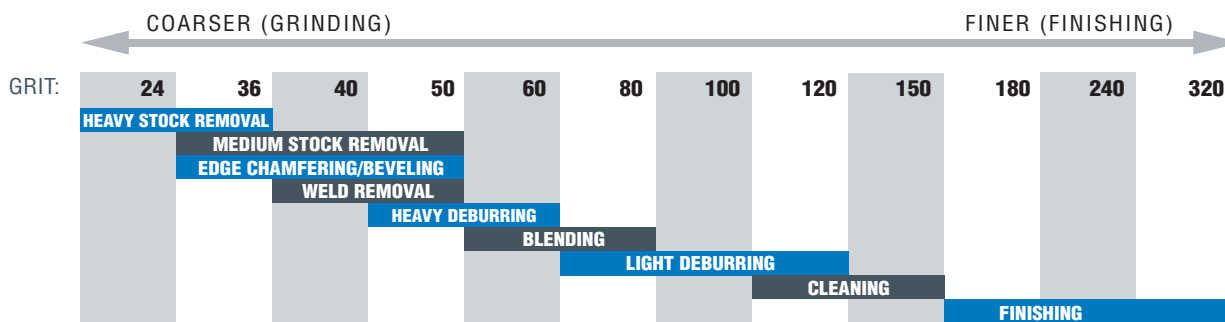
3M	Roloc TS/TSM	Roloc TR	Roloc TP
Standard	TS (SocAtt)	TR (Lockit)	TP (ClickOn)
Superior	Type S	Type R	–
Arc	Type S	Type R	Type P
Pferd	Type CD	Type CDR	–
Sait	SAIT-LOK	SAIT-LOK-R	–
Camel	Turn On	Roll On	–
Klingspor	QMC	QRC	–
Garryson	Type S	Type R	–



MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
Stainless Steel / Titanium / Super Alloys	Norton SG Blaze Plus R980P	Merit Zirc Plus	Merit ALO Plus
Mild Carbon Steel / Welds	Merit Ceramic Plus	NorZon BlueFire R884	Merit ALO
Ferrous Metals / Cast Iron	Merit Ceramic Plus	NorZon BlueFire R884	Merit ALO
Brass / Bronze / Aluminum	–	NorZon BlueFire R884	Merit ALO
Paint / Glue / Adhesive	–	–	Merit ALO
Concrete / Stone / Fiberglass	–	–	Merit Silicon Carbide

APPLICATION/GRIT RECOMMENDATION GUIDE



CROSS REFERENCE GUIDE

	TOTAL PERFORMANCE						INITIAL PRICE		
Abrasive	BEST		BETTER				GOOD		
	Ceramic Alumina Full Ratio	Ceramic Alumina Full Ratio	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide	Aluminum Oxide	Silicon Carbide
Backing	Fiber	Cloth	Fiber	Flap	Cloth	Cloth	Cloth	Cloth	Cloth
MERIT	Ceramic Plus	Ceramic Plus	Zirconia	Zirc	Zirc Plus	Zirc	ALO Plus	ALO	Silicon Carbide
NORTON	SG Blaze F980	SG Blaze Plus R980P	–	–	–	NorZon BlueFire R884	–	Metalite R228	–
3M	983C, 988C	963G, 977F, 785C, 777F	501C	–	–	–	–	361F	461F
Standard	–	Ceramic Pro, Ceramic	–	–	Zirconia Pro	Zirconia	A/O Extra, A/O Pro	A/O	Silicon Carbide
Superior	–	Ceramic G.A.	Zirc	–	Zirc w/ Grinding Aid	Premium Zirc	A/O w/ Grinding Aid	Premium A/O, Rigid Kut A/O	–
Arc	–	–	–	–	Zirconia/Y Plus	Zirconia/Y Standard	A/O/X Plus Coolant	A/O/Y Premium	–
Pferd	Ceramic Oxide CO	Ceramic Oxide CO	–	Zirconia Alumina Z	–	ZA Z	Aluminum Oxide A-Plus, Aluminum Oxide A-INOX-FORTE	Aluminum Oxide A, A/O A-FORTE	Silicon Carbide SiC
Sait	–	–	–	–	3Z, Z-H	Z	3A	2A-H, 2A	–
Camel	–	–	–	–	Zirconia AO w/ Grinding Aid	Zirconia AO	–	Aluminum Oxide	–
Klingspor	–	Ceramic	–	–	Alumina Zirconia-Lubricated	Alumina Zirconia	–	Aluminum Oxide	–
Garryson	–	Ceramic	–	–	Zirconia AO w/ Grinding Aid	–	–	Aluminum Oxide	–



Norton SG Blaze F980 Ceramic Fiber Discs

- Norton SG ceramic grain with self-lubricating, supersize treatment provides coolest cut; significantly faster cut rates
- Heaviest fiber backing, greater durability, longest life, and edge-fray resistance on tough applications and stainless steel



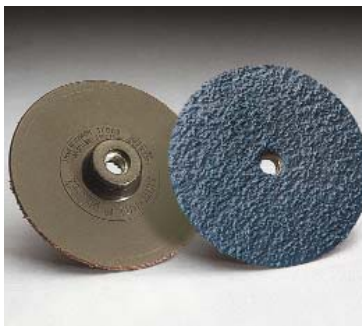
Merit Ceramic Plus Fiber Discs

- Ceramic alumina grain with self-lubricating supersize treatment, resin fiber discs resist heat build-up, cut aggressively, and are perfect for those applications that require a firm aggressive disc
- Heaviest fiber backing, greater durability, longest life, and edge-fray resistance on tough applications and stainless steel



Merit Zirconia Fiber Discs

- New, improved zirconia alumina provides a constant supply of sharp cutting edges for a fast, aggressive cutting action
- Heaviest fiber backing, greater durability, longer life, and edge fray resistance on tough applications and stainless steel



Norton NorKut Discs

- NorZon grain is resin bonded to a unique polymer backing which resists cracking and breaking and can be trimmed to the 1" core
- Use the cores to grind "pinch" welds and other hard-to-reach areas
- Used with a quick change mandrel: 7/16"-20 threaded for hand-held pneumatic grinders or 1/4" mandrel for automotive drills

AVAILABILITY

TIER:	BEST
BRAND:	Norton
ABRASIVE:	Ceramic Alumina
BACKING:	Fiber – Heavy Duty
OTHER:	Supersized
ATTACHMENT:	TR (Type III)

SIZE (D)	GRIT	STD. PKG.	PART NO.
2	36	25	66261058704
	50	25	66261058705
	60	25	66261058706
	80	25	66261058707
3	36	25	66261058708
	50	25	66261058709
	60	25	66261058711
	80	25	66261058712

AVAILABILITY

TIER:	BEST	BEST
BRAND:	Merit	Merit
ABRASIVE:	Ceramic Alumina	Ceramic Alumina
BACKING:	Fiber – Heavy Duty	Fiber – Heavy Duty
OTHER:	Supersized	Supersized
ATTACHMENT:	TS (Type II)	TR (Type III)

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.
2	36	100	08834165611	08834166041
	50		08834165613	08834166043
	60		08834166226	08834166044
	80		08834166227	08834166045
	120		08834165616	08834166046
3	36	50	08834166035	08834166219
	50		08834166037	08834166220
	60		08834166038	08834166221
	80		08834166039	08834166222
	120		08834166040	08834166223

AVAILABILITY

TIER:	BETTER	BETTER
BRAND:	Merit	Merit
ABRASIVE:	Zirconia Alumina	Zirconia Alumina
BACKING:	Fiber – Heavy Duty	Fiber – Heavy Duty
ATTACHMENT:	TS (Type II)	TR (Type III)

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.
2	36	100	08834167800	08834167810
	50		08834167802	08834167812
	60		08834167803	08834167813
	80		08834167804	08834167815
3	36	50	08834167805	08834167816
	50		08834167807	08834167818
	60		08834167806	08834167819
	80		08834167809	08834167820

AVAILABILITY

TIER:	BETTER
BRAND:	Norton
ABRASIVE:	Zirconia Alumina
BACKING:	Extra HD Polymer
ATTACHMENT:	Threaded Hole

SIZE (D)	GRIT	STD. PKG.	PART NO.
3	24	20	63642503656
	36		63642503657
	50		63642503658
7/16"-20 Mandrel		5	63642503659
1/4" Mandrel		5	63642503660



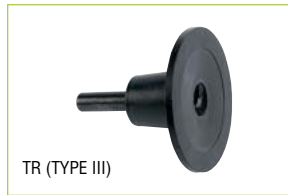
Merit Mini Zirconia Flap Discs

- High performance zirconia alumina abrasive provides maximum cut rate and life
- Layered flaps wear away evenly, producing a high-quality and consistent finish

AVAILABILITY

TIER:	BETTER	BETTER
BRAND:	Merit	Merit
ABRASIVE:	Zirconia Alumina	Zirconia Alumina
FLAP:	Cotton	Cotton
BACKING MATERIAL:	X-Heavy Duty Plastic	X-Heavy Duty Plastic
ATTACHMENT:	TS (Type II)	TR (Type III)

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.
2	36	10	08834195020	08834194550
	40		08834195021	08834194551
	60		08834195022	08834194552
	80		08834195023	08834194553
	120		08834195024	08834194554
3	36	10	08834195035	08834194563
	40		08834195036	08834194564
	60		08834195037	08834194565
	80		08834195038	08834194566
	120		08834195039	08834194567

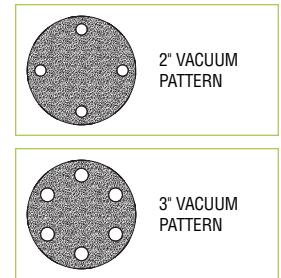


DESCRIPTION	STD. PKG.	PART NO.
Mini Flap Disc 2" & 3" TS (Type II) Back-up Pad	1	08834168539
Mini Flap Disc 2" & 3" TR (Type III) Back-up Pad	1	08834160172



Norton SG Blaze R980P Cloth Discs

- Next-generation, Norton SG ceramic alumina grain with self-lubricating, supersize treatment provides coolest cut; significantly faster cut rates
- 3-ply heavy-duty laminate discs (Y-wt. polyester yellow backing) are more aggressive; for greatest durability, longest life, and edge-fray resistance on tough applications and stainless steel
- 2-ply laminate discs (red backing) provide durability and long life, but are more conformable and flexible



AVAILABILITY




TIER:	BEST	BEST	BEST	BEST	BEST
BRAND:	Norton	Norton	Norton	Norton	Norton
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina
BACKING:	Polyester Heavy Duty	Polyester Conformable	Polyester Heavy Duty	Polyester Heavy-Duty Vacuum	Polyester Conformable
OTHER:	Supersized	Supersized	Supersized	Supersized	Supersized
ATTACHMENT:	TS (Type II)	TS (Type II)	TR (Type III)	TR (Type III)	TR (Type III)

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
1-1/2	36	100	66261162307	63642595401	66261162308		63642595465
	50		66261162309	63642595446	66261162310		63642595467
	60		66261162311	63642595447	66261162312		63642595468
	80		66261162313	63642595450	66261162314		63642595469
	120		66261043379	66261043416	66261043380		66261043417
2	36	25	66261162317	63642595452	66261162318		63642595470
	50		66261162319	63642595456	66261162320		63642595472
	60		66261162321	63642595458	66261162322	66254481589	63642595476
	80		66261162323	63642595459	66261162324	66254481590	63642595478
	100		66261043382	66261043418	66261043383		66261043419
	120		66261043384	66261043420	66261043386	66254481591	66261043421
3	36	25	66261162327	63642595460	66261162328		63642595479
	50		66261162329	63642595462	66261162330		63642595480
	60		66261162331	63642595463	66261162332	66254481705	63642595481
	80		66261162333	63642595464	66261162334	66254481707	63642595493
	100		66261043389	66261043422	66261043390		66261043423
	120		66261043391	66261043424	66261043392	66254481708	66261043425



Merit Ceramic Plus Cloth Discs

AVAILABILITY

TIER:	BEST	BEST	BEST
BRAND:	Merit	Merit	Merit
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina
BACKING:	Polyester Standard	Polyester Standard	Polyester Standard
OTHER:	Supersized	Supersized	Supersized
ATTACHMENT:	TS (Type II) 	TR (Type III) 	TP (Type I) 




- Ceramic alumina grain provides exceptional life and value, especially on hard-to-grind alloys
- The supersize grinding aid produces longer life and cooler cut
- Strong, Y-wt. 2-ply polyester backing provides excellent durability and grain adhesion

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.
9/16	36	100	08834163315		08834163000
	40		08834163316		08834163003
	50		08834163317		08834163004
	60		08834163318		08834163005
	80		08834163319		08834163014
	100		08834163434		08834163433
	120		08834163320		08834163017
3/4	36	100	08834163321	08834163392	08834163020
	40		08834163322	08834163393	08834163021
	50		08834163324	08834163394	08834163022
	60		08834162239	08834163395	08834163023
	80		08834163339	08834163396	08834163024
	100		66254410755	08834163438	08834163436
	120		08834163362	08834163397	08834163027
1	36	100	08834163374	08834163398	08834163028
	40		08834163375	08834163400	08834163030
	50		08834163376	08834163401	08834163031
	60		08834162240	08834163402	08834163042
	80		08834163378	08834163403	08834163043
	100		08834163440	08834163441	08834163439
	120		08834163379	08834163404	08834163112
1-1/2	36	100	08834163421	08834163405	08834163113
	40		08834163380	08834163406	08834163114
	50		08834163252	08834162620	08834163115
	60		08834160463	08834163407	08834163116
	80		08834163273	08834163408	08834163117
	100		08834163443	08834163444	08834163442
	120		08834168653	08834163409	08834168650
2	36	100	08834163118	08834160449	08834163119
	40		08834163229	08834163410	08834163120
	50		08834163259	08834163411	08834163121
	60		08834163551	08834163412	08834163231
	80		08834163381	08834165615	08834163219
	100		08834163446	08834163447	08834163445
	120		08834163382	08834168657	08834168651
3	36	50	08834163383	08834160458	08834163238
	40	08834163384	08834163413	08834163245	
	50	100	08834163385	08834163414	08834168275
	60	08834163386	08834163415	08834163266	
	80	08834163387	08834168178	08834169701	
	100	08834163449	08834163450	08834163448	
	120	08834168655	08834168658	08834168652	
4	36	50	08834162742	08834163416	08834163280
	40		08834163388	08834163417	08834163287
	50		08834162743	08834163418	08834163294
	60		08834163389	08834162992	08834163301
	80		08834163390	08834163419	08834163308
	100		08834163452	08834163453	08834163451
	120		08834163391	08834163420	08834163314



Merit Zirconia Plus Cloth Discs

AVAILABILITY

TIER:	BETTER	BETTER	BETTER
BRAND:	Merit	Merit	Merit
ABRASIVE:	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina
BACKING:	Polyester Standard	Polyester Standard	Polyester Standard
OTHER:	Supersized	Supersized	Supersized
ATTACHMENT:	TS (Type II) 	TR (Type III) 	TP (Type I) 

- Ideal product for demanding grinding applications
- Grinding aid results in cooler cut on stainless steel, titanium and other exotic alloys
- Strong, Y-wt., 2-ply polyester backing provides excellent durability and grain adhesion
- Lubricated supersize coat runs cooler



SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.
1	36	100	08834167051	08834167093	08834167009
	40		08834167052	08834167094	08834167010
	50		08834167053	08834167095	08834167011
	60		08834167054	08834167096	08834167012
	80		08834167055	08834167097	08834167013
1-1/2	36	100	08834167058	08834167100	08834167016
	40		08834167059	08834167101	08834167017
	50		08834167060	08834167102	08834167018
	60		08834167061	08834167103	08834167019
	80		08834167062	08834167104	08834167020
2	36	100	08834167065	08834167107	08834167023
	40		08834167066	08834167108	08834167024
	50		08834165583	08834167109	08834167025
	60		08834167068	08834167110	08834167026
	80		08834167069	08834167111	08834167027
3	36	50	08834167072	08834167114	08834167030
	40		08834167073	08834167115	08834167031
	50		08834167074	08834167116	08834167032
	60		08834167075	08834167117	08834167033
	80		08834167076	08834167118	08834167034
4	36	50	08834167079	08834167121	08834167037
	40		08834167080	08834167122	08834167038
	50		08834167081	08834167123	08834167039
	60		08834167082	08834167124	08834167040
	80		08834167083	08834167125	08834167041
	120		08834167085	08834167127	08834167043



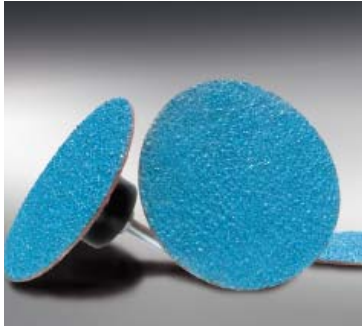
Norton NorZon BlueFire R884 Cloth Discs NEW

- Premium, versatile, self-sharpening zirconia alumina plus grain provides aggressive cut and up to 30% longer life than competitive zirconia alumina products
- Upgraded resin bond improves base adhesion and reduces grain shedding
- New grain coating results in longer life and faster cut rate
- Semi-open coat retards loading on soft metals (aluminum, brass, and bronze) and wood, as well as stainless steel and carbon steel
- Durable, Y-wt, 2-ply polyester backing stands up to demanding applications: high-pressure and hard-to-grind exotic alloys

AVAILABILITY

TIER:	BETTER	BETTER
BRAND:	Norton	Norton
ABRASIVE:	Zirconia Alumina	Zirconia Alumina
BACKING:	Polyester Standard	Polyester Standard
ATTACHMENT:	TS (Type II) 	TR (Type III) 

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.
1	50	100	66261138609	
	60		66261138608	
	80		66261138607	
1-1/2	24	100	66261138625	
	36		66261138624	66261121041
	50		66261138622	
	60		66261138621	66261121043
	80		66261138620	66261121044
2	24	25	66261138638	66261138672
	36		66261138637	66261138671
	50		66261138635	66261138670
	60		66261138634	66261121048
	80		66261138633	66261121049
3	24	25	66261138665	66261138675
	36		66261138664	66261138674
	50		66261138662	66261138673
	60		66261138661	66261121053
	80		66261138660	66261121054
4	36	25	66261138683	
	50		66261138681	
	60		66261137343	
	60		66261137343	
	80		66261138679	



Merit Zirconia Cloth Discs

- Self-sharpening, zirconia alumina abrasive provides cooler cut, longer life
- Strong, Y-wt., 2-ply cotton backing construction for extended durability and reduced edge-wear

AVAILABILITY

TIER:	BETTER	BETTER	BETTER
BRAND:	Merit	Merit	Merit
ABRASIVE:	Zirconia Alumina	Zirconia Alumina	Zirconia Alumina
BACKING:	Cotton Standard	Cotton Standard	Cotton Standard
ATTACHMENT:	TS (Type II)	TR (Type III)	TP (Type I)

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.
1	40	100	08834165327	08834164591	08834166129
	50		08834164590	08834164596	08834166130
	60		08834165329	08834164597	08834166131
	80		08834165330	08834164304	08834166132
1-1/2	36	100	08834165341	08834166263	08834161366
	40		08834165342	08834164598	08834166162
	50		08834165343	08834166971	08834161480
	60		08834165344	08834164599	08834161118
	80		08834165345	08834161688	08834166190
2	36	100	08834165356	08834164208	08834166134
	40		08834165357	08834164600	08834166135
	50		08834165358	08834161534	08834166136
	60		08834165359	08834161116	08834166137
	80		08834165360	08834166198	08834166138
3	36	50	08834165371	08834166264	08834166140
	40		08834165372	08834164862	08834166141
	50		08834165373	08834161535	08834166142
	60		08834165374	08834166259	08834166143
	80		08834165375	08834166269	08834166144



Non-Woven Discs

Merit and Norton non-woven quick-change discs are a combination of strong synthetic mesh and quality abrasives, bonded together by a smear-resistant adhesive. They are ideal for use on portable tools to clean and remove imperfections on metal surfaces, clean, deburr or finish a variety of surfaces, blend weld seams, or create decorative finishes. The open construction of the non-woven material enables aggressive cutting action and improved surface finish while maintaining its non-loading feature.




See Non-Woven Discs section for full product listing and application information.



Merit Aluminum Oxide Plus Cloth Discs

- Aluminum Oxide Plus discs feature a grinding aid
- They run cooler and more efficiently for grinding exotic alloys
- Strong, Y-wt., 2-ply polyester backing construction for extended durability and reduced edge-wear

AVAILABILITY

TIER:	GOOD	GOOD	GOOD
BRAND:	Merit	Merit	Merit
ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
BACKING:	Polyester Standard	Polyester Standard	Polyester Standard
OTHER:	Supersized	Supersized	Supersized
ATTACHMENT:	TS (Type II) 	TR (Type III) 	TP (Type I) 

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.
3/4	36	100	08834167462	08834164467	08834164345
	40		08834167463	08834164468	08834164346
	50		08834167464	08834164469	08834164347
	60		08834167465	08834164470	08834164349
	80		08834167466	08834164471	08834164350
1	120	100	08834167468	08834164473	08834164361
	36		08834167477	08834164475	08834164363
	40		08834167478	08834164476	08834164364
	50		08834167479	08834164477	08834164365
	60		08834167480	08834164478	08834164366
1-1/2	80	100	08834167481	08834164479	08834164368
	120		08834167483	08834164481	08834164370
	36		08834166881	08834164483	08834164392
	40		08834166882	08834164484	08834164393
	50		08834166883	08834164485	08834164394
2	60	100	08834166884	08834164486	08834164395
	80		08834166885	08834164487	08834164396
	120		08834166887	08834164489	08834164398
	36		08834166896	08834164491	08834164400
	40		08834166897	08834164492	08834164401
3	50	50	08834166898	08834164493	08834164402
	60		08834166899	08834164494	08834164403
	80		08834166900	08834164495	08834164404
	120		08834166902	08834164496	08834164428
	36		08834166911	08834164498	08834164430
4	40	50	08834166912	08834164499	08834164431
	50		08834166913	08834164500	08834164432
	60		08834166914	08834164501	08834164433
	80		08834166915	08834164502	08834164434
	120		08834166917	08834164509	08834164436
	36		08834163959	08834164511	08834164459
	40		08834163960	08834164525	08834164460
	50		08834163961	08834164526	08834164461
	60		08834163962	08834164527	08834164462
	80		08834163963	08834164536	08834164463
	120		08834163965	08834164542	08834164465





Merit Metal Aluminum Oxide Cloth Discs



- Versatile aluminum oxide abrasive is tough and durable with aggressive cutting action
- Heavyweight, but smooth, cotton backing for roughing and blending
- Available in coarse grits for light to medium grinding, medium grits for blending, and fine finishing grits
- Competitive initial price point makes this product the best starting specification for end-users unable to measure performance

AVAILABILITY






TIER:	GOOD	GOOD
BRAND:	Merit	Merit
ABRASIVE:	Aluminum Oxide	Aluminum Oxide
BACKING:	Cotton Standard	Cotton Standard
ATTACHMENT:	TS (Type II) 	TR (Type III) 

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.
2	36	100	66254468890	66254469256
	40		66254468891	66254469257
	50		66254469251	66254469258
	60		66254469252	66254469259
	80		66254469253	66254469260
	100		66254469254	66254469261
3	120	50	66254469255	66254469262
	36		66254469263	66254469270
	40		66254469264	66254469271
	50		66254469265	66254469272
	60		66254469266	66254469273
	80		66254469267	66254469274
	100		66254469268	66254469275
	120		66254469269	66254469276



**Norton Metalite R228
Aluminum Oxide Cloth Discs**




- Premium aluminum oxide abrasive provides long life
- Strong, X-wt., 2-ply cotton backing construction for extended durability and reduced edge-wear
- Ideal for aggressive stock removal applications
- Resistant to heat

AVAILABILITY		TIER:	GOOD	GOOD	GOOD			
		BRAND:	Norton	Norton	Norton			
		ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide			
		BACKING:	Cotton Standard	Cotton Standard	Cotton Standard – Vacuum			
		ATTACHMENT:	TS (Type II) 	TR (Type III) 	TR (Type III) 			
SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.			
1	36	100	66261138098					
	50		66261138095					
	60		66261138090					
	80		66261138085					
	100		66261138080					
	120		66261138075					
1-1/2	36	100	66261138135	66261121009				
	40		66261138130					
	50		66261138125					
	60		66261138120	66261121012				
	80		66261138115	66261121013				
	100		66261138110	66261121014				
	120		66261138105	66261121015				
	180		66261138099					
	320		66261144113					
	2		24	100	66261138171	66261121018	 66254481586 66254481587 66254481588	
36		66261138170	66261121019					
40		66261138165	66261121020					
50		66261138160	66261121021					
60		66261138155	66261121022					
80		66261138150	66261121023					
100		66261138145	66261121024					
120		66261138140	66261121025					
150		66261138139	66261121026					
180		66261138138	66261121027					
240		66261138137	66261121028					
320		66261137346						
3		24	50		66261138206	66261121029		 66254481702 66254481703 66254481704
		36			66261138205	66261121030		
	40	66261138200		66261121031				
	50	66261138195		66261121032				
	60	66261138190		66261121033				
	80	66261138185		66261121034				
	100	66261138180		66261121035				
	120	66261138175		66261121036				
	150	66261137347		66261121037				
	180	66261138173		66261121038				
	240	66261138172		66261121039				



**Merit Silicon Carbide
Cloth Discs**

- Sharp, silicon carbide abrasive on X-wt. backing provides high initial cut and penetration for nonferrous materials

AVAILABILITY		TIER:	GOOD	GOOD	GOOD
		BRAND:	Merit	Merit	Merit
		ABRASIVE:	Silicon Carbide	Silicon Carbide	Silicon Carbide
		BACKING:	Cotton Standard	Cotton Standard	Cotton Standard
		ATTACHMENT:	TS (Type II) 	TR (Type III) 	TP (Type I) 
SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.
2	40	100	08834165252	08834164275	08834162166
	60		08834165254	08834164163	08834162168
	80		08834165255	08834166155	08834162169
	120		08834165257	08834164837	08834162171
	180		08834165259	08834167313	08834162173
3	40	50	08834165267	08834164277	08834162185
	60		08834165269	08834164850	08834162187
	80		08834165270	08834166159	08834162188
	120		08834165272	08834166160	08834162190
	180		08834165274	08834168177	08834164971



Merit Aluminum Oxide Cloth Discs

- Aluminum oxide cloth discs are best used for general purpose deburring and blending on ferrous and nonferrous metals where greater edge durability is required
- Strong, Y-wt., 2-ply polyester backing construction for extended durability and reduced edge-wear

AVAILABILITY

TIER:	GOOD	GOOD	GOOD
BRAND:	Merit	Merit	Merit
ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
BACKING:	Polyester Standard	Polyester Standard	Polyester Standard
ATTACHMENT:	TS (Type II)	TR (Type III)	TP (Type I)

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.
3/4	24	100	08834165100	08834164312	08834161001
	36		08834165101	08834164319	08834161002
	40		08834165102	08834164321	08834161003
	50		08834165103	08834164322	08834161004
	60		08834165104	08834164813	08834161005
	80		08834165105	08834164323	08834161006
	100		08834165106	08834164814	08834161007
	120		08834165107	08834164324	08834161008
	150		08834165108	08834164815	08834161009
	180		08834165109	08834164325	08834161010
	240		08834165111	08834164326	08834161011
	320		08834165113	08834164327	08834161012
1	24	100	08834165115	08834164328	08834161014
	36		08834165116	08834166031	08834161015
	40		08834165117	08834161251	08834161016
	50		08834165118	08834164924	08834161017
	60		08834165119	08834161105	08834161018
	80		08834165120	08834166185	08834161019
	100		08834165121	08834161364	08834161020
	120		08834165122	08834161106	08834161021
	150		08834165123	08834164330	08834161022
	180		08834165124	08834166252	08834161023
	240		08834165126	08834166874	08834161025
	320		08834165128	08834164097	08834161026
1-1/2	24	100	08834165130	08834164969	08834161027
	36		08834165131	08834164048	08834161028
	40		08834165132	08834164804	08834161029
	50		08834165133	08834164092	08834161030
	60		08834165134	08834164902	08834161031
	80		08834165135	08834161400	08834161032
	100		08834165136	08834161288	08834161033
	120		08834165137	08834164905	08834161034
	150		08834165138	08834164810	08834161035
	180		08834165139	08834166251	08834161036
	240		08834165141	08834161602	08834161037
	320		08834165143	08834164331	08834161038
2	24	100	08834165145	08834164912	08834161041
	36		08834165146	08834164913	08834161042
	40		08834165147	08834166353	08834161043
	50		08834165148	08834164914	08834161044
	60		08834165149	08834161155	08834161045
	80		08834165150	08834164941	08834161046
	100		08834165151	08834164917	08834161047
	120		08834165152	08834161169	08834161048
	150		08834165153	08834164786	08834161049
	180		08834165154	08834164916	08834161050
	240		08834165156	08834164919	08834161051
	320		08834165158	08834166875	08834161052
3	24	50	08834165160	08834161214	08834161055
	36		08834165161	08834164938	08834161056
	40		08834165162	08834164939	08834161057
	50		08834165163	08834164940	08834161058
	60		08834165164	08834166183	08834161059
	80		08834165165	08834166191	08834161060
	100		08834165166	08834166189	08834161061
	120		08834165167	08834166184	08834161062
	150		08834165168	08834164340	08834161063
	180		08834165169	08834166187	08834161064
	240		08834165171	08834166225	08834161065
	320		08834165173	08834163205	08834161066
4	36	50	08834165176	08834166265	08834161070
	40		08834165177	08834164860	08834161071
	50		08834165178	08834164788	08834161072
	60		08834165179	08834164601	08834161073
	80		08834165180	08834166472	08834161074
	180		08834165184	08834164843	08834161078

Quick-Change Test Kit "D"



- Part No. 08834165001
- Includes 150 discs, assorted grits, in 1", 2", and 3" diameters and 3" back-up pads
- Primarily aluminum oxide cloth Quick-Change discs
- Several zirconia alumina and FlexEdge discs are included



Merit Aluminum Oxide fx and FlexEdge Cloth Discs

fx (conformable)

- These (flexible) aluminum oxide discs are designed for general purpose deburring and blending on contoured surfaces

FlexEdge

- Manufactured with special flexible aluminum oxide abrasive cloth where the outer 3/8" is more flexible than the rest of the disc
- Designed for softer metals where standard (fx) discs can gouge and for contour grinding of structural pieces
- Used in aircraft and aerospace manufacturing for structural hand polishing
- When using back-up pads for FlexEdge discs, order (use) one size smaller than the disc

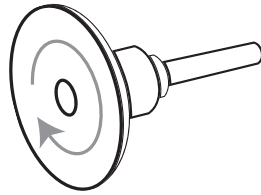
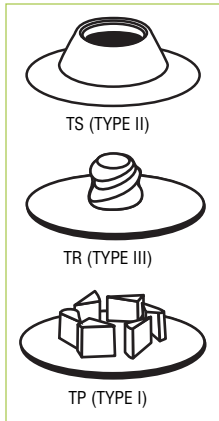
AVAILABILITY		TIER:	GOOD	GOOD	GOOD
		BRAND:	Merit	Merit	Merit
		ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
		BACKING:	Cotton	Cotton	Cotton
			Flexible (fx)	FlexEdge	FlexEdge
		ATTACHMENT:	TS (Type II)	TS (Type II)	TP (Type I)
SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.
1	24	100	08834168881		
	36		08834168479		
	40		08834168480		
	50		08834168481	08834163706	08834164309
	60		08834168431	08834160394	08834164296
	80		08834168432	08834160395	08834161194
	100		08834168482	08834160396	08834164215
	120		08834168434	08834160397	08834164216
	150		08834168483		
	180		08834168484		
	240		08834168485		
320	08834168486				
1-1/2	24	100	08834168882		
	36		08834168487		
	40		08834168488		
	50		08834168489	08834163713	08834166375
	60		08834168435	08834167333	08834164315
	80		08834168436	08834160399	08834164316
	100		08834168490	08834163714	08834164317
	120		08834168437	08834160401	08834164318
	150		08834168491		
	180		08834168492	08834160402	08834164320
	240		08834168493		
320	08834168494				
2	24	100	08834168883		
	36		08834168495		
	40		08834168496		
	50		08834168497	08834163721	08834164333
	60		08834168438	08834160403	08834164334
	80		08834168439	08834160404	08834164335
	100		08834168498	08834166959	08834164336
	120		08834168440	08834167363	08834164337
	150		08834168499		
	180		08834168500	08834160405	08834164339
	240		08834168501		
320	08834168502				
3	24	50	08834168884		
	36		08834168503		
	40		08834168504		
	50		08834168505	08834163728	08834164352
	60		08834168441	08834160406	08834164353
	80		08834168442	08834161282	08834164354
	100		08834168506	08834166974	08834164355
	120		08834168443	08834163729	08834164356
	150		08834168507		
	180		08834168508	08834160407	08834164358
	240		08834168509		
320	08834168510				
Back-up Pad for 3" FlexEdge Discs			Max. RPM 30,000	08834168539	08834163995

TECHtip

Avoid gouging on contours by using a smaller size back-up pad than the diameter of the discs, such as 1-1/2" back-up pad for 2" discs. For 3" discs and larger, order the special FlexEdge back-up pad that is 2" in diameter but contains the cam lock fastener for 3" and larger discs.



Quick-Change Back-up Pads



- Hard density pads are for aggressive cutting action
- Medium density pads are for all-purpose applications
- Soft density pads are used for contours and fine finishing work

DIAMETER	DENSITY	TS (TYPE II)	TR (TYPE III)	TP (TYPE I)
QUICK-CHANGE BACK-UP PADS				
9/16 40,000 RPM		66261054014		66261054013
3/4 40,000 RPM	Medium	08834164206	08834164038	08834164001
1 40,000 RPM	Medium	08834164651	08834164037	08834164002
1-1/2 30,000 RPM	Hard Medium	08834164622 08834164146	08834164640 08834161174	08834163996 08834164003
2 30,000 RPM	Hard Medium Soft	08834164624 08834164198 08834161625	08834164643 08834164922 08834164641	08834163997 08834164004 08834163949
3 20,000 RPM	Hard Medium Soft	08834161626 08834164113 08834164626	08834164036 08834164949 08834164644	08834163998 08834164005 08834163948
4 15,000 RPM	Medium	08834164135	08834164655	08834164006

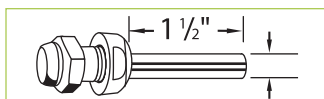
ALL QUICK-CHANGE BACK-UP PADS HAVE A 1/4" SOLID STEEL SHANK. STD. PKG. = 1

Replacement Medium Density Rubber Pads for Quick-Change Back-up Pads

DIAMETER	MODEL NO.	TS (TYPE II)	TR (TYPE III)	TP (TYPE I)
QUICK-CHANGE REPLACEMENT RUBBER BACK-UP PADS				
3/4	RR75			08834164008
1	RR10			08834164009
1-1/2	RR15	08834168797	08834168885	08834164010
2	RR20	08834164973	08834163649	08834164011
3	RR30	08834164974	08834164970	08834164012
4	RR40			08834164013

WHEN THE RUBBER PAD HAS WORN AWAY, BUT THE STEEL COMPONENTS OF YOUR QUICK-CHANGE BACK-UP ARE STILL SERVICEABLE, ORDER THESE REPLACEMENT RUBBER PADS. STD. PKG. = 1

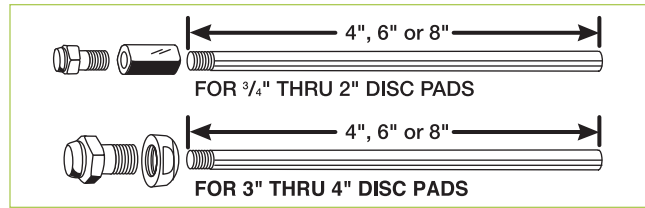
Replacement Assemblies and Shanks for Quick-Change Back-up Pad



DESCRIPTION	STD. PKG.	PART NO.
REPLACEMENT MANDRELS AND NUT ASSEMBLY		
TP (Type I) Assembly RMN1 for 3/4 - 2	1	08834164015
TP (Type I) Assembly RMN3 for 3 - 4	1	08834164016
TS (Type II) & TR (Type III) Replacement 1/4" Shank	1	08834164303

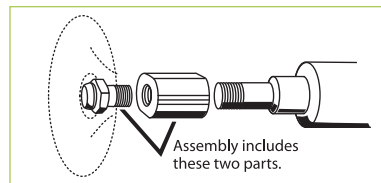
ASSEMBLIES REPLACE ALL THE STEEL COMPONENTS OF A QUICK-CHANGE BACK-UP PAD. THIS SHANK REPLACES THE SCREW-IN 1/4" SOLID STEEL SHANK ONLY.

Extension Mandrels and Assembly



DIAMETER	MODEL NO.	LENGTH	STD. PKG.	PART NO.
EXTENSION MANDRELS AND ASSEMBLY - TP (TYPE I)				
3/4 - 2	EMN-14	4"	1	08834164017
3/4 - 2	EMN-16	6"	1	08834164018
3/4 - 2	EMN-18	8"	1	08834164019
3 - 4	EMN-34	4"	1	08834164020
3 - 4	EMN-36	6"	1	08834164026
3 - 4	EMN-38	8"	1	08834164021

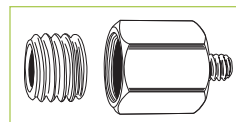
MNA-1 Pad Adapters



DISC DIAMETER	MODEL NO.	STD. PKG.	PART NO.
MNA-1 PAD ADAPTERS - TP (TYPE I)			
3/4 - 2	MNA 1/4-20 THD.	1	08834161176
3/4 - 2	MNA 3/8-24	1	08834164055
3/4 - 2	MNA 5/8-11	1	08834163001
3 - 4	MNA 1/4-20	1	08834163002
3 - 4	MNA 3/8-24	1	08834164041
3 - 4	MNA 5/8-11	1	08834164028

CONVERT A TP (TYPE I) BACK-UP PAD 1/4" DIAMETER SOLID SHANK TO A THREADED SHANK

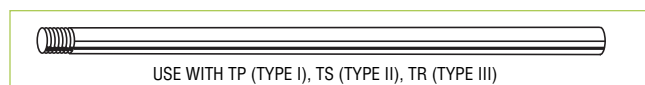
MNA-23 Pad Adapters



DISC DIAMETER	MODEL NO.	STD. PKG.	PART NO.
MNA-23 PAD ADAPTERS - TS (TYPE II) AND TR (TYPE III)			
3/4 - 4	MNA-23 3/8-24 THD. & 5/8-11	1	08834162764

FOR USE ON A RIGHT ANGLE GRINDER: CONVERT TS (TYPE II) AND TR (TYPE III) BACK-UP PAD 1/4" DIAMETER SOLID SHANKS TO THREADED SHANKS. THE LARGER 5/8-11 ADAPTER (FOR 4-1/2" DISCS) IS USED ALONE TO CONVERT TO A 5/8-11 THREAD. THE 3/8-24 INSERT (FOR 4" DISCS) IS SCREWED INTO THE 5/8-11 ADAPTER TO CREATE A 3/8-24 THREAD ADAPTER.

1/4" Diameter Extension Mandrel



MODEL NO.	LENGTH	STD. PKG.	PART NO.
1/4" DIAMETER EXTENSION MANDREL 1/4-20 THREAD			
EM-144	4	1	08834154185
EM-146	6	1	08834154186
EM-148	8	1	08834154187



CATEGORY DEFINITION

Paper sheets and rolls are engineered for optimum performance when sanding metal, wood, composites and painted surfaces. The sheets are packed in protective packaging to eliminate waste and permit easy, neat storage.

