

3M

Grindline Express

Coated Abrasive, Surface Conditioning
and Superabrasive Products





Blue
1 Hi-It

3M

Three-M-ite® Elek-Tro-Cu
Cloth Utility Roll

THREE-M-ITE
16295

THREE-M-ITE

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Introduction

The Grindline Express catalog contains a wide variety of Scotch-Brite surface conditioning products as well as a large assortment of coated abrasive products designed to meet the needs of both production applications and day to day MRO situations. Choose from hand pads, rolls, discs, wheels, belts and various bench area products. And, of course, we offer a complete line of accessories to optimize product performance. 3M abrasive products are used on most materials including ferrous and non-ferrous metals, specialized alloys, wood, plastics, composites, ceramics, glass, leather and rubber. Types of operations include grinding, deburring, cleaning, finishing, polishing and blending.

How to use this catalog

This catalog is designed to be as “user friendly” as possible. We have divided the catalog into sections: Hand Pads, Sheets, Discs, Rolls, etc. You will see that each section begins with a page that includes application photos and suggested uses. Each section includes several tables containing the various products. Simply find the size and grade for you, make a note of the UPC number and order the product from your 3M Abrasive Systems Division Distributor.

Splices (where applicable) are shown at the bottom of the page.

Kut Stock items are identified with red UPC numbers.

Thanks for choosing 3M coated abrasive, surface conditioning and superabrasive products.

Coated Abrasives

7-5-4

Backed by over 90 years of industrial experience, 3M Research has been a proven leader in developing new coated abrasive products and systems for modern production operations.

In designing the versatile line of products, 3M draws from a proven formula that's your assurance of dependable performance.

The formula is: 7 Minerals...5 Backings...4 Bonds.

7 Minerals

Minerals perform the basic job of cutting, 3M offers seven kinds of natural and synthetic minerals to provide a rapid cut and long working life.

Natural Minerals: emery, garnet.

Synthetic Minerals: ceramic aluminum oxide, aluminum oxide, alumina zirconia, silicon carbide, industrial diamonds.

5 Backings

They're the platforms that carry and support the mineral grains.

The five categories include paper, cloth, fibre, paper and cloth combination and polyester film.

4 Bonds

3M Coated Abrasives have two layers of adhesives: a “make” coat to anchor the mineral, and a “size” coat to lock the mineral to the backing.

3M offers four types of bonds; glue, resin over glue, resin over resin and waterproof.

Remember the formula: 7 Minerals...5 Backings...4 Bonds. It multiplies into an almost infinite combination of practical, durable tools. Your 3M representative will help you find the right combination to do the best job for you.

Coated Abrasives should be selected carefully, matching the coated abrasive qualities to the materials and tools used and the desired results. The answers to the questions below will help determine the best coated abrasive to use for a specific application:

Kind of substrate material—What is the composition of the surface to be finished? What type of mineral is required to cut the substrate? Does it have to be sanded wet or dry? Will it tend to load the abrasive? The basic material is an important factor in selecting the proper coated abrasive product.

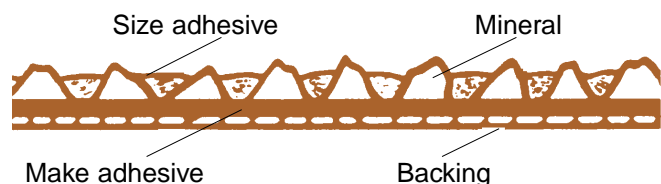
Shape and condition—Is the surface flat or contoured? Will the surface require a great deal of stock removal to level a surface or to remove coats of paint or varnish, or does the surface just have to be finished in preparation for coating?

Equipment—The equipment at hand will influence the form of coated abrasive. Some equipment requires pre-fabricated belts while others require cut sheets or discs.

Finish—What type of final finish is needed? A rough finish or a smooth finish? The finish determines the grade or grade sequence to use.

3M manufactures coated abrasives in many shapes and sizes such as the standard sheets, rolls, discs, and belts. Also available are many specialized abrasive constructions such as PG wheels, evenrun bands, cartridge rolls, fiber discs, adhesive backed abrasives, and others.

Coated abrasive grades—Grade sizes are the size of the mineral grain. There are 22 common grades. They range from the coarsest, grade 12, to an extremely fine powder like mineral form, grade 600. For many newer applications, minerals are also produced in more accurate gradations which are designated by the average particle diameter in microns. There are 12 micron grades. An open coat abrasive has mineral grains that cover about 40% to 70% of the backing. An open coat abrasive is used where the material surface being abraded tends to clog or load the coated abrasive surface. A closed coat abrasive has mineral grains covering 100% of the abrasive backing. This construction is used where loading is less of a prob-



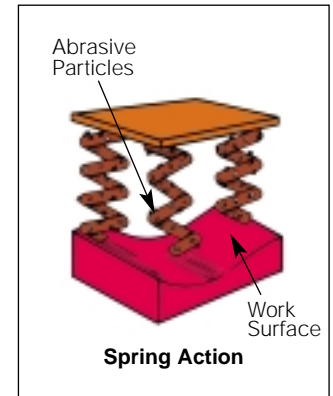
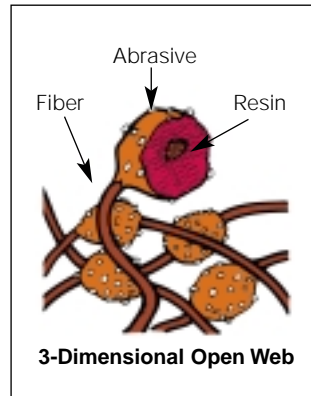
Surface Conditioning Products

Mineral, Resin and Fiber: Building Blocks for Scotch-Brite™ Surface Conditioning Products

Synthetic fibers and abrasive particles are combined and bonded to form a conformable, three-dimensional, open web material. The exceptional performance characteristics of this open web technology have been demonstrated time after time in countless factories and shops.

- Controlled abrasive action helps prevent undercutting or gouging so there is less chance of disturbing critical tolerances.
- Fresh abrasive is continually exposed to the work surface to deliver consistent, uniform results and to provide long product life.
- Uniform, close-tolerance construction results in smooth running wheels, reducing operator fatigue.
- The open web allows air to circulate for cool operation so there's less risk of warping or discoloring the part.
- The open web resists loading to provide consistent surface preparation and finishing action and long product life.

- Conformable action of the web allows the wheels to follow contours and edges, and to maintain uniform contact with the surface.
- Synthetic fibers eliminate the danger of loose flying wires commonly associated with wire brushes.





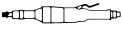


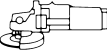
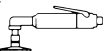


Surface finishes generated by Surface Conditioning

Mineral Type	Grade	Finishes Generated (Micro-Inch Range)		Coated Abrasive Grade Equivalent
		Aluminum	Stainless Steel	
A	Coarse	130-150	62-72	80-150
A	Medium	80-100	32-40	150-180
A	Very Fine	16-35	6-12	220-320
S	Super Fine	8-12	4-6	320-600

Safety

Read and follow instructions for use. Always use appropriate protective glasses, face shields and body protection. Do not exceed maximum operating RPM. Use guards provided with machine. Follow safety operation procedures posted in work areas.

Surface Conditioning Products

Guide to Product Selection by Application and Tool				
Tool	Cleaning	Deburring	Polishing	Finishing
Off Hand 	7447, 6448 Hand Pads	7440, 6444 Hand Pads	7448, 7445 Hand Pads	7446, 7447 Hand Pads
Drill Motor 	Clean and Strip Discs High Strength Discs A MED	Unitized Wheels High Strength Discs A VFN	High Strength Discs A VFN	High Strength Discs A MED
Straight Grinder 	Clean and Strip Discs High Strength Discs A MED	EXL Wheels		Surface Conditioning Belts (with Expander Wheel)
Die Grinder 	Unitized Wheels	Unitized Wheels	Unitized Wheels	
Right Angle Grinder 	Surface Conditioning Discs	Surface Conditioning Discs	Surface Conditioning Discs	Surface Conditioning Discs
Mini-Angle Grinder 	Clean and Strip Cup Wheels		Clean and Strip Cup Wheels	
Right Angle Die Grinder 	Roloc™ Surface Conditioning Discs	Roloc™ Surface Conditioning Discs Roloc™ Unitized Wheels	Roloc™ Surface Conditioning Discs Roloc™ Unitized Wheels	Roloc™ Surface Conditioning Discs Roloc™ Unitized Wheels
Belt Sander 	Surface Conditioning Belts	Surface Conditioning Belts	Surface Conditioning Belts	Surface Conditioning Belts
Bench Motor 		EXL Wheels		

Performance Advantages Over Competitive Products				
Competitive Product	Scotch-Brite™ Products			
	Cleaning	Deburring	Polishing	Finishing
Steel Wool	Leaves No Metal Fines No Carbon Contamination on Surface		Leaves No Metal Fines No Carbon Contamination on Surface	Leaves No Metal Fines No Oil Contamination
Sandpaper: Sheets, Rolls, Belts and Flap Wheels	Work Piece Protected Consistent Finish Resists Loading	Work Piece Protected No Secondary Burrs Uniform Radius	Work Piece Protected No Secondary Burrs	Consistent Finish Resists Loading Work Piece Protected
Wire Brushes	Removes all Surface Contaminants Doesn't Fling Wires	Complete Burr Removal Doesn't Fling Wires Uniform Radius		
Buff and Compound		Cleaner/Faster	Cleaner/Faster	Cleaner/Faster
Tampico and Bristle	Faster Thorough Cleaning	Better Radiused Edge		
Files, Burrs and Scrapers	Won't Damage Piece Faster	Won't Damage Piece Faster		
Set-Up Wheels		No Undercutting Cleaner	Cleaner/Faster Less Set-Up Time	Cleaner/Faster Less Set-Up Time
Sand Blasting	No Airborne Particles to Be Contained			
Rubber Bonded Wheels	Cleaner Finish Faster	Cleaner Finish Faster	Cleaner Finish Faster	

Factors Affecting Performance of Surface Conditioning Products

Product Surface Speed

Because product speed has a significant effect on performance (cut, life, and finish), it is important to select the proper speed for a particular operation and work piece.

Generally, low speeds are desired for generating very uniform satin finishes, for finishing aluminum alloys without lubricants and for use on composite or other soft material applications. High speeds are recommended when it is desired to remove or blend surface imperfections. This high speed will result in faster cut along with finer finishes.

Recommended Operating Speeds

Decorative Finishing	500 - 3000 SFPM
Composites / Soft Materials	1200 - 2700 SFPM
Cleaning and Conditioning	2000 - 5000 SFPM
Prepolishing	2000 - 7000 SFPM
Oxide Removal	4500 - 6500 SFPM
Deburring	5000 - 6500 SFPM
Blending / Polishing	6000 - 8000 SFPM
Cutdown Prior to Buffing	7000 - 8500 SFPM

Work Pressure

It is important that adequate pressure be used to generate the desired cut, finish, and life. Excess pressure, however, can result in decreased product life. Scotch-Brite wheels operate under work pressures of 10 to 40 pounds per inch of width. In the case of harder (6 - 9 density) products, high pressures are usually necessary to gain the full benefit of the wheel.

Feed Speed (Dwell Time)

Feed speed is directly related to product life, finish and cut. Lower feed speed means longer dwell time and, thus, more work can be done on the workpiece. When an operation is set up an attempt should be made to use the fastest feed speed possible to obtain the desired results. This will give the best economic result from the standpoint of product life.

In general, if product speed remains constant, fast feed speeds increase scratch length and, conversely, slow feed speeds shorten scratch length. This technique can be used to generate a particular decorative finish.

Oscillation

In many cases, such as decorative finishing and cleaning, it is desirable to incorporate an oscillatory motion for the purpose of increasing cut, breaking up directional scratch, and producing a uniform finish. A good starting point is 150 CPM (cycles per minute) at a stroke of $\frac{3}{8}$ inches. This may be varied depending on the particular result desired.

In off-hand operations, moving the part from side to side will provide an oscillating action and more uniform finish.

Lubricant – Coolant

Coolants, like water and some water soluble oils, reduce heat resulting in longer product life and greater cut. In the case of most oils or tallow lubricants, surface roughness can be reduced. The higher viscosity lubricants produce lower surface roughness, i.e., grease produces a finer surface finish than oil. In automatic or semi-automatic operations, it is desirable to use lubricants or coolants whenever possible.

Product Hardness (Density)

3M wheels are available in a number of densities or hardnesses. Generally, the softer products, 2, 3, 4, and 5 density, are used for decorative finishing. They will conform more readily to surface contours along with generating a more uniform finish. The harder products, 6, 7, 8 and 9 density, are to be used for the more difficult blending, cleaning and deburring operations.

Surface Speed Conversion Chart

R.P.M. at Arbor Or Spindle	Diameter of wheels								
	2	4	6	8	10	12	14	16	18
	Surface speed in feet per minute (S.F.P.M.)								
100	52	104	157	207	260	314	364	419	471
200	105	208	314	414	520	628	728	838	942
300	157	312	471	621	780	942	1092	1257	1414
400	209	416	628	828	1040	1256	1456	1676	1885
500	262	520	785	1045	1310	1570	1820	2094	2356
600	314	630	940	1255	1570	1885	2195	2513	2827
700	367	735	1100	1465	1835	2200	2560	2932	3299
800	419	837	1256	1675	2094	2513	2932	3351	3770
900	471	942	1413	1885	2356	2827	3298	3770	4241
1000	524	1047	1570	2094	2618	3141	3665	4189	4712
1100	576	1152	1727	2304	2880	3455	4031	4608	5184
1200	628	1256	1884	2513	3142	3769	4398	5027	5655
1300	681	1361	2042	2723	3404	4084	4764	5445	6126
1400	733	1466	2199	2932	3666	4398	5131	5864	6597
1500	785	1571	2356	3142	3927	4712	5497	6283	7069
1600	838	1675	2513	3351	4189	5026	5864	6702	7540
1700	890	1780	2670	3560	4451	5340	6230	7121	8011
1800	942	1885	2827	3770	4713	5650	6597	7540	8482
1900	995	1989	2984	3979	4975	5969	6963	7959	8954
2000	1047	2094	3141	4189	5236	6283	7330	8378	9425
2100	1100	2199	3298	4398	5498	6597	7696	8796	9896
2200	1152	2304	3455	4608	5760	6911	8063	9215	10367
2300	1204	2408	3612	4817	6022	7225	8429	9634	10839
2400	1257	2513	3770	5027	6284	7540	8796	10053	11310
2500	1309	2618	3927	5236	6545	7854	9162	10472	11781
2600	1361	2722	4084	5445	6807	8168	9529	10891	12252
2700	1414	2827	4241	5655	7069	8482	9895	11310	12723
2800	1466	2932	4398	5864	7331	8796	10262	11729	13195
2900	1518	3037	4555	6074	7592	9110	10629	12148	13666
3000	1571	3141	4712	6283	7854	9425	10996	12566	14137
3200	1676	3351	5026	6702	8378	10053	11729	13404	15080
3400	1780	3560	5340	7121	8901	10681	12462	14242	16022
3600	1885	3769	5654	7539	9425	11309	13193	15080	16965
3800	1990	3979	5969	7958	9948	11938	13927	15917	17907
4000	2094	4188	6283	8377	10472	12566	14661	16755	18850

Scotch-Brite™ Hand Pads and Rolls

When surfaces need to be cleaned, scuffed, deburred or finished by hand, Scotch-Brite hand pads and rolls outperform steel wool, wire brushes and other non-woven hand pads. They cut fast and leave a more consistent finish than these other abrasives. Scotch-Brite material will never rust and can be used with water or solvents. Truly your best choice for cleaning and finishing surfaces by hand. The world's leading surface conditioning products.

