

NORTON

SAINT-GOBAIN®



ABRASIVE PRODUCT SOLUTIONS FOR THE SPECIALTIES MARKET

EFFECTIVE | 2015




GENERAL INFORMATION

Why Choose Norton	3
Quick Material/Application Guide	3
Safety Guidelines	30
Trademarks	30

MINI GRINDER

	Mini Flap Discs	5
-----------------------------------------------------------------------------------	-----------------	----------

	Quick Change Discs	7
-----------------------------------------------------------------------------------	--------------------	----------

STRAIGHT SHAFT GRINDER

	Micro-Mini & Mini Flap Wheels	13
-----------------------------------------------------------------------------------	-------------------------------	-----------

DIE GRINDER

	Cartridge & Spiral Rolls	19
-------------------------------------------------------------------------------------	--------------------------	-----------

	Square & Cross Pads, Overlap Slotted Discs	23
-------------------------------------------------------------------------------------	--------------------------------------------	-----------

BENCH & PEDESTAL GRINDER

	Large Flap Wheels	27
-------------------------------------------------------------------------------------	-------------------	-----------



WHY CHOOSE NORTON

Norton supplies the most comprehensive specialties offering in the industry, with the largest variety of abrasives, backings and locking mechanisms. We are committed to consistently provide the highest quality of products that will finish the job, increase your profits and deliver a choice in solution by user need. By providing high-quality performance-oriented products at good/better/best tiers, customers can count on the Norton line to provide versatility for any application. If you are a first time customer, you will be excited to try our line knowing the confidence of the Norton brand name and the long list of satisfied users. This catalog is designed to guide you to a product solution based on machine/tool and application. To put Norton to work for you, contact your local distributor to learn more about our latest solutions and services.

QUICK MATERIAL/APPLICATION GUIDE BY CATEGORY



Mini flap & QC discs:

- Stainless - Norton Blaze R980P
- Carbon - Norton BlueFire R884P
- Economical - Norton Neon R766



Flap wheels:

- Stainless & Carbon - Norton Neon R369
- Economical - Norton Metal R207



Specialties including cartridge rolls, spiral rolls, cross pads, square pads, overlap slotted discs:

- Stainless - Norton Blaze R920
- Stainless & Carbon - Norton Neon R326
- Economical - Norton Metal R265

The ultimate handheld tool that blends small size with big power for improved operator comfort without sacrificing finishing efficiency.



SECTION BY APPLICATION:

- Deburring – Stock Removal
- Blending – Finishing/Cleaning



DEBURRING

Mini flap discs offer grinding and finishing in one product with great product longevity over traditional products like Quick Change discs. Ideal for contours and flat surfaces of all types of metals.

APPLICATIONS:

- Deburring/Flashing
- Heavy stock removal
- Edge chamfering
- Metal removal



MINI FLAP DISCS OVERVIEW

Mini flap discs are used in similar applications as traditional Coated Quick Change Discs and offer longer life and maximize productivity by minimizing downtime.

- APPLICATIONS:** For stock removal, deburring, deflashing, blending and finishing welds in metal fabrication, welding and MRO shops.
- SIZE RANGE:** 2", 3" diameter
- GRIT RANGE:** 36 – 120
- ABRASIVE GRAIN:** Ceramic Alumina, Zirconia Alumina, Aluminum Oxide
- BACKING:** Cloth
- ATTACHMENT:** Type TS (II) and Type TR (III)
- BACK-UP PADS:** Rubber

QUICK-CHANGE ATTACHMENT SYSTEMS AND CROSS REFERENCE GUIDE

Each system enables quick, safe disc changes, reducing downtime and operating expenses.

Type TS (Type II)

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

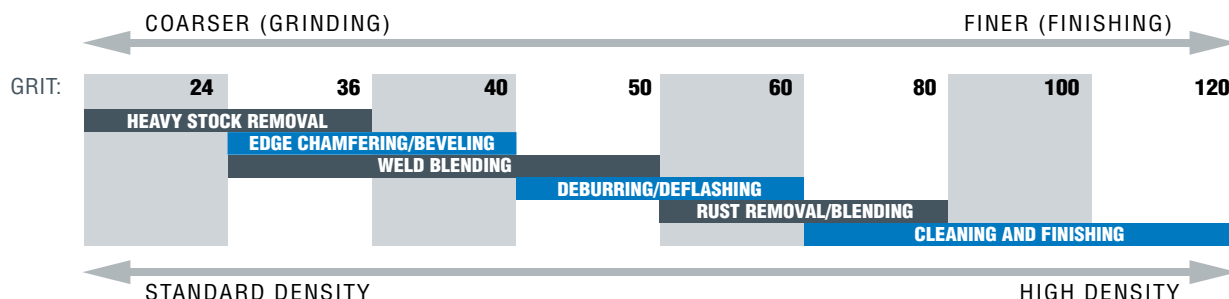
Type TR (Type III)

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

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 Blaze R980P	Norton BlueFire R884P	Norton Neon R766
Mild Carbon Steel / Welds	Norton Blaze R980P	Norton BlueFire R884P	Norton Neon R766
Ferrous Metals / Cast Iron	Norton Blaze R980P	Norton BlueFire R884P	Norton Neon R766
Brass / Bronze / Aluminum	–	Norton BlueFire R884P	Norton Neon R766
Paint / Glue / Adhesive	–	–	Norton Neon R766

APPLICATION/GRIT RECOMMENDATION GUIDE





FEATURED PRODUCTS



NORTON BLAZE R980P MINI FLAP DISCS

BEST/HIGHEST PRODUCTIVITY FOR STAINLESS STEEL AND SUPER ALLOYS

FEATURES & BENEFITS

- Latest-generation ceramic alumina abrasive provides 50-200% longer life vs any flap disc on stainless, titanium, and super alloys
- Supersize grinding aid provides a cool, noticeably faster cut rate



NORTON BLUEFIRE R884P MINI FLAP DISCS

BETTER CHOICE FOR MILD CARBON STEEL AND WELDS

FEATURES & BENEFITS

- Strong zirconia alumina plus abrasive delivers aggressive cut rate and up to 30% longer life on mild carbon steel and welds
- Semi-open coat retards loading on aluminum



NORTON NEON R766 MINI FLAP DISCS

GOOD CHOICE FOR ALUMINUM, CARBON AND STAINLESS STEEL

FEATURES & BENEFITS

- Aluminum oxide blend ideal when purchasing criteria is general purpose disc

TIER:	BEST	BETTER	GOOD	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton	Norton	Norton	Norton
TRADENAME:	Blaze R980P	BlueFire R884P	Neon R766	Blaze R980P	BlueFire R884P	Neon R766
ABRASIVE:	Ceramic Alumina	Zirconia Alumina	Aluminum Oxide	Ceramic Alumina	Zirconia Alumina	Aluminum Oxide
FLAP:	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester
BACKING MATERIAL:	Extra Heavy-Duty Plastic	Extra Heavy-Duty Plastic	Extra Heavy-Duty Plastic	Extra Heavy-Duty Plastic	Extra Heavy-Duty Plastic	Extra Heavy-Duty Plastic
ATTACHMENT:	TR (Type III)	TR (Type III)	TR (Type III)	TS (Type II)	TS (Type II)	TS (Type II)