CATEGORIES: Stearated (non-loading) Ceramic Alumina, Aluminum Oxide and Silicon Carbide
Waterproof Aluminum Oxide and Silicon Carbide
All Purpose Aluminum Oxide and Garnet
Heavyweight Zirconia Alumina

APPLICATIONS: Light-duty metal sanding, primer sanding, defect removal from painted surfaces, filler sanding, sanding and finishing of composites and fiberglass, bare wood sanding, sanding between sealer coats

SIZE RANGE: Full Sheets, Cut Sheets, File Strips and Rolls

GRIT RANGE: 36 – 2500

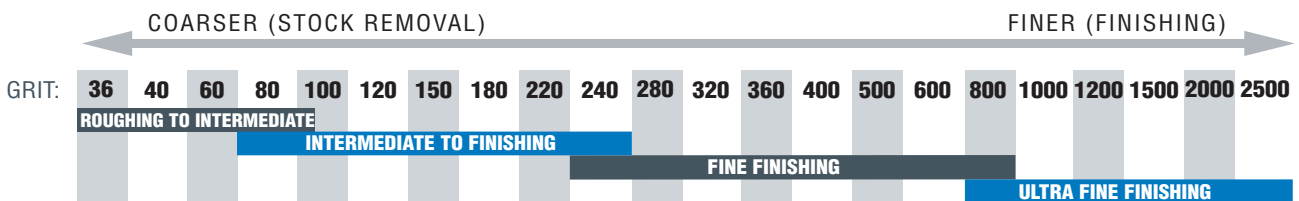
ABRASIVE GRAIN: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide



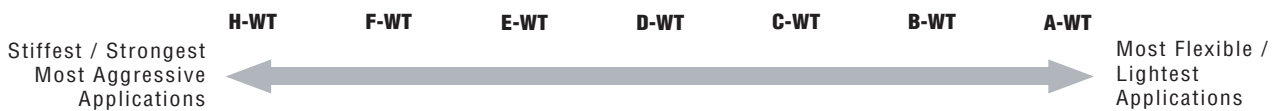
MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
Unfinished Metal	A275	–	A251
Primed / Painted Surfaces / Between Coats	A275	A475	A251
Fiberglass / Composites	A275	A475	A251
Bare Wood	A275	–	A511, A513, A514
Clear Coat Sanding	T214, T401	–	T461
Sealer Sanding	A275	A475	A251
Lacquer Sanding	T214, T401	T414	T461
Wet Sanding	T214, T401	T414	T461
Paint Stripping	A259 (3X)	A475	A290
All Purpose Dry Sanding	A259 (3X)	–	A212, A213, A211

APPLICATION/GRIT RECOMMENDATION GUIDE



RECOMMENDED BACKING WEIGHT





CROSS REFERENCE GUIDE

NORTON	3M	Hermes	Klingspor	Mirka	SIA	VSM
STEARATED						
A975	734U, 735U, 765L, 334U	-	-	-	1950 siaspeed	-
A275 / A259 (3X)	216U, 334U	HC133	PS33	Royal, Royal Micro	1950 siaspeed	-
A475	405N, 414N, 415N/U	PSF-LL, SA168	PL35	Carat Flex, FineFlex	1701 sialac 1748 siarexx fine	CP131A
A290	236U	HCAB-LL	PS33, PL36	Bulldog Gold	1960 siarexx cut	KP911
A251	316U, 214U	-	PL36	GoldFlex	-	-
WATERPROOF						
T214	213Q	WAFlex28B	PS12	-	1913 siawat	-
T401	401Q	WSFlex16	PS11, PS14	Waterproof (A)	-	CP918A
T414	413Q	WSFlex16	PS11, PS14	Waterproof (A)	-	CP918A
T461	438Q, 431Q	WSFlex18C	PS11, PS14	-	1727 siawat	CP918C
ALL PURPOSE/WOOD						
A211	230U, 240N, 346U	-	-	-	-	KP31C
A212	210N	HFB	PL31	-	-	-
A213	230N	HFB	PL31	-	-	KP31B
A511	110N	-	-	-	1400 sianor	-
A513	130N	GCAB	-	-	-	-
A514	140N	GCAB	-	-	-	-
HEAVYWEIGHT PAPER						
H875	750U, 751U, 740I, 745I	-	-	Royal Coarse Cut	-	KP510E, KP709

Aluminum Oxide All-Purpose Sanding and Garnet Wood Sanding 9 x 11 Paper Sheets

AVAILABILITY
9 X 11
PAPER SHEETS

SIZE	GRIT	MIN./STD. PKG.								
			PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	
9 x 11	36	25/125	66261100335				07660700361*			
	40		66261100330							
	50	50/250	66261100325				07660700360*	66261101565		
	60		66261100320				07660701624*	66261101560		
	80		66261100315				07660700359*	66261101555	66261101505	07660701584
	100	100/500		66261100295			07660700358*	66261101535	66261101500	07660701583
	120			66261100290			07660700357*	66261101495	66261101495	07660701582
	150			66261100285			07660700356*	66261101490	66261101490	07660701581
	180					66261100245	07660700355*	66261101489	66261101489	07660701580
	220					66261100240	07660700354*	66261101488	66261101488	07660701579
	240							66261101487	66261101487	
	280							66261101486	66261101486	
	Asst*						07660700365*			

* PACKAGING STANDARDS: JOB PACKS: 25 SHEETS PER PACK / 10 PACKS PER STANDARD PACKAGE FOR A TOTAL OF 250 SHEETS
 • ASSORTED CONTAINS 6 EACH OF 60, 100, 150 GRIT AND 7 EACH OF 220 GRIT



Stearated (Non-Loading) Aluminum Oxide and Silicon Carbide 9 x 11 Sheets

FEATURED PRODUCTS



NO-FIL ADALOX A275

THE BEST CHOICE FOR SANDING PAINTED SURFACES, COMPOSITES, PLASTICS OR ANY MATERIAL THAT TENDS TO LOAD

FEATURES

- Premium P-graded, heat-treated aluminum oxide abrasive
- Unique fiber-reinforced, B-wt latex-saturated backing
- Water-based stearate, non-pigmented, No-Fil coating
- Full resin adhesive bond

BENEFITS

- Superior life, fast cut rate, consistent finish
- 50-60% improvement in tear strength
- Exceptional flexibility, can be folded without cracking
- Provides maximum load resistance and extended life; no color transfer to work
- Provides exceptional resistance to abrasive grain shedding especially when folding to sand into corners; long life



NO-FIL DURITE A475

THE BETTER CHOICE FOR GEL COATS, HARD COMPOSITE SUBSTRATES, ABRASION-RESISTANT COATINGS, AND WOODWORKING APPLICATIONS

FEATURES

- P-graded, silicon carbide abrasive
- Water-based stearate, non-pigmented, No-Fil coating
- Fiber-reinforced, latex paper backing

BENEFITS

- Easy penetration of the hardest surfaces
- Resists loading for longest usable product life, no color transfer to work
- Provides flexibility and resistance to tearing

AVAILABILITY 9 X 11 PAPER SHEETS

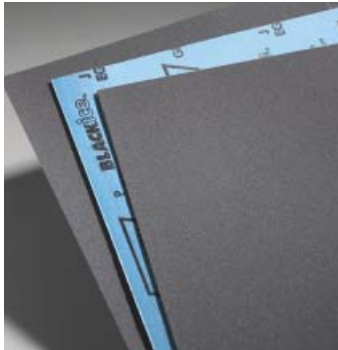
			BEST	BEST	BETTER	GOOD		
TIER:			Norton	Norton	Norton	Norton		
BRAND:			A275 NO-FIL	A259 (3X) NO-FIL	A475 NO-FIL	A251 NO-FIL		
TRADENAME:			Aluminum Oxide	Aluminum Oxide	Silicon Carbide	Aluminum Oxide		
ABRASIVE:			B-Weight	B-Weight	B-Weight	A-Weight		
BACKING WEIGHT:			P-Graded	P-Graded	P-Graded	P-Graded		
OTHER:								
SIZE	GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.		
9 x 11	60	50/250	66261131634	07660702642*	66254487393	66261184107		
				07660702641*				
	100	100/500	66261131633	07660702640*			66254487394	66261184106
			66261131632	07660702639*			66254487395	66261184105
			66261131631	07660702638*			66254487396	66261184108
			66261131630	07660702637*			66254487397	66261184104
			66261131629	07660702636*			66254487398	66261184103
			66261131628				66254487399	66261184102
			66261131627					
			66261131626	07660702633*			66254487400	66261184100
			66261131624	07660702632*				
			66261131623					
	600		66261131622					
	800		66261131621					
	1000	100/500	66261131620					
	1200		66261131619					
1500	66261131618							

* PACKAGING STANDARDS: A259 (3X) JOB PACKS: 20 SHEETS PER PACK / 10 PACKS PER STANDARD PACKAGE FOR A TOTAL OF 200 SHEETS



Waterproof Aluminum Oxide and Silicon Carbide 9 x 11 Sheets

FEATURED PRODUCTS



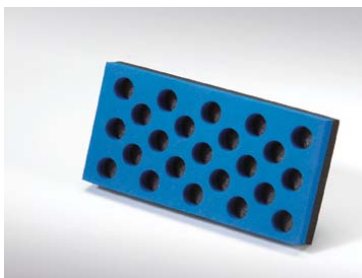
BLACK ICE T214 AND T401 WATERPROOF BEST CHOICE FOR ALL WET APPLICATIONS

FEATURES	BENEFITS
• T214: Premium, P-graded, heat-treated aluminum oxide abrasive	• Ultimate cut and life in wet applications
• T401: Premium, ultra fine (1000 – 2500 JIS graded) silicon carbide abrasive	• Ultimate finish in wet applications
• Improved resin bond system	• Long life in wet applications
• High-strength B-wt, high-latex, waterproof paper backing	• Ultimate flexibility, with wet-curl resistance • Environmentally stable, resists humidity-caused curling

AVAILABILITY
9 X 11
PAPER SHEETS

TIER:	BEST	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton
TRADENAME:	T214	T401	T414	T461
ABRASIVE:	Aluminum Oxide	Silicon Carbide	Silicon Carbide	Silicon Carbide
BACKING WEIGHT:	B-Weight	B-Weight	B-Weight	C-Weight
OTHER:	P-Graded	JIS Graded	CAMI Graded	CAMI Graded

SIZE	GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	
9 x 11	60	50/250				66261101175	
	80					66261101170	
	100					66261101165	
	120					66261101160	
	150					66261101155	
	180					66261101150	
	220			66261139389		66261139367	
	240			66261139388		66261139366	66261130331
	280			66261139387		66261139365	
	320			66261139386		66261139364	66261130332
	360			66261139346		66261139363	
	400			66261139385		66261139362	66261130333
	500			66261139384		66261139361	
	600			66261139383		66261139360	66261130334
	800			66261139382			
			1000	50/250		66261139381	
	1200		66261139380				
	1500		66261139379				
	2000		66261139378				
	2500		66261139377				



Waterproof Sanding Blocks – with “grabbing” power

Dual Density Wet Sanding Block

- No adhesive required: simply wrap a 5-1/2" x 9" (9" x 11" cut in half) sheet around the block
- The dense side is for more aggressive blocking, while the soft side is for color sanding
- Equalizes sanding pressure for fine grit applications

Holey Block

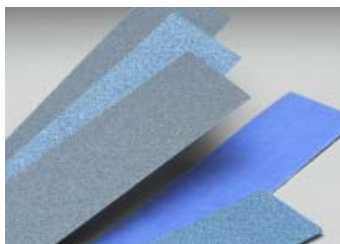
- No adhesive required: simply wrap a 5-1/2" x 9" (9" x 11" cut in half) sheet around the block
- A rugged, semi-rigid, multi-purpose sanding block engineered for flat to medium curved surfaces
- A tactical hole pattern side provides numerous cutting edges to create a 30% faster cut rate
- The plain side provides firmness and a comfortable, easy-to-hold surface

DESCRIPTION	STD. PKG.	PART NO.
Wet Sanding Block	12	63642503728
Holey Block	8	63642503729



File Strips / Hand Sanding Cut Sheets / Rolls

FEATURED PRODUCTS



NORZON H875

EXCELLENCE FOR SOFT MATERIAL APPLICATIONS

FEATURES	BENEFITS
• Patented NorZon zirconia abrasive	• Extended life over original NorZon products
• Strong E-weight paper, latex impregnated	• Increased durability and chip resistance, flexible
• Open coat design	• Reduced loading; ideal for body filler, fiberglass and composite sanding

AVAILABILITY
PAPER FILE
STRIPS

TIER:
BRAND:
TRADENAME:
ABRASIVE:
BACKING WEIGHT:
BACKING ATTACHMENT:
OTHER:

BEST	BEST	BEST	BEST	GOOD	BETTER	BETTER	BETTER
Norton	Norton	Norton	Norton	Norton	Norton	Norton	Norton
A275 NO-FIL	A275 NO-FIL	A275 NO-FIL	A275 NO-FIL	H290	H875	H875	H875
A/O	A/O	A/O	A/O	A/O	Z/A	Z/A	Z/A
B-Wt.	B-Wt.	B-Wt.	B-Wt.	E-Wt.	E-Wt.	E-Wt.	E-Wt.
Non-PSA	PSA	Hook/Loop	Hook/Loop Vac	PSA	Non-PSA	PSA	Hook/Loop
P-Graded	P-Graded	P-Graded	P-Graded	P-Graded			

SIZE	GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	MIN./STD. PKG.	PART NO.	PART NO.	MIN./STD. PKG.	PART NO.
2-3/4 x 16	100 120 180	50/500				66261131657 66261131656 66261131654						
2-3/4 x 16-1/2	36 40 80 100 120 150 180 220	50/500		66261131640 66261131639	66261131646 66261131645 66261131644		66261130840	50/250	66261123610 66261123609 66261123608	25/125	66261123616 66261123615 66261123614	
2-3/4 x 17-1/2	36 40 80 100 120 150 180 220	50/500	66261131652 66261131651 66261131650 66261131649 66261131648 66261131647					50/250	66261123622 66261123621 66261123620 66261126512			66261126511



VACUUM HOLE PATTERN FOR 2-3/4 X 16 FILE STRIPS

Sanding Boards



PSA/Non-PSA Sanding Board

- This sanding board has a cushioned surface
- Spring clips mounted at each end securely hold 2-3/4" x 16-1/2" PSA file strips and 2-3/4" x 17-1/2" non-PSA file strips



Hook and Loop and Non-PSA Sanding Board

- Lightweight, rugged design for easy sanding of plastic fillers
- Spring clips mounted at each end securely hold 2-3/4" x 16-1/2" hook and loop file strips and 2-3/4" x 17-1/2" non-PSA file strips

DESCRIPTION	STD. PKG.	PART NO.
Hook & Loop File Strip Sanding Board	5	63642552836
PSA File Strip Sanding Board	6	63642542724



AVAILABILITY
PAPER CUT SHEETS



TIER:	BETTER	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton
TRADENAME:	T414	A290 NO-FIL	A211	A213
ABRASIVE:	Silicon Carbide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
BACKING WEIGHT:	B-Wt.	C-Wt.	D-Wt.	C-Wt.
OTHER:	Waterproof	P-Graded	P-Graded	P-Graded



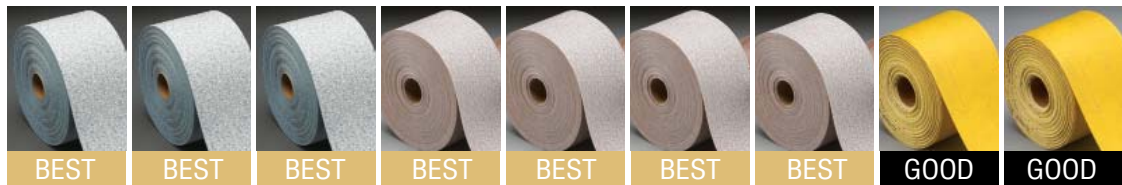
Rubber Hand Sanding Blocks

- Resilient rubber blocks that conform well to mild contours and flat surfaces

DESCRIPTION	STD. PKG.	PART NO.
2-3/4 x 5	5	07660701889
3-2/3 x 9	14	07660743140

SIZE	GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.					
3-2/3 x 9	60	100/1000	66261139359	66261102925	66261102920	66261102900					
	80										
	100										
	120										
	150										
	180										
	220										
	280										
	320										
	400										
	600										
	60						66261139357	66261101119	66261101125	66261101124	66261101123
	80						66261139356	66261101123	66261101123	66261101123	66261101123
	100						66261139354	66261101123	66261101123	66261101123	66261101123
120	66261139352	66261101123	66261101123	66261101123	66261101123						

AVAILABILITY
PSA PAPER ROLLS



TIER:	BEST	BEST	BEST	BEST	BEST	BEST	BEST	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	A975 NO-FIL	A975 NO-FIL	A975 NO-FIL	A275 NO-FIL	A275 NO-FIL	A275 NO-FIL	A275 NO-FIL	A290 NO-FIL	A290 NO-FIL
ABRASIVE:	C/A	C/A	C/A	A/O	A/O	A/O	A/O	A/O	A/O
BACKING WEIGHT:	C-Wt.	C-Wt.	B-Wt.	B-Wt.	B-Wt.	B-Wt.	B-Wt.	C-Wt.	C-Wt.
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded
SIZE:	2-3/4" x 25yd	2-3/4" x 30yd	2-3/4" x 45yd	2-3/4" x 25yd	2-3/4" x 30yd	2-3/4" x 45yd	4-1/2 x 10 yd	2-3/4" x 20yd	2-3/4" x 25yd

GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.						
80	1/5	66261149566	66261149565	66261149562	66261131691	66261131690	66261131688	66261131697	66261160325						
100															
120															
150															
180															
220															
240															
320															
400															
600															
100										66261149564	66261149561	66261131689	66261131688	66261131696	66261131695
120										66261149558	66261131686	66261131687	66261131694	66261131693	66261160324
150										66261149557	66261131685	66261131683	66261131692	66261160323	66261160322
180										66261131681	66261131681	66261131681	66261131681	66261160321	66261160352
220	66261131679	66261131679	66261131679	66261131679	66261160351	66261160352									



PSA Roll Accessories

PSA Roll Dispenser

- Heavy-duty wire dispenser has a vinyl coating to protect the work surface
- Accommodates two 2-3/4" PSA rolls; stackable for multi-grit operations. Attach to wall or mount on cabinet



PSA Sanding Blocks

- Ergonomically-shaped flexible foam blocks used with 2-3/4" rolls, fit comfortably in your hand
- Firm block produces a true flat surface
- The soft block is designed for flat surfaces and contours

DESCRIPTION	STD. PKG.	PART NO.
PSA Roll Dispenser	1	63642542773

SIZE	DESCRIPTION	STD. PKG.	PART NO.
2-3/4 x 5	PSA – Soft	5	63642542090
2-3/4 x 5	PSA – Firm	5	63642542091
2-3/4 x 7-3/4	PSA – Firm	5	63642542094



Rotolo Foam Sanding Pads

FEATURED PRODUCTS



NORTON A275

THE BETTER CHOICE FOR FINE SANDING FLAT AND CURVED SURFACES

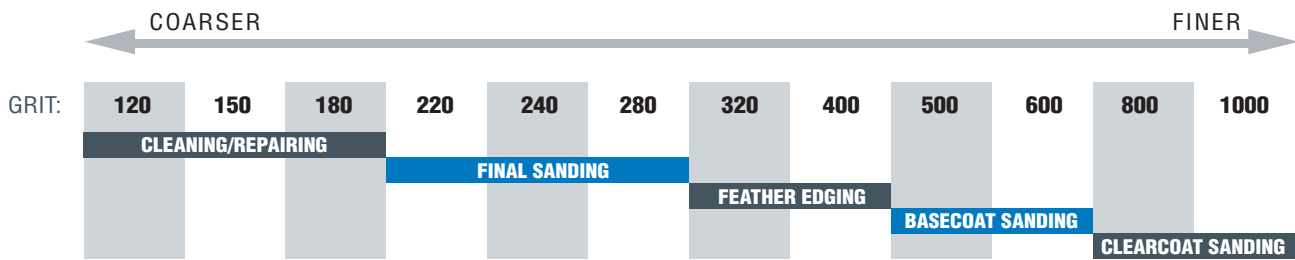
FEATURES

- A275 (premium P-graded, aluminum oxide grain with No-Fil coating) on Rotolo foam backing
- 4-1/2" wide x 82" long roll perforated every 5-1/2"
- Convenient dispensing box

BENEFITS

- Perfect for hand sanding without leaving finger marks
- Provides outstanding finish on wood, metal, and composites, and primers, sealers and top coats
- Fast cut and long life without loading
- Compatible with all coatings
- 50% – 60% improvement in tear strength
- Standard 1/4 sheet size for hand or machine sanding; 178 sheets per roll
- Protects A275 Rotolo foam from damage

APPLICATION/GRIT RECOMMENDATION GUIDE



AVAILABILITY

TIER:	BETTER
BRAND:	Norton
TRADENAME:	ROTOLO
ABRASIVE:	Aluminum Oxide

SIZE (W X L)	GRIT SIZE	STD. PKG.	PART NO.
4-1/2" x 82'	P120	2	6364255316
	P150	2	63642557584
	P180	2	63642557599
	P220	2	63642557600
	P240	2	63642557602
	P280	2	63642557604
	P320	2	63642557606
	P400	2	63642557608
	P500	2	63642557611
	P600	2	63642557612
	P800	2	63642557613
	P1000	2	63642557616





CATEGORY DEFINITION

Engineered for flexibility and fast cutting, cloth sheets and rolls have a longer life than paper. They tear cleanly and straight without shedding and are packed in a protective dispenser to eliminate waste and damage.

- CATEGORIES: All Purpose Aluminum Oxide Cloth Sheets and Rolls (Metalite), Emery Cloth Sheets, Silicon Carbide Screen Sheets and Rolls
- APPLICATIONS: Scouring and light deburring, scale and rust removal, blending and fine sanding, polishing lathe turnings, rolls and cylinders, and blending machine tool marks
- SIZE RANGE: Sheets: 9" x 11"
Rolls: 1" x 10 yds., 1-1/2" – 2" x 25 yds., 1" – 4" x 50 yds.
- GRIT RANGE: 40 – 600, extra coarse, coarse, medium, fine
- ABRASIVE GRAIN: Aluminum Oxide, Silicon Carbide, Emery

CROSS REFERENCE GUIDE

NORTON	GOOD	Metalite K224/K225	Metalite K227	Emery K622	Screen-Bak Q421
3M	311T Three-M-lte BG 211K Electrocut		211K Three-M-lte 311K Three-M-lte	011k Crystal Bay	481Q
Hermes	RB317LX		RB232J	–	–
Klingspor	CS310X		KL361	KL371	–
Sait	DA-F		EA-F	–	Saitscreen
SIA	–		2947J	C680J	–
VSM	KK504X		KK504J, KK504X	–	–

APPLICATION/STARTING RECOMMENDATION GUIDE

Durability/Stock Removal Fast Cut	Conformability Excellent Finish	Slower Cut Fine Finish	Waterproof Load Resistant
Metalite K224/K225	Metalite K227	Emery K622	Screen-Bak Durite Q421

**AVAILABILITY
CLOTH SHEETS**

TIER:				
BRAND:	GOOD	GOOD	GOOD	GOOD
TRADENAME:	Norton	Norton	Norton	Norton
ABRASIVE:	METALITE K224/K225	METALITE K227	EMERY K622	SCREEN-BAK Q421
OTHER:	Aluminum Oxide	Aluminum Oxide		Silicon Carbide
	P-Graded	P-Graded		P-Graded/Waterproof

SIZE (D X H)	GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	MIN. STD. PKG.	PART NO.
9 x 11	40	25/125	66261058713				
	50	25/125	66261101862				
	60	25/125	66261101861				
	80	25/125	66261126340	66261101750		25/125	66261100960
	100	50/250	66261126339	66261101745		25/125	66261100955
	120	50/250	66261126338	66261101740		25/125	66261100950
	150	50/250	66261126337	66261101735		25/125	66261100945
	180	50/250	66261126336	66261101730		25/125	66261100940
	220	50/250	66261126335			25/125	66261100935
	240	50/250	66261126334				
	280	50/250	66261126333	66261101720			
	320	50/250	66261126332	66261101710		25/125	66261100920
	400	50/250	66261126331	66261101705		25/125	66261100915
	500	50/250		66261101700			
	600	50/250	66261126330				
	Extra Coarse	25/125			66261101255		
	Coarse	25/125			07660701307		
	Medium	50/250			07660701309		
	Fine	50/250			07660701308		



**AVAILABILITY
CLOTH ROLLS**



TIER:	GOOD	GOOD	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	K224/K225	K224/K225	K224/K225	K224/K225	K224/K225
ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
SIZE:	1" x 10 yds	1" x 50 yds	1-1/2" x 50 yds	2" x 50 yds	4" x 50 yds
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded	P-Graded

GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
40	1/5		66261058716	66261058715	66261058714	
50			66261127728	66261127730	66261127732	
60			66261127729	66261127731	66261127733	
80		66261134298	66261126276	66261126288	66261126299	
100		66261134299	66261126275	66261126287	66261126298	
120		66261134300	66261126274	66261126286	66261126297	66261127285
150		66261134301	66261126273	66261126285	66261126296	
180		66261134302	66261126272	66261126284	66261126295	
220			66261126271	66261126283	66261126294	
240		66261134303	66261126270	66261126282	66261126293	
280			66261126269	66261126281	66261126292	
320		66261134304	66261126268	66261126280	66261126291	
400			66261126267	66261126279	66261126290	
600			66261126266	66261126278	66261126289	

**AVAILABILITY
CLOTH ROLLS**



TIER:	GOOD	GOOD	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	K227	K227	K227	Q421	Q421
ABRASIVE:	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Silicon Carbide	Silicon Carbide
SIZE:	1" x 50 yds	1-1/2" x 50 yds	2" x 50 yds	1-1/2" x 25 yds	2" x 25 yds
OTHER:	P-Graded	P-Graded	P-Graded	P-Graded Waterproof	P-Graded Waterproof

GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
80	1/5	66261109180	66261109255	66261109335	66261107275*	
100		66261058721	66261058719	66261109330		
120		66261109170	66261109245	66261109325	66261107270*	66261149811*
150		66261058720	66261058717	66261109320		
180		66261109160	66261109235	66261109315	66261107265*	
240			66261109225	66261109305		
280		66261109150				
320		66261109140	66261109215	66261109295		

* PACKAGING STANDARDS: MIN. /STD. PKG.: (Q421) 1/10

FastTrack Service – Cloth Rolls

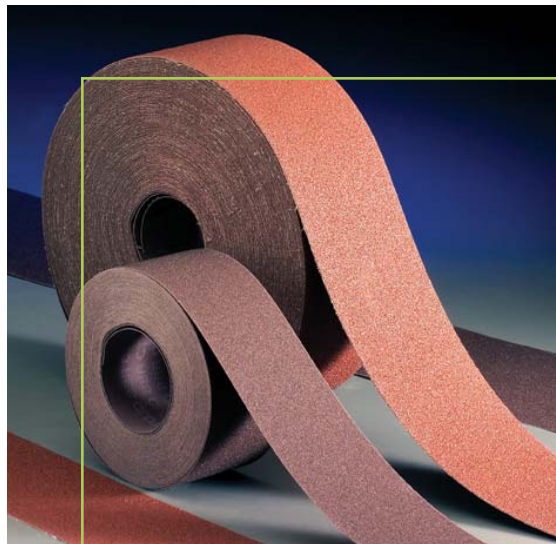
FastTrack delivery is available on made-to-order aluminum oxide R228 and K225 50-yard rolls with 5-day lead-time. Contact your local distributor for details and prices.

Availability

- Width: 2" – 12"
- Length: 50 yards

FastTrack Roll Quantity Availability

WIDTH	MINIMUM QTY.	MAXIMUM QTY.
2" to <3"	5 Rolls	10
3" to <4"	4 Rolls	8
4" to <5"	3 Rolls	6
5" through 7"	2 Rolls	4
>7" through 12"	1 Roll	2





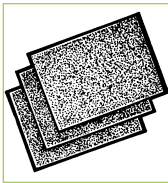
CATEGORY DEFINITION

Flexible, abrasive sanding sponges for a wide variety of curved, contoured or flat surface applications on wood, metal, paint, plastic, ceramics and drywall.

APPLICATIONS: Light stock removal, sanding sealer and wash-coats, touch-up or repair of primer, sanding contours and intricate shapes, and finishing

- BENEFITS:**
- Can be used wet or dry
 - Clog resistant, washable, reusable
 - Easy to use, can be folded without cracking
 - Conformable
 - Generate a consistent surface finish

WHY CHOOSE ABRASIVE SPONGES VERSUS CONVENTIONAL SHEETS?



Eliminate Clogging

- The combination of flexible foam backing material and abrasive grit continually releases sanded material
- Any clogging can be washed out

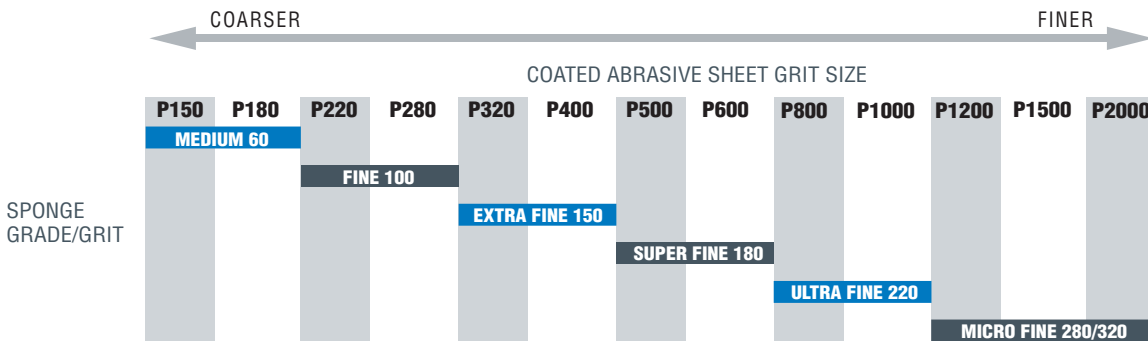
Pressure Control

- Foam backing allows optimum pressure distribution to prevent sanding through surfaces
- Pressure spots are eliminated providing even surface pattern

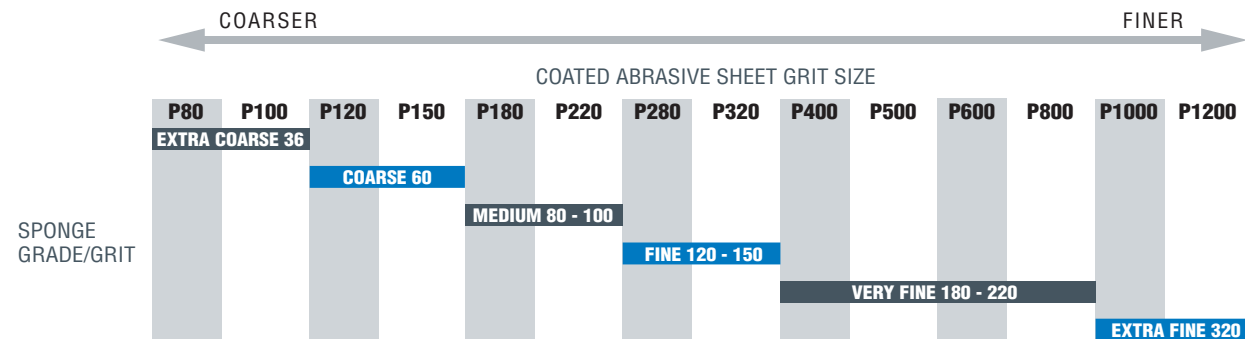
Adapt to Contours

- Flexible foam allows adaptability to contours, shapes or areas of limited access
- No folding or buckling results in an even pattern without scratching

SURFACE FINISHING CHART – CONTOUR SPONGES VERSUS SHEETS



SURFACE FINISHING CHART – SPONGE PADS VERSUS SHEETS

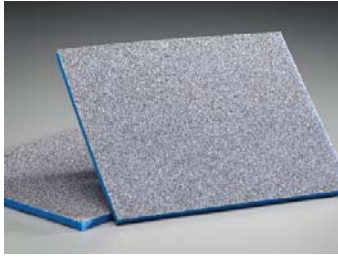


CROSS REFERENCE GUIDE

	BETTER SoftTouch	GOOD CONTOUR	GOOD SMALL AREA	GOOD PROFILE	GOOD SEALER SANDING	GOOD FLEXIBLE
NORTON						
3M	Softback	Contour	Full Size	High Flexibility	Woodworking	Pro Pads
Hermes	Single Side	-	Four Sided	-	Two Sided	-
Klingspor	-	-	-	-	Foam Sanding Pad	-
SIA	Flat Pad	-	Standard Block	-	Standard Pad	-



FEATURED PRODUCTS AND AVAILABILITY



BETTER SOFTTOUCH CONTOUR SPONGES – COATED 1 SIDE

- Superior flexibility; for hand-sanding or finishing flat, curved, contoured and hard-to-reach areas on wood, metal, composites, paint and solid surfaces
- Premium foam substrate provides for an extremely smooth and uniform sanded surface

SIZE (W X L X T)	GRIT	STD. PKG.	PART NO.
4-1/2 x 5-1/2 x 3/16	60 Medium	80	07660703074
	100 Fine	80	07660703075
	180 Super Fine	80	07660703076
	220 Ultra Fine	80	07660703077
	280 Micro Fine	80	07660703078



GOOD CONTOUR SPONGES – COATED 1 SIDE

- Thin, flexible; good for sanding small diameters and contours such as ceramics, spindles, turnings and railings

SIZE (W X L X T)	GRIT	STD. PKG.	PART NO.
4-1/2 x 5-1/2 x 3/16	100 Fine	100	07660702257
	150 Extra Fine	100	07660702256
	220 Ultra Fine	100	07660702255
4-1/2 x 5-1/2 x 3/16	100 Fine	100	69957391449
	150 Extra Fine	100	66261091122
	220 Ultra Fine	100	66261041891



GOOD SMALL AREA GENERAL PURPOSE SPONGES – COATED 4 SIDES

- Good for a wide variety of materials and sanding applications where moderate flexibility is needed
- Medium to firm density open cell polyurethane foam provides uniform support and moderately aggressive cutting action while generating a smooth surface

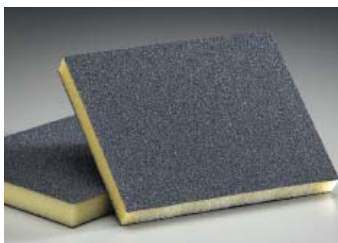
SIZE (W X L X T)	GRIT	STD. PKG.	PART NO.	STD. PKG.	PART NO.
4 x 2-3/4 x 1	36/80 Ex. Coarse/Med	24	07660749505	250	07660704735
	80/80 Med/Med	24	07660749507	250	07660701875
	80/120 Med/Fine	24	07660749504	250	07660702600
	120/120 Fine/Fine	24	07660749506	–	–



GOOD PROFILE SPONGES – COATED 3 SIDES

- Good for corners and flat surfaces on wood, metal, plastic and paint
- Ideal for cabinet sanding of raised profile doors

SIZE (W X L X T)	GRIT	STD. PKG.	PART NO.
4 x 2-3/4 x 1/2	60 Coarse	500	63642536314
	100 Medium	500	63642536313



GOOD SEALER SANDING SPONGES – COATED 2 SIDES

- Very flexible; silicon carbide abrasive for sanding primers, sealers and between coats on furniture and cabinets

SIZE (W X L X T)	GRIT	STD. PKG.	PART NO.
4-3/4 x 3-3/4 x 1/2	60 Coarse	250	63642536334
	80 Medium	250	63642502538
	100 Medium	250	63642552870
	150 Fine	250	63642552869
	220 Very Fine	250	63642552868



GOOD FLEXIBLE ABRASIVE SPONGES – COATED 1 SIDE

- Ideal for final sanding of surfaces, primer sanding and between coats sanding
- Best initial price point for abrasive sponges

SIZE (W X L X T)	GRIT	STD. PKG.	PART NO.	STD. PKG.	PART NO.
3 x 4 x 1/2	60 Coarse	48	07660704068	108	07660701110
	80 Medium	48	07660704067	108	07660704070
	100 Medium	48	07660704066	108	07660700950
	150 Fine	48	07660704065	108	07660700949
	220 Very Fine	–	–	108	07660704069



NORTON **SG**
BLAZE

NorZon[®]
BLUEFIRE

NORZON



CATEGORY DEFINITION

Portable file belt sanders have replaced tedious hand filing and sanding. First introduced in pneumatic, they are now available in electric. Increasingly, tool manufacturers are introducing additional fixtures for an increasing number of applications. The belts listed are popular stock sizes, but additional sizes, specifications, backing materials, and edge scallops are available made-to-order.

- APPLICATIONS: Light weld removal and blending, shape and contour sanding, surface preparation prior to coating and plating, removing cutting tool marks from molds and dies, general clean-up and finishing
- SIZE RANGE: 1/8" to 1" wide, 12" to 30" long
- GRIT RANGE: 40 – 120
- ABRASIVE GRAIN: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide

CROSS REFERENCE GUIDE

<i>NORTON</i>	BEST Norton SG Blaze R980P	BEST Norton SG R981	BETTER NorZon R823	GOOD Metalite R283
3M	977F	963G, 967F	577F, 777F	241E
Hermes	CR456	–	RB486 44 Z	RB317J, RB316EJ RB303 Flex
Klingspor	CS610YY	–	CS411YX, CS 409Y	CS310XF
SIA	–	–	–	933A, 936A
VSM	SK840X, SK750X	–	KK715X	KK711T, KK511J

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	HEAVY-DUTY		GENERAL-DUTY
	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
Carbon Steel	Norton SG Blaze R980P	NorZon R823	Metalite R283
Stainless Steel / Alloys	Norton SG Blaze R980P	NorZon R823	Metalite R283
Cast Iron	Norton SG Blaze R980P	NorZon R823	Metalite R283
Brass/Bronze	–	NorZon R823	Metalite R283
Aluminum	–	NorZon R823	Metalite R283

FEATURED PRODUCTS



NORTON SG BLAZE R980P

BEST FOR STAINLESS, COBALT, CHROME, INCONEL, TITANIUM, MILD AND CARBON STEEL

FEATURES

- Next-generation cooler cutting Norton SG ceramic alumina grain
- Y-wt. polyester waterproof cloth backing
- Improved resin bond system
- Advanced "supersize" grinding lubricant

BENEFITS

- Lasts 50% to 200% longer on mild and carbon steel, stainless, cobalt, chrome, Inconel and titanium
- Cuts 20% faster than the current generation of ceramic alumina grinding belts
- Better metal integrity
- Edge-fray resistance
- Improved body-retention during use for more consistent grinding throughout belt life
- Significantly improved belt life due to exceptional grain adhesion
- Cooler cutting during the life of the belt
- Improved part finish and integrity



FEATURED PRODUCTS



NORZON R823

THE BETTER CHOICE FOR STAINLESS AND CARBON STEEL

FEATURES

- Premium, self-sharpening zirconia alumina
- Durable grain coating
- Strong X-wt. polyester waterproof backing

BENEFITS

- Aggressive abrasive, rapid cut rate
- Strong grain adhesion, longer life
- For moderate- to heavy-pressure applications

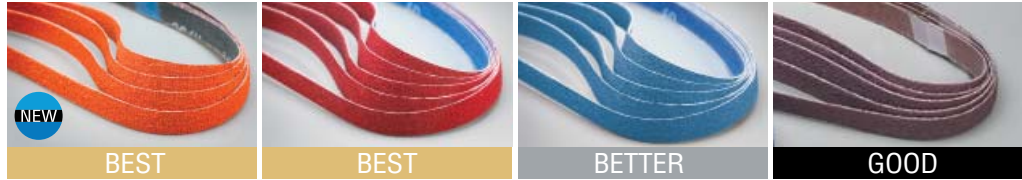
AVAILABILITY

TIER:	BEST	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton
TRADENAME:	SG BLAZE R980P	NORTON SG R981	NORZON R823	METALITE R283
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina	Aluminum Oxide
BACKING:	Y-wt. Polyester	Y-wt. Polyester	X-wt. Polyester	X-wt. Rayon
OTHER:	Supersize			

SIZE (W X L)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
12" BELTS						
1/8 x 12	40	50	66254491518	66254491521	66254492520	66254491536
	60	50	66254405345	66254491522	66261093029	
	80	50	66261089479	66254491523	66261093030	66254491537
	120	50	66254491519	66254491524	66224491533	66254491538
1/4 x 12	40	50	66254491520	66254491525	66254492521	66254491539
	60	50	66261196480	78072760823	78072758896	
	80	50	66261063617	66254491526	78072782621	78072766143
	120	50	66261063632	66254491527	78072782622	78172763175
1/2 x 12	40	50	69957398018	66254491528	66254492522	78072727557
	50	50	66261043759	78072718700	66254492523	66254491540
	60	50	69957398019	78072718701	78072728745	78072727555
	80	50	69957398020	78072718702	78072728744	78072727554
	100	50	66261081180	66254491529	66254491534	78072727553
	120	50	66261042909	78072700518	78072728742	78072727552
1 x 12	60	50	66261063641	78072761985	78072753073	78072773813
13" BELTS						
3/8 x 13	60	50	69957345359	78072745459	78072740295	78072732112
	80	50	69957392150	78072774916	78072736062	78072771323
18" BELTS						
1/8 x 18	40	50	66254475211	66254491530	66254492524	66254491541
	60	50	66261080010	78072781570	66254491535	
	80	50	66261089120	78072789083	78072760595	63642594761
	120	50	66254475215	78072789084	63642595221	66254491542
1/4 x 18	40	50	66261027923	66261198953	66254492525	66254491543
	60	50	69957347249	78072774684	78072743583	78072771000
	80	50	69957346155	78072703284	78072753075	78072773921
	120	50	66261085071	78072785655	78072773764	78072773763
1/2 x 18	40	50	69957398021	78072766018	66254444193	78072727561
	60	50	69957398022	78072718704	78072728569	78072727560
	80	50	69957398023	78072718705	78072728568	78072727559
	120	50	66261041384	78072718706	78072728567	78072727558
3/4 x 18	40	50	69957398027	78072762476	66254492526	78072781797
	60	50	69957398028	78072745691	78072709590	78072739966
	80	50	69957398029	78072756309	78072758953	78072732289
20-1/2" BELTS						
3/4 x 20-1/2	40	50	69957398030	78072714398	66254457869	78072727573
	50	50	69957344982	78072718714	66254492527	66254491544
	60	50	69957398031	78072718715	78072728560	78072727571
	80	50	69957398032	78072718716	78072728559	78072727570
	100	50	66261055516	78072771151	66261038911	78072727569
	120	50	66261044755	78072727380	78072728557	78072727575



AVAILABILITY



TIER:	BEST	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton
TRADENAME:	SG BLAZE R980P	NORTON SG R981	NORZON R823	METALITE R283
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina	Aluminum Oxide
BACKING:	Y-wt. Polyester	Y-wt. Polyester	X-wt. Polyester	X-wt. Rayon
OTHER:	Supersize			

SIZE (W X L)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
24" BELTS						
1/4 x 24	40	50	66261198631	78072747823	66254473499	66254401929
	60	50	69957345451	78072756534	78072728552	78072727548
	80	50	63642596940	78072718340	78072767713	78072791441
	120	50	66261080367	78072770718	78072728550	78072722137
1/2 x 24	40	50	69957398024	78072760092	66254492528	78072727568
	50	50	66261043757	78072718707	66254452237	78072727567
	60	50	69957398025	78072718708	78072728564	78072727566
	80	50	69957398026	78072718709	78072728566	78072727565
	100	50	66261042203	78072745021	78072753076	66254491545
	120	50	66261042565	78072718710	78072728565	78072727564
1 x 24	40	50	69957350019	66254491531	66254492529	66254491546
	50	50	69957344889	78072710374	66254492530	66254491547
	60	50	69957353375	78072737318	78072798720	66254491548
	80	50	69957345419	78072772209	78072776498	66261085068
	120	50	66261085067	66254491532	78072730029	66261085069
30" BELTS						
1 x 30	40	50	66261053470	78072765229	66254478257	66261189958
	60	50	69957345985	66261198336	78072728583	66254491549
	80	50	69957346105	78072764439	78072728582	78072727579
	120	50	66261193676	78072781197	78072766992	78072727577

ADDITIONAL SIZES, GRITS AND SCALLOPED EDGE BELTS ARE AVAILABLE MTO (MADE-TO-ORDER). PLEASE CONTACT YOUR LOCAL NORTON DISTRIBUTOR TO CHECK AVAILABILITY.