Hand Pads

A select group of Scotch-Brite webs cut into 6" x 9" (the #5440 are 4" x 6") sheets available in a variety of grades ranging from light duty cleansing to heavy duty.

Product	Color	Packaging	UPC No.
5440 (4" x 6")	Tan	10 pads/box 4 boxes/case	048011-16983
7440	Tan	10 pads/box 4 boxes/case	048011-04050
7440B	Tan	40 pads/box bulk pack	048011-18451
7445	White	20 pads/box 3 boxes/case	048011-16976
7445B	White	60 pads/box bulk pack	048011-17637
7446	Gray	10 pads/box 4 boxes/case	048011-04051
7446B	Gray	40 pads/box bulk pack	048011-18453
7447	Maroon	20 pads/box 3 boxes/case	048011-04029
7447B	Maroon	60 pads/case bulk pack	048011-04229
7448	Light Gray	20 pads/box 3 boxes/case	048011-04028
7448B	Light Gray	60 pads/case bulk pack	048011-14049

Sponge Laminates

Consist of Scotch-Brite material laminated to a 3½" x 6¼" cellulose sponge.

Product	Color	Packaging	UPC No.
74	Yellow/ Green	20 sponges/case bulk pack	048011-20688



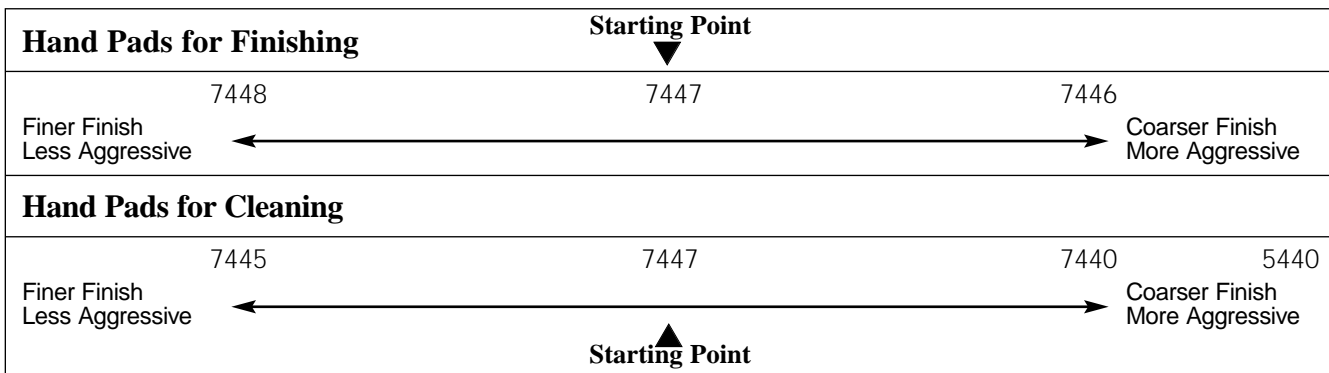
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Production Hand Pad No. 8447

This Scotch-Brite pad delivers higher cut, longer life and a better finish. Use on aluminum, stainless steel, plastics, wood and fiberglass. Ideal for paint preparations, surface blending and scuffing. 3M's patented perforated pad tears easily into two convenient 4 1/2" x 6" pads.

Product	Color	Packaging	UPC No.
8447	Maroon	20 pads/box 3 boxes/case	048011-24037



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Clean and Finish Rolls

Can be used for hand cleaning, blending, finishing. Can be cut to desired length for oscillating sanders.

Color: Type A - Maroon
Type S - Gray
Type F - White



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Cut and Polish Rolls

Scotch-Brite Cut and Polish Rolls outlast and outperform ordinary emery cloth and utility rolls around angles, odd shapes, inside and outside diameters.

Applications: Stropping pipe ends for sweat soldering or welding, general cleaning and deburring odd shaped materials.

Color: Tan



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Size	Rolls/Case	Mineral Type/Grade										UPC No.*
		A CRS	A MED	A FIN	A VFN	F SFN	S MED	S FIN	S VFN	S SFN	S ULF	
Clean and Finish Rolls												
2" x 30 ft.	6		00292	00291	00260							
3" x 30 ft.	4			00296	00261						00299	
4" x 30 ft.	3	00302	00264	00265	00266	00263	05170	00269	00270	00267	00268	00262
5" x 30 ft.	2				00273							
6" x 30 ft.	2	00306	00274	00275	00276	00307			00278	00308	00277	00252
Cut and Polish Rolls												
1" x 30 ft.	12		04085		05733							
2" x 30 ft.	6		05206									
4" x 30 ft.	3		05207									
6" x 30 ft.	2		09024									

* Add Prefix 048011- to UPC No. when ordering.

Sheet Rolls

Multi-Flex Abrasive Sheets. A tough, highly conformable, sharp cutting, non-woven abrasive for cleaning and finishing surfaces by hand.

Color: A VFN - Purple
S ULF - Gray

Size	Sheets/Roll	Grade and UPC No.	
		A VFN	S ULF
8" x 4"	60	07521	07522

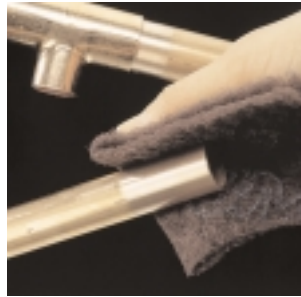
* Add Prefix 051131- to UPC No. when ordering.



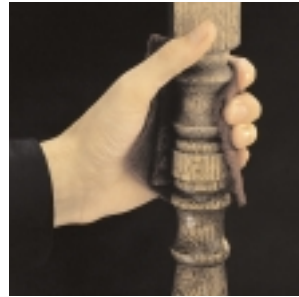
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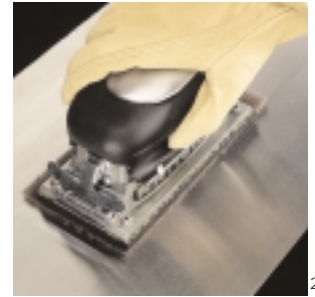
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Hand Pad Trial Pack

Scotch-Brite™ hand pads are made of durable, three-dimensional, non-woven nylon web impregnated with abrasive minerals to outperform steel wool, wire brushes and other non-woven hand pads.

Product	Packs/Case	Contents	UPC No.
961S	5	1 Ea. Scrubbing Sponge 74	048011-17144
	5	1 Ea. Light Duty Pad 6448	
	5	1 Ea. Heavy Duty Pad 7440	
	5	1 Ea. Light Duty Cleansing Pad 7445	
	5	1 Ea. Blending Pad 7446	
	5	1 Ea. General Purpose Pad 7447	
	5	1 Ea. Ultra Fine Pad 7448	
	5	1 Ea. Production Pad 8447	
	5	1 Ea. TWIST-LOK Pad Holder 961	

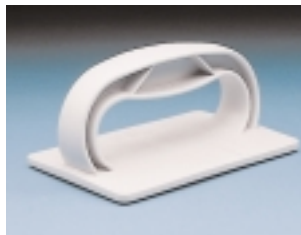


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Accessories – Hand Pads and Rolls

Pad Holders No. 961

The Twist-Lok Pad Holder No. 961 can be used with hand pads and roll material cut to 4" x 6".



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Product	Holders/Case	UPC No.
961	10	048011-09493

3M™ Mini Mandrel No. 935

Use with 1" x 1½" pieces of Scotch-Brite material to fit into tight areas. The overall mandrel length is 2⅞" with a ¼" shank.



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Product	Mandrels/Case	UPC No.
935	5	048011-04020

Maximum Operating RPMs: 14,000

Coated Abrasive Sheets and Rolls

3M™ 341T 3M Blue Grit Utility Cloth X Wt.

3M™ 311T 3M Blue Grit Utility Cloth J Wt.

Tough aluminum oxide mineral bonded to cloth with 3M's heat resistant Resinite™ system. This special bonding technique allows for a more uniform coating. Your advantage is a consistent scratch pattern.

Get the "TRUE BLUE" advantage in all operations: Contour sanding, strapping, deburring, rust removal, cut-down prior to polishing, all general maintenance work.

3M™ 241K Three-M-ite™ Elek-Tro-Cut™ X Wt.

3M™ 211K Three-M-ite™ Elek-Tro-Cut™ Cloth J Wt.

These products have many uses in both production and maintenance jobs. They have a flexible cloth backing and are coated with aluminum oxide mineral.

3M™ 001K Crystal Bay™ Crocus Cloth

For very fine metal finishing.

3M™ 011K Crystal Bay™ Emery Cloth

Glue bond, closed coat, for non-technical use by hand in sheet form.



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Sheets

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*							
			36X	40X	50X	60X	80J	100J	120J	150J
9" x 11"	341T/311T	50/250								
9" x 11"	241K/211K	50/250								
9" x 11"	001K	50/250								
9" x 11"	011K	50/250								

* Add Prefix 051144- to UPC No. when ordering.

3M™ 341T 3M Blue Grit Utility Cloth X Wt.
 3M™ 311T 3M Blue Grit Utility Cloth J Wt.
 3M™ 241K Three-M-ite™ Elek-Tro-Cut™ X Wt.
 (continued)

3M™ 211K Three-M-ite™ Elek-Tro-Cut™ Cloth J Wt.
 3M™ 001K Crystal Bay™ Crocus Cloth
 3M™ 001K Crystal Bay™ Emery Cloth

Rolls

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*										
			40X	50X	60X	80J	100J	120J	150J	180J	220J	240J	280J
1" x 50 yds.	341T/311T	1/5		05112	05111	05110	05109	05108	05107	05106	05105	05104	05103
1 1/2" x 50 yds.	341T/311T	1/5		05127	05126	05125	05124	05123	05122	05121	05120	05119	05118
2" x 50 yds.	341T/311T	1/5	05143	05142	05141	05140	05139	05138	05137	05136	05135	05134	05133
1" x 50 yds.	241K/211K	1/5	40X	50X	60X	80J	100J	120J	150J	180J	220J	240J	280J
				05011	05010	05009	05008	05007	05006	05005	05004	05003	
			320J	400J	500J								
			05002	05001	05000								
1 1/2" x 50 yds.	241K/211K	1/5	40X	50X	60X	80J	100J	120J	150J	180J	220J	240J	280J
				05032	05031	05030	05029	05028	05027	05026	05025	05024	
			320J	400J	500J								
			05022	05021	05020								
2" x 50 yds.	241K/211K	1/5	36X	50X	60X	80J	100J	120J	150J	180J	220J	240J	280J
			05054	05052	05051	05050	05049	05048	05047	05046	05045	05044	05043
			320J	400J	500J								
			05042	05041	05040								

* Add Prefix 051144- to UPC No. when ordering.

Garnet Abrasive Sheets

3M™ 110N, 130N, 140N A, C, D Wt.
 Grades 50–280

Garnet sandpaper is the traditional choice of cabinet makers and wood workers for producing smooth, fine finishes on bare



28

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*										
			50	60	80	100	120	150	180	220	240	280	
9" x 11"	140N (D Wt)	50 slv/500	10035	10034	10033								
	130N (C Wt)	100 slv/1000				10032	10031	10030					
	110N (A Wt)	100 slv/1000				10006	10005	10004	10003	10002	10001	10000	

* Add Prefix 051144- to UPC No. when ordering.

Production™ Abrasive Sheets

3M™ 326U, 336U, 346U A, C, D Wt.
 Grades 36–220

3M Production sandpaper is an almost universal abrasive. These long lasting sheets are made with aluminum oxide, a synthetically produced mineral known for its sharpness and durability. It is ideal for hand or machine sanding of many different materials, including woods, metals, paints, plastics, and fiberglass.



29

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*										
			36	40	50	60	80	100	120	150	180	220	
9" x 11"	346U (D Wt)	50 slv/250	02119										
		50 slv/500		02118	02117	02116	02115						
	336U (C Wt)	100 slv/1000						02114	02113	02112			
	326U (A Wt)	100 slv/1000									02104	02103	

* Add Prefix 051144- to UPC No. when ordering.

9" x 11" Tri-M-Ite™ Fre-Cut™ Abrasive Sheets

These sandpaper sheets are ideal for dry sanding between coats of varnish, paint, and other finishes. The abrasive surface has been treated with white stearate, a coating that resists clogging and extends abrasive life. The abrasive is silicon carbide, a sharp and extremely hard synthetic mineral that cuts fast and satin smooth.



3M™ 415U Tri-M-ite Fre-Cut Paper Open Coat A Wt.

A specially treated open coat silicon carbide paper for use whenever filling or loading of the abrasive is a problem. The lightweight paper stock is intended for use with hand pad and disc sanders. These sheets offer a better finish with fewer paper changes for finishing and blending operations, white wood sanding, plastics, and fiberglass.

3M™ 435N Tri-M-ite Fre-Cut Paper Open Coat C Wt.

This is a heavier, more durable sandpaper and is intended to minimize filling or loading in general purpose sanding.