SIZE (D)	GRIT	STD. PKG.	PART #	PART #	PART #	PART #	PART #	PART #
2	36	10	77696090145	77696090165	66261132101	77696090155	77696090175	66261132112
	40	10	77696090146	77696090166	66261132102	77696090156	77696090176	66261132113
	60	10	77696090147	77696090167	66261132104	77696090157	77696090177	66261132114
	80	10	77696090148	77696090168	66261132105	77696090158	77696090178	66261132115
	120	10	77696090149	77696090169	66261132106	77696090159	77696090179	66261132116
3	36	10	77696090150	77696090170	66261132107	77696090160	77696090180	66261132118
	40	10	77696090151	77696090171	66261132108	77696090161	77696090181	66261132119
	60	10	77696090152	77696090172	66261132109	77696090162	77696090182	66261132120
	80	10	77696090153	77696090173	66261132110	77696090163	77696090183	66261132121
	120	10	77696090154	77696090174	66261132111	77696090164	77696090184	66261132122

DESCRIPTION	STD. PKG.	MAX. RPM	PART #
Mini Flap Disc Back-up Pads			
2" and 3" TS (Type II) Back-up Pads	1	30,000	08834168539
2" and 3" TR (Type III) Back-up Pads	1	30,000	08834164922





BLENDING

Quick Change discs are ideal for light to medium pressure grinding with faster cutting characteristics over shapes like mini flap discs. Ideal for flat surfaces of all types of metals.

APPLICATIONS:

- Weld blending
- Light deburring
- Leveling and finishing
- Light stock removal



QUICK CHANGE DISCS OVERVIEW

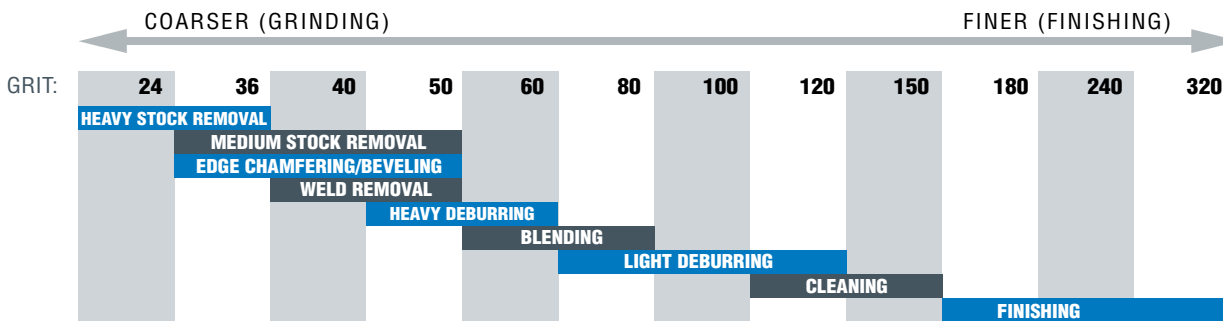
Tool-free, twist-on and -off fastening systems make fast work of disc changes to maximize productivity by minimizing downtime.

- APPLICATIONS:** Light- to medium-pressure grinding; blending, and finishing applications; for use on contours or flat surfaces
- SIZE RANGE:** 3/4" – 4" diameter
- GRIT RANGE:** 24 – 320
- ABRASIVE GRAIN:** Ceramic Alumina, Zirconia Alumina, Aluminum Oxide
- BACKING:** Cloth
- CLOTH FLEX:** Heavy-duty, 3-ply polyester laminate construction discs are the most aggressive and durable cloth discs on the market or standard 2-ply laminate construction creates an aggressive and durable cloth disc for flat surfaces
- ATTACHMENT:** Type TS (II), Type TR (III), and Type TP (I)
- BACK-UP PADS:** Rubber with hardness variations for different applications

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 Blaze R980P	Norton BlueFire R884P	Norton Neon R766
Mild Carbon Steel / Welds	Norton Blaze R980P	Norton BlueFire R884P	Norton Neon R766
Ferrous Metals / Cast Iron	Norton Blaze R980P	Norton BlueFire R884P	Norton Neon R766
Brass / Bronze / Aluminum	–	Norton BlueFire R884P	Norton Neon R766
Paint / Glue / Adhesive	–	–	Norton Neon R766

APPLICATION/GRIT RECOMMENDATION GUIDE





QUICK-CHANGE ATTACHMENT SYSTEMS AND CROSS REFERENCE GUIDE

Each system enables quick, safe disc changes, reducing downtime and operating expenses.

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	–

CROSS REFERENCE GUIDE

Abrasive	BETTER	GOOD
Backing	Zirconia Alumina	Aluminum Oxide
NORTON	Cloth	Cloth
	BlueFire R884P	Neon R766
3M	–	–
Standard	Zirconia	A/O Extra, A/O Pro
Superior	Premium Zirc	A/O with Grinding Aid
Arc	Zirconia/ Y Standard	A/O/X Plus Coolant
Pferd	ZA Z	Aluminum Oxide A-Plus, Aluminum Oxide A-INOX-FORTE
Sait	Z	3A
Camel	Zirconia AO	–
Klingspor	Alumina Zirconia	–
Garryson	–	–



FEATURED PRODUCTS



NORTON BLAZE R980P CERAMIC CLOTH DISCS

BEST CHOICE FOR TOUGH APPLICATIONS AND STAINLESS STEEL (3-PLY)

FEATURES AND BENEFITS

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



NORTON BLUEFIRE R884P ZIRCONIA CLOTH DISCS

BETTER CHOICE FOR SOFT METALS, WOOD, STAINLESS STEEL, AND CARBON

FEATURES AND BENEFITS

- Premium, versatile, self-sharpening zirconia alumina plus grain provides aggressive cut and up to 30% longer life than competitive zirconia alumina product
- Strong resin bond improves base adhesion and reduces grain shedding
- Advanced 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 alloy



NORTON NEON R766 ALUMINUM OXIDE CLOTH DISCS

GOOD CHOICE FOR DIFFICULT-TO-GRIND MATERIALS THAT REQUIRE AN ECONOMICAL OPTION

FEATURES AND BENEFITS

- Premium abrasive and aluminum oxide blend for aggressive cut and longer life than competitive aluminum oxide discs
- Durable Y-weight 2-ply polyester backing and new grain coating for longer life and faster cut rate on moderately-demanding applications
- Great for difficult-to-grind materials (aluminum, brass, bronze, stainless, carbon steel, and titanium) and applications requiring an economical option



TIER:	BEST	BEST	BETTER	BETTER
BRAND:	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	BLAZE R980P	BLUEFIRE R884P	BLUEFIRE R884P
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Zirconia Alumina	Zirconia Alumina
BACKING:	Polyester 3-Ply Heavy Duty	Polyester 3-Ply Heavy Duty	Polyester Standard	Polyester Standard
OTHER:	Supersized	Supersized		
ATTACHMENT:	TS (Type II)	TR (Type III)	TS (Type II)	TR (Type III)