40 AND 50 GRIT NORZON BELTS ARE FURNISHED IN NORZON BLUEFIRE R887 (Y-WT POLYESTER)

JOINTS AND FLEXES – ALL BELTS ARE PG JOINTED; A BUTT JOINT JOINED WITH FLEXIBLE TAPE FOR CONTOUR GRINDING



Non-Woven File Belts

AVAILABILITY



TIER:	BETTER	GOOD
BRAND:	Norton	Norton
TRADENAME:	STE-VS	STE
ABRASIVE:	Aluminum Oxide	Aluminum Oxide

SIZE (W X L)	GRIT SIZE	STD. PKG.	PART NO.	PART NO.
NON-WOVEN FILE BELTS				
1/2 x 18	Coarse	24	66261009048	66261055309
	Medium		66261008814	66261055310
	Very Fine		66261006762	66261055311
1/2 x 24	Coarse	24		66261055312
	Medium		66261008972	66261055313
	Very Fine			66261055314
3/4 x 18	Coarse	24	66261008813*	08834194006
	Medium		66261006546*	08834194007
	Very Fine			08834194008
3/4 x 20-1/2	Coarse	24		08834194009
	Medium			08834194010
	Very Fine			08834194011

*12 PER STANDARD PACKAGE

Norton non-woven file belts are ideal for light finishing, blending, cleaning and polishing applications on all materials.

STE-VS – have a firmer backing and more aggressive cut rate for blending and finishing

STE – have a more conformable backing and more open structure, and are designed for cleaning and polishing



CATEGORY DEFINITION

Portable belts are ideal for all your metal and woodworking applications. Choose 36 – 50 grits for rough/heavy-duty applications, 60 – 100 for intermediate, and 100 – 220 for finishing/polishing applications. Stock is available for wood applications and FastTrack service is used for all other applications.

APPLICATIONS:	Grinding and finishing all metals, blending welds, sanding and finishing wood, glass seaming, and polishing
SIZE RANGE:	3" to 4" wide, 15-1/2" to 24" long
GRIT RANGE:	36 – 220
ABRASIVE GRAIN:	Ceramic Alumina, Zirconia Alumina, Aluminum Oxide

CROSS REFERENCE GUIDE

<i>NORTON</i>	BEST Norton SG Blaze R980P	BETTER NorZon R811	GOOD Metalite R215/R228
3M	977F, 967F, 963G	777F, 577F	241D, 340D
Hermes	RB346MX	RB484Z	RB316XOP
Klingspor	CS610YY	CS411Y	CS311YX, CS310X, LS309XH
Sait	–	ZH	AOX, IAX
SIA	–	–	2903XO, 2905X, 2920X
VSM	SK855X	ZK713X	KK511X, KK711X, KK504X

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

	HEAVY-DUTY		GENERAL-DUTY
	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
Wood	–	NorZon R811	Metalite R215
Stainless Steel / Carbon Steel	Norton SG Blaze R980P	NorZon R824	Metalite R228
Brass / Bronze / Aluminum	–	NorZon R811	Metalite R215

FEATURED PRODUCTS



NORTON SG BLAZE R980P

BEST FOR STAINLESS, COBALT, CHROME, INCONEL, TITANIUM, MILD AND CARBON STEEL

FEATURES

- Next generation cooler cutting Norton SG ceramic abrasive grain
- Y-weight polyester waterproof cloth backing
- Improved resin bond system
- Advanced "supersize" grinding lubricant

BENEFITS

- Lasts 50% to 200% longer on mild and carbon steel, stainless, cobalt, chrome, Inconel and titanium
- Cuts 20% faster than the current generation of grinding belts
- Better metal integrity
- Greater productivity; lowest total grinding costs
- Edge-fray resistance
- Improved body retention during use for more consistent grinding throughout belt life
- Significantly improved belt life due to exceptional grain adhesion
- Cooler cutting during the life of the belt
- Improved part finish and integrity



NORZON R811

THE BETTER CHOICE FOR STAINLESS STEEL

FEATURES

- Premium, self-sharpening zirconia alumina
- Reversible butt splice
- Open-coat design, strong Y-wt. cotton backing

BENEFITS

- Aggressive abrasive, rapid cut rate, long life
- Use in either direction for longer life
- Reduced loading, extended life



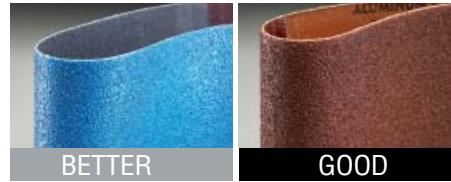
Portable Belts for Belt Sanders

Portable electric belt sanders are used on wood, metal, and other materials, for applications ranging from stock removal to finishing. They consist of an electrical motor that turns a pair of drums on which an abrasive belt is mounted.

Belt sanders can be either hand-held, where the sander is moved over the material, or stationary (fixed), where the material is brought to the sanding belt.



AVAILABILITY



TIER:	BETTER	GOOD
BRAND:	Norton	Norton
TRADENAME:	NORZON R811	METALITE R215
ABRASIVE:	Zirconia Alumina	Aluminum Oxide
JOINT:	Plyweld	Plyweld
GRAIN COATING:	Open Coat	Open Coat

SIZE W X L	GRIT	MIN./ STD. PKG.	PART NO.	PART NO.
3 x 18	36	5/25		07660702353
	50		07660749259	07660700964
	80		07660749258	07660700968
	120		07660749256	07660700969
3 x 21	36	5/25	07660749266	07660701741
	50		07660749265	07660701740
	80		07660749264	07660702064
	100		07660749263	07660702063
	120		07660749262	07660702062
	220		07660705287	07660705287
3 x 24	36	5/25	07660749272	07660701743
	50		07660749271	07660701742
	80		07660749270	07660702067
	100		07660749269	07660702066
	120		07660749268	07660702065
	220		07660705286	07660705286
4 x 24	36	5/25	07660749278	07660701745
	50		07660749277	07660701744
	80		07660749276	07660702069
	100		07660749275	
	120		07660749274	07660702068
	180			07660705285

Portable Belts for Pneumatic In-Line Drum Sanders



AVAILABILITY



TIER:	BEST	BEST	GOOD
BRAND:	Norton	Norton	Norton
TRADENAME:	SG BLAZE R980P	NORTON SG R981	METALITE R215
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Aluminum Oxide
JOINT:	Plyweld	Plyweld	Plyweld
GRAIN COATING:	Close Coat / Supersize	Close Coat / Supersize	Open Coat

SIZE W X L	GRIT	MIN./ STD. PKG.	PART NO.	PART NO.	PART NO.
3-1/2 x 15-1/2	36	10/50		78072700783	78072721997
	60			78072718750	78072722000
	80		63642593514	78072718751	78072721995
	120			78072718753	



FastTrack Belt Service

For non-stock belts, FastTrack Service Centers offer all the benefits of an ISO 9001 quality manufacturer and the advantages of a coated abrasives express belt service. As the industry's leading producer of abrasive material and backings, our FastTrack service offers an extensive range of Norton made-to-order belts including Norton SG ceramic alumina, NorZon zirconia alumina, and versatile aluminum oxide and silicon carbide belts.

Also available in FastTrack are a full line of Merit brand belts. Merit belts have been developed with one simple goal in mind: to provide you economically-priced ceramic alumina, zirconia alumina, aluminum oxide and silicon carbide belts to meet a wide range of applications.

Manufacturing lead-time is two days for narrow belts (1/2"- 12") and five days for wide belts =>14". Please see the FastTrack belt section for complete availability and lead-times.



CATEGORY DEFINITION

A wide selection of sizes and grits for most dimensioning, intermediate grinding and polishing applications.

APPLICATIONS: Benchstand and Backstand Belts: grinding and deburring of all metals, heavy stock removal, blending, dimensioning and shaping, polishing.
Centerless, Conveyor and Platen Belts: intermediate grinding stainless and carbon, moderate-pressure applications, dimensioning and finishing.

SIZE RANGE: 1" to 10" wide, 36" to 132" long

GRIT RANGE: 36 – 320

ABRASIVE GRAIN: Ceramic Alumina, Zirconia Alumina, Aluminum Oxide

200+ NEW STOCK ADDITIONS!

CROSS REFERENCE GUIDE

NORTON	BEST NORTON SG R980P	BEST NORTON SG R981	BETTER NORZON R801	BETTER NORZON R821	BETTER NORZON R823	BETTER NORZON R824	GOOD METALITE R228
3M	987F1, 977F, 777F, 967F, 963G, 963H	987F1, 977F, 777F, 967F, 963G, 963H	577F, 567G, 777F 977F	561D	561F Y, 551E XE 741A, 741E, 761D	561D, 561F, 563F 741A, 741E, 761D 761F	240DZ OPK, 270DZ OPK, 241D, 248D, 251D, 341I Imperial, 351D
Hermes	CR456	CR456	RB486X, RB486Y RB426-23MX	–	RB486 X, RB346-23MX RB426-23MX, RB484TY RB486XF	RB484TY, RB486Y, RB346-23MX, RB426-23MX RB480-21MX, CB440Y, RB486XY	RB3160P RB317LX RB346MX
Klingspor	CS612YY, CS610YY	CS612YY, CS610YY	CS409Y	CS411Y	CS411X	CS411Y	CS311X, CS310, CS410
SIA	–	–	–	–	–	2800, 2803, 2929	2903X0, 2905X, 2920X
VSM	SK840X, SK750X	SK840X, SK750X	KK815Y, ZK744X	–	KK715X	KK716Y, ZK713X	KK511X, KK711

MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

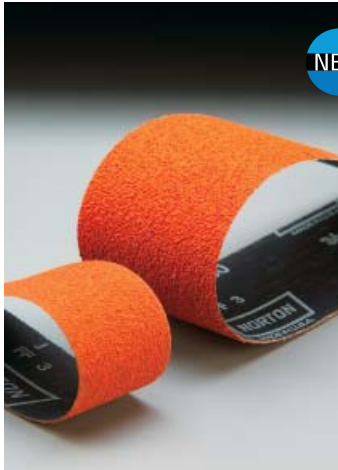
	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
Aluminum	–	NorZon R824/R823	Metalite R228
Cast Iron	Norton SG Blaze R980P	NorZon R824/R823	Metalite R228
Brass / Bronze	–	NorZon R824/R823	Metalite R228
Die Castings	Norton SG Blaze R980P	NorZon R824/R823	Metalite R228
Carbon Steel	Norton SG Blaze R980P	NorZon R824/R823	Metalite R228
Glass / Ceramics	Norton SG Blaze R980P	NorZon R821	Durite R480
Stainless Steel and Alloys	Norton SG Blaze R980P	NorZon R824/R823 NorZon R801	Metalite R228
Wood	–	NorZon R811	Metalite R215

GRIT SELECTION RECOMMENDATION GUIDE





FEATURED PRODUCTS



NEW

NORTON SG BLAZE R980P

BEST FOR MILD AND CARBON STEEL, STAINLESS, COBALT, CHROME, INCONEL, TITANIUM

FEATURES

- Next-generation cooler cutting SG ceramic abrasive grain
- Y-wt polyester waterproof cloth backing
- Improved resin bond system
- Advanced “supersize” grinding lubricant

BENEFITS

- Lasts 50% to 200% longer on mild and carbon steel, stainless, cobalt, chrome, Inconel and titanium
- Cuts 20% faster than the current generation of grinding belts
- Longer belt life
- Better metal integrity
- Greater productivity; lowest total grinding costs
- Edge-fray resistance
- Improved body retention during use for more consistent grinding throughout belt life
- Significantly improved belt life due to better grain adhesion
- Cooler cutting during the life of the belt
- Improved part finish and integrity



NORTON SG R981

EXCEPTIONAL PERFORMANCE, ESPECIALLY ON HARD-TO-GRIND ALLOYS

FEATURES

- Norton SG ceramic abrasive
- Grinding-aid enhanced
- Strong Y-wt polyester, waterproof cloth backing

BENEFITS

- Exceptional life and value, especially on hard-to-grind alloys
- Longer life, cooler cut
- Improved grain adhesion, reduced edge-fray and better body retention, result in longer life and product consistency



NORZON R821

THE BETTER CHOICE FOR NONFERROUS METALS, GLASS, AND CERAMICS

FEATURES

- Premium self-sharpening zirconia alumina abrasive
- Durable grain coating
- Y-wt cotton backing

BENEFITS

- Aggressive, rapid cut rate
- Excellent grain adhesion: longer life
- Extended life on dry grinding applications



NORZON R824/R823

BETTER CHOICE FOR HEAVIEST-PRESSURE APPLICATIONS

FEATURES

- Premium self-sharpening zirconia alumina abrasive
- R824 – Durable Y-wt polyester, waterproof cloth backing
- R823 – Strong X-wt polyester backing; waterproof

BENEFITS

- Aggressive, rapid cut rate
- Excellent grain adhesion, reduced edge-fray and better body retention, result in longer life and product consistency
- More flexible than R824
- Available in finer grit sizes

TECHtip

TROUBLESHOOTING GUIDE

PROBLEM

CORRECTION

Loading

Decrease infeed pressure or belt speed

Shedding

Reduce applied pressure
Use a less aggressive contact wheel
Dress contact wheel if worn or damaged
Use entire surface of belt





Belt breakage

Reduce belt tension
Use less aggressive contact wheel
Check tracking mechanism for belts tracking erratically



Benchstand Belts – 1" to 6" wide, 36" to 72" long

AVAILABILITY





						
			BEST	BETTER	BETTER	GOOD
TIER:			Norton	Norton	Norton	Norton
BRAND:			SG BLAZE R980P	NORZON R821	NORZON R823	METALITE R228
TRADENAME:			Ceramic Alumina	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide
ABRASIVE:			Y-wt. Polyester	Y-wt. Cotton	X-wt. Polyester	X-wt. Cotton
BACKING:						
SIZE (W X L)	GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
1 x 42	36	50/200	66254476825			78072791710
	40		69957345887	78072726905		78072720910
	50		66254476826	78072726904		78072720905
	60		69957345486	78072726903	78072728596	78072720900
	80		66261041539	78072726902	78072728594	78072720895
	100		66261043462		78072728592	78072720890
	120		66261038660		78072728590	78072720885
	150				78072728588	78072720880
	180				78072728586	78072720875
	220				78072700001	78072720871
	240					78072720870
	320					78072720865
1-1/2 x 60	36	10/50	69957345578			78072721060
	40		63642595003			78072721055
	50		69957345664	78072726991		78072787807
	60		69957345631	78072726990		78072721045
	80		69957345579		78072726988	78072721040
	100				78072765077	69957351736
	120		66261056493		78072726984	78072721030
	180				78072758464	78072722855
	220				78072708871	78072756615
	240					
2 x 48	24	10/50		78072727103		78072726130
	36		63642592057	78072727102		78072721255
	40		69957345193	78072727101		78072721250
	50		69957346716	78072727100	78072728621	78072721245
	60		69957344423	78072727099	78072728619	78072721240
	80		69957345100		78072728617	78072721235
	100		66261052522		78072728615	78072721230
	120		66261052520		78072728613	78072721225
	150				78072728611	78072723246
	180				78072728609	78072721223
	220					78072763677
	320					78072746387
2 x 60	24	10/50				66261054787
	36		69957345196			78072701170
	40		69957394425	78072727124		78072721300
	50		69957346149			78072762537
	60		69957344901	78072727122		78072721290
	80		63642592574	78072727121		78072721285
	100		66261052222		66261082976	78072721280
	120		66261042738		78072761958	78072721275
	150					78072744018
	180				78072702695	78072720441
	220				78072706282	78072744020
	240					78072761862
	240					78072702825
	320					
2 x 72	24	10/50	66254433969			78072721335
	36		69957345460	78072727147		78072721332
	40		69957346729	78072727146		78072784894
	50		69957344966	78072727145		78072721325
	60		69957345157	78072727144	78072728645	78072721320
	80		69957344961	78072727142	78072728643	78072721315
	100		66261041897		66261025537	78072723235
	120		66261044095		78072728639	78072721318
	150				78072761770	78072761973
	180				78072763853	78072718488
	220				78072728633	78072765601
	320					78072721308

CONTINUED



Benchstand Belts – 1" to 6" wide, 36" to 72" long CONTINUED

AVAILABILITY

									
			BEST	BETTER	BETTER	GOOD			
			TIER:	Norton	Norton	Norton	Norton		
			BRAND:	Norton	Norton	Norton	Norton		
			TRADENAME:	SG BLAZE R980P	NORZON R821	NORZON R823	METALITE R228		
			ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide		
			BACKING:	Y-wt. Polyester	Y-wt. Cotton	X-wt. Polyester	X-wt. Cotton		
SIZE (W X L)	GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.			
2-1/2 x 48	36	10/50		78072727213		78072721540			
	50					78072721530			
	60					78072721525			
	80					78072721520			
2-1/2 x 60	24	10/50	69957344963 69957346523 69957345300 69957345002 69957346095 66261041380 66261041379	78072727235 78072727234 78072727233 78072727232 78072727231	78072728692 78072728690 78072728686 78072728682 78072778217	78072708296			
	36					78072721610			
	40					78072721605			
	50					78072721600			
	60					78072721595			
	80					78072721590			
	100					78072721585			
	120					78072721580			
	150					78072710118			
	180					78072721570			
	220					78072721565			
4 x 36	36	10/50		78072727475 78072727474 78072727473	78072728827 78072728825 78072728823 78072728821	78072722110			
	40					78072722105			
	50					78072722100			
	60					78072722095			
	80					78072722090			
	100					78072722085			
	120					78072722080			
	150					78072722079			
	180					78072722075			
	240					78072722926			
	320					78072722071			
4 x 54	36	10/50	69957346358 63642594113 66254469595 66261063419 69957345139	78072727518	78072725116 78072782996	78072722185			
	40					78072722180			
	50					78072722175			
	60					78072722170			
	80					78072722165			
	100					78072722160			
	120					78072722155			
	150					78072728381			
	180					78072759243			
220	78072762536								
4 x 60	24	10/50	66254461488 69957345298 69957391732 69957346715 63642594485 69957345099		78072774790 78072765086	78072772342			
	36					78072705189			
	40					78072744693			
	50					78072761630			
	60					78072762861			
	80					78072784685			
	100					78072763161			
	120					78072787840			
	150					78072704878			
	180					78072728393			
	220					78072790168			
6 x 48	36	10/20	69957345143	78072727698 78072727697 78072727696 78072727695 78072727694		78072722590			
	40					78072722585			
	50					78072722580			
	60					20/20	69957344422	78072728937 78072728935 78072728933 78072728931 78072770042	78072722570*
	80								78072722565*
	100	78072722560*							
	120	78072722555*							
	150	78072722550*							
	180	78072722546*							
	220	78072722545*							
	240	78072722543*							
	320								

* MIN./STD. PKG. IS 10/50

CONTINUED



Benchstand Belts – 1" to 6" wide, 36" to 72" long CONTINUED

AVAILABILITY

						
			BEST	BETTER	BETTER	GOOD
<i>TIER:</i>			Norton	Norton	Norton	Norton
<i>BRAND:</i>			SG BLAZE R980P	NORZON R821	NORZON R823	METALITE R228
<i>TRADENAME:</i>			Ceramic Alumina	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide
<i>ABRASIVE:</i>			Y-wt. Polyester	Y-wt. Cotton	X-wt. Polyester	X-wt. Cotton
<i>BACKING:</i>						
<i>SIZE (W X L)</i>	<i>GRIT</i>	<i>MIN./STD. PKG.</i>	<i>PART NO.</i>	<i>PART NO.</i>	<i>PART NO.</i>	<i>PART NO.</i>
6 x 60	36	10/20				78072722680
	40			78072727762		78072722679
	60	20/20	69957345149		78072728957	78072722665
	80				78072728955	78072722660
	100		66254477452			
	120					78072763882

Belt Cleaning Stick



- This solid, rubber cleaning stick is designed to remove wood and other non-metallic materials that build up on belt surface during use.
- Apply it to the face of the belt, while running, to remove unwanted materials and prolong the overall life of the belt up to 10 times.

<i>DESCRIPTION</i>	<i>STD. PKG.</i>	<i>PART NO.</i>
1-3/8 x 1-3/8 x 6	10	07660701717

TECHtip

A light bodied grease applied to a benchstand belt surface will reduce loading and greatly enhance the belt life and performance when grinding soft, malleable nonferrous materials such as aluminum, brass, bronze and copper.



Backstand Belts – Over 72" Long

AVAILABILITY



TIER:	BEST	BEST	BETTER	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	SG BLAZE R980P	SG R981	NORZON R824	NORZON R823	METALITE R228
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina	Zirconia Alumina	Aluminum Oxide
BACKING:	Y-wt. Polyester	Y-wt. Polyester	Y-wt. Polyester	X-wt. Polyester	X-wt. Cotton

SIZE (W X L)	GRIT	MIN./STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.			
2 x 132	36	10/50		78072753086	78072750016	78072728662	78072721470			
	40			78072740771	78072750015					
	50				78072750013					
	60				78072750011		78072721445			
	80			78072701958	78072750008		78072721440			
	120						78072721430			
3 x 132	24	25/50	69957344962	78072753087*	78072750140*	78072728794	78072721900			
	36		69957344710		78072750138* RR					
	36				78072750139* L					
	40		69957344964		78072701614*			78072728792	78072721890	
	50		69957344763		78072703709*				78072750135*	78072721885
	60		69957344958						78072728790	78072721880
	80		69957344764						78072728789	78072721875
	100								78072728789	78072721870
	120									78072721865
	150									78072721860
	180									78072721855
	220									
4 x 132	24	10/50	69957343852	78072739662	78072750289		78072722400			
	36				78072750287					
	40									
	60				78072750281					
	120				78072750279			78072722385		
8 x 107	36	10/20					78072722795			
	50						78072749887			
	60						20/20	78072722780		
	80						78072722775			
	100						78072722773			
10 x 70-1/2	36	5/10					78072722840			
	40						78072722835			
	50	10/10					78072722830			
	60						78072722825			
	80						78072722820			

* MIN./STD. PKG. IS 10/50

FastTrack Belt Service

For non-stock belts, FastTrack Service Centers offer all the benefits of an ISO 9001 quality manufacturer and the advantages of a coated abrasives express belt service. As the industry's leading producer of abrasive material and backings, our FastTrack service offers an extensive range of Norton made-to-order belts including Norton SG ceramic alumina, NorZon zirconia alumina, and versatile aluminum oxide and silicon carbide belts.

Also available in FastTrack are a full line of Merit brand belts. Merit belts have been developed with one simple goal in mind: to provide you economically-priced ceramic alumina, zirconia alumina, and aluminum oxide belts to meet a wide range of applications.

Manufacturing lead-time is two days for narrow belts (1/2"- 12") and three days for wide belts =>14". Please see the FastTrack belt section for complete availability and lead-times.





CATEGORY DEFINITION

NORaX belts outlast conventional abrasive belts with 2 - 5 times longer life. Longer life, higher quality finishes, faster cut rates, and the ability to skip finishing steps all help drive down the costs of your finishing processes.

- APPLICATIONS: Polishing and finishing
- SIZE RANGE: Stock: 1/8" to 1" wide, 12" to 30" long
- GRIT RANGE: Stock: X200 and X100
- ABRASIVE GRAIN: Stock: Ceramic Alumina

FEATURED PRODUCTS



NORAX U936 BELTS

BEST FOR HIGH-PRESSURE PRECISION APPLICATIONS

FEATURES

- Unique, engineered quad surface pattern
- 100% high-performance, micron-graded, cool-cutting Norton SG ceramic alumina abrasive grain
- Improved resin bond system
- Premium, Y-weight polyester waterproof backing
- Fray-resistant backing

BENEFITS

- More abrasive contact area
- Higher cut rates while maintaining more consistent finishes
- Up to more than 2X the life vs. competitive engineered ceramic belts
- Lower specific grinding energy
- Increased durability
- Durable; stands up to high-pressure, coolant applications
- Shred-free

AVAILABILITY

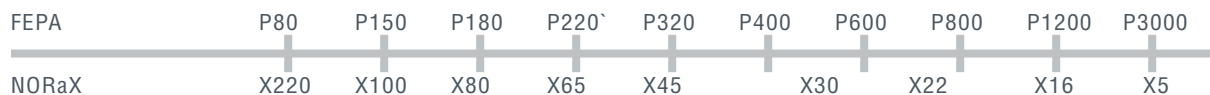
TIER:	BEST	BEST
BRAND:	Norton	Norton
TRADENAME:	NORAX U936	NORAX U936
ABRASIVE:	Ceramic Alumina	Ceramic Alumina
BACKING:	Y-wt. Polyester W/P	Y-wt. Polyester W/P
JOINT/FLEX:	Plyweld, TF	Plyweld, TF
GRIT SIZE:	X200	X100

SIZE W X L	MIN./STD. PKG.	PART NO.	PART NO.
1/4 x 12	50	66623300249	66623300261
1/2 x 12	50	66623300245	66623300258
1 x 12	50	66623300240	66623300255
1/4 x 18	50	66623300250	66623300262
1/2 x 18	50	66623300247	66623300259
3/4 x 18	50	66623300253	66623300264
3/4 x 20-1/2	50	66603300254	66623300265
1/4 x 24	50	66623300252	66623300263
1/2 x 24	50	66623300248	66623300260
1 x 24	50	66623300243	66623300256
1 x 30	50	66623300244	66623300257

Call your local Norton distributor or sales representative for information on additional NORaX belt sizes and specifications.

NORAX VERSUS FEPA GRADING

NORaX engineered abrasives perform over a wider range of traditional grit sequences.





CATEGORY DEFINITION

For many non-stock belts, FastTrack Service Centers offer all the benefits of an ISO 9001 quality manufacturer and the advantages of a coated abrasives express belt service. As the industry leader of abrasive belts, our FastTrack Service offers an extensive range of Norton made-to-order belts including Norton SG ceramic alumina, NorZon zirconia alumina, versatile aluminum oxide, and silicon carbide belts.

Also available in FastTrack are a full line of Merit brand belts. Merit belts have been developed with one simple goal in mind: to provide you economically-priced ceramic alumina, zirconia alumina, and aluminum oxide belts to meet a wide range of applications.

Manufacturing lead-time is two days for narrow belts (1/2" – 12" wide) and three days for wide belts (14 – 52" wide). Please see the FastTrack chart below for complete details on availability and lead-times.

NEW! 3-DAY LEAD-TIME FOR WIDE BELTS!

FASTTRACK AVAILABILITY AND LEADTIME INFORMATION

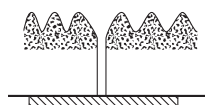
WIDTH	GRIT SIZE	MINIMUM FASTTRACK BELT ORDER (EQUALS 1 MIN./STD. PKG.)	MAXIMUM FASTTRACK BELT ORDER (EQUALS 2 STD. PKG.)	CONVERSION LEAD-TIME
Narrow Belts				
1/2" through 1"	All	50*	400*	2
Over 1" through 14"	All	10	20	2
Wide Belts				
Over 14" through 20"	All	5	10	3
Over 20" through 52"	36 and Coarser	2	4	3
Over 20" through 52"	40 - 80	3	6	3
Over 20" through 52"	100 and Finer	5	10	3

* 1/2" UP TO 1" BELTS: MIN .PKG. CONTINUES TO BE 50 BELTS AND STD. PKG. = 200 BELTS

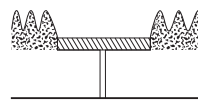
HOW TO ORDER

- Indicate "FastTrack belt order" on your order
- Obtain/provide a part number to ensure quick order entry
- Provide a full description of belt required, including:
 - Quantity, size, and specification (abrasive/CAP Code, grit size, flex, and joint)
- Verify that quantity is within FastTrack order limits

FASTTRACK STANDARD BELT JOINT AND FLEX INFORMATION



BJ (Butt Joint) – A conventional butt joint with an extra strong patch to eliminate joint breakage. Can be straight or wave.

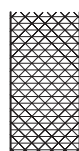


CJ (Channel Joint) – Preferred for woodworking. Supplied on selected F-wt. wide paper belts only. The patch material is inlaid into the top of the belt, making the thinnest, smoothest-running butt joint possible, which minimizes bumping and chattering, with no loss of strength.



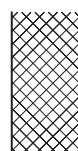
RR (Single Flex)

- Flex lines are perpendicular (90° angle) to the edge of the belt, creating a horizontal line pattern, providing flexibility in the lengthwise direction



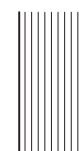
TF (Triple Flex)

- A combination of Single Flex and Double Flex
- It is specified on applications requiring maximum product conformability



CF (Cross Flex)

- Flex lines are at a 45° angle to the edge of the belt, making a series of diamond-shaped lines.



LF (Linear Flex)

- The bond is broken in the direction of the belt length, providing good product conformability with long life



BELT SPECIFICATIONS AND AVAILABILITY

TIER	PRODUCT CAP CODE	SHAPE AVAILABILITY	GRIT SIZE	ABRASIVE GRAIN	BACKING	STANDARD JOINT	STANDARD FLEX	APPLICATIONS
METALWORKING								
NORTON								
Best	R980P	Narrow, Wide	24-120	Norton SG Ceramic Alumina	Y-wt. Polyester	BJ	RR	Latest-generation Norton SG grain, supersized and designed for high-performance grinding on stainless and other alloys
Best	R984	Narrow, Wide	36-120	Norton SG Ceramic Alumina	Y-wt. Polyester	BJ	RR	Norton SG grain supersized for medium-pressure grinding and finishing heat-sensitive alloys
Better	R884	Narrow, Wide	24, 36-80	NorZon Zirconia Alumina	Y-wt. Polyester	BJ	RR	Newest-generation NorZon grain designed for medium- to high-pressure grinding
Better	R887	Narrow, Wide	24, 36-120	NorZon Zirconia Alumina	Y-wt. Polyester	BJ	RR	Newest-generation NorZon grain, supersized and designed for medium- to high-pressure grinding of heat-sensitive alloys
Better	R823	Narrow, Wide	60-220	NorZon Zirconia Alumina	X-wt. Polyester	BJ	RR	NorZon grain on lighter backing designed for light to medium grinding
Good	R222	Narrow	P80-P320, P400, P600	Aluminum Oxide	J-wt. Cotton	BJ	TF	Aluminum oxide on flexible, lightweight cotton backing for moderate- to light-pressure applications on mild steel
Good	R245	Narrow	P80-P240, P320, P400	Aluminum Oxide	J-wt. Polyester	BJ	LF	Aluminum oxide on flexible, lightweight polyester backing for moderate- to light- pressure applications on mild steel
Good	R445	Narrow	60-220	Silicon Carbide	X-wt. Polyester	BJ	RR	Sharp, silicon carbide grain on medium polyester backing for grinding very hard materials – glass, stone, solid surface
Good	U242	Narrow, Wide to 24"	X4, X16, X22, X30, X45, X65	Aluminum Oxide	J-wt. Cotton	BJ	CF	High-performance, multi-layered NORaX grain on very flexible backing for dry polishing applications
MERIT								
Best	SY965	Narrow, Wide	36-120	Ceramic Alumina	Y-wt. Polyester	BJ	RR	Ceramic alumina grain supersized for medium-pressure grinding and finishing heat-sensitive alloys
Better	SY603	Narrow, Wide	36-120	Zirconia Alumina	Y-wt. Polyester	BJ	RR	Zirconia alumina abrasive with a Y-wt. polyester backing and a grinding aid for weld removal and finishing of hard-to-grind materials; waterproof
Better	SY695	Narrow, Wide	24-80	Zirconia Alumina	Y-wt. Polyester	BJ	RR	Zirconia alumina grain designed for medium- to high-pressure grinding
Better	SX695	Narrow, Wide	60-220	Zirconia Alumina	X-wt. Polyester	BJ	RR	Zirconia alumina grain on lighter backing designed for light to medium grinding
Good	SY395	Narrow, Wide	24-120	Ceramic-coated Aluminum Oxide	Y-wt. Polyester	BJ	RR	Ceramic-coated aluminum oxide grain provides higher performance than standard aluminum oxide
Good	SX395	Narrow, Wide	P60-P240, P320, P400	Aluminum Oxide	X-wt. Polyester	BJ	RR	Higher-performance P-graded aluminum oxide grain and strong polyester backing for mild steel
Good	MX240	Narrow, Wide	P60-P150	Aluminum Oxide	X-wt. Poly/Cotton	BJ	CF RR	P-graded heat-treated aluminum oxide X-wt. cloth with strong, but flexible, cotton/polyester backing making it an ideal multi-purpose product
Good	KX375	Narrow, Wide	36-240, 320	Aluminum Oxide	X-wt. Cotton	BJ	RR	Initial starting specification for all metalworking applications
Good	KF376	Narrow	P80-P320 P400, P600	Aluminum Oxide	J-wt. Cotton	BJ	TF	P-graded, heat-treated aluminum oxide with ceramic coating on a very flexible backing for use wherever flexibility and conformability are needed

TIER	PRODUCT CAP CODE	SHAPE AVAILABILITY	GRIT SIZE	ABRASIVE GRAIN	BACKING	STANDARD JOINT	STANDARD FLEX	APPLICATIONS
WOODWORKING								
NORTON								
Best	R963	Narrow, Wide	24-60, P80 100-150 coming soon	Norton SG Ceramic Alumina	Y-wt. Polyester	BJ	RR	Norton SG ceramic alumina grain with anti-static coating for forest product applications (MDF, particleboard, plywood)
Best	R955	Narrow	P36-P120	Norton SG Red Heat R955	Y-wt. Cotton	BJ	RR	100% ceramic alumina abrasive with Y-wt. cloth backing for dimensioning, intermediate sanding of wood
Best	H968	Narrow, Wide	P80-P220	Norton SG Ceramic Alumina	F-wt. Paper	CJ	CF	Norton SG ceramic alumina belt for high-performance woodworking applications
Better	R811	Narrow, Wide	24, 36-120	NorZon Zirconia Alumina	Y-wt. Cotton	BJ	RR	NorZon open-coat product recommended for dry low-pressure applications or where loading is a problem
Good	R215	Narrow, Wide	50-180	Aluminum Oxide	X-wt. Cotton	BJ	RR	Initial starting specification for all woodworking applications where loading is a problem
Good	R422	Narrow	50-120	Silicon Carbide	X-wt. Cotton	BJ	RR	Initial starting specification for all woodworking applications where loading is not an issue
Good	R490	Narrow, Wide	P36-P150	Silicon Carbide	Y-wt. Polyester	TP (Top Patch Plyweld)	RR	Anti-static product for forest product applications (MDF, particle board, plywood) where loading is an issue
Better	H275	Narrow, Wide	P100-P220	Aluminum Oxide	F-wt. Paper	CJ	RR	Anti-static wood sanding product where loading is a problem
Good	H448	Narrow, Wide	P80-P220 P280,P320, P400	Silicon Carbide	F-wt. Paper	CJ	RR	Anti-static wood sanding product where loading is a problem



CATEGORY DEFINITION

Flap wheels are an ideal choice for a wide variety of blending, deburring and finishing applications common in the metal fabrication, welding and polishing industries. Flap wheels are conformable to intricate shapes and contours. Designed to deliver a consistent finish with a uniform rate of cut, flap wheels wear away, continually exposing fresh abrasives.

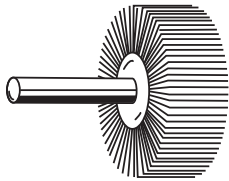
APPLICATIONS:	Used for a wide range of metal fabrication and welding applications including stock removal, blending, deburring, cleaning, finishing, and polishing
SIZE RANGE:	Flap Wheels with mounted steel shanks: 3/8" - 3" diameter Flap Wheels with mounted 1/4-20 thread: 1" - 3" diameter Flap Wheels with arbor holes: 3" - 16" diameter
GRIT RANGE:	40 - 320
ABRASIVE GRAIN:	Ceramic Alumina/Aluminum Oxide, Aluminum Oxide



SHAPE RECOMMENDATION GUIDE

SHAPE

DESCRIPTION/APPLICATION



Flap Wheels with Mounted Steel Shanks

Wheels are designed with a 1/8" or 1/4" steel shank as an integral part of each wheel. These shanks run through the wheel creating better balance, a reduction of chatter, and reduced operator fatigue. They also permit quick changes on air tools when using other abrasive products.



Flap Wheels with Mounted 1/4-20 Thread

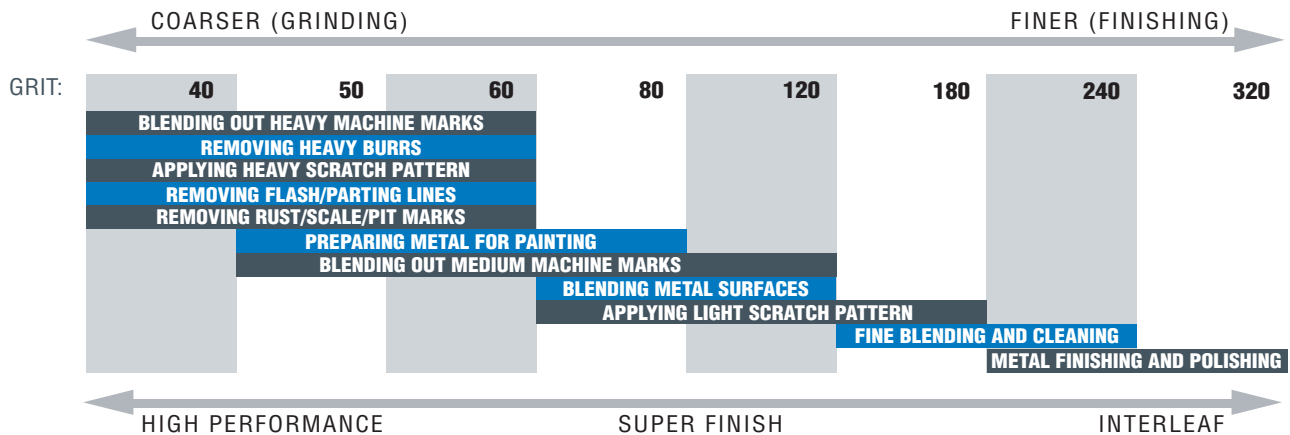
Wheels are designed with a 1/4"-20 thread and flange as an integral part of the wheel. These threads facilitate the quickest changes on air tools using flap wheels exclusively, as there are no special tools needed to change the flap wheel. Also allow extended reach with accessory mandrels.