3M™ 405N Tri-M-ite Fre-Cut Paper Open Coat A Wt. Type F (Flexible)

3M™ 414N Tri-M-ite Fre-Cut Paper Open Coat A Wt. T2

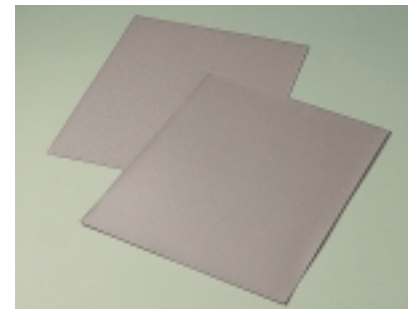
Flexible A weight paper ideal for hand sanding operations that involve contoured shapes. Designed to provide conformability that exceeds that of conventional abrasive sheets.

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*											
			80	100	120	150	180	220	240	280	320	400	500	
9" x 11"	415U	100 slv/1000		14175	14177	14179	14181	14183						
	435N	100 slv/1000		02356	02355	02354	02353							
	405N	100 slv/1000				10248	10247	10246	10245	10244	10243	10241	10240	
	414N	100 slv/1000	02352	02351	02350	02349	02348	02347	02346	02345	02344	02342		

* Add Prefix 051144- to UPC No. when ordering.

9" x 11" Wetordry™ Abrasive Sheets

3M Wetordry™ sheets use a silicon carbide abrasive for efficient cutting and high wear resistance. They feature a water-proof resin-over-resin bond that resists heat and holds the abrasive particles more firmly than conventional glue or resin-over-glue bonds. Because the sheets are resistant to oil and water, they can be used with a lubricant to reduce clogging, extend abrasive life, and improve finish.



3M™ 413Q Wetordry Tri-M-ite Paper A Wt.

3M™ 431Q Wetordry Tri-M-ite Paper C Wt.

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*											
			60	80	100	120	150	180	220	240	280	320	360	400
9" x 11"	413Q	50 slv/500							02007			02004	02003	02002
		50 slv/250								02006	02005			
	431Q	50 slv/500	02019							10699		10697		10695
		50 slv/250		02018	02017	02016	02015	02014						

* Add Prefix 051144- to UPC No. when ordering.

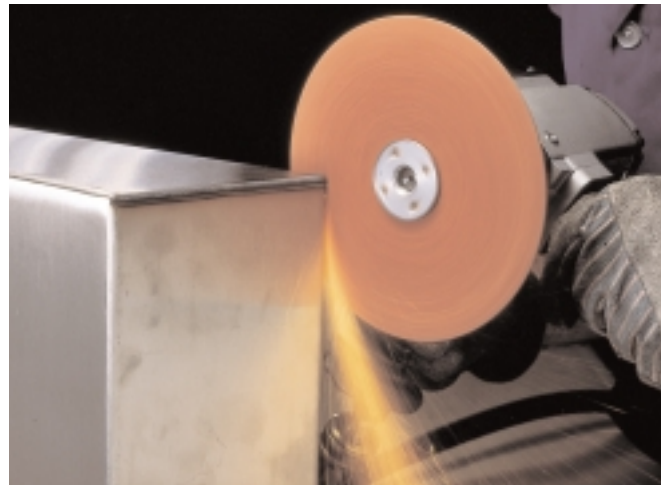
Fibre Discs

3M™ 785C Regalite™ Polycut Fibre

3M 785C Discs were developed specifically for stainless steel grinding and blending. This special blend of Cubitron™ Mineral and aluminum oxide minerals with a grinding aid was precisely designed for stainless steel but is also suitable for some combinations of stainless steel and carbon steel.

3M 785C is a proven performer for stainless steel fabrication, food service and restaurant equipment, dairy equipment and food products machinery.

Packaging: Bulk



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Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*						
			24	36	50	60	80	P100	P120
4 1/2" x 7/8"	785C	100		80660	80661	80662	80663		
5" x 7/8"	785C	100		13975	13976	13977	13978	80654	80655
5" x 7/8"	785C	25/100	13931	13930	13928		13926		
7" x 7/8"	785C	100		13967	13968	13969	13970	80656	80657
7" x 7/8"	785C	25/100	13937	13936	13934	13933	13932		
9 1/8" x 7/8"	785C	25/100	13943	13942	13940	13939	13938		

* Add Prefix 051144- to UPC No. when ordering.

3M™ 280C – 3M Type D Open Coat

These are full resin bond aluminum oxide fibre discs and are designed for use on portable tools with proper backup pads. Type C is closed coat and Type D is open. Type XY also incorporates a grinding aid. Type C is preferred in most industrial and automotive applications while Type D is used where loading occurs such as on solder, paint, plastic, etc.

3M™ 281C Fiber Disc

Packaging: Boxed

3M™ 381C – 3M Type C Type XY

Packaging: Boxed



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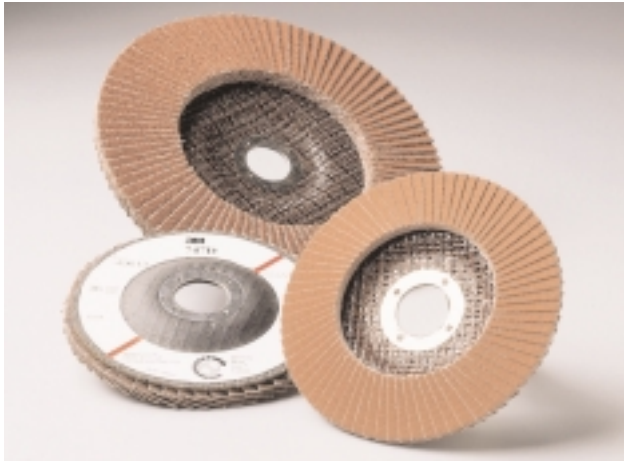
Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*							
			16	24	36	50	60	80	P100	P120
5" x 7/8"	280C	25/100	01820	01819	01818					
7" x 7/8"	280C	25/100	01835	01834	01833					
9 1/8" x 7/8"	280C	25/100	01869	01868	01867					
			16	24	36	50	60	80	100	120
4" x 5/8"	281C	25		85950	85951	85954	85955	85956	85957	85958
4 1/2" x 7/8"	281C	25		88959	85960	85961	85962	85963	85964	85965
5" x 7/8"	281C	25		85966	85967	85968	85969	85970	85971	85972
7" x 7/8"	281C	25		85973	85974	85975	85976	85977	85978	85979
			16	24	36	50	60	80	100	120
4 1/2" x 7/8"	381C	25/100		77595	77596	77597	77598	77599	77600	77601
5" x 7/8"	381C	25/100	88725	81369	81372	81375	01727	20054	20053	20052
7" x 7/8"	381C	25/100	01745	81370	81373	81376	01741	01740	01739	01738
9 1/8" x 7/8"	381C	25/100	01767	81371	81374	81377	01763	01762	01761	01760

* Add Prefix 051144- to UPC No. when ordering.

Kut stock items

3M™ Abrasive Flap Discs

The 3M 747D Abrasive Flap Disc is the new standard for off-hand grinding and finishing of metals. It provides a consistent rate of cut for a superior finish and it provides long-life performance that improves quality and lowers cost.



34



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Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.				
			36X	50X	60X	80X	120X
4 1/2" x 7/8"	747D	10	051111-49613	051111-49614	051111-49615	051111-49616	051111-49617
7" x 7/8"	747D	5	051111-49608	051111-49609	051111-49610	051111-49611	051111-49612

Maximum Operating RPMs:

4 1/2" dia. – 13,300
7" dia. – 8,600

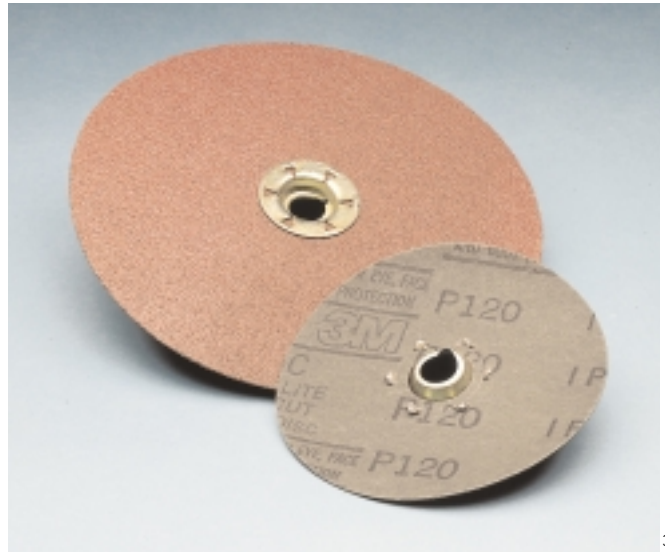
3M™ TN Quick Change Fibre Discs

TN “Quick Change” is a system in which each disc has its own mounting nut hardware (5/8" - 11) thread and can be mounted directly on the tool with the proper accessory back-up system. This enables the operator to change the product in a very efficient manner, and there is no need for a retainer nut or spanner wrench. *This system is compatible with 3M Disc Pad Hubs and Face Plates as well as other backup systems.*

3M™ 381C Three-M-ite™ Type “C”

3M™ 785C Regalite™ Polycut Fibre

3M™ 984C Regal™ Resin Bond Fibre



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Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*							
			36	50	60	80	P100	100	P120	120
4 1/2"	381C	25/100	88847	88848	88849	88850		88851		88852
7"	381C	25/100	88853	88854	88855	88856		88857		88858
4 1/2"	785C	25/100	88778	88779	88780	88826	88827		88828	
7"	785C	25/100	88829	88830	88831	88832	88833		88834	
4 1/2"	984C	25/100	88835	88836	88837	88838	88839		88840	
7"	984C	25/100	88841	88842	88843	88844	88845		88846	

* Add Prefix 051144- to UPC No. when ordering.

Kut stock items

Accessories – Fibre Discs

3M™ Disc Pad Hubs and Face Plates

3M's Disc Pad Hubs and Face Plates are light weight, have excellent balance, and low profile for better grinding and finishing control. Full size plates give firm support to disc edge and are tapered to fit the disc shape to minimize flare and wild scratches. This system can result in long term savings in parts and changeover time.

3M Disc Pad Hubs have a 5/8"-11 thread metal insert and can be used on most face plates.

3M Disc Pad Face Plates are color coded by density:

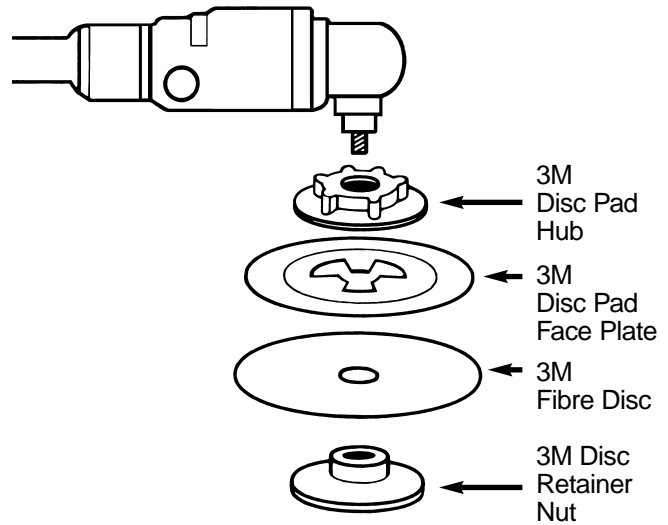
- **Red** – extra hard: Heavy grinding. (Ribbed only)
- **Black** – hard: Heavy metal removal, large welds, etc.
- **Gray** – medium: General purpose grinding and finishing. Normal flexibility.
- **White** – soft: Finishing operations, flexible, follows contours.

3M™ Disc Pad Face Plates – Ribbed



Ribbed face plate results in cooler running disc. Higher pressure on the ribbed sections prolongs disc life when dulling is a problem. Available in 5", 7" and 9" diameter. New red disc is extra hard for heavy grinding.

Diameter	Hardness	Max. Oper. RPMs	UPC No.
5"	Extra hard – red	12,000	051144-81732
5"	Hard-black	12,000	051144-81733
5"	Medium-gray	12,000	051144-81734
5"	Soft-white	12,000	051144-81735
7"	Extra hard – red	8,500	051144-80514
7"	Hard-black	8,500	051144-80515
7"	Medium-gray	8,500	051144-80516
7"	Soft-white	8,500	051144-80517
9"	Extra hard – red	6,500	051144-81728
9"	Hard-black	6,500	051144-81729
9"	Medium-gray	6,500	051144-81730
9"	Soft-white	6,500	051144-81731



3M™ Disc Pad Hubs and Face Plates



37 Backup system for fibre discs or surface conditioning discs with a 7/8" center hole.

Durable plastic hubs have 5/8"-11 threaded metal insert. Replaceable face plates are available in three color-coded densities. Hard-black is for heavy metal removal such as large welds. Medium-gray provides normal flexibility for general purpose grinding and finishing. Soft-white is used in finishing operations and contour grinding. 3M face plates are designed to resist chunking, reduce edge wear and prolong abrasive disc life.

Diameter	Hardness	Max. Oper. RPMs	UPC No.
Hubs			
2 1/2" Dia.	5/8"-11		051144-45205
use with all sizes			
2 1/2" Disc Pad Hub-Short Shaft Tools			051144-88743
4 1/2" Dia.	5/8"-11		051144-45190
use with sizes 7", 8" & 9"			
Face Plates			
4 1/2"	Hard – black	13,000	051144-14270
4 1/2"	Medium – gray	13,000	051144-13325
5"	Hard – black	12,000	051144-45206
5"	Medium – gray	12,000	051144-45207
5"	Soft – white	12,000	051144-45208
7"	Hard – black	8,500	051144-45192
7"	Medium – gray	8,500	051144-45193
7"	Soft – white	8,500	051144-45194
9"	Hard – black	6,500	051144-45195
9"	Medium – gray	6,500	051144-45196
9"	Soft – white	6,500	051144-45197

Kut stock items

3M™ Disc Holder Adaptors No. 9

These adaptors will convert a sander with M10-1.25. M10-1.50 or 3/8"-24 external threaded shaft to a 5/8"-11 external threaded shaft.