SIZE (D)	GRIT	STD. PKG.	PART #	PART #		
1-1/2	24		66261138625			
	36	100	66261162307	66261162308	66261138624	66261121041
	50	100	66261162309	66261162310	66261138622	
	60	100	66261162311	66261162312	66261138621	66261121043
	80	100	66261162313	66261162314	66261138620	66261121044
	120	100		66261043380		
2	24	25			66261138638	66261138672
	36	25	66261162317	66261162318	66261138637	66261138671
	50	25	66261162319	66261162320	66261138635	66261138670
	60	25	66261162321	66261162322	66261138634	66261121048
	80	25	66261162323	66261162324	66261138633	66261121049
	100	25	66261043382	66261043383		
3	24	25			66261138665	66261138675
	36	25	66261162327	66261162328	66261138664	66261138674
	50	25	66261162329	66261162330	66261138662	66261138673
	60	25	66261162331	66261162332	66261138661	66261121053
	80	25	66261162333	66261162334	66261138660	66261121054
	100	25	66261043389	66261043390		
	120	25		66261043392		





TIER:	GOOD	GOOD	GOOD
BRAND:	Norton	Norton	Norton
TRADENAME:	NEON R766	NEON R766	NEON R766
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 #	PART #	PART #
3/4	36	100	66623318938	66623318944	66623318933
	40		66623318939	66623318945	66623318934
	50	100	66623318941	66623318946	66623318935
	60		66623318942	66623318947	66623318936
	80	100	66623318943	66623318949	66623318937
1	36	100	66623318958	66623318962	66623318950
	40	100		66623318963	66623318951
	50	100		66623318964	66623318952
	60	100		66623318965	66623318953
	80	100		66623318966	66623318956
	100		66261132500	66261132517	
	120		66261132501	66261132518	
1-1/2	36	100	66623318972	66623318977	66623318967
	40	100	66623318973	66623318978	66623318968
	50	100	66623318974	66623318979	66623318969
	60	100	66623318975	66623318980	66623318970
	80	100	66623318976	66623318981	66623318971
	100		66261132502		
	120		66261132503		
	180		66261132504		
	320		66261132505		
	2	24	100	66623319011	66623319013
36		100	66623318999	66623319005	66623318993
40		100	66623319000	66623319006	66623318994
50		100	66623319001	66623319007	66623318995
60		100	66623319003	66623319008	66623318996
80		100	66623319004	66623319009	66623318997
100			66261132506	66261132519	
120			66261132507	66261132520	
150			66261132508	66261132521	
180			66261132509	66261132522	
240			66261132510	66261132523	
320			66261132511		
3		24	50	66623319020	66623319026
	36	50	66623319021	66623319027	66623319015
	40	50	66623319022	66623319028	66623319016
	50	50	66623319023	66623319029	66623319017
	60	50	66623319024	66623319030	66623319018
	80	50	66623319025	66623319031	66623319019
	100		66261132512	66261132524	
	120		66261132513	66261132525	
	150		66261132514	66261132526	
	180		66261132515	66261132527	
	240		66261132516	66261132528	
	4	24			66623329430
36		50	66623319034		66623319032
60		50	66623319035	66623319037	66623319033

BRAND:	Norton	Norton	Norton
ATTACHMENT:	TS (Type II)	TR (Type III)	TP (Type I)



DESCRIPTION	STD. PKG.	MAX. RPM	PART #	PART #	PART #
Quick-Change Back-up Pads					
1-1/2"	1	30,000	63642543200	66261047580	08834164003
2"	1	30,000	63642543210	66261055103	08834164004
3"	1	20,000	63642543225	66261055105	08834164005

A powerful handheld tool for spindle-mounted abrasive products that reaches tight corners and crevices and designed for continuous use with improved ergonomics.



SECTION BY APPLICATION:

- Deburring – Stock Removal



DEBURRING

Spindle-mounted flap wheels have a continual rate of wear exposing new abrasive grain. Their construction makes them ideal for uneven surfaces and diameters. Available with both 1/4" diameter steel shank and 1/4"-20 thread, spindle-mounted flap wheels are a cost-effective replacement for brushes, rubber points and felt bobs.

APPLICATIONS:

- Deburring
- Metal fabrication
- Blending welds
- Cleaning & finishing threaded parts
- Producing uniform finishes on aluminum and stainless steel

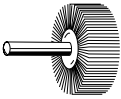
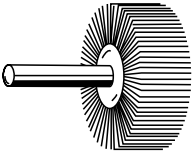



MICRO-MINI & MINI FLAP WHEELS OVERVIEW

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.

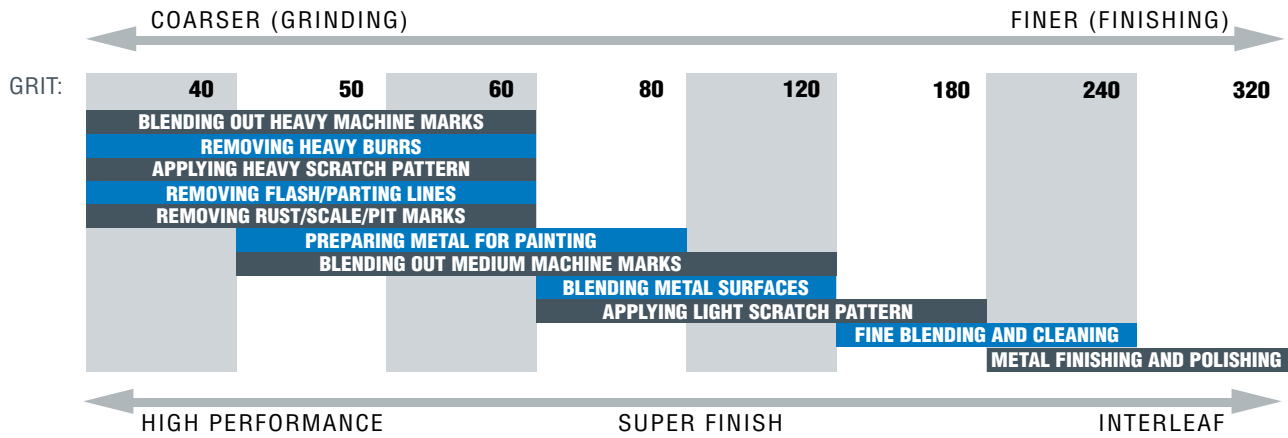
- APPLICATIONS:** Used for a wide range of metal fabrication and welding applications including stock removal, blending, deburring, cleaning, finishing, and polishing
- SIZE RANGE:** Flap wheels with mounted steel shanks: 3/8" - 3" diameter. Wheels are designed with a 1/8" or 1/4" steel shank as an integral 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: 1" - 3" diameter. 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.
- GRIT RANGE:** 40 - 320
- ABRASIVE GRAIN:** Aluminum Oxide Blend, Aluminum Oxide