Flap Wheels with Arbor Holes

For use on larger portable and fixed-base tools where the wheel must fit on an existing arbor.

APPLICATION/GRIT RECOMMENDATION GUIDE



SEE NON-WOVEN FLAP WHEEL SECTION FOR INTERLEAF FLAP WHEELS



FEATURED PRODUCTS



MERIT HIGH PERFORMANCE

BETTER CHOICE FOR MORE DURABLE FLAP WHEEL APPLICATIONS WHERE AGGRESSIVE CUT AND SUPERIOR LIFE ARE REQUIRED

FEATURES

- Long-lasting ceramic alumina/aluminum oxide abrasive grain blend
- Heavy cotton backing

BENEFITS

- Aggressive cut and 2 to 3 times longer life
- Extended durability for added life and reduced edge wear



MERIT SUPER FINISH

BETTER CHOICE WHERE SUPERIOR FINISH IS REQUIRED, OR ON LOW PRESSURE APPLICATIONS

FEATURES

- Long-lasting premium aluminum oxide blend
- Premium flexible cotton backing

BENEFITS

- Excellent cut rate on low-pressure finishing operations
- Softer acting with more flexibility for improved finishing



MERIT METAL

GOOD CHOICE WHEN INITIAL PRICE IS THE MAIN CONSIDERATION

FEATURES

- Quality aluminum oxide abrasive
- Engineered, low-cost cotton backing
- Competitive initial price point

BENEFITS

- Good cut rate and life
- Longer life and wear resistance
- Best starting specification for end-user unable to measure total performance





Micro-Mini Flap Wheels with 1/8" Mounted Steel Shanks

- The smallest flap wheels, ranging from 3/8" to 1-3/16" diameter, mounted on a 1/8" diameter steel shank
- Provide fast polishing and light deburring of internal workpieces with holes or grooves as small as 1/2"

AVAILABILITY

TIER:	GOOD
BRAND:	Merit
TRADENAME:	MICRO-MINI
ABRASIVE:	Aluminum Oxide

TIER:	GOOD
BRAND:	Merit
TRADENAME:	MICRO-MINI
ABRASIVE:	Aluminum Oxide

D X W X SK.	MAX. RPM	GRIT	STD. PKG.	PART NO.
3/8 x 3/8 x 1/8	40,000	60	10	08834137470
		80		08834137471
		120		08834137472
		180		08834137473
		240		08834137474
		320		08834137475
5/8 x 5/8 x 1/8	37,000	60	10	08834137480
		80		08834137481
		120		08834137482
		180		08834137483
		240		08834137484
		320		08834137485
5/8 x 3/4 x 1/8	37,000	80	10	08834137541
		120		08834137542
		180		08834137543
		240		08834137544
		320		08834137545
		3/4 x 3/16 x 1/8		35,000
80	08834137551			
120	08834137552			
180	08834137553			
240	08834137554			
320	08834137555			
3/4 x 3/8 x 1/8	35,000	60	10	08834137560
		80		08834137561
		120		08834137562
		180		08834137563
		240		08834137564
		320		08834137565
3/4 x 1/2 x 1/8	35,000	60	10	08834137570
		80		08834137571
		120		08834137572
		180		08834137573
		240		08834137574
		320		08834137575

D X W X SK.	MAX. RPM	GRIT	STD. PKG.	PART NO.
3/4 x 5/8 x 1/8	35,000	60	10	08834137580
		80		08834137581
		120		08834137582
		180		08834137583
		240		08834137584
		320		08834137585
3/4 x 3/4 x 1/8	35,000	60	10	08834137590
		80		08834137591
		120		08834137592
		180		08834137593
		240		08834137594
		320		08834137595
1-3/16 x 1/8 x 1/8	30,000	80	10	08834137491
		120		08834137492
		180		08834137493
		240		08834137494
		320		08834137495
		1-3/16 x 3/16 x 1/8		30,000
80	08834137501			
120	08834137502			
180	08834137503			
240	08834137504			
320	08834137505			
1-3/16 x 3/8 x 1/8	30,000	80	10	08834137511
		120		08834137512
		180		08834137513
		240		08834137514
		320		08834137515



Flap Wheel Test Kits

Micro-Mini Test Kit "MMC"

- Part No. 08834131493
- Includes five wheels, 3/8" to 1-3/16" diameter in various grits, mounted on a 1/8" diameter hardened steel shank
- The "MMC" kit is ideal for fast polishing and light deburring of internal holes or grooves as small as 1/2"



Shank-Mounted Mini Test Kit "CMM"

- Part No. 08834138004
- Includes ten wheels, 1" to 3" diameter in various grits mounted on a 1/4" diameter hardened steel shank



Mini Flap Wheels with 1/4" Mounted Steel Shanks

AVAILABILITY



TIER:
BRAND:
TRADENAME:
ABRASIVE:

BETTER	BETTER	GOOD	GOOD
Merit	Merit	Norton	Merit
HIGH PERFORMANCE	SUPER FINISH	METALITE R265	METAL
Ceramic Alumina/ALO	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide

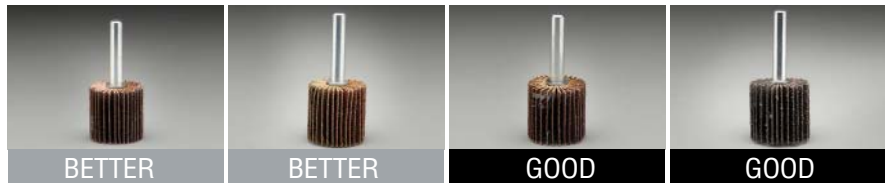
D X W X SK.	MAX. RPM	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
1 x 1/2 x 1/4	30,000	60 80 120	10				08834149800 08834149801 08834149802
1 x 5/8 x 1/4	30,000	40 60 80 120 180 240 320	10	08834137105 08834137100 08834137101 08834137102 08834131536 08834137104 08834137357	08834130754 08834130755 08834130756 08834130757 08834130758 08834130759	63642502576 63642502577 63642502578	
1 x 1 x 1/4	30,000	40 50 60 80 120 180 240 320	10	08834131259 08834137309 08834137310 08834137311 08834137312 08834137313 08834137114 08834137315	08834130760 08834130761 08834130762 08834130763 08834130764 08834130765	63642502580 63642502581 63642502582 63642502583	08834149803 08834149804 08834149805 08834149806 08834149807 08834149808 08834149809
1-3/16 x 1/4 x 1/4	25,000	60 80 120	10		08834137600 08834137601 08834137602		
1-3/16 x 1/2 x 1/4	25,000	60 80 120	10		08834137810 08834137811 08834137812		
1-3/8 x 5/8 x 1/4	30,000	60 80 120 180 240	10	08834137320 08834137321 08834137322 08834137323 08834137324		63642502584 63642502585	
1-1/2 x 1/2 x 1/4	25,000	60 80 120 180 240	10		08834137130 08834137131 08834137132 08834137133 08834137134		08834149810 08834149811 08834149812
1-1/2 x 1 x 1/4	25,000	40 60 80 120 180 240 320	10	08834135140 08834137340 08834137141 08834137142 08834137343 08834132101 08834137145	08834130766 08834130767 08834130768 08834130769 08834130770 08834130771	63642502592 63642502593 63642502594	08834149816 08834149817 08834149818 08834149819
1-1/2 x 1-1/2 x 1/4	25,000	40 60 80 120 180	10	08834130642 08834130643 08834130644 08834130641 08834130695			
2 x 1/2 x 1/4	25,000	40 60 80 120 180 240 320	10		08834137350 08834137151 08834137152 08834137353 08834137354 08834137355	63642502596 63642502597	08834149820 08834149821 08834149822 08834149823

CONTINUED



Mini Flap Wheels with 1/4" Mounted Steel Shanks CONTINUED

AVAILABILITY



TIER:

BRAND:

TRADENAME:

ABRASIVE:

BETTER	BETTER	GOOD	GOOD
Merit	Merit	Norton	Merit
HIGH PERFORMANCE	SUPER FINISH	METALITE R265	METAL
Ceramic Alumina/ALO	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide

D X W X SK.	MAX. RPM	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	
2 x 3/4 x 1/4	25,000	40	10	08834137158	08834130772			
		60		08834137160				08834130773
		80		08834137161				08834130774
		120		08834137162				08834130775
		180		08834137163				
2 x 1 x 1/4	25,000	40	10	08834137377	08834130778	63642502600	08834149824	
		50		08834137169			08834149825	
		60		08834137370			08834149826	
		80		08834137371			08834149827	
		120		08834137372			08834149828	
		180		08834137373				
		240		08834137374				
320	08834137375							
2 x 1-1/2 x 1/4	25,000	40	10	08834137183	08834130784			
		60		08834137380				08834130785
		80		08834137381				08834130786
		120		08834137382				
		240		08834137384				
320	08834137319							
2-1/2 x 1/2 x 1/4	20,000	60	10			63642502604		
		80			63642502605			
		120			63642502606			
2-1/2 x 1 x 1/4	20,000	40	10	08834137408	08834130790	63642502608		
		60		08834137410				08834130791
		80		08834137411				08834130792
		120		08834137412				08834130793
		180		08834137413				08834130794
		320		08834137633				08834130795
08834137415								
2-1/2 x 1-1/2 x 1/4	20,000	60	10	08834137420				
		80		08834137421				
		120		08834137422				
3 x 1/2 x 1/4	20,000	40	10		08834137230	63642502612	08834149833	
		60		08834137231			08834149834	
		80		08834137232			08834149835	
		120		08834137433				
		180		08834137235				
		320		08834137287				
3 x 3/4 x 1/4	20,000	60	10	08834137440	08834130796			
		80		08834137441				08834130797
		120						08834130798
3 x 1 x 1/4	20,000	40	10	08834137456	08834130802	63642502620	08834149836	
		60		08834137450			08834149837	
		80		08834137451			08834149838	
		120		08834137252			08834149839	
		180		08834137253			08834149840	
		240		08834135339				
		320		08834135341				
3 x 2 x 1/4	12,000	40	10	08834137460				
		60		08834137260				
		80		08834137261				
		120		08834137262				
		180		08834137263				



Mini Flap Wheels with 1/4"-20 Thread

AVAILABILITY



TIER:

BRAND:

TRADENAME:

ABRASIVE:

BETTER	BETTER	GOOD
Merit	Merit	Norton
HIGH PERFORMANCE	SUPER FINISH	METALITE R265
Ceramic Alumina/Aluminum Oxide	Aluminum Oxide	Aluminum Oxide

D X W X THD.	MAX. RPM	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	
1 x 5/8 x 1/4-20	30,000	60	10	08834131001	08834130700	63642502624	
		80		08834131002			63642502625
		120		08834131003			63642502626
		180					
1 x 1 x 1/4-20	30,000	40	10	08834131027	08834130706	63642502628	
		60		08834131008			63642502629
		80		08834131009			63642502630
		120		08834131010			63642502631
		180		08834131011			
		240		08834131012			
1-3/8 x 5/8 x 1/4-20	30,000	60	10	08834132001	08834130834	63642502632	
		80		08834132002			63642502633
		120		08834132003			63642502634
1-5/8 x 1/2 x 1/4-20	25,000	60	10		08834132008		
		80		08834132009			
		120		08834132010			
		180		08834132011			
1-5/8 x 1 x 1/4-20	25,000	40	10	08834132051	08834130712	63642502638	
		60		08834132015			63642502639
		80		08834132016			63642502640
		120		08834132017			
		180		08834132018			
		320		08834132020			
2 x 1/2 x 1/4-20	25,000	60	10		08834133001	63642502642	
		80		08834133002			63642502643
		120		08834133003			63642502644
		180		08834133004			
		320		08834133006			
2 x 3/4 x 1/4-20	25,000	60	10	08834133008	08834130718		
		80		08834133009			
		120		08834133010			
		180		08834133011			
2 x 1 x 1/4-20	25,000	40	10	08834133044	08834130724	63642502646	
		60		08834133015			63642502647
		80		08834133016			63642502648
		120		08834133017			63642502649
		180		08834133018			
		240		08834133019			
2 x 1-1/2 x 1/4-20	25,000	60	10	08834135201	08834130730		
		80		08834135202			
		120		08834135203			
		180		08834135204			
2-1/2 x 1/4 x 1/4-20	20,000	60	10		08834134001		
		80		08834134002			
		120		08834134003			
		180		08834134004			
2-1/2 x 3/8 x 1/4-20	20,000	60	10		08834134008		
		80		08834134009			
		120		08834134010			
2-1/2 x 1/2 x 1/4-20	20,000	60	10		08834134015	63642502650	
		80		08834134016			63642502651
		120		08834134017			
		180		08834134018			
2-1/2 x 1 x 1/4-20	20,000	40	10	08834134061	08834130736	63642502654	
		60		08834134022			63642502655
		80		08834134023			63642502656
		120		08834134024			
		180		08834134025			

FOR ADAPTERS FOR FLAP WHEELS WITH 1/4"-20 THREAD, SEE THE END OF THIS SECTION



Mini Flap Wheels with 1/4"-20 Thread CONTINUED

AVAILABILITY

D X W X THD.	MAX. RPM	GRIT	STD. PKG.	TIER: BETTER		
				BRAND: Merit		
TRADENAME: HIGH PERFORMANCE				BRAND: Merit		
ABRASIVE: Ceramic Alumina/Aluminum Oxide				ABRASIVE: Aluminum Oxide		
				TIER: GOOD		
				BRAND: Norton		
				TRADENAME: METALITE R265		
				ABRASIVE: Aluminum Oxide		
				PART NO.		
3 x 1/2 x 1/4-20	20,000	60	10			
		80				
		120				
		180				
3 x 3/4 x 1/4-20	20,000	60	10	08834135008	08834135001	
		80		08834135009	08834135002	
		120		08834135010	08834135003	63642502659
					08834135004	63642502660
3 x 1 x 1/4-20	20,000	40	10	08834135230		
		60		08834135015	08834130748	63642502664
		80		08834135016	08834130749	63642502665
		120		08834135017	08834130750	63642502666
		180		08834135018	08834130751	
		240		08834135019	08834130752	
		320			08834130753	

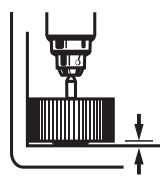
FOR ADAPTERS FOR FLAP WHEELS WITH 1/4-20 THREAD, SEE THE END OF THIS SECTION



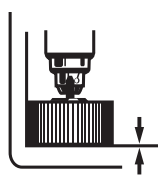
Cup-Type Mini Flap Wheels with 1/4" Mounted Steel Shanks

- Primarily used for bottom or side-wall type sanding where conventional tools do not reach
- Cup-type mini flap wheels will not mar your workpiece while reaching flush into areas where other wheels cannot

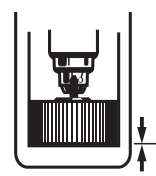
D X W X SK.	MAX. RPM	GRIT	STD. PKG.	TIER: GOOD	
				BRAND: Merit	
ABRASIVE: Aluminum Oxide					
PART NO.					
2-1/2 x 1-1/2 x 1/4	20,000	60	10	08834144463	



TYPICAL WHEELS



CUP WHEELS GET FLUSH INTO CORNERS AND THE BOTTOMS OF CYLINDERS



Flap Wheel Test Kits

Mini 1/4"-20 Thread Test Kit "CQ"

- Part No. 08834138001
- Includes ten, 1" to 3" diameter, 1/4"-20 thread mini flap wheels
- Each kit includes a 1/4"-20 QC-4 quick-change adapter



3-1/2" – 8" Flap Wheels with Arbor Holes

AVAILABILITY



TIER:

BRAND:

TRADENAME:

ABRASIVE:

BETTER

GOOD

Merit

Norton

HIGH PERFORMANCE

METALITE R265

Ceramic Alumina/Aluminum Oxide

Aluminum Oxide

<i>D X W X H</i>	<i>MAX. RPM</i>	<i>GRIT</i>	<i>STD. PKG.</i>	<i>PART NO.</i>	<i>PART NO.</i>
3-1/2 x 1 x 5/8	12,000	40	10	08834122001	63642502668 63642502669
		50		08834122002	
		60		08834122003	
		80		08834122004	
		120		08834122006	
		180		08834122007	
		240		08834122008	
		320		08834122009	
		3-1/2 x 1-1/2 x 5/8		12,000	
50	08834122012				
60	08834122013				
80	08834122014				
120	08834122016				
150	08834122017				
180	08834122018				
240	08834122019				
320	08834122020				
3-1/2 x 2 x 5/8	12,000	40	10	08834122022	
		60		08834122024	
		80		08834122025	
		120		08834122027	
		180		08834122028	
4' x 1 x 5/8	12,000	40	10	08834122032	63642502673 63642502674 63642502675
		50		08834122033	
		60		08834122034	
		80		08834122035	
		120		08834122037	
		180		08834122038	
		240		08834122039	
		320		08834122040	
4 x 1-1/2 x 5/8	12,000	40	10	08834122042	
		50		08834122043	
		60		08834122044	
		80		08834122045	
		120		08834122047	
		240		08834122050	
4 x 2 x 5/8	12,000	40	10	08834122053	63642502677
		50		08834122054	
		60		08834122055	
		80		08834122056	
		120		08834122058	
		180		08834122059	
		240		08834122060	
		320		08834122061	
5 x 1 x 5/8	6,200	80	5		63642502678
5 x 1-1/2 x 5/8	12,000	40	10	08834122063	
		50		08834122064	
		60		08834122065	
		80		08834122066	
		120		08834122068	
		180		08834122070	
		240		08834122071	
		320		08834122072	
6 x 1/2 x 1	6,000	40	10	08834123001	
		60		08834123003	
		80		08834123004	
		120		08834123005	
		150		08834122198	
		180		08834123006	
		240		08834123007	
		320		08834122137	

FOR FLAP WHEEL WITH ARBOR HOLE ADAPTERS AND BUSHINGS, SEE THE END OF THIS SECTION

CONTINUED



3-1/2" – 8" Flap Wheels with Arbor Holes CONTINUED

AVAILABILITY



TIER:

BRAND:

TRADENAME:

ABRASIVE:

BETTER

BETTER

GOOD

GOOD

Merit

Merit

Norton

Merit

HIGH PERFORMANCE

SUPER FINISH

METALITE R265

METAL

Ceramic Alumina/ALO

Aluminum Oxide

Aluminum Oxide

Aluminum Oxide

D X W X H	MAX. RPM	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.				
6 x 1 x 1	6,000	40	5	08834123009		63642502679	08834120167				
				08834123010			08834120168				
				08834123011	08834121002	63642502680	08834120169				
				08834123012	08834121003	63642502681	08834120170				
							08834120171				
				08834123014	08834121005	63642502682	08834120172				
				08834123015	08834121006						
				08834123016	08834121007		08834120174				
				08834123017	08834121008		08834120176				
				08834123018	08834121009		08834120177				
				6 x 1-1/2 x 1	6,000	40	5	08834123020			
08834123021											
08834123022	08834121023	63642502686									
08834123023	08834121024	63642502687									
08834123025	08834121025										
08834123026	08834121106										
08834123027	08834121026										
08834123028	08834121027										
08834123029	08834121109										
6 x 2 x 1	6,000	40	5					08834123031		63642502689	08834120189
								08834123032			08834120190
				08834123033	08834121030	63642502691	08834120191				
				08834123034	08834121031	63642502692	08834120192				
							08834120198				
				08834123036	08834121032	63642502694	08834120194				
				08834123038	08834121033		08834120197				
				08834123039	08834121034		08834120199				
				08834123040	08834121035		08834120493				
				6 x 3 x 1	6,000	40	3	08834123053			
08834123054											
08834123055		63642502696									
08834123056											
08834123058											
08834122544											
08834123060											
08834123061											
08834122329											
8 x 1 x 1	4,500	40	3					08834123070			
								08834123071			
				08834123072		63642502698					
				08834123073							
				08834123075							
				08834123077							
				08834123078							
				08834123079							
				8 x 2 x 1	4,500	40	3	08834123092			
								08834123093			
								08834123094		63642502700	
08834123095		63642502701									
08834123097											
08834123099											
08834123100											
08834123101											

FOR FLAP WHEEL WITH ARBOR HOLE ADAPTERS AND BUSHINGS, SEE THE END OF THIS SECTION



Adapter and Bushings for Flap Wheels with Arbor Holes

WHEEL DIAMETER	ADAPTERS	PART NO.
SHANK ADAPTERS		
3-1/2	1/4 Shank	08834125001
3-1/2	3/8 Shank	08834125007
4 - 8	1/4 Shank	08834125003
THREADED MOUNTING ADAPTERS		
4 - 8	3/8-24 Thread	08834125009
4 - 8	5/8-11 Thread	08834125027
REDUCING BUSHINGS		
6 - 8	1 to 3/8	08834125016
	1 to 1/2	08834125017
	1 to 5/8	08834125018
	1 to 3/4	08834125019
	1 to 7/8	08834125020

STANDARD PACKAGES = 1 ADAPTER, 1 PAIR OF BUSHINGS



08834125001



08834125007



08834125003



08834125009



08834125027



08834125016

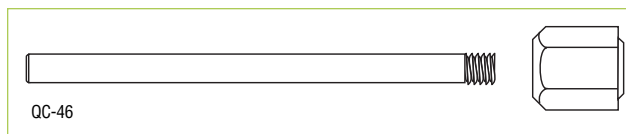
Adapters for 1/4"-20 Thread Mini and Arbor Hole Flap Wheels

MODEL	DESCRIPTION	PART NO.
ADAPTERS		
ADAPT C	Fits 3 x 2 x 3/8 arbor flap wheel	08834137009
MA-100	Fits A.H. Mini Wheel	08834137007
QC-8	1/8 x 5/8	08834137002
QC-4	1/4 SK. Dia. x 5/8 SK. L.	08834137001
QC-44	1/4 x 4	08834137003
QC-46	1/4 x 6	08834137004
QC-48	1/4 x 8	08834137005
QC-T	1/4-20 Thread	08834137012
QC-T	3/8-24 Thread	08834137010

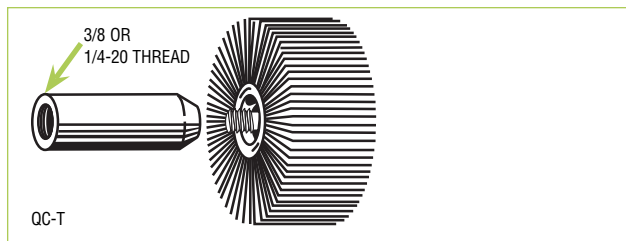
STANDARD PACKAGE = 1 ADAPTER
OTHER THREAD SIZES AVAILABLE FOR QUOTATION



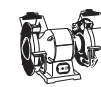
QC-4



QC-46



QC-T



Sand-O-Flex Wheels

With their firm cushioning brushes, Sand-O-Flex's abrasive strips are forced into, around and over corners, hollow and fluted surfaces, and small openings. Pressure is distributed evenly over the surface to prevent loss of detail and the flattening of rounded areas; for sanding metals, woods, plastics, rubber and ceramic.

Sand-O-Flex wheels are designed to fit most standard equipment. They load quickly and easily by turning the index knob as needed, allowing you to change grit size in minutes. Sand-O-Flex refills are available both scored (for finer, less aggressive work) and unscored. And, with the use of Merit adapters, Sand-O-Flex wheels will fit most electric bench grinders.



Sand-O-Flex Wheels – Model 350-RP

- Diameter: 6-1/2" overall, 4" diameter high-impact plastic body
- 1" wide abrasive strips backed by 8 cushioning brushes
- 1/4" diameter steel shank
- Weight: 9-1/2 oz.
- Maximum operating speed: 2,400 RPM
- Special adapter required for bench grinder use
- Some assembly required



AVAILABILITY

TIER:	GOOD
BRAND:	Merit
TRADENAME:	SAND-O-FLEX
ABRASIVE:	Aluminum Oxide

MODEL NO.	GRIT	PART NO.
SAND-O-FLEX WHEEL		
350-RP		08834111051
COMES ASSEMBLED WITH 80 GRIT A/O RESIN BOND SCORED REFILL AND BRUSHES		
SAND-O-FLEX ACCESSORIES		
Bench Grinder Adapter 350-RP		08834111055
1/4 Shank to 1/2 Shank		
Replacement Brushes for 350-RP; 8 per set		08834113003
RESIN BOND REFILLS		
350-RP SCORED	60	08834111052
10/box	80	08834111053
	100	08834112114
	120	08834111054
	180	08834111057
350-RP UNSCORED	60	08834112031
10/box	80	08834111059
	100	08834112021
	120	08834112032
	180	08834112033
GLUE BOND REFILLS		
350-RP SCORED	60	08834112053
10/box	80	08834112054
	100	08834112055
	120	08834112056
	150	08834112057
	180	08834112058
	240	08834112059
	320	08834112060
350-RP UNSCORED	60	08834112043
10/box	80	08834112044
	100	08834112045
	120	08834112046
	150	08834112047
	180	08834112048
	240	08834112049
	320	08834112050

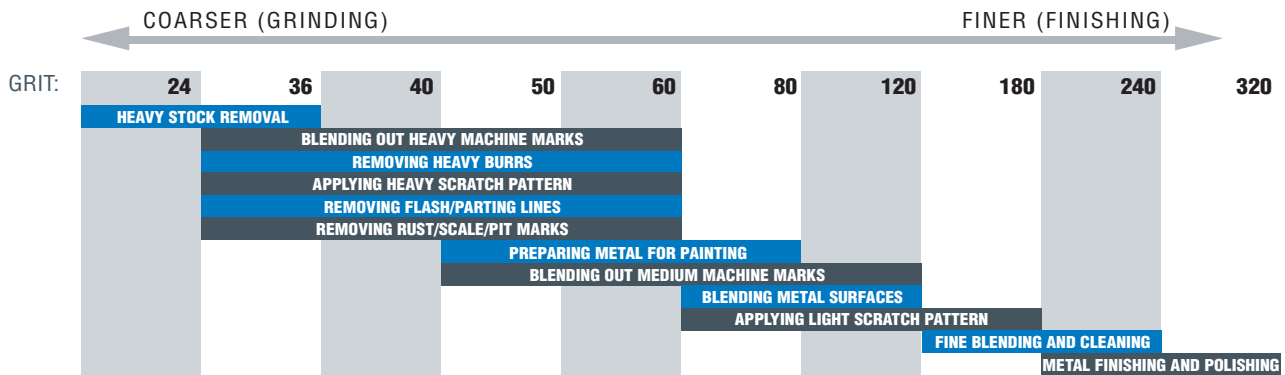


CATEGORY DEFINITION


Best product for blending and polishing contours when smooth running is a primary concern. Used for finishing hard-to-reach areas, removing parting lines, imperfections, and burrs on all surfaces.

- BENEFITS:**
- Spiral construction avoids shadow marks and provides smooth, chatter-free cutting action
 - Achieves close tolerances when finishing curved, contoured, and hard-to-reach areas
 - Fast cutting and removes toughest metal
 - Bands are easily removed and replaced
- GRIT RANGE:** 24 - 320
- ABRASIVE GRAIN:** Aluminum Oxide
- OTHER:** Use with rubber expanding drum

APPLICATION/GRIT RECOMMENDATION GUIDE





AVAILABILITY


GRIT	TIER: GOOD						
	1/4 X 1/2	1/4 X 1	3/8 X 1/2	3/8 X 1	1/2 X 1/2	1/2 X 1	1/2 X 1-1/2
24	-	-	-	-	08834196732	08834196712	-
36	-	-	-	08834197674	08834196619	08834196591	08834196237
40	08834196614	-	-	-	08834196234	08834196174	-
50	08834196292	08834196785	08834196386	-	08834196228	08834196214	08834197111
60	08834196342	08834196886	08834196829	08834196999	08834196068	08834196212	08834196053
80	08834196269	08834196733	08834196512	08834196645	08834196179	08834196215	08834196646
100	08834196511	08834196734	08834196513	-	08834196189	08834196534	08834196540
120	08834196217	08834197004	08834196747	08834196218	08834196069	08834196210	08834196324
150	08834196327	-	-	-	08834196211	08834196772	-
180	08834196490	-	08834196504	-	08834196209	08834196713	-
240	-	-	08834196481	-	08834196564	08834196814	-
320	08834196865	-	08834196830	-	08834196505	08834196487	-
PKG. QTY. STOCK	100/box	100/box	100/box	100/box	100/box	100/box	100/box
MOQ NON-STOCK	400	400	300	300	300	300	300
EXPANDING RUBBER DRUMS							
	1/8 Shank 30,000 RPM 08834196030	1/8 Shank 30,000 RPM 08834196008	1/8 Shank 30,000 RPM 08834196944	1/8 Shank 18,000 RPM 08834196011	1/4 Shank 30,000 RPM 08834196904	1/4 Shank 15,000 RPM 08834196906	1/4 Shank 12,000 RPM 08834196907



AVAILABILITY

TIER:		GOOD					
GRIT	1/2 X 2	3/4 X 1/2	3/4 X 3/4	3/4 X 1	3/4 X 1-1/2	3/4 X 2	1 X 1/2
24	08834197217	08834196345	08834196613	08834196776	08834196596	-	-
36	08834196758	08834196769	08834196609	08834196261	08834196238	08834196953	08834196058
40	08834196825	08834196605	08834196236	08834196517	08834196227	08834196826	-
50	08834196548	08834196608	08834196183	08834196515	08834196500	08834196757	-
60	08834196549	08834196578	08834196168	08834196070	08834196554	08834196745	08834196580
80	08834196669	08834196255	08834196161	08834196071	08834196249	08834196756	08834196647
100	08834196735	08834196567	08834196230	08834196502	08834196501	08834196766	08834196157
120	08834196736	08834196579	08834196226	08834196219	08834196057	08834196746	08834197592
150	-	08834196631	08834196231	08834196822	08834196606	08834197283	-
180	-	08834197116	08834196056	08834196565	08834196851	-	08834196395
240	-	08834196603	08834196859	08834196668	-	66254410751	08834197287
320	-	08834196806	-	08834196624	08834199664	-	-
PKG. QTY. STOCK	100/box	100/box	100/box	100/box	100/box	100/box	100/box
MOQ NON-STOCK	200	300	300	300	300	200	200
EXPANDING RUBBER DRUMS							
	1/4 Shank 10,000 RPM 08834196908	1/4 Shank 27,000 RPM 08834196909	1/4 Shank 24,000 RPM 08834196910	1/4 Shank 17,000 RPM 08834196911	1/4 Shank 10,000 RPM 08834196912	1/4 Shank 10,000 RPM 08834196913	1/4 Shank 20,000 RPM 08834196914

TIER:		GOOD					
GRIT	1 X 1	1 X 1-1/2	1 X 2	1-1/2 X 1	1-1/2 X 1-1/2	1-1/2 X 2	2 X 1
24	08834196563	08834196708	08834196709	08834196684	08834196220	08834196539	08834196841
36	08834196072	08834196525	08834196267	08834196222	08834196164	08834196657	08834196233
40	08834196073	08834196546	08834196689	08834196223	08834196171	08834196598	08834196109
50	08834196184	08834196078	08834196588	08834196185	08834196176	08834196252	08834196186
60	08834196075	08834196060	08834196506	08834196503	08834196091	08834196067	08834196232
80	08834196074	08834196162	08834196268	08834196254	08834196165	08834196533	08834196166
100	08834196167	08834196257	08834196750	08834196216	08834196182	08834196543	08834196508
120	08834196177	08834196677	08834196507	08834196707	08834196066	08834196079	08834196595
150	08834196686	08834197639	08834197664	08834196989	08834197750	08834197376	-
180	08834196059	08834196790	08834196987	-	08834196535	-	08834197983
240	08834196178	08834196526	08834197254	08834196491	08834196260	08834197709	-
320	08834196789	08834197700	-	08834196063	08834197647	-	-
PKG. QTY. STOCK	100/box	100/box	100/box	100/box	100/box	100/box	100/box
MOQ NON-STOCK	300	200	200	300	200	200	200
EXPANDING RUBBER DRUMS							
	1/4 Shank 18,000 RPM 08834196916	1/4 Shank 10,000 RPM 08834196917	1/4 Shank 8,000 RPM 08834196918	1/4 Shank 12,000 RPM 08834196921	1/4 Shank 10,000 RPM 08834196922	1/4 Shank 8,000 RPM 08834196923	1/4 Shank 11,000 RPM 08834196926

TIER:		GOOD				
GRIT	2 X 1-1/2	2 X 2	3 X 1	3 X 2	3 X 3	
24	08834196700	08834196516	08834196795	08834196263	08834196256	
36	08834196509	08834196110	08834196717	08834196545	08834196262	
40	08834196514	08834196172	08834196755	08834196090	08834196555	
50	08834196527	08834196187	08834196666	08834196264	08834196253	
60	08834196978	08834196173	08834196150	08834196530	08834196188	
80	08834196259	08834196181	08834196524	08834196265	08834196159	
100	08834196521	08834196193	08834196831	-	08834196250	
120	08834196586	08834196585	08834196089	08834196531	08834196572	
150	-	08834196629	-	-	08834196452	
180	08834196536	08834196306	-	08834196472	08834196131	
240	-	08834196375	-	-	08834196574	
320	-	08834196628	-	-	08834197968	
PKG. QTY. STOCK	100/box	100/box	100/box	100/box	100/box	
MOQ NON-STOCK	200	200	200	100	100	
EXPANDING RUBBER DRUMS						
	1/4 Shank 8,000 RPM 08834196927	1/4 Shank 6,000 RPM 08834196928	3/8 Shank 3,000 RPM 08834196929	3/8 Shank 3,000 RPM 08834196930	3/8 Shank 3,000 RPM 08834196931	

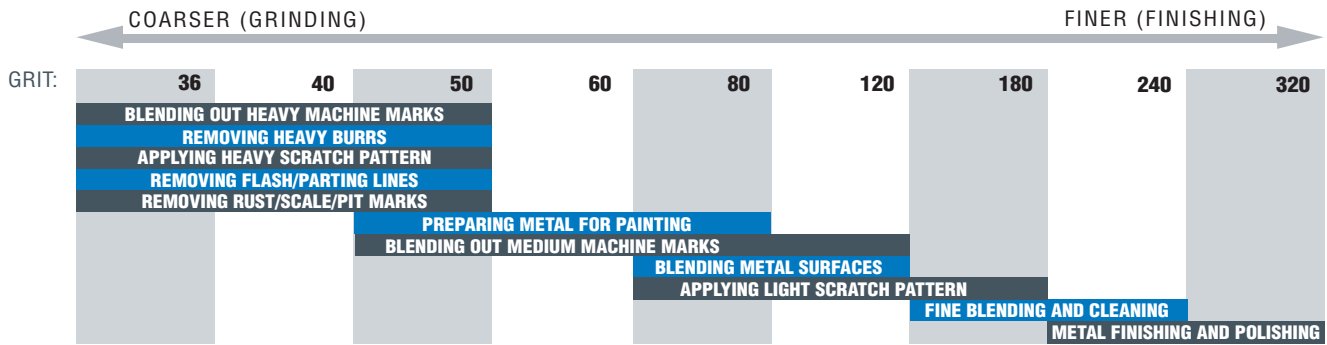


CATEGORY DEFINITION

Cartridge, spiral rolls and cone points are strips of abrasive cloth rolled and glued to form a solid shape that is designed to break down during use and reveal the next layer of abrasive.

APPLICATIONS:	Used on inside surfaces and inside corners where other forms of abrasive cannot reach. Typically these are used on high speed air grinders and are always mounted on a mandrel. Ideal for flash removal, polishing, or removing machine tool marks, and edge breaking.
SHAPES:	Cartridge Rolls, Spiral Rolls (Full Taper, Half Taper, and Sidewall Taper), Tapered Cone Points
GRIT RANGE:	36 - 320
ABRASIVE GRAIN:	Ceramic Alumina, Aluminum Oxide, Silicon Carbide
BACKING:	Cotton Cloth
MAXIMUM RPM:	1/8" to 1/2" – 23,000 5/8" to 1" – 18,000 1" to 1-1/2" – 15,000

APPLICATION/GRIT RECOMMENDATION GUIDE



FEATURED PRODUCTS



MERIT BLAZE

FOR HARD-TO-GRIND MATERIALS – STAINLESS STEEL, COBALT, INCONEL, AND TITANIUM

FEATURES

- Next-generation ceramic alumina abrasive grain
- Advanced grinding aid
- Improved resin bond system

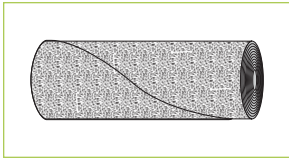
BENEFITS

- Significantly faster cut rates
- Resists wear, resulting in 50% – 300% longer life
- Greatest productivity
- Cooler cutting, longer life
- Exceptional grain retention and longer life

Refer to the back of this section for mandrels.



Cartridge Rolls



- Effective for flash removal
- Polishing or removing machine tool marks
- Edge Breaking
- Valuable abrasive tool for reaching into corners, where larger diameter tools cannot work
- All cartridge roll part numbers shown are resin bond, half-glued
- Quarter and full glue are also available for quotation

FEATURED PRODUCTS



Merit Blaze Cartridge Rolls

- With their exclusive ceramic grain technology, grinding aid, and X-weight cotton backing, Merit Blaze products outperform all competitive ceramic, zirconia, and aluminum oxide specialty products in today's markets
- Merit Blaze specialties cut cooler and last longer on stainless steel, cobalt, Inconel, titanium and other hard-to-grind materials

AVAILABILITY

TIER:	BEST
ABRASIVE:	Ceramic Alumina
BACKING:	Cotton
OTHER:	Supersized

D X L X H	GRIT	STD. PKG.	PART NO.
1/4 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	66261194384
	80		66261194394
	120		66261194397
3/8 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	66261194392
	80		66261194395
	120		66261194398
1/2 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	66261194393
	80		66261194396
	120		66261194399



Merit Silicon Carbide Cartridge Rolls

- Sharp silicon carbide grain penetrates tough, difficult-to-grind materials, as well as soft, loading materials:
 - titanium
 - masonry
 - composites
 - plastic
 - rubber

AVAILABILITY

TIER:	GOOD
ABRASIVE:	Silicon Carbide
BACKING:	Cotton

D X L X H	GRIT	STD. PKG.	PART NO.
1/4 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	08834183274
	80		08834182359
	120		08834189131
3/8 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	08834181309
	80		08834180710
	120		66261042229
1/2 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	08834189233
	80		08834180712
	120		66261086969



Merit Aluminum Oxide Cartridge Rolls

- Most effective starting specification for flash removal, polishing or removing machine tool marks and edge breaking on all types of metal

AVAILABILITY

TIER:	GOOD
ABRASIVE:	Aluminum Oxide
BACKING:	Cotton

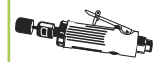
D X L X H	GRIT	STD. PKG.	PART NO.
1/4 x 3/4 x 1/8 Use M-3 or M-7 Mandrel	60	100	08834180042
	80		08834180043
	120		08834180045
1/4 x 1 x 1/8 Use M-4 or M-8 Mandrel	50	100	08834180060
	60		08834180061
	80		08834180062
	100		08834180063
	120		08834180064
	150		08834180065
	180		08834180066
240	08834180068		
320	08834180070		
1/4 x 1-1/2 x 1/8 Use M-9 Mandrel	50	100	08834180079
	60		08834180080
	80		08834180081
	100		08834180082
	120		08834180083
1/4 x 2 x 1/8 Use M-10 Mandrel	150	100	08834180084
	180		08834180085
	240		08834180089
	320		08834180100
	100		08834180101
120	08834180102		

TIER:	GOOD
ABRASIVE:	Aluminum Oxide
BACKING:	Cotton Cloth

DIA. X L. X A.H.	GRIT	STD. PKG.	PART NO.
3/16 x 3/4 x 3/32	80	100	08834180005
3/16 x 1 x 3/32 Use M-2E Mandrel	60	100	08834180023
	80		08834180024
	100		08834180025
	120		08834180026
	150		08834180027
	180		08834180028
	240		08834180030
	320		08834180032

Refer to the back of this section for mandrels.