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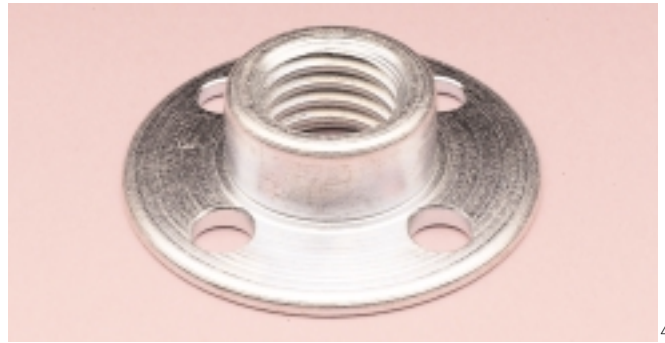
External Thread	Internal Thread	UPC No.
5/8"-11	M10 - 1.25	048011-22971
5/8"-11	M10 - 1.50	048011-22972
5/8"-11	3/8" -24	048011-22970

3M™ Fibre Disc Pad Hub and Retainer

Diameter and Thread Size	UPC No.
4 1/2" x 5/8"-11	051144-05633

3M™ Disc Retainer Nuts

For use with all 3M disc pad face plates, disc pads and 3M disc pad hubs. Nuts have 5/8"-11 threaded arbor hole in three thread lengths.



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Thread Length x Thread Size	UPC No.
5/8" x 5/8"-11	051144-05620
1/2" x 5/8"-11	051144-05621
3/8" x 5/8"-11	051144-05622

Thread Length	UPC No.
1/2" x 5/8"-11	051131-05632

Optimum Tool Speeds/RPM To Maximize Fibre Disc Cut Rates And Life

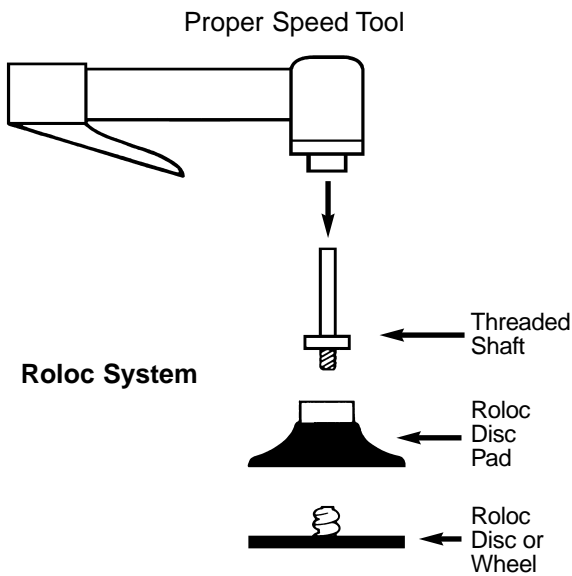
Disc Size	Material Type			
	Carbon Steel	Stainless	Titanium	Aluminum
4 1/2"	8,500 RPM	7,000 RPM	2,500 RPM	7,000 RPM
5"	8,500 RPM	6,000 RPM	2,500 RPM	6,000 RPM
7"	6,000 RPM	4,500 RPM	2,000 RPM	4,500 RPM
9 1/8"	4,500 RPM	3,500 RPM	1,500 RPM	3,500 RPM

Roloc™ Discs

Provide a fast, efficient method for deburring, blending, finishing, removing tool marks and die polishing on all types of metals. Resist loading and shelling under severe operating conditions. They lock securely in place with just a half twist... a half twist and it's off. Each disc is color coded by grade. Ideal for use on air tools (right angle and straight) and on flexible shaft grinders. Additionally, Roloc discs and pads feature three different types of fastening systems to accommodate most any stock that you may currently have on hand.

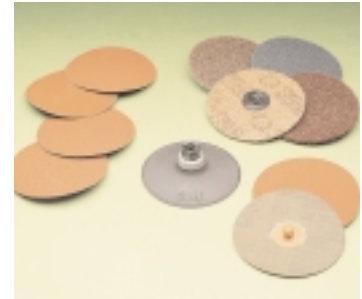
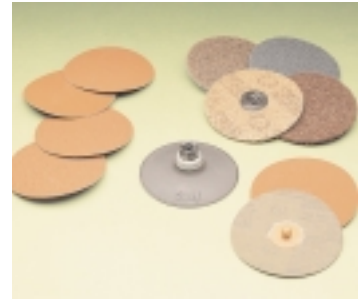
Easy to mount...easy to change

3M coated abrasive and Scotch-Brite Roloc surface conditioning discs feature a threaded male button attached to the back of each disc for quick and easy mounting to a Roloc disc pad. With a quick half-turn, the disc is locked securely in place for the life of the disc. Each button or disc is color coded to designate grade.

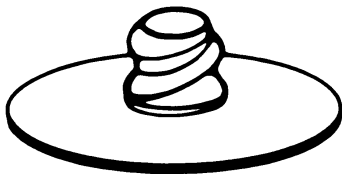


3M™ Roloc Disc Button Color/Grade Chart

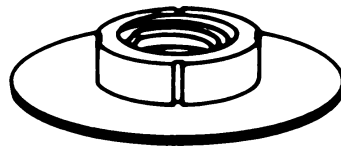
- 16
- 20
- 24
- 36
- 40
- 50
- 60
- 80
- 100
- 120
- 150
- 180
- 220
- 240
- 280
- 320
- 400
- 500



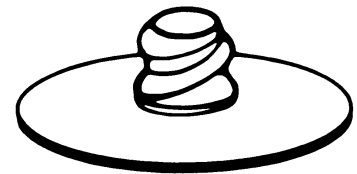
Accessories: Hook and Loop - See pg. 32.
 Roloc - See pg. 23.



Roloc™ Discs



Roloc™ TS Discs



Roloc™ TP Discs






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3M™ 777F Regalite™ Polycut™ Resin Bond Cloth YF Wt.

3M™ 785C Regalite™ Polycut™ Fibre

3M's Regalite Polycut incorporates 3M Cubitron™ and premium aluminum oxide minerals on a heavy YF cloth or fibre backing.

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*								
			24	36	40	50	60	80	P100	P120	
Roloc Discs											
1" dia.	777F	50/500		76622		76623	76624	76625		80510	
1½" dia.	777F	50/500		76626		76627	76628	14660		80511	
2" dia.	777F	50/200		76629		76630	76433	14661	80508	80512	
3" dia.	777F	50/200		76631		76632	76633	76634	80509	80513	
4" dia.	785C	25/100		83690		83691	83692	83693	83694	83695	
Roloc TS Discs											
1" dia.	777F	50/500						76752			
1½" dia.	777F	50/500					76749	76753			
2" dia.	777F	50/200		76742		76746	76750	76754			
3" dia.	777F	50/200		76743		76747	76751	76755			
Roloc TP Discs											
1" dia.	777F	50/500				76764		76772			
1½" dia.	777F	50/500				76765		76773			
2" dia.	777F	50/200		76762		76766	76770	76774			
3" dia.	777F	50/200		76763		76767	76771	76775			

* Add Prefix 051144- to UPC No. when ordering.

Kut stock items

3M™ 977F Regalloy Resin Bond Cloth

3M™ 963G Regal™ Resin Bond Cloth

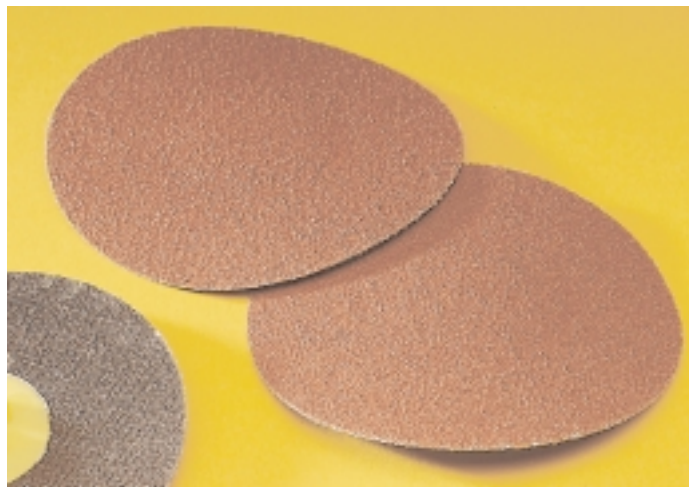
YN Wt. Grades 24–80

XF Wt. Grades P100 and P120

3M™ 984C Regal™ Resin Bond Fibre

All 4" Products

3M's Cubitron ceramic aluminum oxide on a polyester backing for grinding and deburring carbon steel and aluminum.



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Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*							
			24	36	40	50	60	80	P100	P120
Roloc Discs										
1" dia.	963G	50/500				11422	11428	11427		11425
1½" dia.	963G	50/500		11450		11449	11448	11455	11454	11453
2" dia.	963G	50/200	11113	11112		11111	11110	11109	11107	11106
2" dia.	977F	50/200		83587			83588	83589		
3" dia.	963G	50/200	11108	11105		11104	11103	11102	11101	11100
3" dia.	977F	50/200		83590			83591	83592		
4" dia.	984C	25/100		83696		83697	83698	83699		
Roloc TS Discs										
1" dia.	963G	50/500								
1½" dia.	963G	50/500					82121			
2" dia.	963G	50/200		82114		82118	82122	82126		82090
3" dia.	963G	50/200				82119	82123	82127		
Roloc TP Discs										
1" dia.	963G	50/500					82136			
1½" dia.	963G	50/500								82093
2" dia.	963G	50/200								82094
3" dia.	963G	50/200		82131		82135	82161	82142		82095

* Add Prefix 051144- to UPC No. when ordering.

Kut stock items

3M™ 983C Regal™ Resin Bond Fibre Grades 36, 60 and 80

Cubitron mineral coated on a 30 mil fibre backing for aggressive applications where reduced edgewear and firm support is desired.



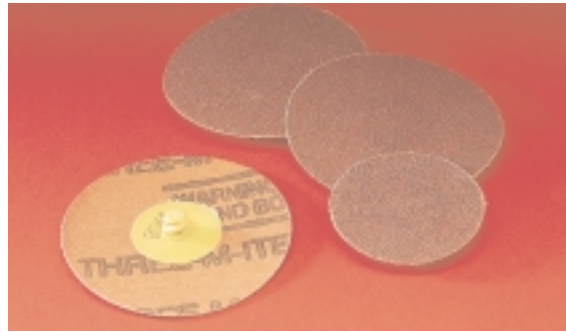
47

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*						
			24	36	40	50	60	80	P100
Roloc Discs									
2" dia.	983C	50/200		22352				22353	22354
3" dia.	983C	50/200		22349				22350	22351
Roloc TS Discs									
2" dia.	983C	50/200		82096				82098	
3" dia.	983C	50/200		82097				82099	82101
Roloc TP Discs									
2" dia.	983C	50/200							
3" dia.	983C	50/200		82105					

* Add Prefix 051144- to UPC No. when ordering.

3M™ 361F Three-M-ite™ Resin Bond Cloth YF Wt. Grades 24–150, XF Wt. P180–P320

General purpose grinding, blending and deburring on all metals: aluminum oxide on tough, polyester backing.



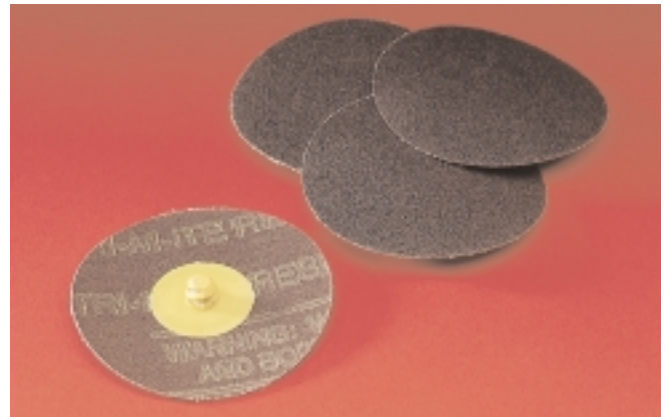
48

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*											
			24	36	40	50	60	80	P100	P120	P150	P180	P240	P320
Roloc Discs														
1" dia.	361F	50/500	11413	11412		11411	11417	11416	11415	11414				
1½" dia.	361F	50/500	11452	22396		11137	22397	22407	22408	22409				
2" dia.	361F	50/200	11000	22398		22399	22400	22401	22402	22403	14559	13873	11419	
3" dia.	361F	50/200	22392	22393		22394	22395	22404	22405	22406	82244		11418	
4" dia.	361F	25/100		76429				11421	11420					
Roloc TS Discs														
1" dia.	361F	50/500			97669									
1½" dia.	361F	50/500					76789							
2" dia.	361F	50/200			97680		76790	76794	97681					
3" dia.	361F	50/200			97686		76791	76795	80051					
Roloc TP Discs														
1" dia.	361F	50/500	97691				76804	76808	77114					
1½" dia.	361F	50/500		82400				76809						
2" dia.	361F	50/500		76798	82401	76802	76806	76810	77115	76778				
3" dia.	361F	50/200		76799	82402	76803	76807	76811	77116					

* Add Prefix 051144- to UPC No. when ordering.

3M™ 461F Tri-M-ite™ Resin Bond Cloth YF Wt.

Tri-M-ite Resin Bond Cloth Roloc Discs are silicon carbide on a polyester backing for grinding glass, titanium and non-ferrous materials.



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Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*											
			24	36	40	50	60	80	P100	P120	P150	P180	P240	P320
Roloc Discs														
2" dia.	461F	50/200					12956	12954						
3" dia.	461F	50/200		12958			12957	12955						

* Add Prefix 051144- to UPC No. when ordering.

Kut stock items

Roloc™ Surface Conditioning Discs

Scotch-Brite Roloc discs provide a burr-free surface suitable for painting or coating. These discs can also be used for removal of light rust, oxides, and coatings.

Color: A VFN - Blue A CRS - Brown
 A MED - Maroon S SFN - Gray



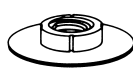
50

Compatibility of Roloc™ Disc Attaching System

3M (1/2 Turn off and on)	Screw on	Press on
Roloc	N/A	Type III
Roloc+	N/A	N/A
Roloc TP	N/A	Power Lock
Roloc TS	Quick Change	Type II



Roloc™



Roloc™ TS



Roloc™ TP

Size	Max. Oper. RPMs	Discs/Case	Mineral Type/Grade			UPC No.
			A CRS	A MED	A VFN	
Roloc						
1" x NH	30,000	200	048011-15393	048011-15392	048011-15391	
1 1/2" x NH	30,000	200	048011-08764	048011-08765	048011-08766	048011-08767
2" x NH	25,000	200	048011-05528	048011-05527	048011-05523	048011-05522
3" x NH	18,000	100	048011-05532	048011-05531	048011-05530	048011-05529
4" x NH	12,000	100	048011-12954	048011-12953	048011-12952	
Roloc TS						
1 1/2" x NH	30,000	200	048011-13249	048011-13250	048011-13251	
2" x NH	25,000	200	048011-13253	048011-13254	048011-13255	048011-13256
3" x NH	18,000	100	048011-13257	048011-13258	048011-13259	048011-13260
Roloc TP						
2" x NH	25,000	200	048011-13237	048011-13238	048011-13239	
3" x NH	18,000	100	048011-13241	048011-13242	048011-13243	

Roloc™ SE Surface Conditioning Discs

Scotch-Brite "SE" surface conditioning products feature a coarser, tougher, more aggressive, abrasive impregnated web construction than regular Scotch-Brite surface conditioning products. Use for heavier deburring, cleaning and finishing applications.