SHAPE RECOMMENDATION GUIDE

SHAPE	DESCRIPTION/APPLICATION
	<p>Micro-Mini Flap Wheels with 1/8" Mounted Steel Shanks</p> <ul style="list-style-type: none"> • 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"
	<p>Mini Flap Wheels with 1/4" Mounted Steel Shanks</p> <ul style="list-style-type: none"> • Small flap wheels, ranging from 1" to 3" diameter, mounted on a 1/4" diameter steel shank • Very durable, long-lasting mini flap wheels for demanding, heavy stock removal applications
	<p>Mini Flap Wheels with 1/4"-20 Thread</p> <ul style="list-style-type: none"> • Mini flap wheels ranging from 1" to 3" diameter, mounted on a 1/4"-20 thread that allows you to quickly spin the wheels on and off with no tools • Designed for polishing and finishing intricate surfaces; cost-effective replacement for brushes, rubber points, and felt bobs



APPLICATION/GRIT RECOMMENDATION GUIDE



MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	GOOD Excellent Blend of Performance and Price	GOOD Consistent Performance – Low Initial Price
Stainless Steel / Titanium / Super Alloys	Norton Neon R369	Norton Metal R207
Mild Carbon Steel / Welds	Norton Neon R369	Norton Metal R207
Ferrous Metals / Cast Iron	Norton Neon R369	Norton Metal R207
Brass / Bronze / Aluminum	Norton Neon R369	Norton Metal R207

FEATURED PRODUCTS



NORTON NEON R369

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

FEATURES

- Long-lasting 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



NORTON METAL R207

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

FEATURES

- Long-lasting aluminum oxide abrasive blend
- Flexible cotton backing

BENEFITS

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



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



TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **NEON R369**
 ABRASIVE: Aluminum Oxide Blend

SIZE (D x W x SK.)	GRIT	MAX. RPM	STD. PKG.	PART #
3/8 x 3/8 x 1/8	60	40,000	10	66623399223
	80	40,000	10	66623399224
	120	40,000	10	66623399225
	180	40,000	10	66623399226
	240	40,000	10	66623399227
5/8 x 5/8 x 1/8	320	40,000	10	66623399228
	60	37,000	10	66623399229
	80	37,000	10	66623399230
	120	37,000	10	66623399231



TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **NEON R369**
 ABRASIVE: Aluminum Oxide Blend

SIZE (D x W x SK.)	GRIT	MAX. RPM	STD. PKG.	PART #
5/8 x 3/4 x 1/8	80	37,000	10	66623399232
	120	37,000	10	66623399233
3/4 x 3/8 x 1/8	60	35,000	10	66623399234
	80	35,000	10	66623399235
	120	35,000	10	66623399236
3/4 x 5/8 x 1/8	80	35,000	10	66623399238
3/4 x 3/4 x 1/8	60	35,000	10	66623399240
	80	35,000	10	66623399241
	120	35,000	10	66623399242

Mini Flap Wheels with 1/4" Mounted Steel Shanks



TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **NEON R369**
 ABRASIVE: Aluminum Oxide Blend

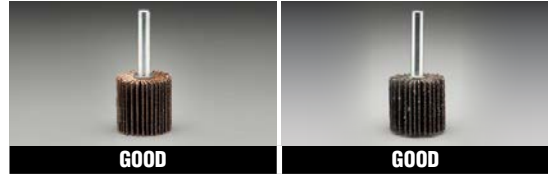


TIER: **GOOD**
 BRAND: Norton
 TRADENAME: **METAL R207**
 ABRASIVE: Aluminum Oxide

SIZE (D x W x SK.)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #
3/4 x 5/8 x 1/4	60			66623399237	
	120			66623399239	
3/4 x 3/4 x 1/4	60			66623399243	
	80			66623399244	
	120			66623399245	
	180			66623399246	
1 x 5/8 x 1/4	60	30,000	10	66623399074	63642502576
	80	30,000	10	66623399075	63642502577
	120	30,000	10	66623399076	63642502578
1 x 1 x 1/4	40	30,000	10	66623399077	
	60	30,000	10	69957394176	63642502580
	80	30,000	10	69957394181	63642502581
	120	30,000	10	69957394182	63642502582
	180	30,000	10	66623399078	
	240	30,000	10	66623399079	
1-3/8 x 5/8 x 1/4	320	30,000	10	66623399080	
	60	30,000	10	66623399247	
1-1/2 x 1 x 1/4	80	30,000	10	66623399248	
	40	25,000	10	66623399087	
1-1/2 x 1-1/2 x 1/4	60	25,000	10	66623399088	63642502592
	80	25,000	10	66623399089	63642502593
	120	25,000	10	66623399090	63642502594
	180	25,000	10	66623399249	
	240	25,000	10	66623399250	
	40	25,000	10	66623399251	
2 x 1/2 x 1/4	60	25,000	10	66623399252	
	80	25,000	10	66623399253	
	120	25,000	10	66623399254	
	180	25,000	10	66623399255	
2 x 1/2 x 1/4	60	25,000	10	66623399256	
	80	25,000	10	66623399257	
	120	25,000	10	66623399258	
	180	25,000	10	66623399258	



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



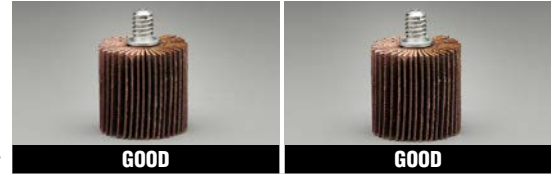
TIER: **GOOD** **GOOD**
 BRAND: Norton Norton
 TRADENAME: **NEON R369** **METAL R207**
 ABRASIVE: Aluminum Oxide Blend Aluminum Oxide

SIZE (D x W x SK.)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #
2 x 1 x 1/4	40	25,000	10	66623399094	
	60	25,000	10	69957394183	63642502600
	80	25,000	10	69957394184	63642502601
	120	25,000	10	69957394185	63642502602
	180	25,000	10	66623399095	
	240	25,000	10	66623399096	
2 x 1-1/2 x 1/4	320	25,000	10	66623399097	
	60	25,000	10	66623399098	
	80	25,000	10	66623399099	
2-1/2 x 1/2 x 1/4	120	25,000	10	66623399100	
	60			66623399259	
	80			66623399260	
2-1/2 x 1 x 1/4	120			66623399261	
	60	20,000	10	66623399262	63642502608
	80	20,000	10	66623399263	63642502609
3 x 1/2 x 1/4	120	20,000	10	66623399264	63642502610
	60	20,000	10	66623399265	63642502612
	80	20,000	10	66623399266	63642502613
3 x 1 x 1/4	120	20,000	10	66623399267	63642502614
	180	20,000	10	66623399268	
	40	20,000	10	66623399104	
	60	20,000	10	69957394186	63642502620
	80	20,000	10	69957394187	63642502621
3 x 2 x 3/8	120	20,000	10	69957394188	63642502622
	180	20,000	10	66623399105	
	240	20,000	10	66623399106	
	320	20,000	10	66623399107	
	60	12,000	10	66623399108	
3 x 2 x 3/8	80	12,000	10	66623399109	
	120	12,000	10	66623399110	