CONTINUED



Merit Aluminum Oxide Cartridge Rolls CONTINUED

<i>D X L X H</i>	<i>GRIT</i>	<i>STD. PKG.</i>	TIER: GOOD	
			ABRASIVE: Aluminum Oxide	
			BACKING: Cotton	
<i>PART NO.</i>				
5/16 x 1 x 1/8 use M-4 or M-8 Mandrel	60	100	08834180137	
	80		08834180138	
	120		08834180140	
5/16 x 1-1/2 x 1/8 use M-9 Mandrel	60	100	08834180156	
	80		08834180157	
	120		08834180159	
3/8 x 3/4 x 1/8 use M-7 Mandrel	60	100	08834180194	
	80		08834180195	
	120		08834180197	
3/8 x 1 x 1/8 use M-8 Mandrel	40	100	08834180211	
	50		08834180212	
	60		08834180213	
	80		08834180214	
	100		08834180215	
	120		08834180216	
	150		08834180217	
	180		08834180218	
	240		08834180220	
	3/8 x 1-1/2 x 1/8 use M-9 Mandrel	36	100	08834180228
40			08834180229	
50			08834180230	
60			08834180231	
80			08834180232	
100			08834180233	
120			08834180234	
150			08834180235	
180			08834180236	
240			08834180238	
3/8 x 2 x 1/8 use M-10 Mandrel	60	100	08834180250	
	80		08834180251	
	100		08834180252	
1/2 x 3/4 x 1/8 use M-7 Mandrel	80	100	08834180270	
	1/2 x 1 x 1/8 use M-8 Mandrel	40	100	08834180286
		50		08834180287
60			08834180288	
80			08834180289	
100			08834180290	
120			08834180291	
150			08834180292	
180			08834180293	
240			08834180295	
320			08834180297	
1/2 x 1-1/2 x 1/8 use M-9 Mandrel	36	100	08834180304	
	40		08834180305	
	50		08834180306	
	60		08834180307	
	80		08834180308	
	100		08834180309	
	120		08834180310	
	150		08834180311	
	180		08834180312	
	240		08834180314	
320		08834180316		
1/2 x 1-1/2 x 3/16 use M-16 Mandrel	120	100	08834180919	
	1/2 x 2 x 1/8 use M-10 Mandrel	60	100	08834180326
80			08834180327	
100			08834180328	
120			08834180329	
180			08834180331	
240			08834180333	
320			08834180335	
1/2 x 2 x 3/16 use M-17 Mandrel	60	100	08834180350	
	80		08834180653	
	120		08834180338	

<i>D X L X H</i>	<i>GRIT</i>	<i>STD. PKG.</i>	TIER: GOOD
			ABRASIVE: Aluminum Oxide
			BACKING: Cotton
<i>PART NO.</i>			
1/2 x 2 x 1/4 use M-22 Mandrel	40	100	08834183168
	80		08834180351
5/8 x 1 x 3/16 use M-15 Mandrel	80	100	08834180364
5/8 x 1-1/2 x 1/8 use M-9 Mandrel	36	100	08834180395
	40		08834180392
	50		08834180393
	60		08834180275
	80		08834180789
5/8 x 1-1/2 x 3/16 use M-16 Mandrel	120		08834180394
	50	100	08834180381
	60		08834180382
	80		08834180383
	5/8 x 2 x 1/8 use M-10 Mandrel	60	100
80			08834181080
5/8 x 2 x 3/16 use M-10 Mandrel	50	100	08834180400
	60		08834180401
	80		08834180402
3/4 x 1 x 1/8 use M-8 Mandrel	100		08834180403
	80	100	08834180469
	120		08834181543
3/4 x 1 x 3/16 use M-15 Mandrel	40		08834180456
	80	100	08834180459
	120		08834180461
3/4 x 1-1/2 x 1/8 use M-9 Mandrel	40	100	08834180069
	60		08834180490
	80		08834180527
	120		08834180487
	3/4 x 1-1/2 x 3/16 use M-16 Mandrel	36	100
40			08834180475
50			08834180476
60			08834180477
80			08834180478
100			08834180479
120			08834180480
180		08834180482	
3/4 x 1-1/2 x 1/4 100/box 400/case use M-21 Mandrel	36	100	08834180907
	60		08834180489
	80		08834180358
	100		08834180523
	120		08834180488
	150		08834182807
3/4 x 2 x 1/8 use M-10 Mandrel	60	100	08834180791
3/4 x 2 x 3/16 use M-17 Mandrel	40	100	08834180494
	60		08834180496
	80		08834180497
	100		08834180498
	120		08834180499
3/4 x 2 x 1/4 use M-22 Mandrel	60	100	08834180506
	80		08834181297
	100		08834180509
	120		08834180507
1 x 1-1/2 x 1/8 use M-9 Mandrel	60	100	08834180580
	80		08834180584
1 x 1-1/2 x 1/4 use M-21 Mandrel	36	100	08834181195
	60		08834180587
	80		08834180583
1 x 2 x 3/16 use M-17 Mandrel	40	100	08834180589
	60		08834180591
	80		08834180592
1 x 2 x 1/4 use M-22 Mandrel	60	100	08834180603
	80		08834180606
	120		08834180585

CONTINUED

Please refer to the back of this section for mandrels.



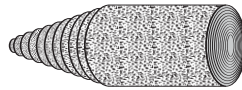
Spiral Rolls

- All spiral roll part numbers shown are full tapered, resin bond, half glued
- Half-tapered and sidewall-tapered are available for quotation
- Quarter and full glue are also available for quotation



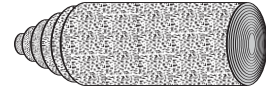
Full Taper

- Especially useful for grinding/polishing of channels, fillets and radii, and deburring small holes
- Full taper used when the area to finished is hard to reach with a full cartridge roll
- The tapered roll conforms to smaller areas
- Fits into irregular concaves, contours, channels



Half Taper

- Used when the area to be finished is not narrow but a beginning point on the roll is needed
- The portion of the roll that is not tapered is then used to finish off the sides



Sidewall Taper

- The portion of the roll that is tapered guides the roll down to the area to be finished
- The sidewall then finishes off the sides

FEATURED PRODUCTS



Merit Blaze Spiral Rolls Full Taper

- With their exclusive ceramic grain technology, grinding aid and X-weight cotton backing, these products outperform all competitive ceramic, zirconia, and aluminum oxide specialty products in today's markets
- Merit Blaze specialties cut cooler and last longer on stainless steel, cobalt, Inconel, titanium, and other hard-to-grind materials

AVAILABILITY

TIER:	BEST
ABRASIVE:	Ceramic Alumina
BACKING:	Cotton
OTHER:	Supersized

D X L X H	GRIT	STD. PKG.	PART NO.
3/8 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	66261194481
	80		66261194490
	120		66261194491
1/2 x 1-1/2 x 1/8 Use M-9 Mandrel	60	100	66261194484
	80		66261194492
	120		66261194495



Merit Silicon Carbide Spiral Rolls Full Taper

- Sharp silicon carbide grain penetrates tough, difficult-to-grind materials as well as soft, loading materials:
 - titanium
 - masonry
 - composites
 - plastic
 - rubber

AVAILABILITY

TIER:	GOOD
ABRASIVE:	Silicon Carbide
BACKING:	Cotton

D X L X H	GRIT	STD. PKG.	PART NO.
3/8 x 1-1/2 x 1/8 use M-9 Mandrel	60	100	08834189901
	80		08834189904
	120		66261046936
1/2 x 1-1/2 x 1/8 use M-9 Mandrel	60	100	66261185977
	80		08834183460
	120		08834183448

Refer to the back of this section for mandrels.



Merit Aluminum Oxide Spiral Rolls Full Taper

- Especially useful for grinding/polishing of channels, fillets and radii, and deburring small holes
- All spiral roll part number shown are full tapered, resin bond, half glued
- Half-tapered and sidewall tapered are available for quotation
- Quarter and full glue are also available for quotation

AVAILABILITY

TIER: **GOOD**
 ABRASIVE: Aluminum Oxide
 BACKING: Cotton

<i>D X L X H</i>	<i>GRIT</i>	<i>STD. PKG.</i>	<i>PART NO.</i>
3/8 x 1 x 1/8 use M-8 Mandrel	60	100	08834181714
	80		08834181715
	120		08834181717
	180		08834181719
3/8 x 1-1/2 x 1/8 use M-9 Mandrel	50	100	08834181723
	60		08834181724
	80		08834181708
	120		08834181727
	150		08834181728
	180		08834181709
1/2 x 1 x 1/8 use M-8 Mandrel	60	100	08834181734
	80		08834181735
	120		08834181737
	180		08834181739
1/2 x 1-1/2 x 1/8 use M-9 Mandrel	36	100	08834181230
	40		08834181742
	50		08834181743
	60		08834181744
	80		08834181745
	100		08834181746
	120		08834181747
	180		08834181749
	240		08834181750
1/2 x 2 x 1/8 use M-10 Mandrel	60	100	08834181754
	80		08834181755
	120		08834181757

TIER: **GOOD**
 ABRASIVE: Aluminum Oxide
 BACKING: Cotton

<i>D X L X H</i>	<i>GRIT</i>	<i>STD. PKG.</i>	<i>PART NO.</i>
5/8 x 1-1/2 x 1/8 use M-9 Mandrel	100	100	08834181776
	120		08834181777
	240		08834183313
	320		08834181781
5/8 x 1-1/2 x 3/16 use M-16 Mandrel	80	100	08834181444
3/4 x 1-1/2 x 1/8 use M-9 Mandrel	60	100	08834181286
	80		08834180886
3/4 x 1-1/2 x 3/16 use M-16 Mandrel	50	100	08834181807
	60		08834181808
	80		08834181809
	120		08834181811
3/4 x 2 x 3/16 use M-17 Mandrel	60	100	08834181820
1 x 1-1/2 x 1/8 use M-9 Mandrel	60	100	08834181240
1 x 2 x 3/16 use M-17 Mandrel	36	100	08834181875
	60		08834181878
	80		08834181879

Merit Aluminum Oxide Tapered Cone Points



- Tapered cone points are similar to cartridge rolls but their shape lends greater accessibility to many difficult-to-reach work areas
- They are used for deburring holes and in close tolerance work areas
- Popular sizes and mandrels are listed, with additional sizes available upon request

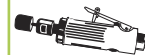
FEATURED PRODUCTS



AVAILABILITY

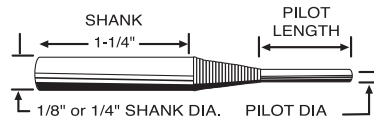
TIER: **GOOD**
 ABRASIVE: Aluminum Oxide
 BACKING: Cotton

<i>D X L X H</i>	<i>GRIT</i>	<i>STD. PKG.</i>	<i>PART NO.</i>
5/16 x 1-1/2 x 5° Use B-20 Mandrel	80	500	08834180873
	100		08834182043
	120		08834182717
	150		08834186890
	180		08834182535
	240		08834182044
	320		08834182537
3/16 x 1 x 2-1/2° Use K-110 Mandrel	50	500	08834186892
	60		08834186893
	80		08834180918
	100		08834182197
	120		08834182199
	150		08834182200
	180		08834186894
	240		08834186895



Cartridge and Spiral Roll Mandrels

MODEL NO.	PILOT DIA.	PILOT LENGTH	SHANK DIA.	SHANK LENGTH	OVERALL LENGTH	PART NO.
CARTRIDGE AND SPIRAL ROLL MANDRELS						
M-2E	3/32	3/4	1/4	1	3	08834183799
M-2	3/32	1	1/8	1	3	08834181202
M-3	1/8	1/2	1/8	1	2-1/2	08834181203
M-4	1/8	3/4	1/8	1	2-1/2	08834181204
M-5	1/8	1	1/8	1	2-3/4	08834181205
M-6	1/8	1-1/2	1/8	1	2-1/2	08834181206
M-7	1/8	1/2	1/4	1-1/4	2-1/4	08834181207
M-8	1/8	3/4	1/4	1-1/4	2-1/2	08834181208
M-9	1/8	1	1/4	1-1/4	2-3/4	08834181209
M-10	1/8	1-1/2	1/4	1-1/4	3-1/4	08834181210
M-11	1/8	2	1/4	1-1/4	4	08834181211
M-12	3/16	1/2	1/8	1-1/4	2-1/4	08834181212
M-13	3/16	3/4	1/8	1-1/4	2-1/2	08834181213
M-14	3/16	1/2	1/4	1-1/4	2-1/2	08834181214
M-15	3/16	3/4	1/4	1-1/4	2-3/4	08834181215
M-16	3/16	1	1/4	1-1/4	3	08834181216
M-17	3/16	1-1/2	1/4	1-1/4	3-1/2	08834181217
M-18	3/16	2	1/4	1-1/4	4	08834181218
M-19	1/4	1/2	1/4	1-1/4	2-1/2	08834181219
M-20	1/4	3/4	1/4	1-1/4	2-3/4	08834181220
M-21	1/4	1	1/4	1-1/4	3	08834181221
M-22	1/4	1-1/2	1/4	1-1/4	3-1/2	08834181222
M-23	1/4	2	1/4	1-1/4	4	08834181223
M-24	5/16	3/4	1/4	1-1/4	2-3/4	08834181224
M-25	5/16	1	1/4	1-1/4	3	08834181225
M-26	5/16	1-1/2	1/4	1-1/4	3-1/2	08834181226
M-27	5/16	2	1/4	1-1/4	4	08834181227



Recommended Pilot Length for Mandrels

3/4 Roll Length	use 1/2 Pilot
1 Roll Length	use 3/4 Pilot
1-1/2 Roll Length	use 1 Pilot
2 Roll Length	use 1-1/2 Pilot

Extra Shank Length Mandrels

MODEL NO.	SHANK LENGTH	OVERALL LENGTH	PART NO.
EXTRAS SHANK LENGTH MANDRELS			
M-8-4	4	5-1/4	08834180116
M-8-6	6	7-1/4	08834180122
M-9-2.5	2-1/2	4	08834180096
M-9-3	3	4-1/2	08834180129
M-9-4	4	5-1/2	08834180074
M-9-6	6	7-1/2	08834180131
M-9-8	8	9-1/2	08834180133
M-10-4	4	6	08834180092
M-10-6	6	8	08834180145

ALL EXTRA LENGTH SHANKS ARE 1/4" DIAMETER



Tapered Cone Point Mandrels

DESCRIPTION	SHANK	PART NO.
CONE POINT MANDRELS		
A-10	1/4	08834181300
B-20	1/4	08834181301
C-30	1/4	08834181302
D-40	1/4	08834181303
E-50	1/4	08834181304
F-60	1/4	08834181305
G-70	1/4	08834181306
H-80	1/4	08834181307
I-90	1/4	08834181308
K-110	1/8	08834181310



Test Kits

Merit Blaze Cartridge Roll Test Kit

- Part No. 66261066726
- Kit includes a variety of our new Merit Blaze cartridge rolls, spiral rolls and mandrels in popular sizes and grits.

Merit A/O Cartridge Roll Test Kit "CR"

- Part No. 08834181061
- Includes over 120 pieces of our most popular sizes, grits and shapes with their appropriate mandrels.

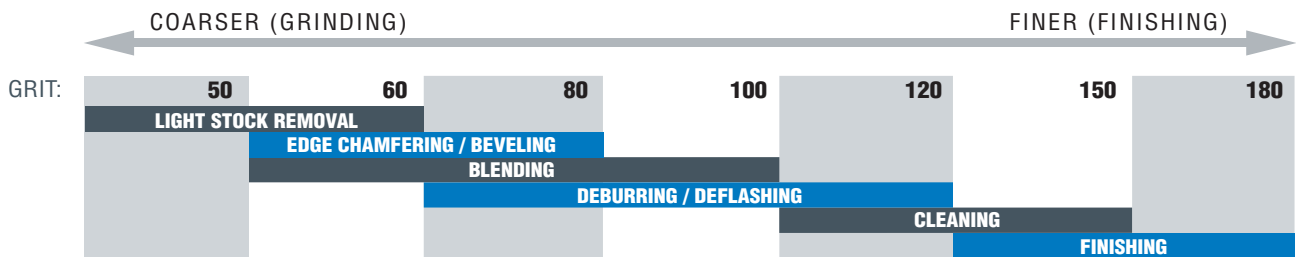


CATEGORY DEFINITION

Square pads, cross pads and overlap slotted discs are all used on high speed pneumatic tools for deburring, blending, cleaning, and polishing applications. All of these abrasive specialties are designed for applications in small, tight, hard-to-access locations on parts that are being finished.

- | | |
|-----------------|---|
| BENEFITS: | <ul style="list-style-type: none"> • Variety of shapes and sizes to fit application and part geometry • Shapes provide flexibility for the application, while eliminating aggressiveness of the sanding action • Cross Pads allow visibility of the surface while sanding, to ensure correct amount of material is removed |
| GRIT RANGE: | 50 – 180 |
| ABRASIVE GRAIN: | Ceramic Alumina, Aluminum Oxide |
| BACKING: | Cotton |
| MAXIMUM RPM: | 1" Diameter – 25,000
1-1/2" to 2" Diameter – 18,000 to 23,000
2-1/2" Diameter – 14,000 to 18,000
3" Diameter – 12,000 to 14,000
4" Diameter – 8,000 to 12,000
5" to 6" Diameter – 5,500 to 7,500 |

APPLICATION/GRIT RECOMMENDATION GUIDE



FEATURED PRODUCTS



MERIT BLAZE

BEST FOR HARD-TO-GRIND MATERIALS – STAINLESS STEEL, COBALT, INCONEL, AND TITANIUM

FEATURES

- Next-generation ceramic alumina abrasive grain
- Advanced grinding aid
- Improved resin bond system

BENEFITS

- Significantly faster cut rates
- Resists wear, resulting in 50%-300% longer life
- Greatest productivity
- Cooler cutting, longer life
- Improved grain retention and longer life



MERIT ALUMINUM OXIDE

GOOD FOR MOST ID DEBURRING AND POLISHING APPLICATIONS

FEATURES

- Quality aluminum oxide abrasive grain
- Resin bond system
- Standard quick-change eyelet for easy mounting to quick-change mandrel

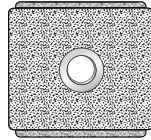
BENEFITS

- Versatile; ideal for deburring, chamfering, and polishing most radii, holes, recesses, and cylinder walls
- Good grain retention and life
- Fast, easy mounting and removal; minimal downtime
- Mandrel use increases range and versatility



Square Pads

AVAILABILITY



BEST



GOOD

TIER: Merit Blaze Ceramic Alumina
ABRASIVE: Supersized
OTHER:

Aluminum Oxide

L X W X T	EYELET	GRIT	STD. PKG.	PART NO.	PART NO.
1 x 1 x 6 ply	8-32	80	100		08834184826
1 x 1 x 8 ply	8-32	60 80 120	100		08834184828 08834184124 08834184994
1-1/2 x 1-1/2 x 1/2	1/4-20	60 80	100		08834184463 08834184125
2 x 2 x 1/2	1/4-20	60 80 120	100	66261194520 66261194552 66261194554	08834184334 08834184397
2 x 2 x 3/4	1/4-20	50 80	100		08834184487 08834184394
3 x 3 x 1/4	1/4-20	60 80 120	100	66261194531 66261194555 66261194556	08834184882
3 x 3 x 1/2	1/4-20	50 60 80 120	100	66261194528 66261194557 66261194558	08834182152 08834182057 08834184336

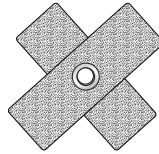
Square Pads

- With Merit square pads, corners wear down consistently exposing fresh abrasive; the pad becomes round for less aggressive stock removal
- Grind almost as fast as hard wheels, but are much smoother and easier to control
- For quick blending of channels, fillets, corners, or spotting flat surfaces



Cross Pads

AVAILABILITY



BEST



GOOD

TIER: Merit Blaze Ceramic Alumina
ABRASIVE: Supersized
OTHER:

Aluminum Oxide

L X W X T	PLY	EYELET	GRIT	STD. PKG.	PART NO.	PART NO.
3/4 x 3/4 x 3/8	8	3-48	80	100		08834185578
1 x 1 x 3/8	8	3-48	60 80 100 120	100		08834184943 08834185519 08834184195 08834185164
1-1/2 x 1-1/2 x 1/2	8	8-32	60 80 100 120	100	66261194496 66261194508 66261194511	08834184258 08834184465 08834182196 08834182148
2 x 2 x 1/2	8	8-32	60 80 120	100		08834182156 08834182157 08834182132
2 x 2 x 3/4	8	8-32	60 80 120	100	66261194502 66261194513 66261194516	08834184128 08834184194 08834184285
2 x 2 x 1	8	8-32	120	100		08834184805
2-1/4 x 2-1/4 x 1/2	8	8-32	80	100		08834184402
2-1/2 x 2-1/2 x 3/4	8	8-32	80 120	100		08834184206 08834184074
3 x 3 x 1	8	1/4-20	60 80 120	100	66261194504 66261194549 66261194551	08834182135 08834184119 08834184116
3 x 3 x 1	10	1/4-20	80	100		08834182140
3 x 3 x 1-1/2	10	1/4-20	80	100		08834182184
4 x 4 x 1	8	1/4-20	60 80 120	100		08834184142 08834184135 08834184377
4 x 4 x 1-1/2	8	1/4-20	80 120	100		08834184129 08834184370

Cross Pads

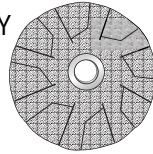
- The shape of Merit's cross pads enables you to see through to the contact area, and provides greater flexibility than square pads to conform to variable internal diameters
- Used for close-tolerance polishing of small radii and channels, deburring, and finishing of bell-mouth configurations
- All pads are furnished with standard quick-change eyelet, as listed
- Plain hole sizes must be specified

Refer to the back of this section for mandrels.



Overlap Slotted Discs

AVAILABILITY



TIER:
ABRASIVE:
OTHER:



BEST

Ceramic Alumina
Supersized, 2-Ply



GOOD

Aluminum Oxide
2 Per Set



GOOD

Aluminum Oxide
4 per Set

Overlap Slotted Discs

- Used for deburring and polishing radii, holes and cylinder walls
- Our "2 to a set" configuration cuts on the inward motion only
- The "4 to a set" configuration, assembled back to back, cuts on both the inward and outward motions
- All discs are furnished with standard quick-change eyelet
- Plain hole sizes must be specified and are make-to-order

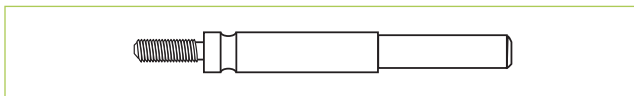
DIA.	EYELET	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	
1	8-32	60	100		08834184346	08834184085	
		80			08834184019		
		100			08834184224		
		120			08834184151		
		180			08834185078		
1-1/4	8-32	60	100		08834184270		
		80			08834184065		
		100			08834184291		
		120			08834184084		
1-1/2	8-32	60	100	66261195051	08834184066	08834184023	
		80		66261195368	08834184079		
		100		66261195367	08834184279		
		120		08834186035			
1-3/4	8-32	60	100		08834184655		
		80			08834184042		
2	8-32	60	100	66261195054			
		80		66261195055			08834184076
		100		66261195056			08834184145
		120					
2-1/2	8-32	80	100		08834184444		
3	1/4-20	50	100		08834184818		
		60			66261195057		08834184041
		80			66261195058		08834184077
		100			66261195059		08834184082
		120			08834184344		
4	1/4-20	60	100		08834184000		
		100			08834184159		
		120			08834185155		
4-1/2	1/4-20	120	100		08834184431		
5	1/4-20	100	100		08834184302		

ALL OVERLAP SLOTTED DISCS ARE AVAILABLE (MADE-TO-ORDER) REINFORCED WITH A FIBER WASHER

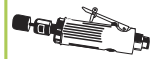
Quick-Change Mandrels for Overlap Slotted Discs, Square and Cross Pads

CROSS PAD SIZE DIA.	SQUARE PAD SIZE DIA.	OAL	MODEL NO.	THD. SIZE	PART NO.
1/4, 3/8, and 1/2 wide		2-1/2	MM48-4	3-48	08834183162
3/4, 1 wide	Up thru 1-1/2 sq. x 1/2 thick 2 sq. x 1/4 or 3/8 thick	3	MM32-4	8-32	08834183163
		4	MM-32-4-4	8-32	08834121680
		6	MM-32-4-6	8-32	08834121681
All pads 2-1/2 x 1-1/2 and larger	2 sq. x 1/4 or 1/2 thick and larger	3	MM20-4	1/4-20	08834183164

FOR OVERLAP SLOTTED DISCS, CHOOSE A MANDREL WITH THE SAME THREAD SIZE AS THE DISC



EXTENDED MANDREL



CATEGORY DEFINITION

Flaps of abrasive cloth are stacked, inserted into a holder, and then attached to a mandrel. The flaps are designed to break down during use and reveal the next layer of abrasive. Cloth flaps are mixed with non-woven flaps to create an interleaf bore polisher.






APPLICATIONS: For deburring, sizing, cleaning and polishing the interior diameters of cylinders, tubes and hydraulic fittings. Flaps adjust automatically to inside diameter, polishing the entire surface area with each pass. Bore polishers are self-centering, so they apply equal pressure to full wall of inside diameter. Spring action design gives faster inside diameter cleaning, deburring and polishing to cylinders, deep bores and tubes.

Interleafed bore polishers are designed to polish and finish in one easy application. The abrasive flaps cut, while the non-woven flaps apply a fine finish.

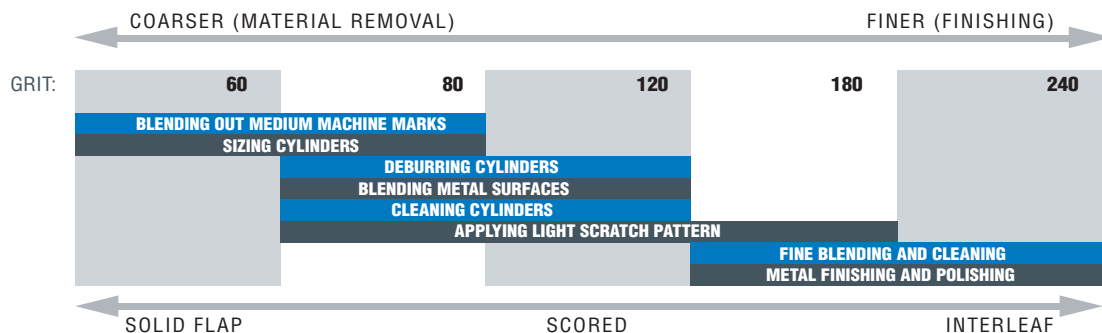
GRIT RANGE: 60 - 240

ABRASIVE GRAIN: Aluminum Oxide

APPLICATION-TO-PRODUCT SHAPE RECOMMENDATION GUIDE

SHAPE	APPLICATION
 <p>Bore Polisher Solid Flaps B-3 Series</p>	<ul style="list-style-type: none"> • For 5/8" to 1" interior diameter bores • 3 abrasive packs 1-1/2" wide, bonded to hub • Use with QC-5 mandrel Part No. 08834154182
 <p>Bore Polisher Solid Flaps B-4 Series</p>	<ul style="list-style-type: none"> • For 1" to 4" interior diameter bores • 4 abrasive packs 1-1/2" wide, bonded to hub • Use with BPM-4 mandrel Part No. 08834154183
 <p>Bore Polisher Solid Flaps B-8 Series</p>	<ul style="list-style-type: none"> • For 2" to 5-7/8" interior diameter bores • 8 abrasive packs 1-1/2" wide, bonded to hub • Use with BPM-8 mandrel Part No. 08834154184
 <p>Bore Polisher Scored Flaps</p>	Available upon request
 <p>Bore Polisher Interleaf</p>	Merit interleaf bore polishers do double duty. Designed to polish and finish in one easy application, they are the ideal choice when close tolerances must be maintained, while giving an interior a polished finish.

APPLICATION/GRIT RECOMMENDATION GUIDE





Merit Aluminum Oxide Bore Polishers

AVAILABILITY

TIER: **GOOD**
 ABRASIVE: Aluminum Oxide
 BACKING: X-wt. Cotton/Poly

TIER: **GOOD**
 ABRASIVE: Aluminum Oxide
 BACKING: X-wt. Cotton/Poly

DESCRIPTION	GRIT	MAX. RPM	STD. PKG.	PART NO.
BORE POLISERS – SOLID FLAP B-3 AND B-4 SERIES				
B-305 Fits I.D. 5/8 to 1	60 80 120 180 240	25,000	10	08834154190 08834154191 08834154193 08834154195 08834154197
B-405 Fits I.D. 1 to 1-1/2	60 80 120 180	22,000	10	08834154091 08834154092 08834154093 08834154094
B-410 Fits I.D. 1-1/2 to 2	60 80 120 180 240	20,000	10	08834154100 08834154101 08834154102 08834154103 08834154104
B-415 Fits I.D. 2-1/8 to 2-1/2	60 80 120 180 240	16,000	10	08834154109 08834154110 08834154111 08834154112 08834154113
B-420 Fits I.D. 2-1/2 to 3	60 80 120 180 240	15,000	10	08834154118 08834154119 08834154120 08834154121 08834154122
B-425 Fits I.D. 3-1/8 to 4	60 80 120 180 240	10,000	10	08834154127 08834154128 08834154129 08834154130 08834154131

DESCRIPTION	GRIT	MAX. RPM	STD. PKG.	PART NO.
BORE POLISERS – SOLID FLAP B-8 SERIES				
B-810 Fits I.D. 2 to 2-1/2	60 80 120 180 240	16,000	10	08834154136 08834154137 08834154138 08834154139 08834154140
B-815 Fits I.D. 2-5/8 to 3	60 80 120 180 240	15,000	10	08834154145 08834154146 08834154147 08834154148 08834154149
B-820 Fits I.D. 3-1/8 to 4	60 80 120 180 240	10,000	10	08834154154 08834154155 08834154156 08834154157 08834154158
B-825 Fits I.D. 4-1/4 to 5-1/4	60 80 120 180 240	8,000	10	08834154163 08834154164 08834154165 08834154166 08834154167
B-830 Fits I.D. 5-1/4 to 5-7/8	60 80 120 180 240	8,000	10	08834154172 08834154173 08834154174 08834154175 08834154176

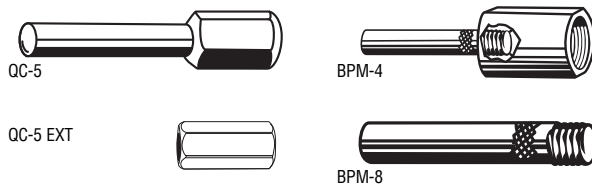
BORE POLISERS – SCORED FLAPS

Available on request

BORE POLISERS – INTERLEAF

B-405 Interleaf Fits ID 1 to 1-1/2	80 180	22,000	10	08834150271 08834150273
B-410 Interleaf Fits ID 1-1/2 to 2	80	20,000	10	08834150275

Mandrels for Bore Polishers



DESCRIPTION	MODEL NO.	THREAD	PART NO.
For B-3 Series	QC-5	5/16-18	08834154182
For B-4 Series	BPM-4	1/2-20	08834154183
For B-8 Series	BPM-8	1/4-20	08834154184
QC-5 Ext.	QC-5 Ext.	5/16-18	08834150573

Extension Mandrels for Bore Polishers

DIA. X L	MODEL NO.	THREAD	PART NO.
1/4 x 4	EM-144	1/4-20	08834154185
1/4 x 6	EM-146	1/4-20	08834154186
1/4 x 8	EM-148	1/4-20	08834154187

To extend a B-3 series bore polisher, attach the QC-5 Ext. to the bore polisher, then attach the desired length extension mandrel above to the QC-5 Ext. To extend a B-4 series bore polisher, attach the adapter piece of the BPM-4 mandrel to the bore polisher, then attach the desired length extension mandrel above to the BPM-4 adapter piece. To extend a B-8 series bore polisher, attach the desired length extension mandrel above directly to the bore polisher.

Test Kit

Bore Polisher Test Kit "BP"

- Part No. 08834154181
- Contains ten bore polishers and two mini 1/4"-20 thread flap wheels in assorted sizes and grits for finishing 1" to 5" interior diameters, and mandrel for 1/4" chuck.







**RAPID
FINISH™**

**BLAZE
RAPID
STRIP™**

VORTEX
technology



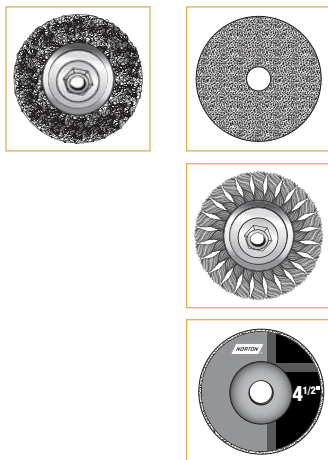
CATEGORY DEFINITION

Non-woven right angle discs have three components: strong synthetic fiber mesh and quality abrasives, bonded together by a smear-resistant adhesive. Rapid Strip discs have an open web construction that enables aggressive cutting action while inherently maintaining a cool, non-loading surface. Rapid Finish discs have a very tight unitized construction for deburring and finishing. Rapid Prep and Surface Preparation discs have a more open weave that excels in preparation and cleaning of a surface. Each product provides excellent cutting action while improving surface finish.

The non-woven web is attached to a fiberglass backing plate (Rapid Strip/Rapid Finish/Rapid Prep depressed center wheels) for direct mounting or onto a woven substrate backing (Surface Prep discs) for mounting on a rubber back-up pad.

APPLICATIONS:	Medium-to-light material removal, deburring, blending, cleaning, finishing, and polishing
SIZE RANGE:	4-1/2" - 7" / 7/8" plain hole or 5/8"-11 discard mount
GRIT RANGE:	X-Coarse, Coarse, Medium, Fine, Very Fine
ABRASIVE GRAIN:	Ceramic Aluminas, Silicon Carbide, Aluminum Oxide
BACKING PLATE:	Fiberglass (Rapid Strip, Rapid Finish and Rapid Prep)
BACK-UP PAD:	Rubber (Surface Prep)

WHY CHOOSE NON-WOVEN RIGHT ANGLE DISCS?

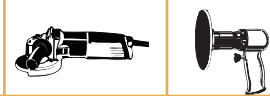


Non-Woven Right Angle Discs vs. Fiber Discs, Wire Wheels, and Depressed Center Wheels

- Deburring, blending and finishing done with one product to reduce the number of steps
- To provide a controlled, sustained finish
- To prevent undercutting and gouging
- To provide a cooler grinding action to lessen the chance of warping or discoloration
- When loading is an issue with fiberglass, adhesives and soft metals
- For stripping coatings and paint off of hard materials like concrete, cement and stone
- Less vibration and quieter for high operator acceptance
- To provide a safe alternative to wire brushes

MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	BEST HIGHEST PRODUCTIVITY LOWEST TOTAL COST	BETTER EXCELLENT BLEND OF PERFORMANCE & PRICE	GOOD CONSISTENT PERFORMANCE LOW INITIAL PRICE
Removing scale and coarse welding marks Removing coatings, epoxy/glue, paint and other clogging material Removing rust, oxidation, corrosion and residue Removing parting lines and seams on fiberglass parts Removing paint/graffiti from concrete/stone	Blaze Rapid Strip Ceramic X/Grse	Rapid Strip S/C X-Coarse	PowerStrip S/C X-Coarse
Removing weld marks and weld splatter Stainless steel deburring and cleaning Removing small flashings and parting lines	Blaze Rapid Strip Ceramic X/Grse Vortex Rapid Finish A/O Medium	AVOS Surface Prep A/O Coarse	Rapid Finish A/O Medium Surface Prep A/O Coarse
Surface preparation before coatings/plating Light cleaning	Blaze Rapid Strip Ceramic X/Grse Vortex Rapid Finish A/O Medium	AVOS Surface Prep A/O Medium	Rapid Prep A/O Medium Surface Prep A/O Medium
Cleaning and prepping welds Removing blemishes after welding stainless	Blaze Rapid Strip Ceramic X/Grse Vortex Rapid Finish A/O Medium	AVOS Surface Prep A/O Medium	Rapid Finish A/O Fine Surface Prep A/O Medium
Blending and finishing all metal parts Creating decorative finishes on stainless steel Final finishing and polishing	Blaze Rapid Strip Ceramic X/Grse	AVOS Surface Prep A/O Very Fine	Rapid Finish S/C Very Fine Surface Prep A/O Very Fine
Final finishing/polishing where high conformability is needed	-	-	Abrasive Brush



APPLICATION/PRODUCT RECOMMENDATION GUIDE

	MOST AGGRESSIVE / LEAST CONFORMABLE			LEAST AGGRESSIVE / MOST CONFORMABLE	
TYPE 27 DISC	BLAZE RAPID STRIP RAPID STRIP, POWERSTRIP	VORTEX RAPID FINISH RAPID FINISH A/O MEDIUM	RAPID FINISH A/O FINE RAPID PREP	RAPID FINISH S/C VERY FINE	ABRASIVE BRUSH
DISCS WITH BACK-UP PAD		SURFACE PREP A/O COARSE	SURFACE PREP A/O MEDIUM	SURFACE PREP A/O VERY FINE	
SCALE REMOVAL	BEST CHOICE				
STOCK REMOVAL	BEST CHOICE	SECOND CHOICE			
HEAVY DEBURRING	SECOND CHOICE	BEST CHOICE			
LIGHT DEBURRING		BEST CHOICE	SECOND CHOICE		
LIGHT FINISHING		SECOND CHOICE	BEST CHOICE		
BLENDING			BEST CHOICE	SECOND CHOICE	
FINISHING			SECOND CHOICE	BEST CHOICE	
POLISHING				BEST CHOICE	SECOND CHOICE

CROSS REFERENCE GUIDE

	STRIPPING EXTRA COARSE		SURFACE FINISHING COARSE – MEDIUM – FINE			SURFACE PREP VERY FINE	
NORTON	BEST Blaze Rapid Strip	BETTER Rapid Strip	GOOD	BEST Vortex Rapid Finish	GOOD Rapid Finish Surface Prep	GOOD Rapid Prep	GOOD Abrasive Brush
MERIT			PowerStrip				
3M	Clean & Strip Clean Strip XT Surface Cond.	Clean & Strip	–	–	–	SL Surface Conditioning	Bristle Discs
Bibielle	–	SDRR Strip-It Red	SDR Strip-It	–	Unitized	–	–
Camel	–	EZ Strip Red	EZ Strip Black	–	–	–	–
Flexovit	–	–	Clean & Strip	–	–	–	–
Hermes	–	–	Webrax	–	–	–	–
Pearl	–	–	S/C Stripping	–	–	Surface Preparation	–
Pferd	–	–	Policlean	–	Poliflex PUR	–	–
Sait	–	–	Sait-Strip	–	Unitized	–	–
Standard	–	–	Cleaning	–	Unitized	–	–
Superior	–	–	Stripping	–	Unitized	–	–
Walter	–	–	FX Cleaning	–	–	Blendex Surface Conditioning	–

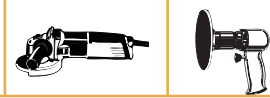


NEW

Blaze Rapid Strip Type 27 Depressed Center Discs

Strip/blend cast iron, steels, aluminum, fiberglass and composites

- Heavy coating of easily identifiable, orange-colored Norton SG Blaze ceramic alumina long-lasting grain and advanced resin bond
- 2X as substantial as competitive discs; lasts 2X (plus) as long
- Will not shed on heavily rust-encrusted pieces
- Extremely versatile; use one disc; stiff enough to stand abuse, but soft enough to prevent gouging and rework
- Use on edge for blending weld root forms
- Apply some pressure to strip-remove coatings; lighter pressure finishes like a surface finishing disc
- Fewer safety, ergonomic, and environmental issues due to fewer change-outs, less downtime, and less production waste/landfill scrap
- Open structure; will not load on sticky coatings, adhesives, and soft metals (e.g. aluminum), or snag and shed like a lantuk or fiber disc



FEATURED PRODUCTS AND AVAILABILITY



RAPID STRIP NON-WOVEN DEPRESSED CENTER DISCS – TYPE 27

BETTER CHOICE FOR QUICK AND EASY ROUGH CLEANING AND STRIPPING OF ALL MATERIALS

FEATURES

- Thick, strong, synthetic fibers and extra coarse silicon carbide abrasive bonded with a durable, smear-resistant adhesive
- Open web construction

BENEFITS

- Aggressive cutting, cleaning and stripping of all materials
- Minimizes loading

AVAILABILITY

	TIER: BEST	BETTER	GOOD
BRAND:	Norton	Norton	Merit
TRADENAME:	BLAZE RAPID STRIP	RAPID STRIP	POWERSTRIP
ABRASIVE:	Ceramic Alumina	Silicon Carbide	Silicon Carbide
GRIT SIZE:	60	36 - 50	36 - 50
GRADE:	X-Coarse	X-Coarse	X-Coarse
TYPE/BACKING:	Type 27/Fiberglass	Type 27/Fiberglass	Type 27/Fiberglass

SIZE (D X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.
4-1/2 x 5/8-11	12,000	10	66254498101	66261009585	08834197038
4-1/2 x 7/8	12,000	10	66623303783	66261009649	08834192122
5 x 5/8-11	11,000	10	66623303915	66254473456	
5 x 7/8	11,000	10	66623303916	66261030655	
7 x 5/8-11	8,000	10	66623303919	66261009650	08834197040
7 x 7/8	8,000	10	66623303920	66261009586	08834196415



VORTEX RAPID FINISH DEPRESSED CENTER DISCS – TYPE 27

REVOLUTIONARY TECHNOLOGY FOR HEAVY DEBURRING AND FINISHING

FEATURES

- High-performance engineered abrasive
- New bond technology
- Controlled porosity

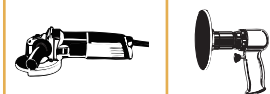
BENEFITS

- Aggressive, fast stock removal cut rate while providing a fine finish
- Twice the wheel life over conventional unified wheels, with minimal shedding
- Consistent performance with no smearing
- Cooler and improved cut rate

AVAILABILITY

	TIER: BEST	GOOD	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	VORTEX RAPID FINISH	RAPID FINISH	RAPID FINISH	RAPID FINISH	RAPID PREP
ABRASIVE:	Engineered A/O	Aluminum Oxide	Aluminum Oxide	Silicon Carbide	Aluminum Oxide
GRIT SIZE:	100-120	150-180	220-280	320-400	150-180
GRADE:	Medium	Medium	Fine	Very Fine	Medium
TYPE/BACKING:	Type 27/Fiberglass	Type 27/Fiberglass	Type 27/Fiberglass	Type 27/Fiberglass	Type 27/Fiberglass

SIZE (D X H)	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
4-1/2 x 5/8-11	12,000	10	66254429243	66261023947	66261023946	66261023943	66261023949
4-1/2 x 7/8	12,000	10	66254429268	66261020548	66261020547	66261020546	66261020549



FEATURED PRODUCTS AND AVAILABILITY



AVOS SURFACE PREP SPEED-LOK DISCS

BETTER CHOICE FOR LIGHT DEBURRING, CLEANING AND FINISHING

FEATURES

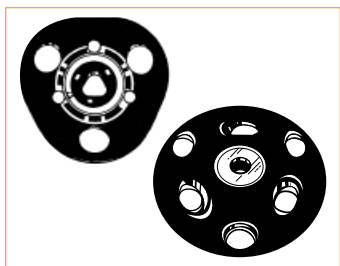
- Patented hole design
- Scooped holes
- 15 degree angle back-up pad

BENEFITS

- Allows interrupted cut which reduces heat up to 30% over standard surface preparation discs
- Cool cutting results in longer disc life
- Provides complete vision into the grinding zone
- Operators can grind more accurately with less re-work
- Create air flow to pull loose abrasive and swarf away from work surface grinding zone – resulting in extended disc life
- Grinding at 5°-15° angle allows greater utilization of disc surface
- Eliminates gouging of workpiece

AVAILABILITY

TIER:		BETTER	BETTER	BETTER	GOOD	GOOD	GOOD
BRAND:		Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:		AVOS SURFACE PREP	AVOS SURFACE PREP	AVOS SURFACE PREP	SURFACE PREP	SURFACE PREP	SURFACE PREP
ABRASIVE:		Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide	Aluminum Oxide
GRIT SIZE:		60-80	150-180	320-400	60-80	150-180	320-400
GRADE:		Coarse	Medium	Very Fine	Coarse	Medium	Very Fine
ATTACHMENT		Speed-Lok	Speed-Lok	Speed-Lok	7/8" Hole	7/8" Hole	7/8" Hole
SIZE (D X H)	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
4-1/2"	40	66261010447	66261010448	66261010449	66254473868	66261051054	66254473867
5"	40	66261009427	66261009428	66261009429	66261008293	66261017123	66254469077
7"	40	66261009430	66261009431	66261009432	66261008953	66254473870	66261069358



DESCRIPTION

AVOS SPEED-LOK BACK-UP PADS

	MAX. RPM	STD. PKG.	PART NO.
4-1/2" x 5/8-11 (triangular)	13,000	5	63642502985
5 x 3/8-24 Pistol Grip* (triangular)	20,000	5	63642503029
5 x 5/8-11 (triangular)	13,000	5	63642502517
5 x 7/16-20 Pistol Grip* (triangular)	20,000	5	63642503030
7 x 5/8-11 Medium (round)	8,600	5	63642504874

* USE ON AIR PNEUMATIC AND HIGH-SPEED PISTOL GRIP SANDERS.