Grade	Front Color	Back Color
A CRS	Brown	Blue
A MED	Maroon	Blue



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Size	Max. Oper. RPMs	Discs/Case	Mineral Type/Grade		UPC No.
			A CRS	A MED	
Roloc SE					
2" x NH	25,000	200	048011-18081		048011-18471
3" x NH	18,000	25	048011-18082		048011-18472
4" x NH	12,000	25	048011-18243		
Roloc TS SE					
2" x NH	25,000	200	048011-18085		
3" x NH	18,000	100	048011-18086		
Roloc TP SE					
2" x NH	25,000	200	048011-18083		
3" x NH	18,000	100	048011-18084		

Maximum Operating RPMs:

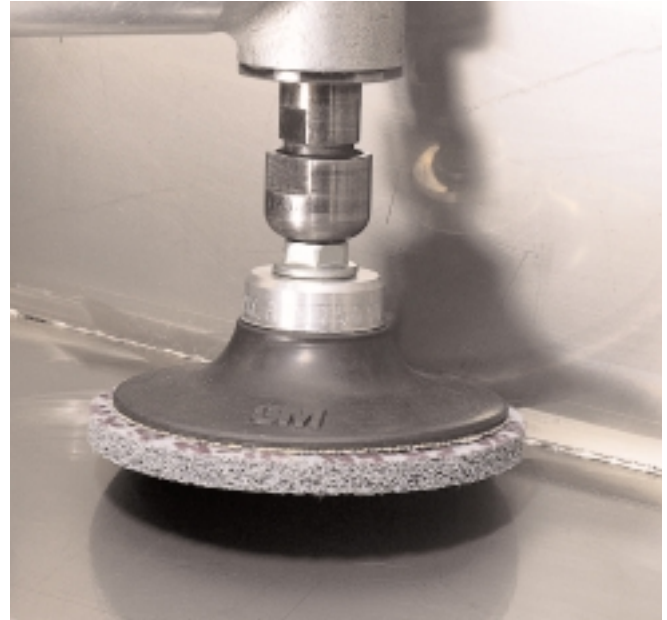
Do not exceed the MOS ratings of the holders used with these Roloc products.

Accessories: See Roloc Disc Pads, pg. 23.

EXL Roloc™ Unitized Wheels

Roloc unitized wheels are strong, efficient products for edge deburring and finishing. They perform well in a variety of metal working applications and on intricate machined parts where close tolerances are important. The Roloc, Roloc TS, or Roloc+ holding systems make changing unitized wheels quick and easy.

Wheel	Color	Lettering
8A CRS	Tan	Orange
8A MED	Tan	Orange
6A MED	Tan	Red
6S FIN	Gray	Green
2A MED	Gray	Black
2S FIN	Gray	Purple



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Size	Wheels/Case	Max. Oper. RPMs	Mineral Type/Grade					UPC No.*	
			8 A CRS	8 A MED	6 A MED	6 S FIN	2 A MED	2 S FIN	
EXL Roloc Unitized Wheels									
2" dia.	60	22,100	17194	17192	17190	17187	17185	17183	
3" dia.	40	15,100	17195	17193	17191	17189	17186	17184	
EXL Roloc TS Unitized Wheels									
2" dia.	60	22,100+	17198	17848	17202	17846	17844	17842	
3" dia.	40	15,100+	17199	17849	17203	17847	17845	17843	

* Add Prefix 048011- to UPC No. when ordering.

Roloc™ Bristle Discs

3M Roloc Bristle Discs are ideal for safely cleaning and stripping a wide variety of substances off of metal. The 3M Bristle Disc will easily cut through hardened enamel paint, thick dried adhesive and layers of corrosion without destroying the underlying metal or compromising your safety. In addition, the 3M Bristle Disc does not clog-up with the substances you are trying to remove, giving you a consistent finish throughout the life of the disc. 3M Bristle Discs come in sizes from 1 inch Roloc™ to 7 inch x 5/8"-11 thread. For hard to reach areas, try the 3 inch Radial 3M Bristle Disc. Most 3M Bristle Discs come in grades 50, 80 and 120.

Color: 50X - Green 80X - Yellow 120X - White

Mineral: Regalite™ Mineral



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Size	Trim (T=Tapered)	Min. Pkg./Case	Max. Oper. RPM's	Grade and UPC No.		
				50	80	120
1" dia.	5/8"	20/80	30,000	048011-18698	048011-18706	048011-18710
2" dia.	1/2"	10/40	25,000			048011-18537
	5/8" T	10/40	25,000	048011-18730	048011-18732	048011-18733
3" dia.	1/2"	10/40	18,000		048011-18535	048011-18538
	5/8" T	10/40	18,000	048011-18734	048011-18736	048011-18737
4.5" dia.	5/8"-11 Thread	5/10	12,000	048011-24241	048011-24242	048011-24243
7" dia.	5/8"-11 Thread	5/5	6,000	048011-07577	048011-07578	

Maximum Operating RPMs:

The lower of the disc or the disc pad MOS rating must always be used.

Roloc™ Bristle Discs Introductory Pack

Product	Contents
982BS	2 ea. Roloc Bristle Disc, 2" x 1/2" trim, 50x, 80x, 120x 1 ea. Roloc Disc Pad Holder, 2", Hard
983BS	2 ea. Roloc Bristle Disc, 3" x 1/2" trim, 50x, 80x, 120x 1 ea. Roloc Disc Pad Holder, 3", Hard
982RS	3 ea. 3M 777F Roloc Discs, 2", 60YF, 80YF, 120YF 2 ea. Roloc Surface Conditioning Discs, 2", ACRS, AMED, AVFN, SSFN 2 ea. Roloc SE Surface Conditioning Discs, 2", ACRS 1 ea. Roloc EXL Unitized Wheels, 2", 2SFIN, 6AMED, 8ACRS 2 ea. Roloc Bristle Disc, 2" x 5/8" tapered, 50x, 80x, 120x 1 ea. Roloc Disc Pad Holder, 2", Hard
983RS	3 ea. 3M 777F Roloc Discs, 3", 60YF, 80YF, 120YF
	2 ea. Roloc Surface Conditioning Discs, 3", ACRS, AMED, AVFN, SSFN 2 ea. Roloc SE Surface Conditioning Discs, 3", ACRS 1 ea. Roloc EXL Unitized Wheels, 3", 2SFIN, 6AMED, 8ACRS 2 ea. Roloc Bristle Disc, 3" x 5/8" tapered, 50x, 80x, 120x 1 ea. Roloc Disc Pad Holder, 3", Hard

Product	Packs/Case	UPC No.
982BS	5	048011-18696
983BS	5	048011-18697
982RS	5	048011-18694



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Roloc™ Radial Bristle Discs

3M Radial Bristle Discs are abrasive-filled products with unique features designed to increase productivity in the following applications:

- Remove adhesive, paint and other coatings, discoloration, heavy oxides, and surface contaminants.
- Deburr and blend.
- Clean and prepare surfaces before and after welding.

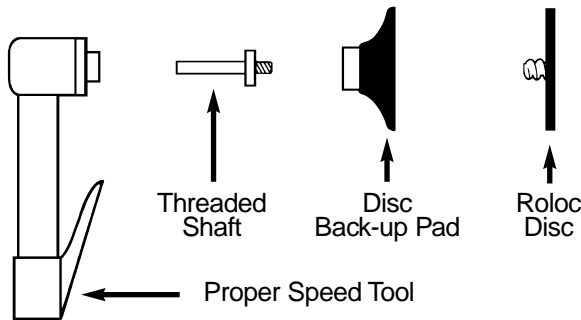
Flexible bristles conform to the part and clean without removing base material reducing damage and rework. The unique bristle pattern reaches tight or awkward areas such as grooves and along 90° angles.



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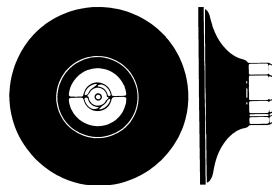
Size	Trim (T=Tapered)	Min. Pkg./Case	Max. Oper. RPM's	Grade and UPC No.		
				50	80	120
3" dia.		10/40	25,000	048011-24276	048011-24277	048011-24278

Accessories – Roloc™ Discs



3M™ Roloc™ Disc Pads

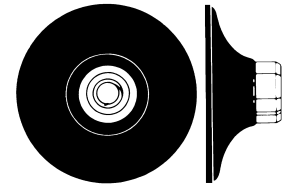
Rubber back-up pads are available in different diameters and degrees of hardness for varying grinding applications. Pads are female threaded to receive any standard 1/4"-20 thread shaft.



Diameter	Hardness	Max. Oper. RPM's	UPC No.
1"	Medium	30,000	051144-45101
1 1/2"	Hard	30,000	051144-45100
1 1/2"	Medium	30,000	051144-45099
1 1/2"	Soft	30,000	051144-45098
2"	Extra Hard	25,000	051144-45097
2"	Hard	25,000	051144-45096
2"	Medium	25,000	051144-45095
2"	Soft	20,000	051144-45094
3"	Extra Hard	20,000	051144-45093
3"	Hard	20,000	051144-45091
3"	Medium	18,000	051144-45092
3"	Soft	15,000	051144-45090
4"	5/8" -11 Hard	12,000	051144-83489
4"	Medium	12,000	051144-45179
1/4" Threaded Shaft			051144-45102

3M™ Roloc™ TS Disc Pads

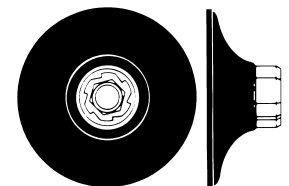
For use with 3M TS grinding discs and "screw on" abrasive discs.



Diameter	Hardness	Max. Oper. RPM's	UPC No.
1"	Medium	30,000	051144-77724
1 1/2"	Hard	30,000	051144-77728
1 1/2"	Medium	30,000	051144-77729
2"	Extra Hard	25,000	051144-77733
2"	Hard	25,000	051144-14212
2"	Medium	25,000	051144-14211
3"	Extra Hard	20,000	051144-77737
3"	Hard	20,000	051144-14216
3"	Medium	18,000	051144-14215
3"	Soft	15,000	051144-77738
4"	Medium	12,000	051144-77740
1/4" Threaded Shaft			051144-45102

3M™ Roloc™ TP Disc Pads

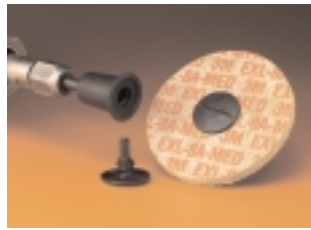
For use with 3M TP grinding discs and with press on type abrasive discs.



Diameter	Hardness	Max. Oper. RPM's	UPC No.
1"	Medium	30,000	051144-77723
1 1/2"	Hard	30,000	051144-77725
1 1/2"	Medium	30,000	051144-77726
1 1/2"	Soft	30,000	051144-77727
2"	Hard	25,000	051144-14198
2"	Medium	25,000	051144-14197
2"	Soft	20,000	051144-77732
3"	Extra Hard	20,000	051144-77735
3"	Hard	20,000	051144-14202
3"	Medium	18,000	051144-14201
3"	Soft	15,000	051144-77736
4"	Medium	12,000	051144-77739
1/4" Threaded Shaft			051144-45102

Roloc™ + Buttons

These buttons thread into the No.1 Roloc + Holder for use with unitized wheels. They offer this front-loading feature to allow for quick and easy wheel change.



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Product	Diameter	Use With	Maximum Oper. RPM
6	3/8"	Unitized Wheels 1 1/2" - 3" dia. x 1/8" wide x 3/8" CH	25,000 w/1 1/2" dia. 20,000 w/2" dia. 15,000 w/3" dia.
7	3/8"	Unitized Wheels 1 1/2" - 3" dia. x 1/4" wide x 3/8" CH	25,000 w/1 1/2" dia. 20,000 w/2" dia. 15,000 w/3" dia.

Product	Buttons/Case	UPC No.
6	5	048011-15059
7	5	048011-15060

#6 Button is blue, #7 Button is red

Roloc™ + Holders & Button Combination Packs

These combination packs contain one Roloc + Holder No.1 and one Roloc + Button No. 6 or 7.

Product Specifications

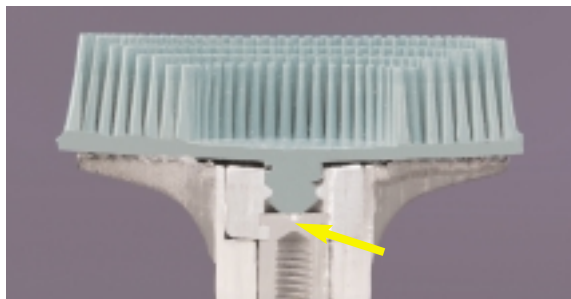
Product	Use With
No. 1 and No. 6	Unitized Wheels 3" Diameter and smaller x 1/8" wide x 3/8" CH
No. 1 and No. 7	Unitized Wheels 3" Diameter and smaller x 1/4" wide x 3/8" CH

Product	Sets/Case	UPC No.
No. 1 and No. 6	5	048011-14916
No. 1 and No. 7	5	048011-14915

Additional Helpful Information – Coated Abrasive Roloc™ Discs

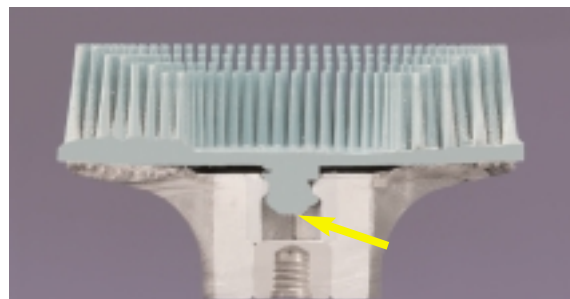
Optimum Tool Speeds (RPM's) To Maximize Roloc™ Coated Abrasive Disc Cut Rates and Life.						
Disc Size	Material Type					
	Stainless	Aluminum	Steel	Titanium	Glass	Composites
1 1/2"	20,000 RPM	20,000 RPM	30,000 RPM	9,000 RPM	9,000 RPM	15,000 RPM
2"	15,000 RPM	15,000 RPM	20,000 RPM	7,000 RPM	7,000 RPM	10,000 RPM
3"	10,000 RPM	10,000 RPM	15,000 RPM	4,500 RPM	4,500 RPM	8,000 RPM

Compatibility of Roloc™ Disc Attaching Systems		
3M (1/2 Turn off and on)	Press on	Screw on
Roloc	Type III	N/A
TP	Power Lock	N/A
TS	Type II	Quick Change



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3M Back-up Pad



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Non 3M Back-up Pad

WARNING: Use with 3M™ Roloc™ Back-up pads for safe, secure performance. Non-3M back-up pads may have a deeper threaded cavity which causes the button to continue to tighten down during use. This can cause the button to separate from the disc resulting in disc fly off and potential operator harm.