Mini Flap Wheels with 1/4"-20 Thread



TIER:	GOOD	GOOD
BRAND:	Norton	Norton
TRADENAME:	NEON R369	METAL R207
ABRASIVE:	Aluminum Oxide Blend	Aluminum Oxide

SIZE (D x W x THD.)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #
1 x 5/8 x 1/4-20	60	30,000	10	66623399111	63642502624
	80	30,000	10	66623399112	63642502625
	120	30,000	10	66623399113	63642502626
1 x 1 x 1/4-20	60	30,000	10	69957394189	63642502628
	80	30,000	10	69957394190	63642502629
	120	30,000	10	69957394191	63642502630
	180	30,000	10	66623399269	
1-3/8 x 5/8 x 1/4-20	60	30,000	10	66623399270	63642502632
	80	30,000	10	66623399271	63642502633
	120	30,000	10	66623399272	63642502634
1-1/2 x 1 x 1/4-20	60			66623399273	
	80			66623399274	
	120			66623399275	
1-5/8 x 1 x 1/4-20	60	25,000	10		63642502638
	80	25,000	10		63642502639
	120	25,000	10		63642502640
2 x 1/2 x 1/4-20	60	25,000	10	66623399276	
	80	25,000	10	66623399277	
	120	25,000	10	66623399278	
	180	25,000	10	66623399279	
2 x 1 x 1/4-20	60	25,000	10	69957394192	63642502646
	80	25,000	10	69957394193	63642502647
	120	25,000	10	69957394194	63642502648
	180	25,000	10	66623399280	
2-1/2 x 1 x 1/4-20	60	20,000	10		63642502654
	80	20,000	10		63642502655
	120	20,000	10		63642502656
3 x 1 x 1/4-20	60	20,000	10	69957394195	63642502664
	80	20,000	10	69957394196	63642502665
	120	20,000	10	69957394197	63642502666
	180	20,000	10	66623399281	

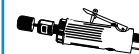


A compact, lightweight, handheld tool for mandrel-mounted abrasive products that allows for better control than larger die grinders and is a must for any detail work on small parts.



SECTION BY APPLICATION:

- Blending – Finishing/Cleaning



BLENDING

Specialties are used on small, tight inside surfaces and/or corners where other abrasive shapes cannot reach. Shapes include cartridge rolls, spiral rolls, cross pads, square pads and overlap slotted discs.

APPLICATIONS:

- Deburring/Flashing
- Removing machine tool marks
- Edge breaking
- Polishing corners and angles

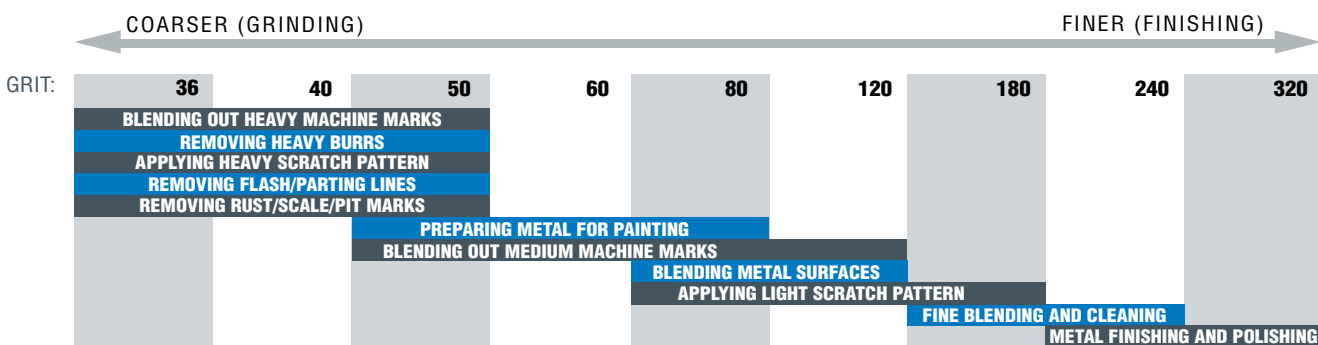


CARTRIDGE & SPIRAL ROLLS OVERVIEW

Cartridge and spiral rolls 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.

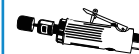
- APPLICATIONS:** Used on inside surfaces and inside corners where other abrasive shapes cannot reach. Typically these are used on high-speed air grinders and are always mounted on a mandrel. Ideal for flash removal, polishing, or removing machine tool marks, and edge breaking.
- SHAPES:** Cartridge rolls and spiral rolls (full taper, half taper, and sidewall taper)
- KEY GRITS:** 60, 80, 120
- ABRASIVE GRAIN:** Ceramic Alumina, Aluminum Oxide Blend, Aluminum Oxide
- 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



MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

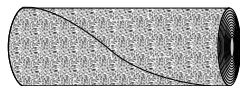
	BEST Highest Productivity – Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance – Low Initial Price
Stainless Steel / Titanium / Super Alloys	Norton Blaze R920	Norton Neon R326	Norton Metal R265
Mild Carbon Steel / Welds	Norton Blaze R920	Norton Neon R326	Norton Metal R265
Ferrous Metals / Cast Iron	Norton Blaze R920	Norton Neon R326	Norton Metal R265
Brass / Bronze / Aluminum	Norton Blaze R920	Norton Neon R326	Norton Metal R265



SHAPE RECOMMENDATION GUIDE

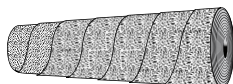
SHAPE

DESCRIPTION/APPLICATION



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



Spiral Rolls

- All spiral roll part numbers shown are full tapered, resin bond, half glued
- Half-tapered and sidewall-tapered are available for quotation as made-to-order products
- Quarter and full glue are also available for quotation as made-to-order products
- Ceramic Alumina blend spiral rolls are also available for quotation as made-to-order products

FEATURED PRODUCTS



NORTON BLAZE R920 CERAMIC ALUMINA CARTRIDGE ROLLS

BEST CHOICE 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
- Strong X-weight cotton backing

BENEFITS

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



NORTON NEON R326 ALUMINUM OXIDE BLEND CARTRIDGE ROLLS

BETTER CHOICE FOR STAINLESS STEEL AND OTHER HARD-TO-GRIND MATERIALS

FEATURES

- Aluminum oxide blend
- Durable X-weight cotton backing
- Grinding aid

BENEFITS

- Delivers cooler cut
- Ensures even wear
- Promotes cooler cut on stainless steel



NORTON METAL R265 ALUMINUM OXIDE CARTRIDGE ROLLS

EFFECTIVE STARTING SPECIFICATION FOR FLASH REMOVAL, POLISHING, OR REMOVING MACHINE TOOL MARKS AND EDGE BREAKING ON ALL TYPES OF METAL

FEATURES

- Aluminum oxide abrasive
- Advanced, full resin bond system

BENEFITS

- Controls aggressiveness while cool cutting
- Ensures edge adhesion and long life



Cartridge Rolls

TIER:	BEST	BETTER	GOOD
BRAND:	Norton	Norton	Norton
TRADENAME:	Blaze R920	Neon R326	Metal R265
ABRASIVE:	Ceramic Alumina	Aluminum Oxide Blend	Aluminum Oxide
BACKING:	Cotton	Cotton	Cotton Cloth
OTHER:	Supersized	Supersized	