NON-WOVEN ABRASIVE BRUSHES – TYPE 27

USE WHERE MAXIMUM CONFORMABILITY IS NEEDED

FEATURES

- Feature tough, flexible nylon filaments embedded with abrasive grain

BENEFITS

- Provide finishing and polishing where maximum conformability is needed

AVAILABILITY

TIER:		GOOD	GOOD
BRAND:		Norton	Norton
TRADENAME:		ABRASIVE BRUSH	ABRASIVE BRUSH
ABRASIVE:		Silicon Carbide	Silicon Carbide
GRIT SIZE:		80	120
GRADE:		Fine	Very Fine
BACK-UP PAD:		Rubber Back-up Pad	Rubber Back-up Pad
SIZE (D X H)	MAX. RPM	STD. PKG.	PART NO.
7 x 1 x 7/8	6,000	5	66261058830
			66261058834

USE WITH AIR-COOLED RUBBER BACK-UP PAD AND RETAINER NUT

SURFACE PREP DISC AND ABRASIVE BRUSH BACK-UP PADS

4-1/2" Medium	11,000	5	63642502122
5" Medium	10,000	5	63642543421
7" Medium	8,600	5	63642543422
#103 Retainer Nut		10	63642543463



CATEGORY DEFINITION

Merit and Norton non-woven discs are a combination of strong synthetic mesh and quality abrasives, bonded together by a smear-resistant adhesive. They are ideal for use on portable tools to clean and remove imperfections on metal surfaces, clean, deburr or finish a variety of surfaces, blend weld seams, or create decorative finishes. The open construction of the non-woven material enables aggressive cutting action and improved surface finish while maintaining its non-loading feature.

APPLICATIONS:	Medium-light stock removal, beveling, deburring/deflashing, rust removal, blending, cleaning and finishing, polishing
SURFACE FINISHING:	Surface Stripping, Surface Deburring & Blending, Surface Preparation, Buffing, Felt Polishing
MATERIALS:	
SIZE RANGE:	3/4" – 8" diameter
GRIT RANGE:	X-Coarse, Coarse, Medium, Fine, Very Fine
ABRASIVE GRAIN:	Ceramic Aluminas, Aluminum Oxide, Silicon Carbide
ATTACHMENT:	Quick-Change Type TS (Type II), Type TR (Type III), and Type TP (Type I), Hook and Loop, and Arbor Hole
BACK-UP PADS:	Rubber with hardness variations for different applications



QUICK-CHANGE ATTACHMENT SYSTEMS AND CROSS REFERENCE GUIDE

Type TS (Type II)

- Features a turn-on/turn-off style fastener
- Fastener is made of metal
- Equivalent to Standard Abrasives' SocAtt® locking system



Type TR (Type III)

- Features a roll-on/roll-off style fastener
- Fastener is made of plastic
- Equivalent to 3M™ Roloc™ fastening system



Type TP (Type I)

- Snap-on/snap-off system which enables you to change discs quickly and safely, reducing downtime and operating expenses
- Fastener is made of nylon



MERIT

Type II

Type III

Type I

NORTON

TS

TR

TP

3M	Roloc TS/TSM	Roloc TR	Roloc TP
Standard	TS (SocAtt)	TR (Lockit)	TP (ClickOn)
Superior	Type S	Type R	–
Arc	Type S	Type R	Type P
Pferd	Type CD	Type CDR	–
Sait	SAIT-LOK	SAIT-LOK-R	–
Camel	Turn On	Roll On	–
Klingspor	QMC	QRC	–
Garryson	Type S	Type R	–

APPLICATION/GRIT RECOMMENDATION GUIDE

	MOST AGGRESSIVE				LEAST AGGRESSIVE	
	POWERSTRIP	DEBURRING & BLENDING	AG, GD SURFACE PREP	GD, XC SURFACE PREP	HS BUFFING, BUFFING	FELT POLISHING
MERIT						
NORTON	BLAZE RAPID STRIP RAPID STRIP	VORTEX RAPID BLEND VORTEX & NEX DEBURRING & BLENDING	STE-CS, STE-VS SURFACE PREP	STE-VS, STE SURFACE PREP		
SCALE REMOVAL	BEST CHOICE					
STOCK REMOVAL	BEST CHOICE	SECOND CHOICE				
HEAVY DEBURRING	SECOND CHOICE	BEST CHOICE				
LIGHT DEBURRING		BEST CHOICE	SECOND CHOICE			
LIGHT FINISHING			BEST CHOICE	SECOND CHOICE		
BLENDING			BEST CHOICE	SECOND CHOICE		
CLEANING			SECOND CHOICE	BEST CHOICE		
FINISHING				BEST CHOICE	SECOND CHOICE	
POLISHING						BEST CHOICE



CROSS REFERENCE GUIDE

	STRIPPING		HEAVY/LIGHT DEBURRING		LIGHT DEBURRING/BLENDING/CLEANING/FINISHING			POLISHING	
MERIT	BEST	GOOD PowerStrip	BEST	BETTER Deburring & Blending	BEST AG Surface Prep	BETTER GD Surface Prep	GOOD XC Surface Prep	GOOD HS Buffing Buffing	GOOD Felt Polishing
NORTON	Blaze Rapid Strip	Rapid Strip	Vortex Rapid Blend Vortex Deburring & Blending	NEX Deburring & Blending	STE-CS Surface Prep	STE-VS Surface Prep	STE Surface Prep		
3M	Clean & Strip Clean Strip XT	-	-	EXL Unitized	Surface Cond SL	Surface Cond SE	Surface Cond	-	-
Standard		Cleaning Disc	-	500-900 Series Unitized	FE	GP	RC	Buff & Blend - HS Buff & Blend	Felt Polishing
Fiberal/SIA			-		Meteor	Type B	Type C	-	-
Superior		Type R	-	XL Unitized	FD	GD	CC	HS, HD A/O	F LT
Arc		Arcstrip	-	-	-	-	Surface Cond	Blend & Finish	-
Pferd		Policlean	-	-	-	Finishing Disc - Hard	Finishing Disc - Soft	-	Felt Discs
Sait		SAIT-Strip	-	-	-	Heavy Duty	General Purpose	Sand-Light Blending	Buffing Disc
Camel		EZ Strip - Black	-	-	-	-	-	-	-
Klingspor		Strip-It Black	-	-	-	-	-	-	-
Garryson			-	-	-	-	Surface Cond	-	-
Bibielle			-	BUR Unitized	-	-	DCR	-	-

ABRASIVE/GRIT/DENSITY KEY

ABRASIVE	S/C		A/O		
	SHARPER, FINER/BRIGHTER SCRATCH PATTERN			MORE DURABLE, LONGER LASTING, POLISHED FINISH	
GRIT SIZE	XC (24-36)	C (50-80)	M (100-150)	F (180-220)	VF (240-360)
	FASTER, AGGRESSIVE CUT, ROUGHER FINISH			REDUCED CUT RATE, FINER FINISH	
DENSITY	2		9		
	SOFT, OPEN, CONFORMABLE, LESS BURNING/LOADING			HARDER, MORE DURABLE, FASTER CUTTING, BETTER FINISH	

FEATURED PRODUCTS AND AVAILABILITY



Quick-Change Surface Stripping Discs

- Surface Stripping material provides a unique combination of aggressive performance, long life and improved finish. It is ideal for removing coatings on a variety of substrates, such as wood, metal and plastics.
- Incorporated with extruded nylon fibers, flexible resin technology, and extra-coarse abrasive grains, these discs outperform traditional coated abrasive products, leaving a thoroughly cleaned surface, which ensures excellent adhesion in subsequent processes such as coating, painting and soldering.
- NEW! Blaze Rapid Strip:** 2X as substantial as competitive discs; lasts 2X (plus) as long. Stiff enough to stand abuse; soft enough to prevent gouging and rework. Apply some pressure to strip/remove coatings; lighter pressure finishes like a surface finishing disc. Will not load on sticky coatings, adhesives, and soft metals, or snag and shed like a lanuk or fiber disc.

TIER:	BEST	BETTER	GOOD	GOOD			
BRAND:	Norton	Norton	Merit	Merit			
TRADENAME:	BLAZE RAPID STRIP	RAPID STRIP	POWERSTRIP	POWERSTRIP			
ABRASIVE:	Ceramic Alumina	Silicon Carbide	Silicon Carbide	Silicon Carbide			
GRADE:	XC	XC	XC	XC			
ATTACHMENT:	TR (Type III)	TR (Type III)	TS (Type II)	TR (Type III)			
DIAMETER	MAX. RPM	STD. PKG.	PART NO.	STD. PKG.	PART NO.	PART NO.	PART NO.
2 x 1/2	15,500	25	66623303912	10	66261013402	08834167724	08834163514
3 x 1/2	12,000	25	66261096557	10	66261013403	08834167725	08834163513
4 x 1/2	8,000	5	66623303921	10	66261016580	08834167726	08834167722



FEATURED PRODUCTS AND AVAILABILITY

Deburring & Blending Discs



NEW

VORTEX RAPID BLEND DISCS

REVOLUTIONARY TECHNOLOGY FOR HEAVY DEBURRING AND FINISHING

FEATURES

- Proprietary Vortex aluminum oxide aggregate grain
- Special resin chemistry
- 3D construction: abrasive is distributed throughout the entire conformable disc (top, bottom and side)

BENEFITS

- Performs the medium and very-fine grit steps of traditional discs in an easy one-step operation
- Resists shedding when used on sharp edges, making it ideal for deburring
- All three faces can be used – versus competitive discs' one bottom layer of abrasive
- 3 - 8 times the life of competitive surface blending discs
- Fewer safety, ergonomic, and environmental issues due to fewer change-outs, less downtime, and less production waste/landfill scrap
- No smearing because edge has no scrim

TIER:	BEST	BEST	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton	Merit
TRADENAME:	VORTEX RAPID BLEND	VORTEX RAPID BLEND	VORTEX DEBURR/BLEND	NEX DEBURR/BLEND	DEBURR/BLEND
ATTACHMENT:	TR (Type III)	TS (Type II)	TR (Type III)	TR (Type III)	TR (Type III)

SIZE (D X T)	ABR.	GRIT	DENSITY	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
1 x 1/4	A/O	M	1	35,100	100	66254497806 NS				
1-1/2 x 1/4	A/O	M	1	30,100	80	66254497807 NS				
2 x 1/8	A/O	C	7-9	22,000	60				66261014921	
	A/O	M	2-3	22,000	60				66261014897	
	A/O	M	4-6	22,000	60			66254425632	66261014911	
	A/O	M	7-9	22,000	60			66254433509	66261014935	
	S/C	F	2	22,000	60				66261014889	
	S/C	F	3	22,000	60				66261017306	
	S/C	F	4-6	22,000	60				66261014906	
2 x 3/16	A/O	M	2-3	22,000	60			66254428236		
2 x 1/4	A/O	C	7-9	22,000	60					66261054187
	A/O	M	1	22,100	25	66254497067	66254497070			
	A/O	M	2-3	22,000	60			66254428237		66261054183
	A/O	M	4-6	22,000	60			66254413660		66261054185
	A/O	M	7-9	22,000	60			66254433510		66261054186
	S/C	F	2-3	22,000	60					66261054182
	S/C	F	4-6	22,000	60					66261054184
3 x 1/8	A/O	C	7-9	15,000	40				66261014922	
	A/O	M	2-3	15,000	40				66261014898	
	A/O	M	4-6	15,000	40			66261093556	66261014912	66261054191
	A/O	M	7-9	15,000	40			66261090909	66261014936	
	A/O	F	2-3	15,000	40					66261054188
	A/O	F	4	15,000	40				66261015419	66261054189
	A/O	F	6	15,000	40					66261054190
3 x 3/16	A/O	M	7-9	15,000	40			66254428239		
3 x 1/4	A/O	C	7-9	15,000	40					66261054198*
	A/O	M	1	18,100	25	66254497068	66254497069			
	A/O	M	2-3	15,000	40			66254428238		66261054193*
	A/O	M	4-6	15,000	40			66254413661		66261054196*
	A/O	M	7-9	15,000	40			66254406395		66261054197*
	A/O	F	2-3	15,000	40					66261054192*
	A/O	F	4-6	15,000	40					66261054194*
	S/C	F	2	15,000	40				66261014890	
	S/C	F	3	15,000	40				66261016005	
	S/C	F	4-6	15,000	40					66261054195*

* MERIT DEBURR/BLEND STD. PKG. = 20 DISCS NS = NON-STOCK

Refer to the end of this section for a list of quick-change back-up pads.



FEATURED PRODUCTS AND AVAILABILITY

Surface Preparation Stars



- The perfect item for I.D. work
- Their shape penetrates the I.D. and polishes or cleans the surface without disturbing any tolerances
- Attach their 1/4-20 eyelets to Merit's MM20-4 mandrel. Part No. 08834183164 (See description at end of Overlap Slotted Disc Section.)

TIER:	GOOD
BRAND:	Merit
TRADENAME:	AG
ABRASIVE:	A/O
ATTACHMENT:	1/4-20

SIZE (D X EYELET)	GRIT	STD. PKG.	PART NO.
1-1/2" x 1/4-20	C	100	08834185923
	M		08834185924
	VF		08834185925
2" x 1/4-20	C	100	08834185926
	M		08834185927
	VF		08834485928
3" x 1/4-20	C	100	08834185929
	M		08834185678
	VF		08834185931
4" x 1/4-20	C	100	08834185932
	M		08834185933
	VF		08834185934

FEATURED PRODUCTS AND AVAILABILITY

Surface Preparation Discs



Norton Surface Preparation Discs

Norton STE-CS

- Aggressive, very sharp abrasive, closed structure; work best on harder materials, and low- and high-force applications

Norton STE-VS

- Slightly open structure, firm backing; great multi-purpose discs; work well on a variety of materials

Norton STE

- More open structure, flexible backing; excellent on soft materials and low-force applications

TIER:	BEST	BEST	BETTER	BETTER	GOOD	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	STE-CS	STE-CS	STE-VS	STE-VS	STE	STE
ABRASIVE:	A/O	A/O	A/O	A/O	A/O	A/O
ATTACHMENT:	TS (Type II)	TR (Type III)	TS (Type II)	TR (Type III)	TS (Type II)	TR (Type III)

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.						
2"	XC	50	66261017819	66261016373	66261004439	66261004437	66261009183	66261009191•						
	C													
	M								66261017528	66261016763	66261004449	66261004447	66261009182	66261009190•
	VF										66261004459	66261004457	66261009181	66261009189•
3"	XC	25	66261017818	66261016994	66261004440	66261004438	66261009186	66261009194						
	C													
	M								66261017817	66261016995	66261004450	66261004448	66261009185	66261009193
	VF										66261004460	66261004458	66261009184	66261009192
4"	C	25			66261055349	66261008822								
	M				66261055350	66261008821								
	VF				66261008820									

• PACKAGING STANDARDS: 2" STE TR DISCS STD. PKG. = 25
 REFER TO THE END OF THIS SECTION FOR A LIST OF QUICK-CHANGE BACK-UP PADS

Refer to the end of this section for a list of quick-change back-up pads.






Surface Preparation Discs



Merit AG Surface Preparation Discs

AG

- Aggressive, very sharp abrasive, closed structure; work best on harder materials, and low- and high-force applications

TIER:	BEST	BEST	BEST
BRAND:	Merit	Merit	Merit
TRADENAME:	AG	AG	AG
ABRASIVE:	A/O	A/O	A/O
ATTACHMENT:	TS (Type II) 	TR (Type III) 	5/8-11 

SIZE (D)	GRADE	STD. PKG.	PART NO.	PART NO.	PART NO.
2"	C	50	08834167821	08834167825	
	M		08834167822	08834167826	
3"	C	25	08834167823	08834167827	
	M		08834167824	08834167828	
5"	C	50			08834164631
	M				08834168802
7"	C	25			6995735012
	M				66261039943










Merit GD & XC Surface Preparation Discs

GD

- Slightly open structure, firm backing; great multi-purpose discs; work well on a variety of materials

XC

- More open structure, flexible backing; excellent on soft materials and low-force applications

TIER:	BETTER	BETTER	BETTER	GOOD	GOOD	GOOD	GOOD
BRAND:	Merit	Merit	Merit	Merit	Merit	Merit	Merit
TRADENAME:	GD	GD	GD	XC	XC	XC	XC
ABRASIVE:	A/O	A/O	A/O	A/O	A/O	A/O	A/O
ATTACHMENT:	TS (Type II) 	TR (Type III) 	TP (Type I) 	TS (Type II) 	TR (Type III) 	TP (Type I) 	5/8-11 

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
3/4"	C	100	08834163637	08834166231	08834163845	08834166239	08834166242	08834166236
	M		08834163638	08834166212	08834163846	08834166238	08834166241	08834166235
	VF		08834163639	08834166211	08834163847	08834166237	08834166240	08834166234
1"	C	100	08834163640	08834163850	08834166201	08834166474	08834166248	08834161710
	M		08834163641	08834163851	08834166200	08834166475	08834167368	08834166246
	VF		08834163642	08834163852	08834166199	08834166476	08834160754	08834166243
1-1/2"	C	100	08834164736	08834163540	08834163048	08834166407	08834166366	08834166334
	M		08834163590	08834163515	08834163049	08834166408	08834166380	08834166335
	VF		08834163589	08834163516	08834163050	08834166409	08834166367	08834166336
2"	C	50	08834162906	08834162912	08834163039	08834166287	08834166289	08834166271
	M		08834162907	08834162913	08834163040	08834166288	08834166290	08834166272
	VF		08834162908	08834162914	08834163041	08834166317	08834166318	08834166273
3"	C	25	08834162909	08834162915	08834163045	08834166319	08834166322	08834166275
	M		08834162910	08834162916	08834163046	08834166320	08834166291	08834166276
	VF		08834162911	08834162917	08834163047	08834166321	08834166323	08834166277
4"	C	25	08834166445	08834166448	08834166442	08834166388	08834166327	08834166298
	M		08834166444	08834166447	08834166441	08834166389	08834166328	08834166299
	VF		08834166443	08834166446	08834166440	08834166390	08834166329	08834166300
5"	C	50						08834166411
	M							08834166412
	VF							08834166413
7"	C	25						08834166414
	M							08834166415
	F							08834166416

Refer to the end of this section for a list of quick-change back-up pads.








FEATURED PRODUCTS AND AVAILABILITY

Buffing/Polishing Discs



Merit Buffing Discs

- Tough, yet conformable, high-strength discs are smear-proof and resist tearing on burrs and sharp edges
- Designed for light removal of paint or rust without affecting the base product


TIER:	BETTER	BETTER	GOOD	GOOD	GOOD
BRAND:	Merit	Merit	Merit	Merit	Merit
TRADENAME:	HIGH-STRENGTH	HIGH-STRENGTH	BUFFING	BUFFING	BUFFING
ABRASIVE:	A/O	A/O	A/O	A/O	A/O
ATTACHMENT:	TS (Type II) 	TR (Type III) 	TS (Type II) 	TR (Type III) 	TP (Type I) 

SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
1-1/2"	C	100			08834166391	08834161647	08834166294
	M				08834166392	08834166368	08834166292
	F				08834166393	08834166369	08834166332
	VF				08834166406	08834166417	08834166333
2"	C	50	08834164244	08834164064	08834166394	08834161649	08834161627
	M				08834166395	08834166303	08834166280
	F				08834166396	08834166304	08834166281
	VF				08834164245	08834163987	08834166305
3"	C	25	08834164252	08834164065	08834166397	08834161651	08834166293
	M				08834166398	08834166308	08834166284
	F				08834166399	08834166309	08834166285
	VF				08834164255	08834163559	08834166310
4"	C	25			08834166400	08834161654	08834161652
	M				08834166401	08834166314	08834166295
	F				08834166402	08834166315	08834166296
	VF				08834166404	08834166316	08834166297



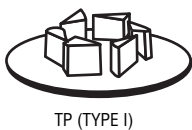
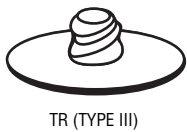
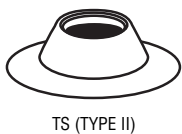
Merit Felt Polishing Discs

- Made from a white, non-abrasive, felt material for final polishing applications
- Can be used with or without polishing compounds

TIER:	GOOD
BRAND:	Merit
TRADENAME:	FELT POLISHING
ABRASIVE:	Non-Abrasive
ATTACHMENT:	TR (Type III) 

SIZE (D)	STD. PKG.	PART NO.
2"	50	08834164407
3"	25	08834164408

Quick-Change Back-up Pads



- Hard density pads are for aggressive cutting action
- Medium density pads are for all-purpose applications
- Soft density pads are used for contours and fine finishing work

Refer to the end of the Coated Abrasive Quick-Change Discs section for a complete list of back-up pads and mandrels.

DIAMETER	MAX. RPM	DENSITY	TS (TYPE II)	TR (TYPE III)	TP (TYPE I)
QUICK-CHANGE BACK-UP PADS					
9/16"	40,000	Medium	66261054014		66261054013
3/4"	40,000	Medium	08834164206	08834164038	08834164001
1"	40,000	Medium	08834164651	08834164037	08834164002
1-1/2"	30,000	Hard	08834164622	08834164640	08834163996
		Medium	08834164146	08834161174	08834164003
2"	30,000	Hard	08834164624	08834164643	08834163997
		Medium	08834164198	08834164922	08834164004
		Soft	08834161625	08834164641	08834163949
3"	20,000	Hard	08834161626	08834164036	08834163998
		Medium	08834164113	08834164949	08834164005
		Soft	08834164626	08834164644	08834163948
4"	15,000	Medium	08834164135	08834164655	08834164006

ALL QUICK-CHANGE BACK-UP PADS HAVE A 1/4" DIAMETER SHANK. STD. PKG. = 1



FEATURED PRODUCTS AND AVAILABILITY

Non-Woven Hook and Loop Discs



STE-VS HOOK AND LOOP DISCS
BETTER CHOICE FOR MULTI-PURPOSE APPLICATIONS

FEATURES

- Slightly open structure
- High abrasive content
- Firm backing

BENEFITS

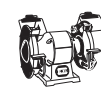
- Resists loading and chunking
- Continuous cut rate on soft (e.g. aluminum) and hard materials (e.g. steels and nickel alloys)
- Low stretch

SIZE (D)	ABRASIVE	GRIT	STD. PKG.	TIER:	
				BETTER	GOOD
2" Blank	A/O	C	80	Norton	Merit
	A/O	M		STE-VS	GD
	A/O	VF		A/O	A/O
3" Blank	A/O	C	60	Hook and Loop	Hook and Loop
	A/O	M		PART NO.	PART NO.
	A/O	VF		66261004431 05539562621 66261004441 05539562620 66261004451 05539562619	66261004432 05539562624 66261004442 05539562623 66261004452 05539562622
4" Blank	A/O	C	40	66261004433	05539512515
	A/O	M		66261004443	05539512514
	A/O	VF		66261004453	05539512513
4-1/2" Blank	A/O	C	40	66261004434	05539520420
	A/O	M		66261004444	05539520419
	A/O	VF		66261004454	05539520418
5" Blank	A/O	C	40	66261004435	05539512519
	A/O	M		66261004445	05539512518
	A/O	VF		66261004455	05539512517
6" Blank	A/O	C	30	66261006910	05539512522
	A/O	M		66261006911	05539512521
	A/O	VF		66261006912	05539512520
7" Blank	A/O	C	25	66261004436	05539512525
	A/O	M		66261004446	05539512524
	A/O	VF		66261004456	05539512523
8" Blank	A/O	C	20	66261006913	05539562627
	A/O	M		66261006914	05539562626
	A/O	VF		66261006915	05539562625



PAD DIAMETER	SPINDLE OR HOLE SIZE	MAX. RPM	3M EQUIVALENT	STD. PKG.	PART NO.
BACK-UP PADS FOR HOOK AND LOOP DISCS					
2	1/4 Steel Shank	23,000	922	5	66261059352
3	1/4 Steel Shank	20,000	923	5	66261059354
4	1/4 Steel Shank	18,000	924	5	66261059356
	1/2-13	13,000	914	5	66261059303
	5/8-11	13,000	914	5	66261059304
	M10 x 1.250	13,000		5	66261059305
4-1/2	5/8-11	10,000	9145	5	66261006948
5	5/16-24 Male	10,000	905	5	66261059360
	3/8-24 Male	10,000	905	5	66261059308
	5/8-11	10,000	915	5	66261059310
6	5/8-11	8,000	916	5	66261059312
7	5/8-11	6,000	917	5	66261059368
8	5/8-11	4,500	918	5	66261059372





FEATURED PRODUCTS AND AVAILABILITY

Non-Woven High Strength Discs



HIGH STRENGTH AND FASTCUT DISCS
BETTER CHOICE FOR LIGHT DEBURRING AND FINISHING

FEATURES

- Firm, durable web
- Tough, yet conformable
- Strong, smear-proof resin binders

BENEFITS

- High resistance to tearing on burrs and sharp edges
- Can be “ganged” together and used as a wheel
- Produce light satin finishes

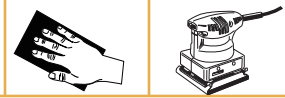
- Applications include rust/oxide or coating removal, pipe ID and OD polishing, casting cleaning, highlighting (antiquing), contaminant removal, removal of handling marks, gasket removal, cleaning and blending of surface imperfections, prepping prior to soldering, removal of filling materials, cleaning angles and odd shapes

TIER:	BETTER
BRAND:	Norton
TRADENAME:	HIGH STRENGTH
ABRASIVE:	Aluminum Oxide

SIZE (D X H)	ABRASIVE	GRIT	MAX. RPM	STD. PKG.	PART NO.
6 x 1/4	A/O	VF	4,000	70	66261007628
6 x 1/2	A/O	M	4,000	70	66261005073
	A/O	VF			66261004980
8 x 1/2	A/O	M	3,000	50	66261005491
	A/O	VF			66261004506
12 x 1-1/4	A/O	VF	1,900	25	66261008723



FITS HOLE	FOR DISC WIDTH	FOR DISC DIAMETER	SHANK DIAMETER	OVERALL LENGTH	WASHER DIAMETER	STD. PKG.	PART NO.
MANDREL ASSEMBLIES FOR USING DISCS ON EDGE							
1/4"	1/2" (Standard)	up to 6"	1/4"	2-1/2"	1-1/2"	1	66261009502
1/2"	1/2" (Standard)	Up to 8"	1/4"	3-1/8"	2-1/4"	1	66261059420



CATEGORY DEFINITION

Surface finishing hand pads and rolls are made of a non-woven nylon web impregnated with abrasive grain and resin bond.

- APPLICATIONS:** Light- to heavy-duty cleaning, deburring, blending, polishing, and finishing of metal, wood, composite, plastics, stone, solid surface and painted surfaces.
- ABRASIVE GRAIN:** Aluminum Oxide, Silicon Carbide
- GRIT RANGE:** Coarse (C), Medium (M), Fine (F), Very Fine (VF), Ultra Fine (UF), Micro Fine (MF), Non-Abrasive (-)
- HAND PAD FEATURES:**
- Flexible; conform to work surface
 - Gentle action easily removes flashing or burrs without affecting dimension of workpiece
 - Non-loading; constant supply of new cutting edges
 - Non-rusting; no workpiece contamination
 - Resilient construction; long life, increased productivity; solvent resistant; waterproof
- SPONGE PAD FEATURES:**
- Non-woven material is laminated to a long-lasting sponge for the convenience of 2 pads in one
 - Superior replacement for steel wool
- ROLL FEATURES:**
- Economical alternative to cut pads
 - Can be cut to specific sizes

APPLICATION/GRIT RECOMMENDATION GUIDE

	← MORE AGGRESSIVE, ROUGHER FINISH					LESS AGGRESSIVE, FINER FINISH →				
PRODUCT #:	#181	#740	#746	#644	#747	#796	#635	#748	#914	#456
COLOR:	(BLUE)	(DARK TAN)	(GRAY)	(MAROON)	(MAROON)	(GREEN)	(GRAY)	(GRAY)	(GOLD)	(WHITE)
DESCRIPTION:	STRIPPING	HEAVY DUTY	BLENDING	GP - FINE	GP PLUS - VERY FINE	SCOURING	CLEAN & FINISH	FINAL SHINE	CLEAR BLEND PREP	CLEANING
ABRASIVE:	AO	AO	SC	AO	AO	AO	SC	SC	AO	Non-Abrasive
GRIT SIZE:	Coarse 50 - 80	Medium 100 - 150	Medium 100 - 150	Fine 180 - 220	Very Fine 240 - 360	Very Fine 240 - 360	Ultra Fine 400 - 600	Micro Fine 800 - 1200	Micro Fine 800 - 1200	Non-Abrasive - - - -
STEEL WOOL EQUIVALENT:	2 Coarse	1 Medium	1 Medium	N/A	0 Fine	0 Fine	00 VF	000 EF	000 EF	0000 SF
APPLICATION:	<ul style="list-style-type: none"> • Extra heavy stripping and cleaning - Coatings - Paint - Corrosion - Rust 	<ul style="list-style-type: none"> • Heavy-duty removal - rust - oxidation • Deburring 	<ul style="list-style-type: none"> • Blending and deburring - welds - aluminum - dies 	<ul style="list-style-type: none"> • Cleaning and deburring - machinery - metal parts - plastic - solid surface - stone 	<ul style="list-style-type: none"> • Light cleaning, deburring and finishing - machinery - metal parts - plastic - solid surface - stone 	<ul style="list-style-type: none"> • Removing stains, marks, rust, corrosion or oxidation from stainless equipment • Light cleaning of metal surfaces 	<ul style="list-style-type: none"> • Light cleaning and finishing of most surfaces - steel, aluminum - denibbing plastic - scuffing acrylics 	<ul style="list-style-type: none"> • Final finishing - final rub on wood - final blend metal - final finish plastics and acrylics 	<ul style="list-style-type: none"> • Scuffing prior to clear coat blending • Sanding base coats without removing the coat • Polishing, blemish repair and finishing all materials 	<ul style="list-style-type: none"> • Scratch-free cleaning - stainless steel - fiberglass - stone - solid surface - ceramic - copper / chrome • Wood - highlighting - rubbing

CROSS REFERENCE GUIDE

	← COARSER				FINER →					
Norton/Merit	#181	#740	#746	#644	#747	#796	#635	#748	#914	#456
3M	-	7440	7446	6444	7447/8447 Production Hand Pad	96	6448	7448	-	7445
Camel	-	Tan	-	-	Maroon	Green	-	Grey	-	White
Mirka	-	-	-	-	Maroon/Red VF	-	-	-	-	-
Sait	-	Brown	-	-	Maroon	Green	-	Gray	-	-
SIA	-	6912 Brown	6712 Grey	-	6912 Maroon	6312 Green	-	-	-	-
Standard	-	HD-Tan AO	-	-	GP-Maroon VF	Green-AO	HP-VF	UF Gray	-	Cleaning White



AVAILABILITY						TIER:	BETTER	GOOD	GOOD
						BRAND:	Norton	Norton	Merit
SIZE (W X L)	COLOR	DESCRIPTION	ABRASIVE	GRIT SIZE	STD. PKG.		PART NO.	PART NO.	PART NO.
HAND PADS									
6 x 9	Blue	181 Stripping Pad	A/O	C	20			66254494732	
	Dark Tan	740 Heavy-Duty Pad	A/O	Med	20			66261074000	08834193462
	Gray	746 Blending Pad	S/C	Med	20			66261074600	
	Maroon	644 General Purpose Fine Pad	A/O	F	20			66261018286	
	Maroon	777 General Purpose Very Fine Pad	A/O	VF	20			66261077700	08834193463
	Maroon	747 General Purpose Plus Pad	A/O	VF	20		66261074700		08834196204
	Maroon	747 General Purpose Plus Perforated Pad	A/O	VF	20		66261084700		
	Green	796 Scouring Pad	A/O	VF	20			66261079600	08834193497
	Lt. Green	696 Food Pro Pad	A/O	VF	20			66261069600	
	Gray	851 General Cleaning Pad	S/C	VF	20			66261085100	
	Gray	635 Clean & Finish Pad	S/C	UF	20			66261063500	
	Gray	748 Final Shine Pad	S/C	MF	20			66261074800	08834196196
	Gold	914 Clear Blend Prep Pad	A/O	MF	20			66261195914	
	White	456 Cleaning Pad	None	-	20			66261045600	08834193270
HAND PAD HOLDER									
3-1/4 x 5-1/2	N/A	Hand Pad Holder			10			66261047583	08834190748
ROLLS									
2" x 30 Ft.	Dark Tan	740 Heavy-Duty Roll	A/O	M	10			66254494550	
	Maroon	777 General Purpose Roll	A/O	VF	10			66261041679	
	Gray	635 Clean & Finish Roll	S/C	UF	10			66261002982	
4" x 30 Ft.	Maroon	High Strength Roll	A/O	M	3		66261006358		
	Dark Tan	740 Heavy-Duty Roll	A/O	M	3			66261010081	
	Maroon	644 General Purpose Fine Roll	A/O	F	4			66261058364	05539511952
	Maroon	777 General Purpose Very Fine Roll	A/O	VF	4		66261006373		05539526809
	Maroon	747 General Purpose Plus Roll	A/O	VF	4		66261051701		05539562608
	Green	796 Scouring Roll	A/O	VF	5				05539562607
	Gray	851 General Cleaning Roll	S/C	VF	3			66261058360	05539515708
	Gray	635 Clean & Finish Roll	S/C	UF	5			66261058357	05539512500
	Gray	748 Final Shine Roll	S/C	MF	5				05539562609
	White	456 Cleaning Roll	None	-	3			66261052235	05539512839
6" x 30 Ft.	Maroon	High Strength Roll	A/O	M	2		66261005182		05539527176
	Maroon	747 General Purpose Plus Roll	A/O	VF	3		66261016430		05539512505
	Maroon	777 General Purpose Very Fine Roll	A/O	VF	3		66261004281		05539526424
	Gray	851 General Cleaning Roll	S/C	VF	3			66261058377	05539562610
	Gray	635 Clean & Finish Roll	S/C	UF	3				05539512503
SCOURING PADS/SPONGES									
3-1/4 x 6-1/4 x 3/4	Green/Yellow	893 Scour-N-Sponge Pad	A/O	VF	40			66261059403	
3-1/4 x 6-1/4 x 3/4	White/Yellow	875 Clean-N-Sponge Pad	None	-	40			66261059402	



Handy Roll Assortment Pack

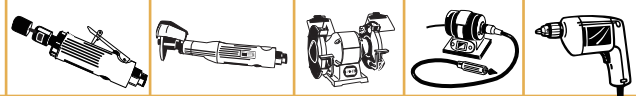


- Part No. 66261008108
- Non-woven rolls may be cut for use in hand sanding applications
- Convenient dispenser box containing three 2" x 15 foot long rolls, 1 each of:
644 General Purpose Fine
747 General Purpose Plus
748 Fine Shine



Hand Pad Test Kit

- Part No. 66254494733
- Non-woven pads are used in applications ranging from stripping and blending to cleaning and polishing
- Hand Pad Test Kit provides one of each of the 14 different materials along with the recommendation guide to help determine which pads you need for all your applications



CATEGORY DEFINITION

Made from non-woven synthetic fiber mesh, which is impregnated with abrasives and bound with resins, non-woven wheels are designed to create desired surface finish where little or no stock removal is required. The industry's broadest offer is available for light stock removal, deburring, blending, finishing and polishing. Non woven wheels have an open mesh construction that is waterproof, washable, conformable and non-loading.