Stikit™ Abrasive Discs

3M Stikit products have a pressure sensitive adhesive backing for press-on, peel-off convenience. This attachment system eliminates slippage between the sander back-up pad and the abrasive resulting in higher cut rates with fewer interruptions for replacement of sandpaper.

3M™ 415U Stikit™ Tri-M-ite™ Fre-Cut™ Paper A Wt. Disc Rolls

Made from A weight Tri-M-ite™ Fre-cut finishing paper, which has a special coating that resists loading. General purpose discs for wood, metal, and fiberglass sanding applications.

3M™ 214U Stikit™ White Gold Paper A Wt. Disc Rolls

A premium aluminum oxide abrasive product with a special coating that resists loading. This superior product is precisely graded for an excellent finish. For paint, primer, wood, metal, and fiberglass.



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Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.								
			80	100	120	150	180	220	240	320	400
5" x NH	415U	125 roll/8	77223	77227	77230						
		250 roll/4				77234	77237	77241			
	214U	125 roll/10	81802	81803	81804						
5" x DF	415U	125 roll/8	77224	77228	77231						
		250 roll/4				77235	77238	77242			
	214U	125 roll/10			81805						
6" x NH	415U	125 roll/8	77225	77229	77232						
		250 roll/10				77236	77239	77243			
	214U	125 roll/8	86381	86389	86382						
		250roll/10				86383	86384	86385	86386	86387	86388

* Add Prefix 051144- to UPC No. when ordering.

Stikit™ Disc Pads

These lightweight, shock-resistant pads have a tough vinyl face that provides excellent disc adhesion yet allows quick, easy disc removal. 5" and 6" discs have a maximum operating speed of 10,000 RPM and are designed for use on dual action and random orbital sanders.

Diameter	Thickness	Thread	Face Color	Case Qty.	Max. RPM	UPC
5"	3/4"	5/16" -24 external	Blue	10	10,000	051144-05575
5"	3/4"	5/16" -24 external	Silver	10	10,000	051144-45215
5"	3/4"	5/16" -24 external	Red	10	10,000	051144-81821
5"	3/4"	5/16" -24 external (soft)	Blue	10	R/O only	051144-83211
5"	1 1/4"	5/16" -24 external (soft)	Black	10	R/O only	051144-82178
5"	3/4"	5/8" -11 internal	Red	10	10,000	051144-82189
5"	1 1/16"	5/8" -11 internal	Red	1	9,000	051144-82655
6"	5/16"	6-Bolt holes	OUS	5	10,000	051144-05697
6"	3/4"	5/16" -24 external	Blue	10	10,000	051144-05576
6"	3/4"	5/16" -24 external	Silver	10	10,000	051144-45216

PSA Discs

PSA (pressure sensitive adhesive) Discs provide a fast, efficient method for deburring, blending and cleanup on hard-to-get-at areas. Adhesive-backed PSA Discs adhere and remove quickly and easily to speed disc change time.

Use 3M PSA discs for all kinds of work. These tough fast-cutting discs resist loading and shelling under severe operating conditions.

3M™ Three-M-ite™ Resin Bond PSA

Aluminum oxide resin bond cloth PSA (pressure sensitive adhesive) discs provide a fast, efficient method for deburring, blending and cleanup.



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Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*											
			24	36	40	50	60	80	100	120	150	180	240	320
1/2"	248D	50/500		97632	97633	97634	20951	20950	20949	20948	97635	97636	97637	97638
3/4"	248D	50/500		97639	97640	97641	20943	20942	20941	20940	97642	20939	20938	97643
1"	248D	50/500		20936	97644	20934	20933	20932	20931	20930		20928	20927	97645
1 1/2"	248D	50/500			97646	20923	20922	20921	20920	20919	97647	20917	20916	97648
2"	248D	50/200		20913	20912	20911	20910	20909	20908	20907	20906	20905	20903	
2"	218K	50/200												20732
3"	248D	50/200	01338	01337	01335	01334	01333	01332	01331	01330	01329	01328	01326	01306
4"	248D	50/200		20900	21499	20899	20898	20897	20896	97649	97650	97651	97652	97653
5"	248D	50/250		20891	20890	20889	20888	20887	20886	20885	20884	20883	20881	97654
6"	248D	50/250		21639	21731	20879	20878	20877	20876	21497	97655	21496	97656	
8"	248D	50/250		20874	20873	20872	20871	20870	20869	20868			20867	
9"	248D	50/250		97657	97658	97659	20866	20865	97660	97661				
10"	248D	10		49536	49537	49538	49689	49688	49539	49540				
12"	248D	10		88906	88905	88904	88903	88902	88901		88900	88899		
15"	248D	10		88895	88894	88893	88892	88891	49692					
16"	248D	10		88890	88889	88888	88887	88886						
18"	248D	10		88882	88881	49691	88880	88879						
20"	248D	10		88878	88877	88876	88875	88874	49690					
24"	248D	10		20802	20801	20800	20799	20798	97665					
30"	248D	10		20793	20792	97666	20791	97668						

Add Prefix 051111- to UPC No. when ordering 10" size.

* Add Prefix 051144- to UPC No. when ordering all other sizes.

Kut stock items

3M™ 778F Regalite™ Polycut™ Resin Bond Cloth PSA YF Wt.

A tough, durable blend of 3M's Cubitron mineral and aluminum oxide and a grinding aid.



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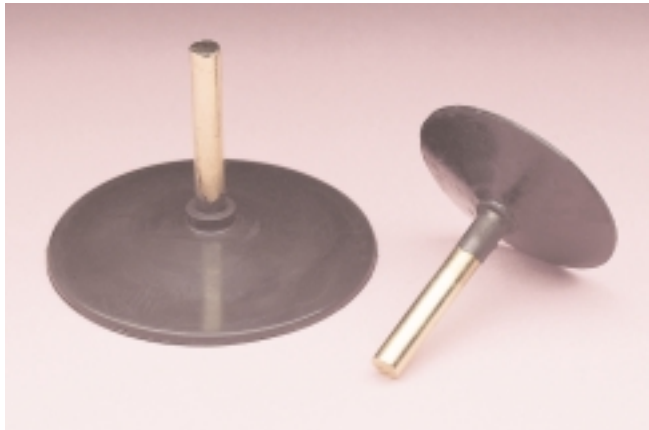
Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*												
			36	40	50	60	80	100	120	150	180	240	320		
12"	778F	10	88869	88873	88872	88871	88870								

* Add Prefix 051144- to UPC No. when ordering.

Accessories – PSA Discs

3M™ PSA Disc Holders

Disc holders are used with any electric or air grinding tool that accommodates an 1/4" shank.

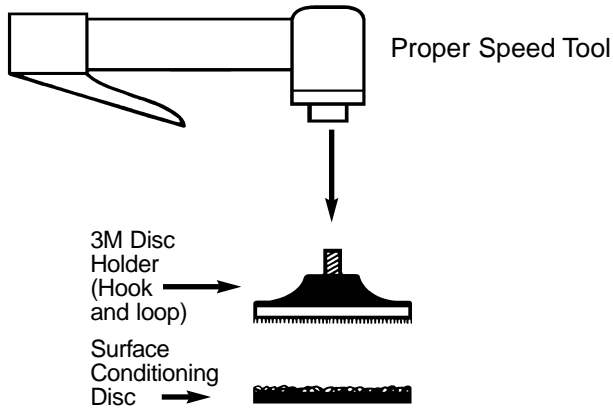


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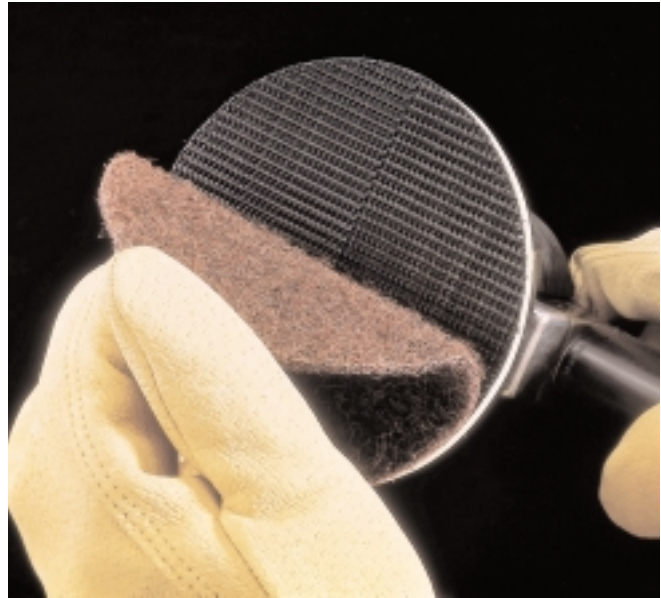
Diameter and Shank	Max RPMs	UPC No.
1/2" x 1/4"	20,000	051144-45074
3/4" x 1/4"	20,000	051144-45073
1" x 1/4"	20,000	051144-45072
1 1/2" x 1/4"	20,000	051144-45071
2" x 1/4"	15,000	051144-45070
3" x 1/4"	10,000	051144-05510
4" x 1/4"	7,500	051144-45069
5" x 1/4"	6,000	051144-45068

Surface Conditioning Discs

Surface conditioning discs and Roloc discs and wheels can be used on right angle grinders and die grinders.



Hook and Loop System



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Surface Conditioning Discs (Hook and Loop)

Scotch-Brite Surface Conditioning Discs are best for finishing, cleaning and light deburring on flat metal surfaces. Used on right angle (high speed and low speed), orbital, and dual action power hand tools.

Color: A CRS - Brown A VFN - Blue
 A MED - Maroon S SFN - Gray

Size	Discs/Case	Mineral Type/Grade UPC No.			
		A CRS	A MED	A VFN	S SFN
1½" x NH	200	048011-04118	048011-04122	048011-04275	048011-04126
2" x NH	200	048011-07458	048011-07459	048011-04276	048011-04127
3" x NH	100	048011-04120	048011-04124	048011-04277	048011-04128
4" x NH	100	048011-07450	048011-007451	048011-04278	048011-04129
4½" x NH	50	048011-14101	048011-14100	048011-14099	048011-14102
5" x NH	50	048011-00750	048011-00643	048011-04303	048011-00647
5" x 7/8"	50	048011-16047	048011-00644		
6" x NH	50	048011-03927	048011-03928	048011-04304	
7" x NH	25	048011-00751	048011-00645	048011-04305	048011-00648
8" x NH	25	048011-00752	048011-00670	048011-04306	048011-00649

Maximum Operating RPMs:

1½" dia. - 25,000	5" dia. - 10,000
2" dia. - 23,000	6" dia. - 8,000
3" dia. - 20,000	7" dia. - 6,000
4" dia. - 13,000	8" dia. - 6,000
4½" dia. - 13,000	

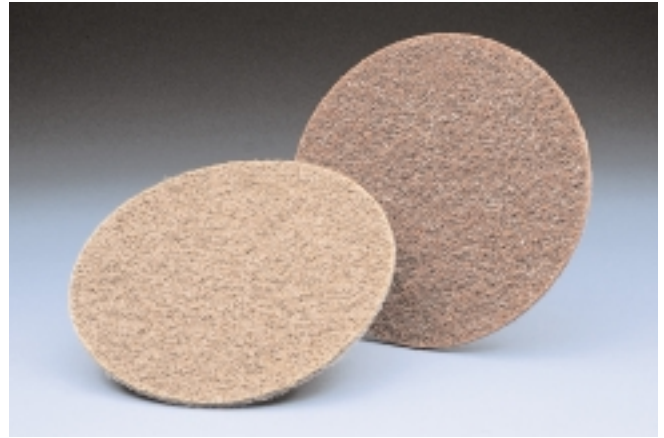
The lower of the disc or the disc pad MOS rating must always be used. See pg. 32.

Accessories: See 3M Disc Pad Holders (Hook and Loop) on pg. 32.

SE Surface Conditioning Discs (Hook and Loop)

“SE” Surface Conditioning Discs feature a coarser, tougher more aggressive web construction than our regular surface conditioning discs for heavier deburring, cleaning and finishing applications.

Color: A CRS - Brown A VFN - Blue
 A MED - Maroon S SFN - Gray



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Size	Discs/Case	Mineral Type/Grade UPC No.			
		A CRS	A MED	A VFN	S SFN
2" x NH	200		048011-18473		
3" x NH	100		048011-18474		
4" x NH	100	048011-18021	048011-18475		
4 1/2" x NH	50	048011-18079	048011-18476		
5" x NH	50	048011-18080	048011-18919		
6" x NH	50				048011-19658
7" x NH	25	048011-17866	048011-18477		
8" x NH	25	048011-17239			

Maximum Operating RPMs:

1 1/2" dia. - 25,000	5" dia. - 10,000
2" dia. - 22,000	6" dia. - 8,000
3" dia. - 18,000	7" dia. - 6,000
4" dia. - 13,000	8" dia. - 6,000
4 1/2" dia. - 13,000	

The lower of the disc or the disc pad MOS rating must always be used. See pg. 32.

Accessories: See 3M Disc Pad Holders (Hook and Loop) on pg. 32.

Coating Removal Discs (Hook and Loop)

The Coating Removal Disc features our popular Clean and Strip web for right angle tools. This rugged open web is virtually non-loading to make surface preparation faster and easier. Aggressively tackles your toughest cleaning jobs.