SIZE (D x L x H)	GRIT	STD. PKG.	PART #	PART #	PART #
1/4 x 1 x 1/8	60	100			66261132175
	80	100			66261132178
	120	100			66261132179
1/4 x 1-1/2 x 1/8	60	100	66261194384	66261132201	66261132182
	80	100	66261194394	66261132202	66261132183
	120	100	66261194397	66261132203	66261132184
3/8 x 1 x 1/8	60	100			66261132185
	80	100			66261132186
	120	100			66261132187
3/8 x 1-1/2 x 1/8	60	100	66261194392	66261132204	66261132188
	80	100	66261194395	66261132205	66261132189
	120	100	66261194398	66261132206	66261132190
1/2 x 1 x 1/8	60	100			66261132191
	80	100			66261132192
	120	100			66261132193
1/2 x 1-1/2 x 1/8	60	100	66261194393	66261132207	66261132194
	80	100	66261194396	66261132208	66261132195
	120	100	66261194399	66261132209	66261132197
3/4 x 1-1/2 x 3/16	60	100			66261132198
	80	100			66261132199
	120	100			66261132200

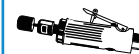
ALL CARTRIDGE ROLL PART NUMBERS SHOWN ARE RESIN BOND, HALF-GLUED QUARTER AND FULL GLUE ARE ALSO AVAILABLE FOR QUOTATION AS MADE-TO-ORDER PRODUCTS

Test Kits

Ceramic Alumina Cartridge Roll Test Kit

- Part # 66261066726
- Kit includes a variety of our ceramic alumina cartridge rolls, spiral rolls and mandrels in popular sizes and grits.





FEATURED PRODUCTS



NORTON BLAZE R920 CERAMIC ALUMINA SPIRAL ROLLS – FULL TAPER

BEST CHOICE 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
- Strong X-weight cotton backing

BENEFITS

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



NORTON NEON R326 ALUMINUM OXIDE BLEND SPIRAL ROLLS – FULL TAPER

BETTER CHOICE FOR STAINLESS STEEL AND OTHER HARD-TO-GRIND MATERIALS

FEATURES

- Aluminum oxide blend
- Durable X-weight cotton backing
- Grinding aid

BENEFITS

- Delivers cooler cut
- Ensures even wear
- Promotes cooler cut on stainless steel



NORTON METAL R265 ALUMINUM OXIDE SPIRAL ROLLS – FULL TAPER

ESPECIALLY USEFUL FOR COOLER GRINDING/POLISHING OF CHANNELS, FILLETS AND RADII, AND DEBURRING SMALL HOLES..

FEATURES

- Aluminum oxide abrasive
- Strong X-weight cotton backing construction
- Advanced, full resin bond system

BENEFITS

- Runs cooler and more efficiently; ideal for grinding exotic alloys
- For extended durability and even wear
- Provides exceptional grain retention and longer life

Spiral Rolls

SIZE (D x L x H)	GRIT	STD. PKG.	TIER:		
			BEST	BETTER	GOOD
			BRAND: Norton		
			TRADENAME: Blaze R920 Neon R326 Metal R265		
			ABRASIVE: Ceramic Alumina Aluminum Oxide Blend Aluminum Oxide		
			BACKING: Cotton Cotton Cotton Cloth		
			OTHER: Supersized Supersized		
SIZE (D x L x H)	GRIT	STD. PKG.	PART #	PART #	PART #
3/8 x 1 x 1/8	60	100			66261132211
	80	100			66261132212
	120	100			66261132213
3/8 x 1-1/2 x 1/8	60	100	66261194481	66261132224	66261132214
	80	100	66261194490	66261132225	66261132215
	120	100	66261194491	66261132226	66261132217
1/2 x 1 x 1/8	60	100			66261132218
	80	100			66261132219
	120	100			66261132220
1/2 x 1-1/2 x 1/8	60	100	66261194484	66261132227	66261132221
	80	100	66261194492	66261132228	66261132222
	120	100	66261194495	66261132229	66261132223



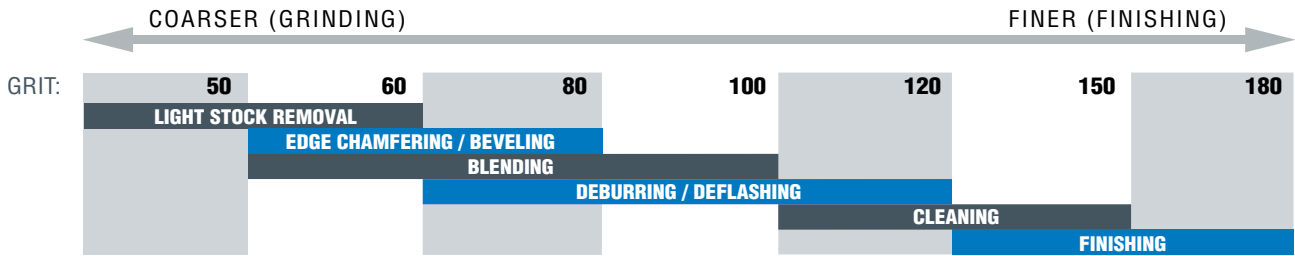
SQUARE & CROSS PADS, OVERLAP SLOTTED DISCS OVERVIEW

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:** 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
- KEY GRITS:** 60, 80, 120
- ABRASIVE GRAIN:** Ceramic, Aluminum Oxide Blend, 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

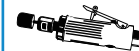


APPLICATION/GRIT RECOMMENDATION GUIDE



MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

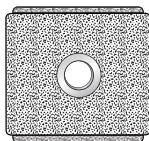
	BEST Highest Productivity – Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance – Low Initial Price
Stainless Steel / Titanium / Super Alloys	Norton Blaze R920	Norton Neon R326	Norton Metal R265
Mild Carbon Steel / Welds	Norton Blaze R920	Norton Neon R326	Norton Metal R265
Ferrous Metals / Cast Iron	Norton Blaze R920	Norton Neon R326	Norton Metal R265
Brass / Bronze / Aluminum	Norton Blaze R920	Norton Neon R326	Norton Metal R265



SHAPE RECOMMENDATION GUIDE

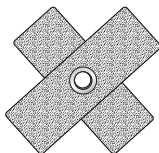
SHAPE

DESCRIPTION/APPLICATION



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

- The shape of 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 and are available for quotation as made-to-order products



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 available for quotation as made-to-order products

FEATURED PRODUCTS



NORTON BLAZE R920 CERAMIC ALUMINA

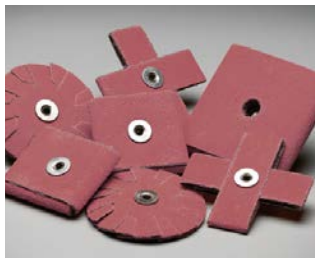
BEST FOR HARD-TO-GRIND MATERIALS – STAINLESS STEEL, COBALT, INCONEL, AND TITANIUM

FEATURES

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

BENEFITS

- Significantly faster cut rates versus any other abrasive
- Resists wear, resulting in 50%-300% longer life
- Greatest productivity; lowest total cost
- Cooler cutting, longer life
- Improved grain retention and longer life



NORTON NEON R326

BETTER CHOICE FOR STAINLESS STEEL AND OTHER HARD-TO-GRIND MATERIALS

FEATURES

- Aluminum oxide blend
- Durable X-weight cotton backing
- Grinding aid

BENEFITS

- Delivers cooler cut
- Ensures even wear
- Promotes cooler cut on stainless steel



NORTON METAL R265

ESPECIALLY USEFUL FOR COOLER GRINDING/POLISHING OF CHANNELS, FILLETS AND RADII, AND DEBURRING SMALL HOLES..