- APPLICATIONS:** Clean and remove imperfections on metal surfaces, clean built-up residue, deburr or finish a variety of surfaces, blend weld seams or create decorative finishes.
Non-woven surface finishing products have excellent versatility.
- ABRASIVE GRAIN:** Aluminum Oxide, Silicon Carbide
- GRIT RANGE:** Extra Coarse (XC), Coarse (C), Medium (M), Very Fine (VF),

APPLICATION/GRIT RECOMMENDATION GUIDE

	MOST AGGRESSIVE ← → LEAST AGGRESSIVE							
	RAPID STRIP	VORTEX & NEX UNIFIED WHEELS	SERIES 4000 & 1000 CONVOLUTE WHEELS	METAL FINISHING CONVOLUTE WHEELS	CLEAN & FINISH WHEELS	LIGHT FINISHING CONVOLUTE WHEELS	NON-WOVEN / INTERLEAF FLAP WHEELS	
SCALE REMOVAL	BEST CHOICE							
STOCK REMOVAL		BEST CHOICE		2ND CHOICE				
HEAVY DEBURRING		BEST CHOICE		2ND CHOICE				
DECORATIVE FINISHING				BEST CHOICE		2ND CHOICE		
BLENDING				BEST CHOICE				
CLEANING				2ND CHOICE		BEST CHOICE		
LIGHT DEBURRING				2ND CHOICE		BEST CHOICE		
LIGHT FINISHING				2ND CHOICE		BEST CHOICE		
POLISHING						BEST CHOICE		2ND CHOICE
BUFFING							BEST CHOICE	

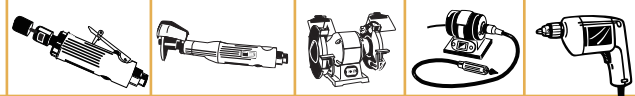
SURFACE FINISH VARIABLES

Changes in any one of many factors can affect the surface finish on the workpiece. This chart shows the effect on surface finish by changes in single factors of product specifications. Arrows have been used to signify the trend direction. The arrow length does not signify that the effect of each factor is equal.

Variable Factor	Rough Finish High Rms Reading	Smooth Surface Lower Rms Reading
1. Wheel Speed	Slow ←	Fast →
2. Feed Speed	Faster (Long Scratch) ←	Slower (Short Scratch) →
3. Oscillation	No Oscillation ←	Oscillation →
4. Lubricants	Dry ←	Water →
		Soluble Oil ←
		Compounds →
		Straight Oil →

NON-WOVEN MARKING SYSTEM

ABRASIVE	S/C					A/O
	SHARPER, FINER/BRIGHTER SCRATCH PATTERN					MORE DURABLE, LONGER LASTING, POLISHED FINISH
GRIT SIZE	XC (24-36)	C (50-80)	M (100-150)	F (180-220)	VF (240-360)	
	FASTER, AGGRESSIVE CUT, ROUGHER FINISH					REDUCED CUT RATE, FINER FINISH
DENSITY	2					9
	SOFT, OPEN, CONFORMABLE, LESS BURNING/LOADING					HARDER, MORE DURABLE, FASTER CUTTING, BETTER FINISH



CROSS REFERENCE GUIDE

	STRIPPING	HEAVY/LIGHT DEBURRING	LIGHT DEBURRING/BLENDING/POLISHING				CLEANING/FINISHING		
NORTON	GOOD Rapid Strip	BEST Vortex Debur & Blend	BETTER NEX Deburring & Blending	BEST Series 4000	BETTER Series 1000	BEST Light Finishing	BEST Metal Finishing	GOOD Clean & Finish	GOOD Non-Woven / Interleaf Flap Wheels
3M	Clean Strip	Cut & Polish Unitized	EXL Unitized	EX2 & EX3	EXL Deburring	Light Deburring	Metal Finishing	Multi Finishing	Finishing Flap Brush
Standard	Britestrip	800 & 900 Series Unitized	500 - 700 Series Unitized	GP Plus	Deburring Convolute	LDW	Metal Finishing	Multi Finishing	Buff & Blend Flap Brush



Surface Stripping Wheels

- Surface Stripping material provides a unique combination of aggressive performance, long life and improved finish. It is ideal for removing coatings on a variety of substrates, such as wood, metal and plastics.
- Incorporated with extruded nylon fibers, flexible resin technology and extra-coarse silicon carbide mineral that provide aggressive performance while outperforming traditional coated abrasives. They leave a thoroughly cleaned surface that ensures excellent adhesion for subsequent processes such as coating, painting and soldering.

AVAILABILITY

TIER: **GOOD**
TRADENAME: **SURFACE STRIPPING WHEELS**

SIZE	MAX. RPM	STD. PKG.	PART NO.
ARBOR HOLE			
4 x 1/4	8,000	25	66261008008
4 x 1/2	8,000	25	66261007916
6 x 1/2	5,500	15	66261008051
8 x 1/2	3,000	24	08834191432
MANDREL-MOUNTED			
4 x 1/2 x 1/4 sk.	8,000	5	08834120974
4 x 1 x 1/4 sk.	8,000	5	08834120973

Deburring and Blending Unified Wheels

- Designed for maintenance operations needing an efficient and cost-effective method of deburring, polishing, cleaning or finishing metals and composites. Easily preformed for use on a wide variety of shapes / contours. Hold shape well; less wheel dressing. Non-metallic so no contamination of workpiece. Uniform construction maintains part tolerance; prevents cutting or gouging.



NORTON VORTEX UNIFIED WHEELS

BEST CHOICE FOR LIGHT WELD BEAD AND WELD SPLATTER REMOVAL, HEAVY DEBURRING AND FINISHING APPLICATIONS

FEATURES

- High-performance engineered grain and improved resin bond system
- Thick nylon web
- Controlled porosity

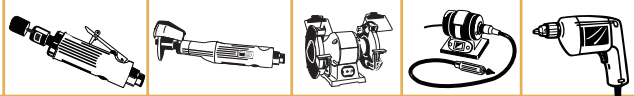
BENEFITS

- Aggressive, fast, stock removal, reduced cycle times, and increased part quality
- 2X longer life and faster finishing – with minimal shedding
- Cool cutting and improved cut rate

AVAILABILITY

TIER: **BEST**
TRADENAME: **VORTEX DEBURRING AND BLENDING UNIFIED WHEELS**

SIZE (D X T X H)	ABRASIVE	GRIT SIZE	STD. PKG.	MAX. RPM	3 DENSITY PART NO.	MAX. RPM	5 DENSITY PART NO.	MAX. RPM	7 DENSITY PART NO.	MAX. RPM	9 DENSITY PART NO.
2 x 1/8 x 1/8	A/O	M	60			22,000	66254425657	20,000	66254410849		
2 x 1/8 x 1/4	A/O	M	60			22,000	66254406346	22,000	66261191446		
2 x 1/4 x 1/4	A/O	M	60	18,000	66254428456	22,000	66254433504	22,000	66261080270		
2 x 1 x 1/4	A/O	M	15					22,000	66261080269		
3 x 1/8 x 1/4	A/O	M	40			18,000	66261093448	18,000	66261191445		
3 x 1/8 x 3/8	A/O	M	40			18,000	66254433503	18,000	66254401131		
3 x 1/4 x 1/4	A/O	M	40	12,000	66254428454	18,000	66254414832	18,000	66261199696		
3 x 1/4 x 3/8	A/O	M	40	12,000	66254433505	12,000	66254433506	18,000	66261199697		
3 x 1/2 x 1/4	A/O	M	20			18,000	66254432925	18,000	66261080267	18,000	66254433507
3 x 1/2 x 3/8	A/O	M	20			18,000	66254433508	18,000	66261080266	18,000	66254420696



Deburring and Blending Unified Wheels CONTINUED



NEX UNIFIED WHEELS
 BETTER CHOICE FOR LIGHT DEBURRING AND BLENDING

FEATURES

- Uniform construction
- Smear-resistant formula

BENEFITS

- Extra long life
- Excellent, consistent, smear-free finishes

AVAILABILITY

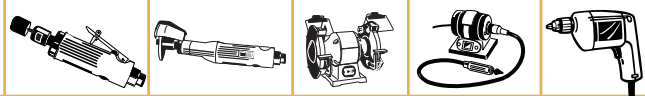
TIER:

TRADENAME:

BETTER

NEX DEBURRING AND BLENDING UNIFIED WHEELS

SIZE (D X T X H)	ABRASIVE	GRIT	MAX. RPM	STD. PKG.	2 DENSITY PART NO.	3 DENSITY PART NO.	4 DENSITY PART NO.	6 DENSITY PART NO.	7 DENSITY PART NO.	8 DENSITY PART NO.
1 x 1 x 3/16	A/O	C	30,000	50	66261014891			66261014908		66261014915
	A/O	M	18,000							
	A/O	M	30,000							
	S/C	F	18,000							
	S/C	F	30,000							
66261014883			66261014904		66261014924					
2 x 1/8 x 1/4	A/O	M	22,000	60						66261014927
2 x 1/4 x 1/4	A/O	C	22,000	60	66261014892			66261014901		66261014916
	A/O	M	18,000							
	A/O	M	22,000							
	A/O	F	22,000							
	S/C	M	22,000							
	S/C	F	18,000							
66261014884					66261014964					
2 x 1/2 x 1/4	A/O	M	22,000	30						66261014925
3 x 1/8 x 1/4	A/O	M	18,000	40						66261014934
3 x 1/4 x 1/4	A/O	C	18,000	40	66261014894		66261015565	66261014909	66261014902	66261014919
	A/O	M	12,000							
	A/O	M	18,000							
	A/O	F	18,000							
	S/C	M	18,000							
	S/C	F	12,000							
66261014886	66261016392				66261014937					
3 x 1/4 x 3/8	A/O	C	18,000	40	66261014895		66261014899	66261014910		66261014920
	A/O	M	12,000							
	A/O	M	18,000							
	A/O	F	12,000							
	S/C	M	18,000							
	S/C	F	12,000							
	S/C	F	18,000							
66261014887	66261016006			66261014905	66261014933					
66261014965					66261014965					
3 x 1/2 x 1/4	A/O	C	18,000	20	66261014893			66261014928		66261014917
	A/O	M	12,000							
	A/O	M	18,000							
	S/C	F	12,000							
66261014885										
3 x 1/2 x 3/8	A/O	C	18,000	20					66261014913	66261014918
	A/O	M	18,000							
	S/C	XC	14,000							
66261014929										
3 x 1 x 3/8	S/C	XC	14,000	10					66261014914	
6 x 1/2 x 1	A/O	M	7,500	4						66261014931
6 x 1 x 1	A/O	M	5,000	2	66261014896					
	S/C	F	5,000		66261014888					



Deburring and Blending Unified Wheels CONTINUED

AVAILABILITY

TIER:

GOOD

TRADENAME:

**GENERAL DUTY
UNIFIED WHEELS**

SIZE (D X T X H)	ABRASIVE	GRIT	DENSITY	MAX. RPM	STD. PKG.	PART NO.
1 x 1 x 3/16	A/O	C	8	15,000	50	66261000938
2 x 1/4 x 1/4	A/O	C	8	11,000	60	66261052275
2 x 1/2 x 1/4	A/O	F	4	11,000	40	66261058764
3 x 1/4 x 1/4	A/O	C	8	8,000	40	66261052276
	A/O	F	4	8,000		66261058816
	S/C	F	4	8,000		66261000745
3 x 1/2 x 1/4	A/O	F	4	8,000	20	66261054046
	S/C	F	4	8,000		66261054048
3 x 3/4 x 1/4	A/O	F	4	8,000	20	66261058769
	S/C	M	4	8,000		66261058773
	S/C	F	4	8,000		66261058771
6 x 1/2 x 1/2	S/C	M	4	4,800	8	66261058779
6 x 1 x 1/2	S/C	M	4	4,800	4	66261058792
	S/C	F	4	4,800		66261058790
6 x 1 x 1	S/C	F	4	4,800	4	66261058797

Mandrels for Unified Wheels

FITS WHEEL CENTER HOLE	FOR WHEEL WIDTH	FOR WHEEL DIAMETER	SHANK DIAMETER	OVERALL LENGTH	WASHER DIAMETER	3M EQUIVALENT	STD. PKG.	PART NO.
MANDREL ASSEMBLIES FOR UNIFIED WHEELS AND DISCS ON EDGE								
1/8" - 3/16"	Up to 1/2"	Up to 2"	1/8"	1-3/4"	7/16"	931	1	66261009849
3/16"	1/8" - 1/2"	1" - 2"	1/4"	2"	7/16"	994	1	66261009852
1/4" - 5/16"	Up to 1/2"	Up to 2"	1/4"	2"	5/8"	932	1	66261015146
1/4" - 5/16"	Up to 1"	Up to 2"	1/4"	2-1/2"	5/8"	932	1	66261059422
	Up to 1"	2" - 3"	1/4"	2-1/2"	1"	933	1	66261059421
3/8"	Up to 1/2"	2" - 4"	1/4"	2-1/2"	1"	990	1	66261009851
1/2"	Up to 1"	3" - 6"	1/4"	3-1/8"	1-5/8"	934	1	66261009850

SHANK LENGTH	SHANK DIAMETER	FOR CENTER HOLE	USE WITH UNIFIED WHEEL	3M EQUIVALENT	STD. PKG.	PART NO.
THREADED MANDREL FOR UNIFIED WHEELS						
1-3/4"	1/4"	3/16	1 x 1 x 3/16	948	5	66261047584



MANDREL ASSEMBLY 66261059421 FOR UNIFIED WHEELS



MANDREL ASSEMBLY 66261059422 FOR UNIFIED WHEELS



THREADED MANDREL 66261047584 FOR UNIFIED WHEELS



Convolute Wheels

- Formed by wrapping and bonding web material impregnated with abrasive grain and resin around a center core. Convolute wheels offer a wide range of uses from burr removal to cleaning rust and oxides.
- Burr and flashing removal
- Surface roughness reduction
- Blending weld areas on stainless steel
- Blending scratch patterns
- Weld polishing
- Removing rust and oxides
- Applying decorative finishes including antique patterns

FEATURED PRODUCTS



SERIES 4000 CONVOLUTE WHEELS BEST CHOICE FOR HEAVY DEBURRING APPLICATIONS

FEATURES

- Advanced resin bond system
- High quality synthetic web

BENEFITS

- Free cutting
- Use both wet and dry
- Long life for heavy deburring, edge breaking and removing parting lines on exotic metals

AVAILABILITY

TIER: **BEST**

TRADENAME: **SERIES 4000 CONVOLUTE WHEELS**

SIZE (D X T X H)	ABRASIVE	GRIT	MAX. RPM	STD. PKG.	8 DENSITY PART NO.	9 DENSITY PART NO.
SERIES 4000 CONVOLUTE WHEELS						
6 x 1/2 x 1	S/C	F	6,000	4		66261004021
6 x 1 x 1	A/O	M	6,000	3	66261004208	66261004141
	S/C	F			66261004142	
8 x 1 x 3	A/O	M	4,500	3	66261004165	66261004135
	S/C	F			66261004123	
12 x 1 x 5	S/C	F	3,000	2	66261004284	66261004148
12 x 2 x 5	S/C	F	3,000	1		66261004011

TECHtip

- Convolute wheels must always run in the direction indicated by the arrow printed on the side of each wheel.
- Light to medium pressure is recommended. Excessive pressure may result in part damage.
- Lubricants such as water-soluble oil and straight oil will decrease the heat and improve the surface finish and lustre.



It is the user's responsibility to refer to and comply with all safety regulations.



Convolute Wheels CONTINUED



SERIES 1000 CONVOLUTE WHEELS

BETTER CHOICE FOR GENERAL DEBURRING, BLENDING, AND FINAL FINISHING

FEATURES	BENEFITS
• Smear and heat-resistant formula	• Consistent, high quality results
• Dense web construction (9 density)	• Starting point for deburring, blending, polishing and finishing applications
• More open web construction (7 density)	• Smear-proof and cool cutting on light deburring applications
• Waterproof	• Use dry, wet or with oil
• Non-metallic	• No contamination of workpiece
• Optimum grain/resin formulation	• Durable, long life construction with versatile application range and improved cut rate and shed resistance
• Conformable and flexible	• Less operator fatigue

AVAILABILITY

TIER: **BETTER**

TRADENAME: **SERIES 1000 CONVOLUTE WHEELS**

SIZE (D X T X H)	ABRASIVE	GRIT	MAX. RPM	STD. PKG.	7 DENSITY PART NO.	8 DENSITY PART NO.	9 DENSITY PART NO.		
SERIES 1000 LONG LIFE CONVOLUTE WHEELS									
6 x 1/2 x 1	A/O	M	6,000	4	66261018857	66261018789	66261018650		
	S/C	M					66261019540		
	S/C	F					66261018628	66261018629	
6 x 1 x 1	A/O	M	6,000	3	69957397884	66261018636	66261019337		
	S/C	M					69957397882	66261018630	
	S/C	F					66261018631	66261018774	66261018632
8 x 1 x 3	A/O	M	4,500	3	69957397885	66261018855	66261018633		
	S/C	M					69957394610	66261018673	66261018997
	S/C	F					66261018639	66261018640	66261018641
12 x 1 x 5	A/O	M	3,000	2	69957397887	66261018786	66261018896		
	S/C	M					66261018908		
	S/C	F					66261018626		



LIGHT FINISHING CONVOLUTE WHEELS

BEST CHOICE FOR LIGHT DEBURRING, POLISHING, AND FINE FINISHING APPLICATIONS

FEATURES	BENEFITS
• Controlled cut rate	• Prevents "over benching"
	• Deburrs and polishes without altering geometry
• Very conformable	• Operator friendly, reduces fatigue
• Superior form holding	• Consistent, reliable edge breaking and finishing with minimal wheel dressing and reshaping
	• Less dust and shedding with more uniform wear
• New resin bond system	• Substantial extended wheel life in a soft, conformable wheel
• Advanced manufacturing process	• Improved web forming and grain distribution produce consistent finish on intricate polishing applications

AVAILABILITY

TIER: **BEST**

TRADENAME: **LIGHT FINISHING CONVOLUTE WHEELS**

SIZE (D X T X H)	ABRASIVE	GRIT	MAX. RPM	STD. PKG.	6 DENSITY PART NO.	7 DENSITY PART NO.	8 DENSITY PART NO.
LIGHT FINISHING CONVOLUTE WHEELS							
6 x 1/2 x 1	S/C	F	6,000	4	66261092322	66261092324	66254421572
6 x 1 x 1	S/C	F	6,000	3	66254403708	66254403709	66254421573
8 x 1/2 x 3	S/C	F	4,500	4	66254403707	66254409698	66254421575
8 x 1 x 3	S/C	F	4,500	3	66261095702	66254409924	66254421577
12 x 1 x 5	S/C	F	3,000	3		66261092480	66254421574*

* 2 PER STANDARD PACKAGE



Convolute Wheels CONTINUED



METAL FINISHING CONVOLUTE WHEELS

BEST CHOICE FOR DECORATIVE FINISHING, BLENDING, AND FINAL FINISHING

FEATURES

- Premium, medium grit aluminum oxide grain
- Dense, very durable web
- Strongest resin binders
- Uniform grain dispersion and coating
- Available in 5 and 6 densities

BENEFITS

- Generates uniform distinct satin and antique finishes
- Can be used for blending applications
- Resilient, long life construction
- Clean and condition without gouging or changing dimensions of workpiece
- Ideal for blending and matching #3 and 4 mil. finishes, and surface prep for buffing, polishing and applying decorative finishes

AVAILABILITY

TIER: **BEST**
 TRADENAME: **METAL FINISHING CONVOLUTE WHEELS**

SIZE (D X T X H)	ABRASIVE	DENSITY	GRIT	MAX. RPM	STD. PKG.	PART NO.
METAL FINISHING CONVOLUTE WHEELS						
6 x 1 x 1	A/O	5	M	6,000	3	66261007936
		6	M			66261010148
6 x 2 x 1	A/O	5	M	6,000	2	66261007957
		6	M			66261009635
8 x 1 x 3	A/O	5	M	4,500	3	66261007831
8 x 2 x 3	A/O	5	M	4,500	2	66261007904
		6	M			66261012971
12 x 1 x 5	A/O	5	M	3,000	2	66261007434
		6	M			66261009481
12 x 2 x 5	A/O	5	M	3,000	1	66261007212
14 x 2 x 8	A/O	5	M	2,550	1	66261007817
		6	M			66261012041



CLEAN & FINISH CONVOLUTE WHEELS

BEST CHOICE FOR FINE FINISH WITH LIGHT PRESSURE

FEATURES

- Silicon carbide grain
- Open mesh construction

BENEFITS

- Good for blending, rust removal, applying decorative, contrast finishes and low- to moderate-speed applications
- Not used for deburring
- Used with light to moderate pressure, low speed

AVAILABILITY

TIER: **BEST**
 TRADENAME: **CLEAN & FINISH CONVOLUTE WHEELS**

SIZE (D X T X H)	ABRASIVE	GRIT	DENSITY	MAX. RPM	STD. PKG.	PART NO.
CLEAN & FINISH CONVOLUTE WHEELS						
4 x 1 x 1	S/C	M	4	4,000	10	66261058502
		F	4			66261058501
6 x 1 x 1	S/C	M	4	3,000	4	66261058507
		F	4			66261058506
6 x 2 x 1	S/C	M	4	3,000	2	66261058510
		F	4			66261058509
6 x 3 x 1	S/C	M	4	3,000	1	66261058512
6 x 4 x 1	S/C	M	4	3,000	1	66261058514
8 x 1 x 3	S/C	M	4	2,500	3	66261058518
8 x 2 x 3	S/C	M	4	2,500	2	66261058521
8 x 3 x 3	S/C	M	4	2,500	1	66261058524
8 x 4 x 3	S/C	M	4	2,500	1	66261058526



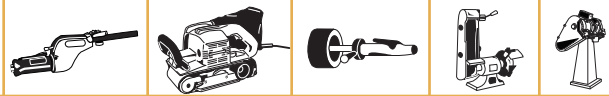
Aluminum Reducing Bushings for Flap and Convolute Wheels



- Durable, aluminum one-piece-design flanges with integrated “contact washer”
- Snug fit; extended usable life
- Available in stock and non-stock sizes: 3" up to 10" in many combinations of ID hole reduction

<i>WHEEL CENTER HOLE</i>	<i>BUSHING REDUCES HOLE SIZE TO</i>	<i>FOR WHEEL DIAMETER</i>	<i>STD. PKG.</i>	<i>PART NO.</i>
ALUMINUM REDUCING BUSHING FOR FLAP AND CONVOLUTE WHEELS				
1	3/8	4 - 6	1 Pair	66261080522
	1/2			66261080523
	5/8			66261080524
	3/4			66261080525
	7/8			66261080526
2	1/2	6	1 Pair	66261080527
	5/8			66261080528
	1			66261080529
	1-1/4			66261080530
3	1	8	1 Pair	66261080531
	1-1/4			66261080532
	1-1/2			66261080383
	1-3/4			66261080384
	2			66261080514
5	1	10 and 12	1 Pair	66261080533
	1-1/4			66261080534
	3			66261080535
8	1-1/4	14	1 Pair	66261080536
	3			66261080512
10	1-1/4	16	1 Pair	66261080520





CATEGORY DEFINITION

Norton non-woven belts are a combination of strong synthetic mesh and quality abrasive, bonded together by a smear-resistant adhesive. The open construction of non-woven material enables aggressive cutting action and improved surface finish while maintaining its non-loading feature.

The belts are color-coded by grit size for easy identification. Choose Coarse for deburring, Medium for cleaning/blending, and Very Fine for finishing.

APPLICATIONS: Removing surface defects, light edge burrs, parting lines, flashing, rust, oxides, corrosion, paints, and scale; blending mill marks, tool marks, uneven edges, and applying decorative finishes.

ABRASIVE GRAIN: Aluminum Oxide

GRIT RANGE: Coarse (Brown), Medium (Maroon), Very Fine (Blue)

FEATURED PRODUCTS



NORTON STE-VS BETTER CHOICE FOR FINISHING AND BLENDED APPLICATIONS

FEATURES

- Slightly open structure
- High abrasive content
- Firm backing

BENEFITS

- Resists loading
- Continuous cut rate on soft (e.g. aluminum) and hard materials (e.g. steels and nickel alloys)
- Low stretch



NORTON STE GOOD CHOICE FOR CLEANING, POLISHING AND OTHER LOW FORCE APPLICATIONS

FEATURES

- Open structure
- Flexible backing

BENEFITS

- Resists loading on softer materials (aluminum, gaskets, etc.)
- Conformable

AVAILABILITY



TIER:

TRADENAME:

ABRASIVE:

BETTER

GOOD

STE-VS

STE

Aluminum Oxide

Aluminum Oxide

SIZE (D X H)	GRIT SIZE	STD. PKG.	PART NO.	PART NO.
FILE BELTS 1/2 x 18	Coarse	24	66261009048	66261055309
	Medium		66261008814	66261055310
	Very Fine		66261006762	66261055311
1/2 x 24	Coarse	24	66261008972	66261055312
	Medium			66261055313
	Very Fine			66261055314
3/4 x 18	Coarse	24	66261008813*	08834194006
	Medium		66261006546*	08834194007
	Very Fine			08834194008
3/4 x 20-1/2	Coarse	24		08834194009
	Medium			08834194010
	Very Fine			08834194011

*12 PER STANDARD PACKAGE





AVAILABILITY



TIER:

TRADENAME:

ABRASIVE:

BETTER

GOOD

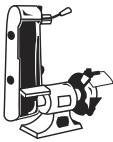
STE-VS

STE

Aluminum Oxide

Aluminum Oxide

SIZE (D X H)	GRIT SIZE	STD. PKG.	PART NO.	PART NO.
IN-LINE BELTS				
3-1/2 x 15-1/2	Coarse	8	08834199009	66261055324
	Medium		08834198042	66261055325
	Very Fine			66261055326
PORTABLE BELTS				
3 x 24	Coarse	12		08834194036
	Medium			08834194037
	Fine			08834194038
4 x 24	Coarse	12		08834194045
	Medium			08834194046
	Very Fine			08834194047
BENCHSTAND BELTS				
1 x 42	Coarse	12		08834194012
	Medium			08834194013
	Very Fine			08834194014
2 x 48	Coarse	12		08834194015
	Medium			08834194016
	Very Fine			08834194017
2 x 60	Coarse	12	08834199006	08834194018
	Medium		08834198039	08834194019
	Very Fine			08834194020
2 x 72	Coarse	12		08834194021
	Medium			08834194022
	Very Fine			08834194023
2-1/2 x 60	Coarse	12		08834194030
	Medium			08834194031
	Very Fine			08834194032
4 x 36	Coarse	12		08834194048
	Medium			08834194049
	Very Fine			08834194050
4 x 54	Coarse	12		08834194051
	Medium			08834194052
	Very Fine			08834194053
6 x 48	Coarse	4		66261055330
	Medium			66261055331
	Very Fine			66261055332
BACKSTAND BELTS				
2 x 132	Coarse	6	66261017512	08834194024
	Medium		66261008492	08834194025
	Very Fine			08834194026
3 x 132	Coarse	6		08834194039
	Medium			08834194040
	Very Fine			08834194041
4 x 132	Coarse	6		08834194054
	Medium			08834194055
	Very Fine			08834194056



If you do not see the STE and STE-VS belts you need in our stock offering, call your local Norton distributor to check for made-to-order availability.



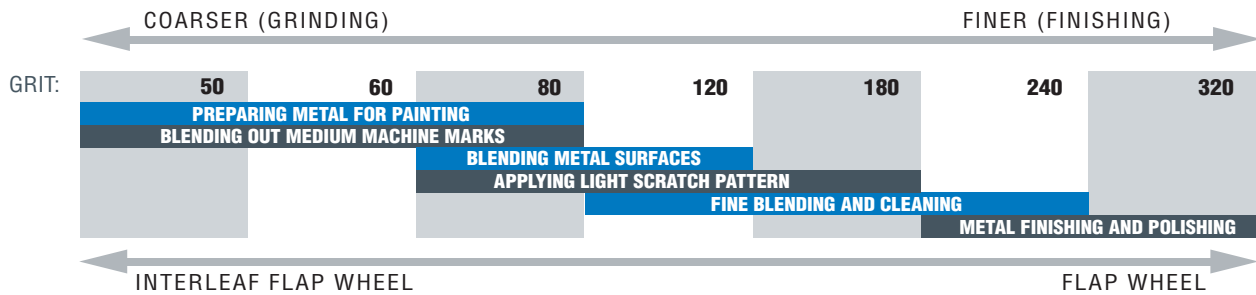
CATEGORY DEFINITION

Non-woven surface finishing flap wheels are an ideal choice for a wide variety of blending and finishing applications common in the metal fabrication, welding and polishing industries. Flap wheels are conformable to intricate shapes and contours. Designed to deliver a consistent finish with a uniform rate of cut, flap wheels wear away continually exposing fresh abrasives.

There are two types of non woven flap wheels: non-woven only abrasive flaps where finishing is the primary application, and interleaf with alternating cloth and non-woven abrasive flaps (less conformable, more aggressive) for stock removal and finishing. Interleaf flap wheels must always be run in the direction indicated by the arrow.

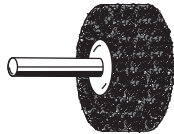
- APPLICATIONS: Used for a wide range of metal fabrication and welding applications including blending, deburring, cleaning, finishing, and polishing
- SIZE RANGE: Flap wheels with mounted steel shanks: 2" – 3" diameter
Flap wheels with arbor holes: 3" – 12" diameter
- GRIT RANGE: 50 – 320
- ABRASIVE GRAIN: Aluminum Oxide, Silicon Carbide

APPLICATION/GRIT RECOMMENDATION GUIDE



1/4" Mounted Steel Shanks

AVAILABILITY



TIER:

BRAND:

TRADENAME:

BETTER	GOOD	BETTER	GOOD
Norton	Merit	Norton	Merit
INTERLEAF	INTERLEAF	NON-WOVEN	NON-WOVEN

SIZE (D X W X SK.)	MAX. RPM	ABRASIVE	CA GRIT	NON-WOVEN GRIT	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
2 x 1 x 1/4	12,000	A/O	60	Coarse	10	66261051720*	08834138122		
		A/O	80	Medium		66261051721*	08834138123		
		A/O	120	Medium		66261051722*	08834144457	66261051716*	66261189992*
		A/O	180	Fine			08834144458		
		A/O	320	Very Fine			08834144459	66261051717*	69957399202*
2 x 1-1/2 x 1/4	12,000	A/O	60	Coarse	10		08834138124		
		A/O	80	Medium			08834138125		
		A/O	120	Medium			08834138126		
		A/O	180	Fine			08834138127		
		A/O	320	Very Fine			08834138128		
3 x 1 x 1/4	12,000	A/O	60	Coarse	10		08834138129		
		A/O	80	Medium			08834138130		
		A/O	120	Medium		66261051725*	08834138118	66261051718*	08834131921
		A/O	180	Fine			08834138120		
		A/O	–	Very Fine				66261051719*	66261189993
3 x 1-3/4 x 1/4	12,000	A/O	–	Medium	10				66261026075
		A/O	–	Very Fine					66261189994
3 x 2 x 1/4	8,000	A/O	60	Grit	10		08834131338		
		A/O	80	Coarse			08834138116		
		A/O	120	Medium			08834144460	66261058474	
		A/O	180	Medium			08834144461		
4 x 2 x 1/4	12,000	A/O	80	Coarse	10		08834121115		
		A/O	120	Medium			08834120458		

*STANDARD PACKAGE QUANTITY = 20



Arbor Hole Mounts

AVAILABILITY



TIER:

BRAND:

TRADENAME:



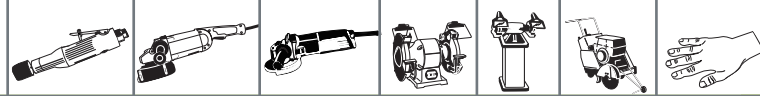
SIZE (D X W X H)	MAX. RPM	ABRASIVE	CA GRIT	NON-WOVEN GRIT	STD. PKG.	INTERLEAF		NON-WOVEN	
						PART NO.	PART NO.	PART NO.	PART NO.
3 x 2 x 3/8	12,000	A/O	50	Coarse	10				
		A/O	60	Coarse					
		A/O	80	Medium					
		A/O	120	Medium					
		A/O	180	Fine					
		A/O	240	Very Fine					
		A/O	320	Very Fine					
4 x 2 x 5/8	12,000	A/O	50	Coarse	10				
		A/O	60	Coarse					
		A/O	80	Medium					
		A/O	120	Medium					
		A/O	180	Fine					
		A/O	240	Very Fine					
		A/O	320	Very Fine					
6 x 1 x 1	6,000	A/O	50	Coarse	10				
		A/O	60	Coarse					
		A/O	80	Medium					
		A/O	120	Medium					
		A/O	150	Medium					
		A/O	180	Fine					
		A/O	240	Very Fine					
A/O	320	Very Fine							
6 x 1 x 2	3,000	A/O	80	Medium	4	66261004418 66261007678 66261005387		66261058456 66261058487 66261058451 66261058450	05539512667 05539562635 05539512660 05539512658
		A/O	120	Medium					
		A/O	180	Fine					
		S/C	-	Fine					
S/C	-	Very Fine							
6 x 2 x 1	6,000	A/O	50	Coarse	10				
		A/O	60	Coarse					
		A/O	80	Medium					
		A/O	120	Medium					
		A/O	150	Medium					
		A/O	180	Fine					
		A/O	240	Very Fine					
A/O	320	Very Fine							
6 x 3 x 1	6,000	A/O	50	Coarse	6				
		A/O	60	Coarse					
		A/O	80	Medium					
		A/O	120	Medium					
		A/O	180	Fine					
		A/O	240	Very Fine					
		A/O	320	Very Fine					
8 x 1 x 3	2,500	A/O	120	Medium	3	66261010711		66261058491	05539527460
		-	-	Fine					
8 x 2 x 1	4,500	A/O	60	Coarse	6				
		A/O	80	Medium					
		A/O	120	Medium					
		A/O	180	Fine					
8 x 2 x 3	2,500	A/O	-	Medium	2			66261000889 66261058493	05539512677 05539526627
		A/O	-	Medium					
		A/O	-	Fine					
8 x 3 x 1	4,500	A/O	50	Coarse	3				
		A/O	60	Coarse					
		A/O	80	Medium					
		A/O	120	Medium					
		A/O	180	Fine					
		A/O	320	Very Fine					
12 x 1 x 5	1,900	A/O	80	Medium	2	66261010712 66261004667			
		A/O	120	Medium					
12 x 2 x 5	1,900	A/O	-	Medium	1			66261005070	05539528945 05539562637
		A/O	-	High Strength					

Refer to Non-Woven Convolute Wheel section for Flap Wheel Reducing Bushings.





MERIT



CATEGORY DEFINITION

Our broad Merit wire brush offering includes all the basic shapes and configurations: cups, saucer cups, wheel end brushes and hand brushes. Attractive packaging clearly explains dimensions, structure, safety and machine usage. All brushes are individually clamshell packaged unless otherwise noted. When using wire brushes, be sure to comply with ANSI B165 "Power-Driven Brushing Tools: Safety Requirement for the Design, Care and Use." and safety documents on www.nortonabrasives.com website.

APPLICATIONS: Cleaning rust, scale and dirt; light deburring; edge blending; roughening for adhesion; finishing for appearance; finish preparation prior to plating or painting

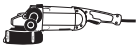
SHAPES: Cup, saucer cup, wheel, end brush, hand brush

WIRE DESIGN: Standard and full cable twist knot, crimped, stringer bead

OTHER: Color-coded for easy identification; **STAINLESS** **STEEL/METAL**



FEATURED PRODUCTS AND AVAILABILITY



BETTER WIRE SAUCER CUP BRUSHES

IDEAL FOR CLEANING CORNERS, RECESSES, AND OTHER HARD-TO-REACH AREAS – FOR STEEL/STAINLESS

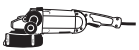
FEATURES

- Twist knot style
- Crimped style

BENEFITS

- For heavy-duty cleaning
- For light- to medium-duty cleaning

DIAMETER X WIRE THICKNESS X MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART NO.
TWIST KNOT SAUCER CUP				
4 x .020 x 5/8-11	15,000	5	Carbon	66252833483
5 x .020 x 5/8-11	12,500	5	Carbon	66252833585
5 x .020 x 5/8-11	12,500	5	Stainless	66252833586
CRIMPED SAUCER CUP				
4 x .014 x 5/8-11	15,000	5	Carbon	66252833485



BETTER HIGH PERFORMANCE (HP) CABLE CRIMPED CUP BRUSHES

FOR LIGHT- TO MEDIUM-DUTY BRUSHING APPLICATIONS ON FLAT OR IRREGULAR SURFACES, AND BEVEL BUFFING – FOR STEEL

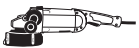
FEATURES

- 12 wires of .009" brass-coated steel are bundled together into a group, then crimped
- Cable crimped wire breaks down in smaller pieces than standard crimped brushes

BENEFITS

- Creates a 50% longer lasting brush compared to standard crimped brushes; better flexibility on irregular surfaces
- Safer wire to use
- Protective guard

DIAMETER X WIRE THICKNESS X MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART NO.
CRIMPED CUP WITH PROTECTIVE GUARD – SINGLE ROW				
3 x (12 x .009) x 5/8-11	15,000	5	Carbon	66252833493
4 x (12 x .009) x 5/8-11	9,000	5	Carbon	66252833494
5 x (12 x .009) x 5/8-11	6,500	5	Carbon	66252833495



BETTER CRIMPED WIRE CUP BRUSHES

FOR LIGHT- TO MEDIUM-DUTY BRUSHING APPLICATIONS ON FLAT OR IRREGULAR SURFACES, AND BEVEL BUFFING – FOR STEEL

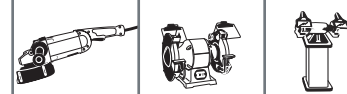
FEATURES

- Highly flexible heavy wire fill

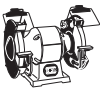
BENEFITS

- Fast cutting

DIAMETER X WIRE THICKNESS X MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART NO.
3 x .014 x 5/8-11	15,000	5	Carbon	69936653341
4 x .014 x 5/8-11	9,000	5	Carbon	69936653347
6 x .014 x 5/8-11	6,000	5	Carbon	69936653348
6 x .020 x 5/8-11	6,000	5	Carbon	69936653349



FEATURED PRODUCTS AND AVAILABILITY



BETTER TWIST KNOT WIRE CUP BRUSHES

HIGH IMPACT CUTTING AND CLEANING ON MORE DEMANDING APPLICATIONS – FOR STEEL/STAINLESS

FEATURES

- Rigid structure
- Available with or without plastic guard
- Protective guard opens up into a shield
- Single row, twist knot construction
- Double row, twist knot construction

BENEFITS

- High impact cutting and cleaning on more demanding applications
- Application-specific
- Prevents wire, dust and/or projection from reaching the end-user
- Provides for a friendly handling of the brush, preventing potential pricking caused by the wire ends
- Limits flaring of the brush on corners and angles
- More aggressive; provides twice the cutting points of a single row cup brush for heavy-duty action in very severe applications

DIAMETER X WIRE THICKNESS X MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART NO.
KNOTTED CUP WITH PROTECTIVE GUARD – SINGLE ROW				
2-3/4 x .020 x 5/8-11	15,000	5	Carbon	66252833492
4 x .020 x 5/8-11	9,000	5	Carbon	66252833496
5 x .020 x 5/8-11	6,500	5	Carbon	66252833497
KNOTTED CUP – SINGLE ROW				
2-3/4 x .020 x 5/8-11	15,000	5	Carbon	69936653336
2-3/4 x .020 x 5/8-11	15,000	5	Stainless	69936653340
2-3/4 x .020 x M10-1.25 / 1.50	15,000	5	Carbon	69936653338
4 x .020 x 5/8-11	9,000	5	Carbon	69936653345
4 x .020 x 5/8-11 with bridle	9,000	5	Stainless	66252833947
6 x .020 x 5/8-11	6,000	5	Carbon	69936605965
6 x .035 x 5/8-11	6,000	5	Carbon	69936602003
KNOTTED CUP – DOUBLE ROW				
6 x .020 x 5/8-11	6,000	5	Carbon	69936653346

BETTER CRIMPED WIRE WHEEL BRUSHES

EXCELLENT PERFORMANCE FOR DEBURRING, REMOVING RUST, CORROSION AND DIRT – FOR STEEL

FEATURES

- Brushes may be used individually or stacked on a shaft

BENEFITS

- Single-section, narrow-faced brushes are ideal for general-purpose brushing of uneven or difficult-to-reach surfaces
- Single section, medium-faced brushes clean larger surface areas and have longer life

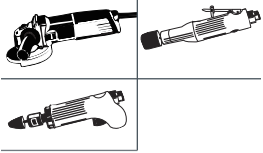
DIAMETER X WIRE THICKNESS X HOLE SIZE	MAX. RPM	STD. PKG.	APPLICATION	PART NO.
CRIMPED NARROW 3/4" FACE				
6 x .014 x 1/2-2**	6,500	5	Carbon	69936653306
CRIMPED MEDIUM 1" FACE				
6 x .014 x 1/2-2**	6,500	5	Carbon	69936653324
8 x .014 x 1/2-2**	4,500	5	Carbon	69936653326