Size	Discs/Case	Mineral Type/Grade UPC No.
		SXCS
4" x NH	40	048011-18481
4 1/2" x NH	40	048011-18482
5" x NH	40	048011-18483
7" x NH	20	048011-18485

Recommended Operating RPMs:

4" dia. - 5,000-8,000	5" dia. - 4,200-6,300
4 1/2" dia. - 4,700-7,000	7" dia. - 3,000-4,500



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Clean & Strip Discs

Handle tough cleaning and stripping jobs with an extra coarse, open web. Designed to work faster and safer than wire brushes.

Scotch-Brite Clean & Strip discs are surface conditioning web cut into circular discs to the customer's diameter and center hole specifications. Discs can be used single or multiple loaded onto a spindle and used on edge.

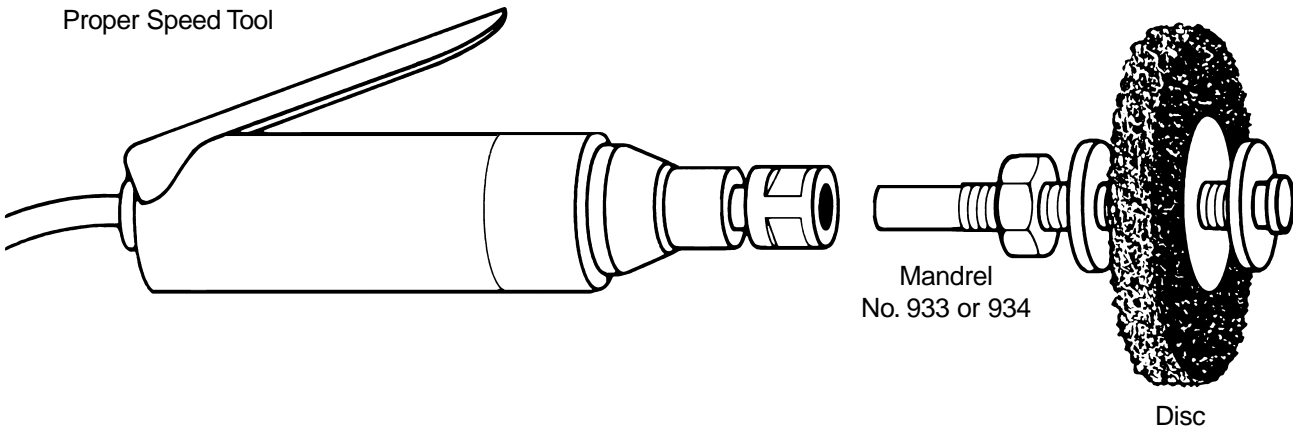
Applications: Stripping paint from metal surfaces, inspecting welds, removing coatings and preparing surfaces for recoating, cleaning concrete molds and forms, general plant maintenance.

Color: Black



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Size	Discs/Case	Max. Oper. RPMs	Mineral Type/Grade	UPC No.
			SXCS	
2 x 1/4"	100	12,000		048011-00931
3 x 1/4"	50	8,500		048011-00935
3 x 1/2"	50	8,500		048011-00937
4 x 1/4"	25	6,000		048011-07460
4 x 3/8"	25	6,000		048011-00940
4 x 1/2"	25	6,000		048011-00941
4 x 5/8"	25	6,000		048011-00942
5 x 1/2"	25	5,000		048011-00943
6 x NH	15	4,000		048011-00945
6 x 1/4"	15	4,000		048011-00946
6 x 3/8"	15	4,000		048011-00947
6 x 1/2"	15	4,000		048011-00948
6 x 5/8"	15	4,000		048011-00949
6 x 7/8"	15	4,000		048011-00950
7 x 5/8"	15	3,500		048011-00954
7 x 7/8"	15	3,500		048011-00955
8 x 1/2"	15	3,000		048011-00957
8 x 5/8"	15	3,000		048011-00958



High Strength Discs

MED:

Very conformable. For finishing using bench motors, horizontal grinders or drill motors.

Applications: Antique finishing or highlighting, satin finishing aluminum extrusions, oxide and light coating removal, stainless steel finishing.

Color: Type A – Maroon

VFN:

Designed for light deburring work. A built-in lubricant provides longer life. Very conformable and excellent for finer antique finishing.

Applications: Light gear deburring, keyway and o-ring slot edge radiusing, antique finishing builders hardware.

Color: Type A – Maroon
Type S – Brown



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Mineral Type/Grade	UPC No.	Max. Oper. RPMs	A MED	A VFN	S VFN
Size	Discs/Case				
6 x 1/4"	100	4,000		048011-00666	048011-16777
6 x 1/2"	100	4,000	048011-04188	048011-00665	048011-16778
8 x 1/4"	50	3,000		048011-00673	
8 x 1/2"	50	3,000	048011-03992	048011-00672	048011-16780
8 x 3/4"	50	3,000			048011-05304

3M Mandrels

Mandrels are corrosion protected and machined to industrial standards for thread size and shaft diameters. Furnished complete with washers to fit available disc sizes.

Product	Use With	Size
933	2"-3" dia. discs	2" lg x 1/4" shank 1" washer
934	3"-6" dia. discs	3 1/16" lg x 1/4" shank 2 1/2" washer



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Mandrel No. 933

Mandrel No. 934

Product	Mandrels/Case	UPC No.
933	5	048011-13968
934	1	048011-04021

Maximum Operating RPMs:

933	—	14,000
934	w/3" wheel -	12,000
	w/4" wheel -	8,500
	w/6" wheel -	6,000

The lower of the disc or mandrel MOS must always be used.

Accessories – Surface Conditioning Discs & Intro. Packs

3M™ Disc Pad Holders (Hook and loop)

For use with Surface Conditioning Discs



Disc Pad Holder No. 905



Disc Pad Holder No. 922



Disc Pad Holder No. 917

Product	Dia.	Hub-Shank	Max. Oper. RPMs	Pads/Case	UPC No.
9215	1 1/2"	1/4" M	25,000	10	048011-04130
922	2"	1/4" M	23,000	10	048011-07494
923	3"	1/4" M	20,000	10	048011-04132
924	4"	1/4" M	13,000	5	048011-07492
914	4"	1/2"-13 F	13,000	1	048011-05673
914	4"	5/8"-11 F	13,000	1	048011-05674
914	4"	M14 - 2.0 F	13,000	1	048011-05677
9145	4 1/2"	1/2"-13 F	13,000	1	048011-14110
9145	4 1/2"	5/8"-11 F	13,000	1	048011-14111
9145	4 1/2"	M10-1.25 F	13,000	1	048011-14112
9145	4 1/2"	M14 - 2.0 F	13,000	1	048011-14114
905	5"	5/16"-24 M	10,000	1	048011-09448
915	5"	1/2"-13 F	10,000	1	048011-05679
915	5"	5/8"-11 F	10,000	1	048011-05680
915	5"	M14 - 2.0 F	10,000	1	048011-05681
906	6"	5/16"-24 M	8,500*	1	048011-09449
916	6"	5/8"-11 F	10,000	1	048011-05682
917	7"	5/8"-11 F	6,000	1	048011-09450
918	8"	5/8"-11 F	6,000	1	048011-09451
945	5"	5/16"-24 M	12,000	1	051144-13625
947	7"	5/8"-11 F	6,000	1	051144-13627
947M	7"	M14 - 2.0 F	6,000	1	051131-07394

* 10,000 on Random Orbital Sanders M = Male threaded
F = Female threaded

Roloc™ + Holders

This holder is made of durable plastic for less critical grinding and surface conditioning applications. Use with EXL Roloc Unitized Wheels.

Product	Dia.	Use With	Max. Oper. RPMs	Holders/Case	UPC No.
1	1"	EXL Roloc Unitized Wheels	25,000	5	048011-15408
2	1 1/2"	1 1/2" diameter Roloc Discs	25,000	5	048011-15409
3	2"	2" diameter Roloc Discs	25,000	5	048011-15410
4	3"	3" diameter Roloc Discs	20,000	5	048011-15411

See page 19 for additional information.

Introductory Packs

Convenient introductory packs of Scotch-Brite Surface Conditioning Discs, Roloc Surface Conditioning Discs, EXL Wheels, Coating Removal Discs and holders. An easy way to evaluate the right product, size and grade for your applications.

Product	Contents
914S	Surface Conditioning Disc - 4" Dia. 1 ea. S SFN (Gray) 1 ea. A VFN (Blue) 1 ea. A MED (Maroon) 1 ea. A CRS (Brown) Disc Pad Holder (Hook and Loop) 1 ea. 914 5/8" -11
914CS	Coating Removal Disc - 4" Dia. 1 ea. S-XCS (Black) Disc Pad Holder (Hook and Loop) 1 ea. 914 5/8" -11
9145S	Surface Conditioning Disc - 4 1/2" Dia. 1 ea. S SFN (Gray) 1 ea. A VFN (Blue) 1 ea. A MED (Maroon) 1 ea. A CRS (Brown) Disc Pad Holder (Hook and Loop) 1 ea. 9145 5/8" -11
9145CS	Coating Removal Disc - 4 1/2" Dia. 1 ea. S-XCS (Black) Disc Pad Holder (Hook and Loop) 1 ea. 9145 5/8" -11
915S	Surface Conditioning Disc - 5" Dia. 1 ea. S SFN (Gray) 1 ea. A VFN (Blue) 1 ea. A MED (Maroon) 1 ea. A CRS (Brown) Disc Pad Holder (Hook and Loop) 1 ea. 915 5/8" -11
915CS	Coating Removal Disc - 5" Dia. 1 ea. S-XCS (Black) Disc Pad Holder (Hook and Loop) 1 ea. 915 5/8" -11
917S	Surface Conditioning Disc - 7" Dia. 1 ea. S SFN (Gray) 1 ea. A VFN (Blue) 1 ea. A MED (Maroon) 1 ea. A CRS (Brown) Disc Pad Holder (Hook and Loop) 1 ea. 917 5/8" -11
917CS	Coating Removal Disc - 7" Dia. 1 ea. S-XCS (Black) Disc Pad Holder (Hook and Loop) 1 ea. 917 5/8" -11
920S	Surface Conditioning Discs - 2" Dia. 2 ea. S SFN (Gray) 2 ea. A VFN (Blue) 4 ea. A MED (Maroon) 4 ea. A CRS (Coarse) Surface Conditioning Discs - 3" Dia. 2 ea. S SFN (Gray) 2 ea. A VFN (Blue) 4 ea. A MED (Maroon) 4 ea. A CRS (Brown) Disc Pad Holders (Hook and Loop) 1 ea. 922 1/4" Collet 1 ea. 923 1/4" Collet

Introductory Packs (Continued)

Product	Contents
9815S	777F Regalite Polycut RB Cloth Roloc Discs 1 1/2" Dia. 3 ea. 60YF 3 ea. 80YF 3 ea. P120YF Roloc Surface Conditioning Discs 1 1/2" Dia. 2 ea. S SFN (Gray) 2 ea. A VFN (Blue) 2 ea. A MED (Maroon) 2 ea. A CRS (Brown) Roloc Disc Pad 1 1/2" Dia. 1 ea. Hard 1 ea. 1/4" Threaded Shaft
982S	777F Regalite Polycut RB Cloth Roloc Discs 2" Dia. 3 ea. 60YF 3 ea. 80YF 3 ea. P120 YF Roloc Surface Conditioning Discs 2" Dia. 2 ea. S SFN (Gray) 2 ea. A VFN (Blue) 2 ea. A MED (Maroon) 2 ea. A CRS (Brown) Roloc Disc Pad 2" Dia. 1 ea. Hard 1 ea. 1/4" Threaded Shaft
983S	777F Regalite Polycut RB Cloth Roloc Discs 3" Dia. 3 ea. 60YF 3 ea. 80YF 3 ea. P120YF Roloc Surface Conditioning Discs 3" Dia. 2 ea. S SFN (Gray) 2 ea. A VFN (Blue) 2 ea. A MED (Maroon) 2 ea. A CRS (Brown) Roloc Disc Pad 3" Dia. 1 ea. Hard 1 ea. 1/4" Threaded Shaft
984WS	984C Regal Resin Bond Fibre Roloc Discs 4" Dia. 1 ea. 36 1 ea. 50 1 ea. 60 1 ea. 80 Roloc Surface Conditioning Discs 4" Dia. 1 ea. A VFN (Blue) 1 ea. A MED (Maroon) 1 ea. A CRS (Brown) Roloc SE Surface Conditioning Disc 4" Dia. 1 ea. A CRS (Brown/Blue) Roloc Disc Pad 4" x 5/8" - 11 1 ea. hard
785SS	785C Regalite Polycut Resin Bond Fibre Roloc Discs 4" Dia. 1 ea. 36 1 ea. 50 1 ea. 60 1 ea. 80 1 ea. 100 1 ea. 120 Roloc Surface Conditioning Discs 4" Dia. 1 ea. A VFN (Blue) 1 ea. A MED (Maroon) 1 ea. A CRS (Brown) Roloc SE Surface Conditioning Discs 4" Dia. 1 ea. A CRS (Brown/Blue) Roloc Disc Pad 4" x 5/8" - 11 1 ea. hard

Product	Contents
985S	Roloc Surface Conditioning Discs - 2" Dia. 2 ea. S SFN (Gray) 2 ea. A VFN (Blue) 2 ea. A MED (Maroon) 2 ea. A CRS (Brown) Roloc Surface Conditioning Discs - 3" Dia. 2 ea. S SFN (Gray) 2 ea. A VFN (Blue) 2 ea. A MED (Maroon) 2 ea. A CRS (Brown) Roloc Disc Pads 1 ea. 2" Medium 1 ea. 3" Medium 2 ea. 1/4" Threaded Shaft
987S	EXL Roloc Unitized Wheel - 2" Dia 1 ea. 2S FIN 1 ea. 2A MED 1 ea. 6S FIN 1 ea. 6A MED 1 ea. 8A MED 1 ea. 8A CRS Roloc+ Holder 1 ea. No. 1
988S	EXL Roloc Unitized Wheel - 3" Dia. 1 ea. 2S FIN 1 ea. 2A MED 1 ea. 6S FIN 1 ea. 6A MED 1 ea. 8A MED 1 ea. 8A CRS Roloc+ Holder 1 ea. No. 1

Product	Packs/Case	UPC No.
914S	5	048011-08707
914CS	5	048011-18428
9145S	5	048011-14105
9145CS	5	048011-18427
915S	5	048011-08713
915CS	5	048011-18426
917S	5	048011-04270
917CS	5	048011-18430
920S	5	048011-18253
9815S	5	051144-82901
982S	5	051144-82899
983S	5	051144-82900
984WS	5	051144-83490
785SS	5	051144-83491
985S	5	048011-18254
987S	5	048011-17181
988S	5	048011-17182

Belts – Bench Top

For bench top or bench area sanding and grinding, 3M offers products to make your work go fast and easy with superior results.