FEATURES

- Aluminum oxide abrasive
- Strong X-weight cotton backing construction
- Advanced, full resin bond system

BENEFITS

- Runs cooler and more efficiently; ideal for grinding exotic alloys
- For extended durability and even wear
- Provides exceptional grain retention and longer life



Square Pads

				TIER:	BEST	BETTER	GOOD
				ABRASIVE:	Norton	Norton	Norton
				TRADENAME:	Blaze R920	Neon R326	Metal R265
				OTHER:	Supersized	Supersized	
SIZE (L x W x T)	EYELET	GRIT	STD. PKG.	PART #	PART #	PART #	PART #
1 x 1 x 1/4	8-32	60	100				66261132258
		80	100				66261132259
		120	100				66261132262
2 x 2 x 1/2	1/4-20	60	100	66261194520	66261132273		66261132263
		80	100	66261194552	66261132279		66261132264
		120	100	66261194554	66261132281		66261132265
3 x 3 x 1/4	1/4-20	60	100	66261194531	66261132282		66261132266
		80	100	66261194555	66261132283		66261132268
		120	100	66261194556	66261132284		66261132269
3 x 3 x 1/2	1/4-20	60	100	66261194528	66261132285		66261132270
		80	100	66261194557	66261132286		66261132271
		120	100	66261194558	66261132287		66261132272

Cross Pads

					TIER:	BEST	BETTER	GOOD
					ABRASIVE:	Norton	Norton	Norton
					TRADENAME:	Blaze R920	Neon R326	Metal R265
					OTHER:	Supersized	Supersized	
SIZE (L x W x T)	PLY	EYELET	GRIT	STD. PKG.	PART #	PART #	PART #	PART #
1 x 1 x 3/8	8	3-48	60	100				66261132230
			80	100				66261132231
			120	100				66261132232
1-1/2 x 1-1/2 x 1/2	8	8-32	60	100	66261194496	66261132245		66261132233
			80	100	66261194508	66261132246		66261132234
			120	100	66261194511	66261132247		66261132235
2 x 2 x 1/2	8	8-32	60	100				66261132236
			80	100				66261132237
			120	100				66261132238
2 x 2 x 3/4	8	8-32	60	100	66261194502	66261132249		66261132239
			80	100	66261194513	66261132252		66261132240
			120	100	66261194516	66261132253		66261132241
3 x 3 x 1	8	1/4-20	60	100	66261194504	66261132255		66261132242
			80	100	66261194549	66261132256		66261132243
			120	100	66261194551	66261132257		66261132244

Overlap Slotted Discs

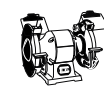
				TIER:	BEST	BETTER	GOOD
				BRAND:	Norton	Norton	Norton
				TRADENAME:	Blaze R920	Neon R326	Metal R265
				OTHER:	Supersized, 2-Ply	Supersized, 2 Per Set	4 Per Set
SIZE (DIA.)	EYELET	GRIT	STD. PKG.	PART #	PART #	PART #	PART #
1-1/2	8-32	60	100	66261195051	66261132297		66261132288
		80	100	66261195368	66261132298		66261132289
		120	100	66261195367	66261132299		66261132290
2	8-32	60	100	66261195054	66261132300		66261132291
		80	100	66261195055	66261132301		66261132292
		120	100	66261195056	66261132302		66261132293
3	1/4-20	60	100	66261195057	66261132303		66261132294
		80	100	66261195058	66261132304		66261132295
		120	100	66261195059	66261132305		66261132296

A robust stationary grinding machine used for rough grinding of larger workpieces that's a staple tool of every workshop.



SECTION BY APPLICATION:

- Deburring – Stock Removal



DEBURRING

Flange-mounted flap wheels have a continual rate of wear exposing new abrasive grain. Their design makes them ideal for sanding contours and uneven surfaces while delivering a consistent finish with a uniform rate of cut, especially on aluminum and stainless steel parts.

APPLICATIONS:

- Deburring
- Metal fabrication
- Blending welds
- Cleaning & finishing threaded parts



LARGE FLAP WHEELS OVERVIEW

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 arbor holes: 3-1/2" - 16" diameter
- GRIT RANGE:** 40 - 320
- ABRASIVE GRAIN:** Aluminum Oxide Blend, Aluminum Oxide

SHAPE RECOMMENDATION GUIDE

SHAPE

DESCRIPTION/APPLICATION



10" – 16" Large Flap Wheels with Arbor Holes

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

Wide range of applications:

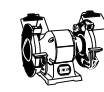
- For polishing/grinding jobs in production work as well as clean-up and maintenance jobs
- Work on metals, plastic, rubber and wood

Easy to operate:

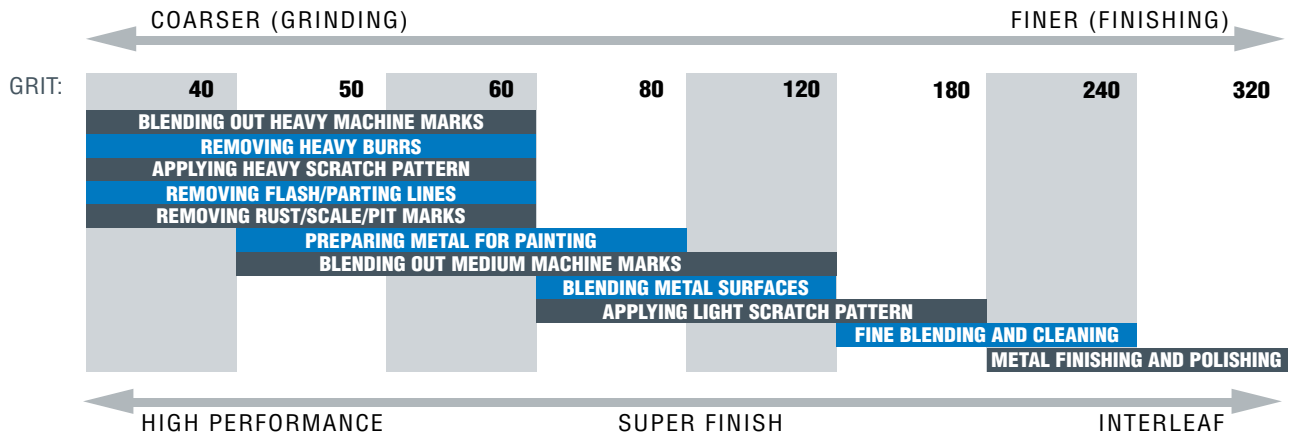
- No adjustments, dressing, or preparation required before or during operation