** 7 BUSHING SIZES INCLUDED WITH EACH BRUSH (FIT 1/2" - 2")

- STAINLESS
- STEEL/METAL



FEATURED PRODUCTS AND AVAILABILITY



BETTER STANDARD TWIST KNOT WIRE WHEEL BRUSHES

IDEAL FOR WELDING AND METAL FABRICATION APPLICATIONS (REMOVING WELD SCALE SPATTER, EXTRA-HEAVY RUST AND CORROSION, OR SURFACE ROUGHENING) – FOR STEEL

FEATURES

- Twist knot wire design

BENEFITS

- Provides added rigidity for extra cutting power
- Small diameter wheels are used for small- to medium-duty jobs requiring flexibility and lighter brushing action

DIAMETER X WIRE THICKNESS X MOUNT/HOLE	MAX. RPM	STD. PKG.	APPLICATION	PART NO.
3 x .015 x 3/8-1/2	20,000	5	Carbon	69936653314
4-1/2 x .020 x 5/8-11	20,000	5	Carbon	69936606275



BETTER FULL CABLE TWIST KNOT WIRE WHEEL BRUSHES

FOR THE TOUGHER APPLICATIONS, ESPECIALLY FOR WELD PASSES – FOR STEEL/STAINLESS

FEATURES

- Full cable twist brushes
- NEW! Pipeline: heavy-duty knot construction

BENEFITS

- Provide very low flex and high impact cutting and cleaning
- Stiffer, longer-lasting knots for tougher applications / heavy build-up

DIAMETER X WIRE THICKNESS X MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART NO.
4 x .020 x 5/8-11	20,000	5	Carbon	66252838300
4-1/2 x .020 x 5/8-11	20,000	6*	Carbon Pipeline	66252840466
4-1/2 x .020 x M10 x 1.25 / 1.50	20,000	5	Stainless	69936653334
4-1/2 x .020 x 5/8-11	20,000	6*	Carbon	69936653331
4-1/2 x .020 x 5/8-11	20,000	5	Stainless	69936653333
5 x .020 x 5/8-11	12,500	5	Carbon	66252833487
5 x .020 x 5/8-11	12,500	5	Stainless	66252833488
6 x .020 x 5/8-11	12,500	5	Carbon	69936653352
6 x .020 x 5/8-1/2	12,500	5	Carbon	69936653327

*BULK PACKED ITEMS



BETTER STRINGER BEAD KNOT WIRE WHEEL BRUSHES

DELIVER HIGH-IMPACT CUTTING AND CLEANING FOR TOUGHEST APPLICATIONS – FOR STEEL/STAINLESS

FEATURES

- Stringer bead wire for hard-to-reach areas
- Joint/Crack cleaning wire wheel brushes

BENEFITS

- Specially suited for groove and weld bead, corners, and t-connections
- Used for brushing joints, cleaning cracks in concrete and asphalt, and preparing expansion joints for filling and scaling
- NEW! Pipeline: longest life for brushing/cleaning joints and preparing expansion joints for filling and scaling

DIAMETER X WIRE THICKNESS X MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART NO.
FOR RIGHT ANGLE GRINDERS				
4 x .020 x 5/8-11	20,000	5	Carbon	69936606277
4 x .020 x 5/8-11	20,000	6*	Carbon	66252833489
4 x .020 x 5/8-11	20,000	6*	Carbon Pipeline	66252840467
4 x .020 x 5/8-11	20,000	5	Stainless	69936606278
5 x .020 x 5/8-11	12,500	6*	Carbon	66252833490
5 x .020 x 5/8-11	12,500	6*	Stainless	66252833491
6 x .020 x 5/8-11	12,500	10*	Carbon	69936653350
6 x .020 x 5/8-11	12,500	10*	Carbon Pipeline	66252840469
6 x .020 x 5/8-11	12,500	5	Stainless	69936653351
6-7/8 x .020 x 5/8-11	9,000	10*	Carbon	69936653329
6-7/8 x .020 x 5/8-11	9,000	10*	Carbon Pipeline	66252840468
9 x .020 x 5/8-11	6,000	2	Carbon	66252837993

FOR WALK-BEHIND MACHINES – JOINT/CRACK CLEANING BRUSHES

12 x .035 x 1 - DP	4,500	2*	Carbon	69936606280
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*BULK PACKED ITEMS





FEATURED PRODUCTS AND AVAILABILITY



BETTER END BRUSHES

CLEAN AND DEBURR A RECESSED AREA OR THE INSIDE DIAMETER OF A TUBE OR PIPE – FOR STEEL/STAINLESS

FEATURES

- Twist knot wire end brushes
- Crimped wire end brushes

BENEFITS

- For more aggressive cutting
- For lighter brushing action and contoured surfaces

DIAMETER X WIRE THICKNESS X MOUNT	MAX. RPM	STD. PKG.	APPLICATION	PART NO.
STEM MOUNTED KNOTTED				
3/4 x .020 x 1/4 Shank	20,000	10*	Carbon	69936653316
1 x .014 x 1/4 Shank	20,000	10*	Carbon	69936606279
1 x .020 x 1/4 Shank	20,000	10*	Carbon	69936653310
STEM MOUNTED CRIMPED				
3/4 x .006 x 1/4 Shank	20,000	10*	Stainless	69936606145
3/4 x .014 x 1/4 Shank	20,000	10*	Carbon	69936653317
1 x .020 x 1/4 Shank	20,000	10*	Carbon	69936653309
COPPER CENTER				
2-1/2 x .014 x 1/2-3/8	20,000	12*	Carbon	69936653320

*BULK PACKED ITEMS



BETTER HAND BRUSHES

FOR STEEL/STAINLESS

FEATURES

- Plastic handle scratch brush
- Long handle and shoe handle brushes

BENEFITS

- Ergonomic handle
- Crimped wire for longer life
- Wires are wrapped up and around the metal post so they never come out
- Curved face for hard-to-reach places
- Narrow brush allows access into tight areas and slots
- Steel scratch brushes are made with a high-carbon, brass-coated steel; stainless steel is made with a 304L stainless

SIZE	STD. PKG.	APPLICATION	PART NO.
Scratch Brush 3 x 19 Long Handle	12	Carbon	66252833948
Scratch Brush 3 x 19 Long Handle	12	Stainless	66252833950
Scratch Brush 4 x 16 Shoe Handle	24	Carbon	66252833949
Scratch Brush 4 x 16 Shoe Handle	24	Stainless	66252833951
Scratch Brush Plastic Handle	24	Carbon	66252833954
Scratch Brush Plastic Handle	24	Stainless	66252833953
Inspection Brush 3 x 7	36	Stainless	66252833952

STAINLESS
STEEL/METAL



Micro-Fiber Cloths

- A micro-fiber is a single fiber with a thickness less than a human hair that has been split 16 times and woven into various products.
- The surface area of a micro-fiber product is increased over 15 times, creating millions of spaces between the fibers which trap dirt, grime or liquids, making this product one of the most absorbent materials.
- Use these micro-fiber cloths dry for general cleaning.
- To remove spills, stains or grime, lightly dampen the cloth for best results.
- All micro-fiber cloths can be used with or without chemicals.
- Micro-fiber cloths can be washed up to 300+ times without losing cleaning and trapping abilities.
- Clean often for best results.
- They save you labor, time, and additional costs of multiple cleaning products and chemicals.

DESCRIPTION	COLOR	STD. PKG.	PART NO.
MICRO-FIBER CLEANING CLOTH (BLUE)			
Used for general-purpose wet or dry applications. Works best when sprayed with a light water mist to deep clean.			
16" x 16" Cleaning Cloth	Blue	20	07660705300
MICRO-FIBER DRY TACK CLOTH (RED)			
This woven terry cloth has a low profile to resist snagging and help pick up embedded debris. It is used in dry tack applications.			
16" x 16" Dry Tack Cloth	Red	20	07660704025
MICRO-FIBER POLISHING CLOTH (YELLOW)			
Streak-free cleaning of mirrors, optical lens and highly-polished items.			
16" x 16" Polishing Cloth	Yellow	20	07660705301



Black Lambswool Polishing Pads

- Designed to repair clearcoat finishes, these pads are 100% natural lambswool which has the densest pile of any material.
- They are well-balanced and more durable than conventional pads.
- Fibers can be compressed and still recover their natural shape.
- Because of the denser pile surface, these pads distribute and apply material evenly and consistently.
- Available in 3" – 5" diameters with a 3/4" nap to attach to a hook and loop back-up pad.

DESCRIPTION	STD. PKG.	PART NO.
BLACK LAMBSWOOL POLISHING PADS		
3" Pad with Loop – 3/4" nap	500	63642503670
4" Pad with Loop – 3/4" nap	250	63642503671



Norton Professional High Heat Tape

Designed for maximum performance and clean release on multiple surfaces. These high quality masking tapes are ideal for conditions that include exposure to the high heat curing temperatures found in automobile, truck, bus and other transportation assembly operations, as well as aerospace manufacturing applications where a conformable, clean release masking tape is required. Available in bulk, accordion-wrapped for protection and work site stocking.

PART #	SIZE	STD. PKG.
NORTON PROFESSIONAL HIGH HEAT TAPE		
07660721948	3/4" x 60 yards	48
07660721949	1" x 60 yards	36
07660721950	1-1/2" x 60 yards	24
07660721951	2" x 60 yards	24

PACKED IN SLEEVES, WITH 4 SLEEVES TO A CASE



Norton Contractor Grade Tape

A general-purpose masking tape that offers both economy and versatility for a variety of materials and applications. Norton Contractor Grade masking tape provides a clean release up to 3 days. Use for general paint masking, hanging protective plastic, holding drop cloths in place and other general-purpose masking, bundling, and sealing jobs where the tape will be removed when the job is complete. Not intended for critical paint applications. Limit exposure to UV light for extended periods. Extended exposure to UV light could result in difficult removal from the surface.

PART #	SIZE	STD. PKG.
NORTON CONTRACTOR GRADE TAPE		
07660721944	3/4" x 60 yards	48
07660721945	1" x 60 yards	36
07660721946	1-1/2" x 60 yards	24
07660721947	2" x 60 yards	24

BULK PACKED AS INDIVIDUAL ROLLS



Norton Blue Core Tape

Our premium paint masking tape has a specially formulated adhesive system that provides optimum low- to medium-tack adhesion and clean removal from a variety of surfaces, for up to 14 days. Norton Blue Core masking tape can be used indoors or out. The crepe paper backing is designed to enable easy unrolling and to minimize slivering. It delivers very sharp, clean edges on smooth- to moderately-textured surfaces.

PART #	SIZE	STD. PKG.
NORTON BLUE CORE TAPE		
07660721952	3/4" x 60 yards	48
07660721953	1" x 60 yards	36
07660721954	1-1/2" x 60 yards	24
07660721955	2" x 60 yards	24

BULK PACKED AS INDIVIDUAL ROLLS

Coated Abrasive Grit Comparison Chart

AVERAGE PARTICLE SIZE IN MICRONS	GRADING SYSTEMS (OTHER THAN EMERY)			EMERY PRODUCTS
	CAMI	FEPA	JIS	
5.0	-	-	-	-
6.0	-	-	3000	-
6.5	1200	-	2500	4/0
8.4	-	P2500	-	-
8.5	-	-	2000	-
9.2	1000	-	-	3/0
10.3	-	P2000	-	-
10.5	-	-	1500	-
12.2	800	-	1200	-
12.6	-	P1500	-	-
15.0	-	-	-	-
15.3	-	P1200	1000	-
16.0	600	-	-	2/0
18.3	-	P1000	800	-
19.7	500	-	-	0
20.0	-	-	-	-
21.8	-	P800	-	-
23.6	400	-	600	-
25.0	-	-	-	-
25.75	-	P600	-	-
28.8	360	-	500	-
30.0	-	P500	-	-
35.0	-	P400	400	-
36.0	320	-	-	-
40.0	-	-	360	-
40.5	-	P360	-	-
44.0	280	-	-	1
45.0	-	-	-	-
46.2	-	P320	320	-
50.0	-	-	-	-
52.5	-	P280	280	-
53.5	240	-	-	-
55.0	-	-	-	-
58.5	-	P240	-	-
60.0	-	-	240	-
64.0	-	-	-	2
65.0	-	P220	220	-
66.0	220	-	-	-
78.0	180	P180	180	-
79.0	-	-	-	3
93.0	150	-	150	-
95.0	-	-	-	FINE
97.0	-	P150	-	-
116.0	120	-	120	-
127.0	-	P120	100	-
136.0	-	-	-	MEDIUM
141.0	100	-	-	-
156.0	-	P100	-	-
189.0	-	-	-	COARSE
192.0	80	-	80	-
197.0	-	P80	-	-
260.0	-	P60	-	-
268.0	60	-	60	-
326.0	-	P50	50	-
341.0	-	-	-	EX. COARSE
351.0	50	-	-	-
412.0	-	P40	40	-
428.0	40	-	-	-
524.0	-	P36	-	-
535.0	36	-	36	-
622.0	-	P30	-	-
638.0	30	-	30	-
715.0	24	-	-	-
740.0	-	P24	24	-
905.0	20	-	-	-
984.0	-	P20	20	-
1320.0	16	-	16	-
1324.0	-	P16	-	-
1764.0	-	P12	-	-
1842.0	12	-	-	-

Backing Types

Backings are the base for the abrasive minerals and, combined with the adhesive bond, support and anchor the abrasive mineral. The backings used in the manufacture of coated abrasives are:

Paper

Due to the fine surface of paper, a consistent finish is produced. Paper weights include *A, B, C, D, E* and *F* weights with *A* being the lightest and most flexible and *F* being the heaviest and least flexible. *A, B, C* and *D* weight papers are used for hand sanding and light mechanical operations in the form of sheets, PSA (pressure sensitive adhesive) and hook and loop discs and sheet rolls. *E* and *F* weight papers are primarily used for more aggressive mechanical operations in the form of belts and discs.

Cloth

Cloth backings used for coated abrasives are identified by weight. Cloth backings are filled or "finished" with a variety of materials (glues or resins) to create various backing characteristics, most notably flexibility. Several cloth types are used: cotton, polyester, polyester/nylon and polyester/cotton blends, and rayon.

There are three basic weights of cloth: J-weight or "jeans" is the lightest and most flexible. X-weight or "drills" is a heavier cloth that ranges in flexibility, strength and durability and is used on the broadest range of applications. Y-weight is a heavyweight drills cloth used on heavy-duty, high stock removal operations.

Fiber

Vulcanized fiber (cotton fibers which are chemically treated and then pressed under temperature and pressure to form a very durable backing) is used exclusively as the backing for resin fiber discs.

Film

Polyester film backing comes in 3 mil. and 5 mil. thicknesses, which have high strength and surface smoothness. They are used primarily in disc and roll applications requiring consistent surface finish.

Bond Types

An adhesive bond system is required to secure the abrasive mineral to the backing. All coated abrasive products are made with a two stage bonding process, the *make coat* and the *size coat*.

The *make coat* is the first layer of bond applied to the backing. The *make coat* provides the adhesive base between the abrasive mineral and the backing.

The *size coat* is the second coat, which is applied over the abrasive mineral and *make coat* to anchor the abrasive mineral and provide the desired physical strength of the finished product.

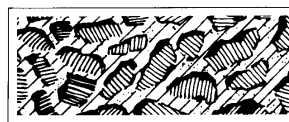
Glue, urea resin, and phenolic resin are the three basic bonding agents most commonly used. There are many size coat and make coat combinations, such as *glue over glue, urea over glue, and resin over resin*. *Glue over glue* is the most flexible bond while *resin over resin bond* is moisture-resistant, harder, less flexible, heat-resistant and has superior grain retention.

Coating Types

There are two types of abrasive coatings used in the manufacturing of coated abrasives: *open coat* and *closed coat*.

Open Coat

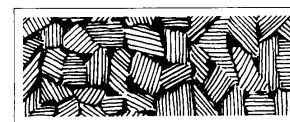
With an open coat, 50% to 75% of the surface is covered by abrasive grain. There are evenly spaced voids between the particles of grain, helping reduce the effect of loading caused by wood dust or metal particles.



OPEN COAT
(1/3 LESS GRAIN THAN CLOSED)

Closed Coat

With a closed coat, the entire surface is covered with abrasive grain, with no voids between the particles. This is the most typical coating, permitting the greatest degree of stock removal and longest product life.



CLOSED COAT

How to Read an Abrasive Product Specification

Conventional Grinding Wheels												
32A 46 I 8 V BE												
ABRASIVE		GRIT SIZE			GRADE			STRUCTURE	BOND TYPE	NORTON SYMBOL		
ALUMINUM OXIDE	CERAMIC ALUMINUM OXIDE	SILICON CARBIDE	ZIRCONIA ALUMINA	COARSE	MEDIUM	FINE	SOFT	MEDIUM	HARD	RELATIVE GRAIN SPACING	Resin = B Shellac = E Plastic = P Rubber = R Vitrified = V	Designates a variation or modification to bond.
23A		37C	4NZ	12	30	80	D	I	Q	DENSE		
25A	3SGP	39C	4ZF	14	36	90	E	J	R			
32A	3SGR	Crystolon	5ZF	16	46	100	F	K	S			
32AC (blend)	5SG		AZ (blend)	20	54	120	G	L	T			
38A	BRG		Charger	24	60	150	H	M	U			
48A	SG		(blend)		70	220		N	V			
53A	SXG		NZ					O	Y			
55A	NorZon Plus		NZC (blend)					P	Z			
57A	(blend)		NZIII									
U57A	NQ Quantum		NZIV									
64A			NorZon									
86A												
90A												
FabCut												
Gemini												
Alundum												

Coated Abrasives			
R 9 8 1			
BACKING / BOND	PRINCIPAL ABRASIVE	COATING	RANDOM
A = Lightweight Paper (A-D wts.) excluding Waterproof	1 = Aluminum Oxide	1 = Openkote	Designates different products within the same product group.
F = Fiber	2 = Aluminum Oxide	2 = Closekote	
H = Heavy Paper / Resin Bond (E and F wts.)	3 = Layered Aluminum Oxide	3 = Openkote	
K = Cloth / Glue Bond (J and X wts.)	4 = Silicon Carbide	4 = Closekote	
Q = Various (e.g. Screen-Bak and Film)	5 = Garnet	5 = Openkote	
R = Cloth / Resin Bond (H, J, X and Y wts.)	6 = Crocus & Emery	6 = Closekote	
T = Waterproof Paper (A, C wts.)	8 = Zirconia Alumina	7 = Openkote	
U = Lightweight Waterproof Paper / Resin Bond	9 = Norton SG - Ceramic Aluminum Oxide	8 = Closekote	
		9 = Openkote	
		0 = Closekote	

Product Warranty

WARRANTY – Norton warrants the products in this catalog to be free from defects in material or workmanship for a period of one year from the date of purchase. Norton's sole obligation under this warranty shall be to repair or replace, at Norton's option, any product which is non-conforming provided any such product failure was not caused by a subsequent modification of the product, misuse or a failure to follow any applicable instructions for the product.

EXCEPT FOR THE FOREGOING, NORTON EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES AND/OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Product Quality Complaints

All product quality complaints should be submitted to your local Norton Distributor.

Liability Limitation

NORTON'S LIABILITY FOR ANY LOSS OR DAMAGE ARISING OUT OF OR RESULTING FROM THE USE OF THE PRODUCT SHALL NOT EXCEED THE PURCHASE PRICE THEREOF, REGARDLESS OF WHETHER SUCH LIABILITY ARISES IN CONTRACT, TORT (INCLUDING WITHOUT LIMITATION NEGLIGENCE OR STRICT LIABILITY), OR OTHERWISE, AND IN NO EVENT SHALL NORTON BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. NO REPRESENTATIVE OF NORTON, NOR ANY OF NORTON'S DISTRIBUTORS OR DEALERS, IS AUTHORIZED TO MODIFY THIS WARRANTY OR ISSUE ANY WARRANTY REGARDING THE PRODUCTS IN THIS CATALOG.

Trademarks

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3X™	GEMINI®	NORTON DESIGN®	SANDWET™
ABRASOTEX™	G-FORCE™	NORTON SG®	SCREEN-BAK®
ADALOX®	GLOBAL™	NORTON SG BLAZE®	SHURSTIK™
ALUNDUM®	GREENLYTE™	NORTON SG BLAZE®	SILVER EAGLE®
AERO-JET™	GRIND-O-FLEX™	PLUS™	SOFTTOUCH®
AMPLEX®	INDIA®	NORZON®	SPEED CHANGE™
AVOS®	JOBPACK™	NORZON BLUEFIRE®	SPEED-LOK®
AZTEC®	LIGHTNING®	NORZON PLUS®	STICK & SAND®
AZTEC II®	LONG LIFE™	OPENKOTE®	TARGA®
BEAR-TEX®	MERIT®	PACESETTER®	THE ABSOLUTE FORCE™
BLACK ICE®	METALITE®	PLYWELD®	
BLUE-BAK™	MINI-DEX™	POLYBOND™	THE SEE-THRU SYSTEM™
CHARGER™	MSL®	POWERFLEX®	TUFBAK®
CLEAR CREEK™	MULTI-AIR®	POWERLOCK®	TWINFIBER™
CLOSEKOTE®	MULTI-AIR® PLUS™	POWERSTRIP™	TWINSTAR™
CRYSTOLON®	MULTI-OILSTONE®	PURESAND®	U-DEX-IT™
DRYICE®	MULTISAND™	QUANTUM™	UNIVEL®
DUO®	NEX™	QUADRO-FIT PRO™	USB™
DURITE®	NO-FIL®	RAILCUT™	VORTEX®
EDGER™	NORAX®	RAPIDCUT™	WINTER®
E-Z FLEX®	NORBIDE®	RAPID FINISH™	WOODSAND™
FAB CUT™	NORKUT™	RAPID STRIP™	AND OTHERS
FASTCUT™	NORGRIP®	RESCUE RUNNER™	
FLEXDRUM™	NORLOK™	RIGHTCUT™	
FLEXEDGE™	NORPOR®	SAABA™	
FURIOSO™	NORTON®	SAND-O-FLEX™	

Safety – It's the Smart Thing to Do



SPEEDS

Check machine spindle speed and speed listed on machine against safe maximum operating speed marked on the grinding wheel. Do not overspeed the wheel.



FACE PROTECTION

Always wear government-approved face and eye protection when using abrasive products.



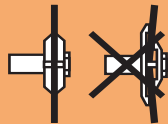
SAFETY GLOVES

Grinding applications are conducted in harsh environments. The use of proper fitting gloves is recommended.



WHEEL GUARD

Always use the wheel guard as supplied by the machine manufacturer, in the proper position.



FLANGES

When mounting most grinding wheels, use flanges of equal diameter and bearing surface. For exceptions, see ANSI B7.1.



HEARING PROTECTION

Use of abrasive products may create elevated sound levels. Hearing protection must be worn where required.



SAFETY GUIDES, MSDS AND WHEEL WARNING MESSAGES

Before using any abrasive materials, READ:

- The Safety Guides
- Wheel Warning Messages
- Material Safety Data Sheets (MSDS)

Norton provides information pertaining to the safe use of all products. Please take the time to read it carefully. Contact suppliers of the workpiece and abrasive materials for copies of the MSDS if one is not readily available. Norton abrasives MSDS can be obtained on www.nortonabrasives.com



DUST PROTECTION

Exposure to dust generated from workpiece and/or abrasive materials can result in lung damage and/or other physical injury.

Use dust capture or local exhaust as stated in the MSDS. Wear government-approved respiratory protection and eye and skin protection.

Failure to follow this warning can result in serious lung damage and/or physical injury.

This is a general dust warning and does not cover specific situations. For more information, refer to the MSDS dust warning provided with your products, and workpiece.



WARNING

This warning icon appears on our products and packaging. It is intended to draw your attention to the specific safety warning practices outlined after it.



PISTOL GRIP AIR SANDER

A DEADLY EQUATION

Pistol Grip Air Sander + Grinding Wheel = Certain Injury!

- Never use a high speed air sander as a portable grinder
- Use only sanding discs specifically designed for sanders
- Because the speed of these sanders far exceeds the maximum rated speeds for grinding wheels, a potentially lethal wheel breakage may occur

Breakages/Personal Injury

In the event of on-machine breakage of Norton abrasive products, call your local Norton distributor immediately. Whether involving personal injury or not, the abrasive user should leave the equipment and other evidence undisturbed until a Norton sales representative has been notified and conducts an investigation. Prompt action on the part of abrasive users, distributor, and Norton sales personnel is important to ensure swift determination of the breakage cause and to guard against recurrence.

Safe Operating Practices

Safe operating practices must be part of every grinding wheel user's operation. The greatest efficiency and lowest overall abrasive cost can be realized only if proven care and use techniques become standard practice.

- Be sure to read any safety material/guidelines provided with the abrasive product.
- Always check the wheel for cracks or damage before use.
- Always properly maintain your machine; especially governors on pneumatic machines and linkage on floorstand machines.
- Never use the incorrect air, hydraulic or electric power supply.
- Never mount grinding wheels directly on electric motors.
- Never mount grinding wheels on the wrong size machine for the grinding wheel
- Before mounting the wheel, use a tachometer to measure the spindle speed.
- Ensure the mounting flanges, backplate or adapter supplied by the machine manufacturer are used and kept in good condition. ANSI Safety Requirement B7.1 provides wheel mounting requirements. Check mounting flanges for equal and correct diameter and use blotters when supplied.
- Always mount, true and dress the wheel in conformance with the guidelines published in the ANSI Safety Requirements B7.1.
- Ensure the correct wheel guard is in place before starting the wheel. Allow the wheel to come up to full operating speed before starting to grind for a minimum of one minute, and stand out of the plane of rotation.
- NEVER use a high speed air sander as a portable grinder.
- NEVER use grinding wheel with a rated speed less than that of the grinder.

- NEVER exceed the maximum operating speed marked on the wheel being used. The following formula may be used to calculate wheel speed:

$$SFPM = \text{Spindle Speed in RPM} \times \text{Wheel Dia. in inches} \times .262$$
- Avoid dropping or bumping the wheel.
- When not using the wheel, store the wheel in its original packing materials. This protects the wheel from chips and cracking, as well as provides easy identification of the wheel.

For more information on product safety, ask your Norton distributor for these publications:

- "Primer on Grinding Wheel Safety" (form 474)
- Portable Grinding Safety (form 1406)
- ANSI B7.1 "Safety Requirements for the Use, Care and Protection of Abrasive Wheels"
- ANSI B7.7 "Safety Requirements for Abrading Materials with Coated Abrasive Systems"
- OSHA and literature provided by the grinding wheel and machine manufacturer
- Material Safety Data Sheets
- Other applicable regulations
- Or contact the Saint-Gobain Product Safety Department at telephone 508-795-2317, fax 508-795-5120, or your Norton representative

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As part of Saint-Gobain Abrasives' ongoing commitment to safety, each month a new safety article is published on the Norton website. Topics include proper abrasive storage, equipment maintenance, proper wheel mounting, using blotters, ring testing a grinding wheel, wheel dressing and much more. Visit the Norton website at www.ind.nortonabrasives.com and check the "News" section for the newest article. Or click on "Safety" to review our archived safety articles.

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It is the user's responsibility to refer to and comply with ANSI B7.1 and B7.7

Starting a Grinding Wheel

ANSI's Procedure for Starting an Abrasive Wheel

In the past several years we have heard of wheel breakages and accidents involving abrasive wheels breaking on start-up. This article is designed to remind users of the proper procedure when starting a machine with a new abrasive wheel mounted on it, or starting a machine after the machine and wheel have been stored for a period of time, or remounting a wheel. ANSI B7.1-2000 requires the following procedure when starting a newly mounted grinding wheel.

9.8 Starting the Wheel (Requirements)

All abrasive wheels shall be run at operating speeds with the safety guard in place or in a protected enclosure for at least one minute before applying work. During this time no one shall stand in front of or in line with the wheel. (See section 4, for safety guard requirements.) This provision shall apply each time one of the following conditions occur: a) a new wheel has been mounted; or b) a used wheel has been remounted.

E 9.8 Starting the Wheel (Explanatory Information)

An abrasive wheel may be damaged in shipment or storage, or the wheel may be subjected to improper, excessive stresses during

mounting. Wheels which have been damaged or are under excessive stress, are likely to fracture within the first minute of rotation at operating speed. While this procedure is most important at the time when an abrasive wheel is mounted or remounted, damage may also occur to a wheel during a shut down of the machine on which it is mounted. The user should evaluate the circumstances and length of machine shut down to determine additional times that the operating rule should be followed.

Improper wheel mounting is a major cause of wheel breakages. Always use proper mounting procedures as outlined in ANSI B7.1, machine manufacturer's instructions and those supplied with the abrasive wheel. Be safe, know and follow the rules!

For additional information on this topic or any other abrasive product safety information, please review ANSI, OSHA and literature provided by the grinding wheel and machine manufacturer. You may also contact the Saint-Gobain Product Safety Department at Tel. (508) 795-2317 or Fax. (508) 795-5120 or your Saint-Gobain Abrasives, Inc. representative with any abrasive safety related questions.



What You Should Know About Grinding Wheel Guards

Reports indicate customers in the grinding wheel industry break approximately one grinding wheel per day. Most of these breakages are caused by human error, do not result in personal injury, and generally go unreported. Grinding wheel guards are one of the key components in keeping these grinding wheel mishaps from becoming a personal injury.

Dangerous Conditions Caused by the Ineffective Use of Grinding Wheel Guards:

- Incorrect:** Cup wheels such as Type 6 and 11 used on a portable angle grinder with a Type 27, 28 and 29 depressed center grinding wheel guard.
- Explanation:** While a properly adjusted Type 27, 28 and 29 guard works with a Type 27, 28 or 29 wheel, it offers little or no protection with a Type 6 or 11 cup wheel. The cup wheel "hangs" below the guard meant for a Type 27, 28 or 29 wheel and in the event of a wheel breakage; it offers little or no protection.
- Incorrect:** Type 01 straight cut-off wheels used on a portable angle grinder with a Type 27, 28 or 29 depressed center grinding wheel guard.
- Explanation:** Type 27, 28 and 29 guards are open on the bottom to allow for side grinding with raised hub/depressed center wheels. When side grinding with the Type 27, 28 or 29 wheel, the workpiece acts as a portion of the guard, protecting the operator in the event of a wheel breakage. Cut-off wheels are not designed for use on their side and must be used on their outer periphery only. Guards for cut-off wheels must cover a full 180° area on all sides of the wheel. When using a cut-off wheel with a Type 27, 28 or 29 guard, there is no guard on one side of the wheel, protecting the operator in the event of a wheel breakage. Do not use cut-off wheels on angle grinders without the proper guard.
- In Summary:** Grinding wheel guards designed for one type of machine used on another type of machine, or the wrong guards for the type of wheel, are dangerous.

Ineffective Grinding Wheel Guards:

- The most ineffective guard is the one that has been removed from its machine and is sitting in storage. The removal of a wheel guard on a machine in operation is not only extremely dangerous, but illegal.
- Do not alter or cut back a guard. Using a damaged or altered wheel guard is extremely dangerous to the safety of the operator and bystanders. Guards that are altered, cracked, deformed, bent, or severely worn must be replaced. Once a guard has been damaged, it might become ineffective in a future wheel breakage. If a wheel breakage occurs, the guard must be inspected and if there is any sign of damage, the guard must be replaced.
- Machines with missing wheel guard fasteners are also very dangerous. Sometimes during routine machine maintenance the guard fasteners are damaged and not replaced when the machine is reassembled. During a wheel breakage, the missing fasteners might allow the guard to move, become unattached from the machine or open, exposing the operator to being injured by the guard or not containing the wheel fragments in the event of a wheel break.
- A guard made of paper, tin, cloth, wood or other materials not designed to contain wheel fragments might fail when struck by a wheel fragment. Always use the guard that is recommended for the machine and its operation. Never paint or disguise the wrong material for a proper guard.

Guards Not Properly Adjusted:

- A wheel guard that is set too high on a portable angle grinder will allow the wheel to hang below the guard. This improper setting may render the guard useless in the event of a wheel breakage.
- The wheel guard of a portable machine positioned improperly. A guard used on a portable machine must be positioned so it is located between the operator and the grinding wheel. Also, bystanders must not be positioned in front of the wheel guard's open area.
- Failure to maintain the proper setting of the adjustable tongue guard (AKA spark arrester) on bench, pedestal, or small floor stand grinder. OSHA requires a maximum clearance of 1/4" between the grinding wheel and the tongue guard. If a wheel breakage should occur, maintaining the proper distance will help to contain the wheel fragments and reduce the probability of an injury.

CONVERSION TABLE – WHEEL SPEEDS
REVOLUTIONS PER MINUTE FOR VARIOUS DIAMETERS OF GRINDING WHEELS TO GIVE SURFACE SPEED IN FEET PER MINUTE AS INDICATED
 (FOR WHEEL MARKING PURPOSES THE CALCULATED RPM FIGURES LISTED BELOW ARE ROUNDED OFF TO THE NEXT 5)

Diameter of Wheel in Inches	Surface Speed in Feet Per Minute (SFPM)																				
	4,000	4,500	5,000	5,500	6,000	6,500	7,000	7,500	8,000	8,500	9,000	9,500	10,000	12,000	12,500	14,200	16,000	16,500	17,000	19,685	20,000
1	15,279	17,189	19,098	21,008	22,918	24,828	26,737	28,647	30,558	32,467	34,377	36,287	38,196	45,836	47,745	54,240	61,116	63,025	64,935	75,190	76,395
2	7,639	8,594	9,549	10,504	11,459	12,414	13,368	14,323	15,278	16,233	17,188	18,143	19,098	22,918	23,875	27,120	30,558	31,510	32,465	37,595	38,195
3	5,083	5,729	6,366	7,003	7,639	8,276	8,913	9,549	10,186	10,822	11,459	12,096	12,732	15,278	15,915	18,080	20,372	21,010	21,645	25,065	25,465
4	3,820	4,297	4,775	5,252	5,729	6,207	6,685	7,162	7,640	8,116	8,595	9,072	9,549	11,459	11,940	13,560	15,278	15,755	16,235	18,800	19,100
5	3,056	3,438	3,820	4,202	4,584	4,966	5,348	5,730	6,112	6,494	6,876	7,258	7,640	9,168	9,550	10,850	12,224	12,605	12,985	15,040	15,280
6	2,546	2,865	3,183	3,501	3,820	4,138	4,456	4,775	5,092	5,411	5,729	6,048	6,366	7,639	7,960	9,040	10,186	10,505	10,820	12,530	12,730
7	2,183	2,455	2,728	3,001	3,274	3,547	3,820	4,092	4,366	4,638	4,911	5,183	5,456	6,548	6,820	7,750	8,732	9,005	9,275	10,740	10,915
8	1,910	2,148	2,387	2,626	2,865	3,103	3,342	3,580	3,820	4,058	4,297	4,535	4,775	5,729	5,970	6,780	7,640	7,880	8,115	9,400	9,550
9	1,698	1,910	2,122	2,334	2,546	2,758	2,970	3,182	3,396	3,606	3,820	4,032	4,244	5,092	5,305	6,030	6,792	7,000	7,215	8,355	8,490
10	1,528	1,719	1,910	2,101	2,292	2,483	2,674	2,865	3,056	3,247	3,438	3,629	3,820	4,584	4,775	5,425	6,112	6,300	6,495	7,520	7,640
12	1,273	1,432	1,591	1,751	1,910	2,069	2,228	2,386	2,546	2,705	2,864	3,023	3,183	3,820	3,980	4,520	5,092	5,250	5,410	6,265	6,365
14	1,091	1,228	1,364	1,500	1,637	1,773	1,910	2,046	2,182	2,319	2,455	2,592	2,728	3,274	3,410	3,875	4,366	4,500	4,640	5,370	5,455
16	955	1,074	1,194	1,313	1,432	1,552	1,672	1,791	1,910	2,029	2,149	2,268	2,387	2,865	2,985	3,390	3,820	3,940	4,060	4,700	4,775
18	849	955	1,061	1,167	1,273	1,379	1,485	1,591	1,698	1,803	1,910	2,016	2,122	2,546	2,655	3,015	3,396	3,500	3,605	4,175	4,245
20	764	859	955	1,050	1,146	1,241	1,337	1,432	1,528	1,623	1,719	1,814	1,910	2,292	2,390	2,715	3,056	3,150	3,245	3,760	3,820
22	694	781	868	955	1,042	1,128	1,215	1,302	1,388	1,476	1,562	1,649	1,736	2,084	2,170	2,465	2,776	2,865	2,950	3,420	3,470
24	637	716	796	875	955	1,034	1,115	1,194	1,274	1,353	1,433	1,512	1,591	1,910	1,990	2,260	2,546	2,625	2,705	3,135	3,185
26	588	661	734	808	881	955	1,028	1,101	1,176	1,248	1,322	1,395	1,468	1,762	1,840	2,090	2,352	2,425	2,495	2,890	2,940
28	546	614	682	750	818	887	955	1,023	1,092	1,159	1,228	1,296	1,364	1,637	1,705	1,940	2,182	2,250	2,320	2,685	2,730
30	509	573	637	700	764	828	891	955	1,018	1,082	1,146	1,210	1,274	1,528	1,595	1,810	2,056	2,100	2,165	2,505	2,545
32	477	537	597	656	716	776	836	895	954	1,014	1,074	1,134	1,194	1,432	1,495	1,695	1,910	1,970	2,030	2,350	2,385
34	449	505	562	618	674	730	786	843	898	955	1,011	1,067	1,124	1,348	1,405	1,595	1,796	1,855	1,910	2,210	2,245
36	424	477	530	583	637	690	742	795	848	902	954	1,007	1,061	1,273	1,330	1,510	1,698	1,750	1,805	2,090	2,120
38	402	452	503	553	603	653	704	754	804	854	904	955	1,006	1,206	1,260	1,430	1,608	1,660	1,710	1,980	2,010
40	382	430	478	525	573	620	669	716	764	812	860	908	956	1,146	1,195	1,355	1,528	1,575	1,625	1,880	1,910
42	366	409	454	500	545	591	636	682	732	775	818	863	908	1,090	1,140	1,295	1,464	1,500	1,545	1,790	1,820
44	347	390	434	478	521	564	608	651	694	737	780	824	868	1,042	1,085	1,235	1,388	1,432	1,475	1,710	1,735
46	333	375	416	458	500	541	582	624	666	708	750	791	832	1,000	1,040	1,180	1,332	1,370	1,410	1,635	1,660
48	318	358	398	438	478	517	558	597	636	676	716	756	796	956	995	1,130	1,272	1,315	1,350	1,565	1,590
53	288	324	360	395	432	468	503	539	576	612	648	683	720	864	900	1,025	1,152	1,189	1,225	1,420	1,440
60	255	287	319	350	387	414	446	478	510	542	574	606	638	774	795	905	1,020	1,050	1,080	1,255	1,275
72	212	239	265	291	318	345	371	398	424	451	477	504	530	637	665	755	849	875	905	1,045	1,060

For intermediate diameters not listed use the formula listed in Section 1.2.10 of ANSI B7.1 (SFPM = .262 x wheel diameter in inches x RPM.)
 To convert meters per second (m/s) to SFPM: m/s x 196.85 = SFPM. To convert SFPM to m/s: SFPM/196.85 = m/s. To convert RPM to SFPM: Wheel Diameter x RPM x 0.262 = SFPM



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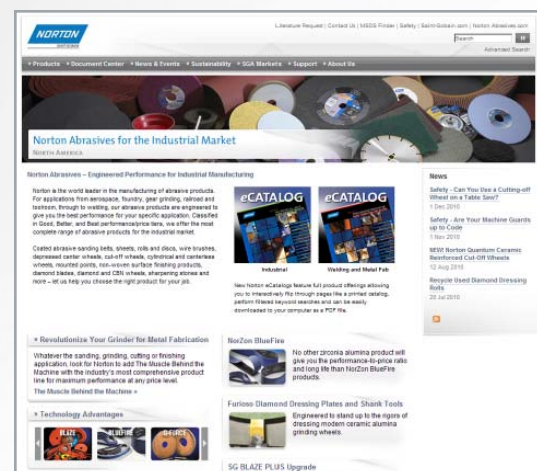
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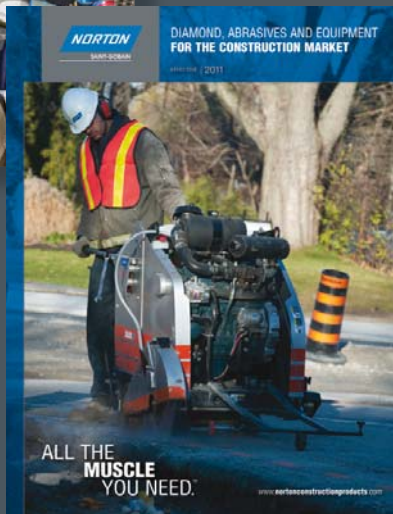


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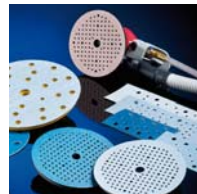
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