Fewer rejected parts:

- More forgiving than other abrasive products
- Reduce the possibility of flattening, gouging and surface deformation



APPLICATION/GRIT RECOMMENDATION GUIDE



SEE NON-WOVEN FLAP WHEEL SECTION FOR INTERLEAF FLAP WHEELS

MATERIAL/APPLICATION-TO-PRODUCT RECOMMENDATION GUIDE

	GOOD Excellent Blend of Performance and Price	GOOD Consistent Performance – Low Initial Price
Stainless Steel / Titanium / Super Alloys	Norton Neon R369	Norton Metal R207
Mild Carbon Steel / Welds	Norton Neon R369	Norton Metal R207
Ferrous Metals / Cast Iron	Norton Neon R369	Norton Metal R207
Brass / Bronze / Aluminum	Norton Neon R369	Norton Metal R207

FEATURED PRODUCTS



NORTON NEON R369

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

FEATURES

- Long-lasting aluminum oxide blend 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



NORTON METAL R207

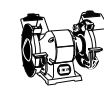
GOOD CHOICE WHERE SUPERIOR FINISH IS REQUIRED, OR ON LOW-PRESSURE APPLICATIONS

FEATURES

- Long-lasting aluminum oxide abrasive blend
- Flexible cotton backing

BENEFITS

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



10" – 16" Large Flap Wheels with Arbor Holes

TIER:	GOOD	GOOD
BRAND:	Norton	Norton
TRADENAME:	NEON R369	METAL R207
ABRASIVE:	Aluminum Oxide Blend	Aluminum Oxide

SIZE (D x W x SK.)	GRIT	MAX. RPM	STD. PKG.	PART #	PART #
4 x 1 x 5/8	60	12,000	10		63642502673
	80	12,000	10		63642502674
	120	12,000	10		63642502675
5 x 1 x 5/8	40			66623399282	
	60			66623399283	
	80			66623399284	
	120			66623399285	
6 x 1 x 1	60	6,000	5	69957394198	63642502680
	80	6,000	5	69957394199	63642502681
	120	6,000	5	69957394200	63642502682
6 x 1-1/2 x 1	40	6,000	5	66623399286	
	60	6,000	5	66623399287	63642502686
	80	6,000	5	66623399288	63642502687
	120	6,000	5	66623399289	
6 x 2 x 1	40	6,000	5	66623399290	
	60	6,000	5	66623399291	63642502691
	80	6,000	5	66623399292	63642502692
	120	6,000	5	66623399293	63642502694
	180	6,000	5	66623399294	
8 x 1 x 1	60	4,500	5	66623399295	
	80	4,500	5	66623399296	
	120	4,500	5	66623399297	
8 x 2 x 1	60	4,500	5		63642502700
	80	4,500	5		63642502701



Safety Icons

Watch for and obey these safety icons.



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.



SPEEDS



FACE PROTECTION



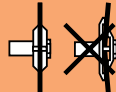
WHEEL GUARD



SAFETY GLOVES



HEARING PROTECTION



FLANGES



SAFETY GUIDES



DUST PROTECTION



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.

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.

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Product Quality Complaints

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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.

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BlueFire®

"Reshaping Your World"®

Neon®



NORTON

SAINT-GOBAIN

BLAZE[®]

MAKING CONVENTIONAL ABRASIVE TECHNOLOGY OUTDATED

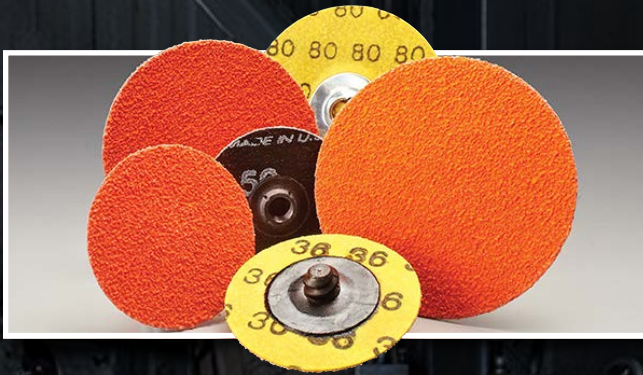
The revolutionary ceramic grain technology of Norton Blaze provides unrivaled performance in grinding and finishing.

- Longest Life.
- Coolest Cut.
- Best Finish.
- Lowest Overall Grinding Cost.

We know abrasives. And we know how to put our product innovation to work for you. Test us for yourself.

NORTON | SPECIALTIES MARKET

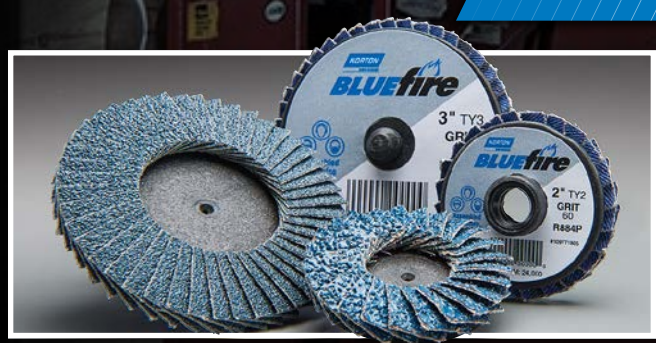
For additional items not included in this catalog, please refer to our other market-based catalogs online at www.nortonabrasives.com for availability information.



NORTON **BLAZE**

Blaze Your Way to Greater Productivity.

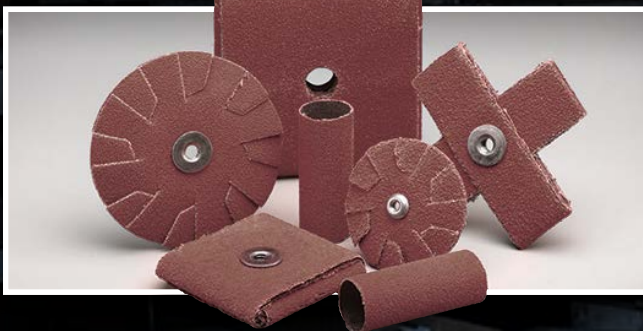
The latest-generation, cooler cutting ceramic abrasive grain of Norton Blaze delivers highest productivity on the toughest jobs without the added operator pressure or heavy tool.



NORTON **BLUEfire**

Performance on Fire.

Infused with a proprietary NorZon grain upgrade, Norton BlueFire products enhance performance in faster removal rate,



NORTON **NEON**

Power Up Affordable Versatility.

The propriety grain technology and improved resin bond in our Norton Neon product delivers up to 3X the life and cut rate at an economical initial price.



NORTON **METAL**

Quality Without Compromise.

The high-performance aluminum oxide grain of Norton Metal provides a low initial price point as a starting specification for all metals with consistent performance.

BEST

Highest Productivity - Lowest Total Cost

BETTER

Excellent Blend of Performance and Price

GOOD

Consistent Performance - Low Initial Price

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