3M™ 777F Regalite™ Polycut™ Resin Bond Cloth YF Wt.

3M 777F Regalite Polycut Resin Bond Cloth combines superb performance with long life to bring quality and economy to a variety of operations. It grinds cool with a high cut rate to deliver the finish you're looking for.

The product is a combination of 3M Cubitron mineral and special aluminum oxide mineral coated on a firm Y wt. synthetic backing. It also incorporates a grinding aid to provide optimum performance on stainless steel and nickel alloy off-hand and medium pressure grinding applications.



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3M™ 707E Regalite™ Polycut™ Resin Bond Cloth JE Wt.

3M 707E Regalite Polycut Resin Bond Cloth provides a smooth, cool, fast cut that you can depend on for high-quality results.

3M 707E incorporates a blend of 3M Cubitron mineral and aluminum oxide minerals and grinding aid on a very flexible J weight synthetic backing.

Ideal for a wide range of applications requiring conformability on a variety of materials, such as stainless steel and high nickel alloys.



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Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*				
			36	50	60	80	P120
2" x 60"	777F	10/50	†77663				
2" x 60"	777F	25/50			†77152		
2" x 72"	777F	10/50	†76531	76523			
2" x 72"	777F	25/50			†80286	†14884	†81767
3½" x 15½"	777F	10/50	#77336	#77334	#77476	#77333	
6" x 48"	777F	10/20	†82313	†80176			
6" x 48"	777F	20			†76679	†76733	†82153
3½" x 1 5½"	707E	10/50					80246

* Add Prefix 051144- to UPC No. when ordering.

‡ Filmlok

Fabrilok

3M™ 241D Three-M-ite™ Resin Bond Cloth X Wt.

3M's standard aluminum oxide X-weight cloth.

3M™ 240D Three-M-ite™ Resin Bond Cloth Open Coat X Wt.

An aluminum oxide, resin bonded open coat construction on an X-weight drills cloth backing, exhibiting greater flexibility than the closed coat version.



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Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*													
			24	36	40	50	60	80	100	120	150	180	220	240	320	400
1 1/2" x 60"	241D	10/50	#26443	†26441	†26440											
1 1/2" x 60"	241D	25/100					†26438	†26436	†26435	†26434	†26433	†26431		†26430		
2" x 60"	241D	10/50	†26426	†26425	†26424											
2" x 60"	241D	25/50					33640	†33639	†26420	†33667			†33638	†33637	†26415	†33636
2" x 72"	241D	10/50	†26320		#26317											
2" x 72"	241D	25/50					†26316	†33067	†26313	†26312	†76336	†26309	†26307	†81752	†26305	†11658
2 1/2" x 60"	241D	10/50	†26408	†26405	†26404											
2 1/2" x 60"	241D	25/50					#26400	†26396	†33635	†26388	†26386	†26385	†26383	†26382		
6" x 48"	241D	10/20	26533	26531	26529	#11645										
6" x 48"	241D	20					26524	26521	26519	26518	26517	26515	26514	26513	26512	
4" x 27"	240D	10/50									27447					

* Add Prefix 051144- to UPC No. when ordering.

† Filmlok

Fabrilok

Kut stock items

Deburring Belts – Portable Tool

3M offers a complete line of coated abrasive belt constructions to meet all of your grinding, deburring and sanding needs.

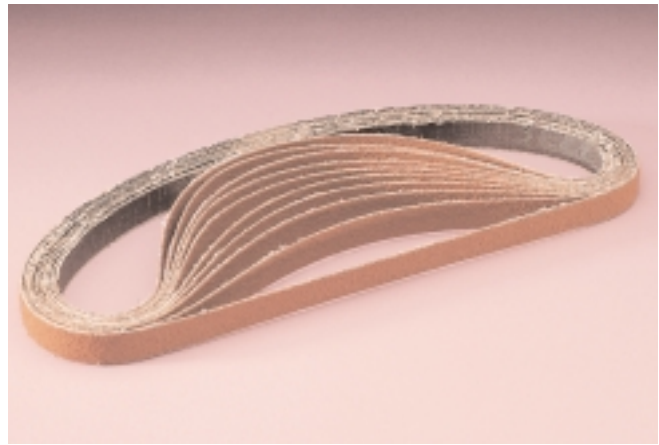
3M™ 777F Regalite™ Polycut™ Resin Bond Cloth YF Wt.

The product is a combination of 3M Cubitron™ mineral and special aluminum oxide minerals coated on a firm Y wt. synthetic backing. It also incorporates a grinding aid to provide optimum performance on stainless steel and nickel alloy off-hand and medium pressure grinding applications.

3M™ 741E Regalite™ Resin Bond Cloth XE Wt.

3M™ 751E Regalite™ Resin Bond Cloth XE Wt.

Unique combination of Cubitron & aluminum oxide minerals on strong rayon backing.



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3M™ 241E Three-M-ite™ Resin Bond Cloth XE Wt. Grades 50 and Finer

3M™ 251E Three-M-ite™ Resin Bond Cloth Type HO XE Wt. Grades 36 and 40

A high performance aluminum oxide mineral coated on a firm synthetic backing, providing superior aggressiveness and edge wear resistance.

3M™ 240D Three-M-ite™ Resin Bond Cloth Open Coat X Wt.

3M™ 241D Three-M-ite™ Resin Bond Cloth X Wt.

Aluminum oxide X-weight cloth.

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*							
			36	40	50	60	80	100	P120	
1/4" x 24"	741E/751E	50/200				#13280				
1/2" x 12"	741E	50/200				#13276				
1/2" x 18"	777F	50/200				#80551	#80232			
	741E	50/200				#13733				
1/2" x 24"	777F	50/200	#77643		#77408	#77065	#77491		#81064	
	741E/751E	50/200				#13272				
3/4" x 20 1/2"	741E	50/200				#13268				
1" x 30"	777F	50/200	#82252				#77407			
	741E/751E	50/200								
1" x 42"	777F	50/200		‡76527		‡77512				

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.*												
			36	40	50	60	80	100	120	150	180	220	240	320	
1/8" x 24"	241E	50/200				#71053									
1/4" x 24"	241E/251E	50/200		#30290		#26733	#26732	#32407	#26731		#26730			#26729	
1/2" x 12"	241E/251E	50/200		#32417	#26895	#31170	#26894	#26893	#26892		#31074		#32398		
1" x 12"	241D	50/200				26884	26881								
1/2" x 18"	241E/251E	50/200	#77632	#72226		#72227	#72228	#14754	#72229						
1/2" x 24"	241E/251E	50/200	#32375	#26726	#26725	#26723	#26720	#26719	#26717	#26716	#26715	#26714	#32399	#26713	
1/2" x 42"	241E	50/200					#34176								
3/4" x 20 1/2"	241E/251E	50/200	#26784	#26783	#26782	#26781	#26780	#26779	#26778		#26776				
	241D	50/200	#32161			#33911	#33912	#32157	#32158		#32160				
1" x 42"	241E	50/200					‡32090								
	241D	50/200	#26614	#26612	#31823	#26609	‡31774	‡26606	‡33795	‡26602	‡26601	‡26600	‡26599	‡26597	
	240D	50/200													
1 1/2" x 18 5/16"	241D	10/50	26822		26820	26819	26818		26816		26814				

* Add Prefix 051144- to UPC No. when ordering.

‡ Filmlok

Fabrilok

Kut stock items

Belts – Portable

The product selection for portable belts ranges from our standard aluminum oxide to our premium 761D product, which is a blend of 3M's proprietary Cubitron mineral and premium aluminum oxide. These belts deliver a fast cut which means a time savings for you!

3M™ 761D Y Wt.

The new 3M 761D portable belts are a revolutionary step in the advancement of coated abrasive belt sanding for portable belt applications.

3M™ 241D Three-M-ite™ RB Cloth X Wt.

3M's standard aluminum oxide X-weight cloth.

3M™ 240D/240A Three-M-ite™ RB Cloth Open Coat X Wt.

An aluminum oxide, resin bonded open coat construction on an X-weight drills cloth backing, exhibiting greater flexibility than the closed coat version.

3M™ 441D Three-M-ite™ RB Cloth X Wt.

Silicon carbide mineral coated on a cloth backing.



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Size	* Prod. I.D.	Min. Pkg./Case	Grade and UPC No.**					
			50	60	80	P100	P120	P150
3" x 18"	761D	5/25	81393	81394	81395	81396	81397	81398
3" x 21"	761D	5/25	81399	81400	81401	81402	81403	81404
3" x 24"	761D	5/25	81410	81411	81412	81413	81414	81415
4" x 24"	761D	5/25	81429	81430	81431	81432	81433	81434

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.** ***							
			24	36	40	50	60	80	100	
3" x 18"	241D***	10/40		01416-3		01417-0		01419-4	01420-0	
			120	150	180	220	240	320		
			01421-7							
3" x 21"	240D	10/50	24	36	40	50	60	80	100	
			71512						30639	
			120	150	180	220	240	320		
71785			24	36	40	50	60	80	100	
3" x 21"	241D***	10/40	02679-1	01422-4	01423-1	01424-8	01425-5	01426-2	01427-9	
			120	150	180	220	240	320		
			01428-6			01528-3	01529-0	02689-0		
3" x 24"	240D/240A	10/50	24	36	40	50	60	80	100	
			27501		27500	27499	27498	27497	27496	
			120	150	180	220	240	320		
27495			24	36	40	50	60	80	100	
3" x 24"	441D	10/50	32943							
			24	36	40	50	60	80	100	
			120	150	180	220	240	320		

* The color purple is a trademark of 3M.

Kut stock items

Portable Sander Belts (Continued)

Size	Prod. I.D.	Min. Pkg./Case	Grade and UPC No.** ***						
			24	36	40	50	60	80	100
3" x 23 ³ / ₄ "	241D***	10/40		02645-6			26740-8	02648-7	
			120	150	180	220	240	320	
			24	36	40	50	60	80	100
	240D/240A	10/50			27483		27481	27480	27479
			120	150	180	220	240	320	
					27478				
			24	36	40	50	60	80	100
3" x 24"	241D***	10/40	02681-4	01429-3	01430-9	01431-6	01432-3	01433-0	01434-7
			120	150	180	220	240	320	
			01435-4	01536-8		02657-9	02659-3		
			24	36	40	50	60	80	100
	240D/240A	10/50	27477	27476	27475	27474	27473	27472	27471
			120	150	180	220	240	320	
			27470	27469	27468	71521			
			24	36	40	50	60	80	100
	441D	10/50							
			120	150	180	220	240	320	
			24	36	40	50	60	80	100
3 ¹ / ₂ " x 15 ¹ / ₂ "	241D***	10/40	*77290-2	*26860-3	*02661-6	*26858-0	*26857-3	*26856-6	*26853-5
			120	150	180	220	240	320	
			*02663-0	26851-1	*02665-4				
			24	36	40	50	60	80	100
4" x 21"	241D	10/40					01575-7		
			120	150	180	220	240	320	
			24	36	40	50	60	80	100
	240D	10/50				31412	27494	27493	
			120	150	180	220	240	320	
									74349
			24	36	40	50	60	80	100
4" x 21 ³ / ₄ "	241D***	10/40				02669-2			
			120	150	180	220	240	320	
			02677-7						
			24	36	40	50	60	80	100
	240D	10/50				27489	27488	27487	27486
			120	150	180	220	240	320	
									27485
			24	36	40	50	60	80	100
4" x 24"	241D***	10/40	02685-2	01436-1	01437-8	01438-5	01439-2	01440-8	01441-5
			120	150	180	220	240	320	
			01442-2		01539-9				
			24	36	40	50	60	80	100
	240D/240A	10/50	27467-3	27466-6	27465-9	27464	27463	27462	27461
			120	150	180	220	240	320	
			27460	27459-8	27458				

** For Product I.D. 240A, 240D and 441D, add prefix 051144- to UPC number when ordering.

*** For Product I.D. 241D, add prefix 078-91040- to UPC number when ordering.

★ Add prefix 051144- to UPC number when ordering.

• Add prefix -078 to UPC number when ordering.

Kut stock items

Scotch-Brite™ Surface Conditioning

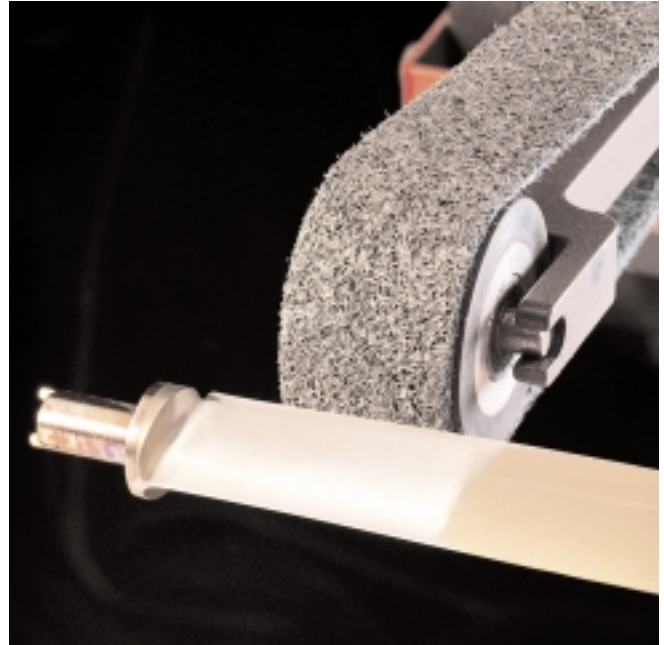
Scotch-Brite surface conditioning belts are used worldwide to finish, polish and buff metal, wood and plastic surfaces.

Recommended operating speeds:

Generally, low speeds are recommended for generating very uniform satin finishes, finishing aluminum alloys without lubricants, and woodworking applications. Higher speeds are recommended when removing imperfections prior to buffing. High belt speed will result in faster cut along with finer finishes.

Application	Recommended SFPM
Decorative Finishing	500-3,000 SFPM
Wood Sanding	1,200-2,700 SFPM
Deburring	5,000-6,500 SFPM
Cleaning and Conditioning	2,000-5,000 SFPM
Oxide Removal	4,500-6,500 SFPM

SFPM = Surface Feet Per Minute



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Polishing: fewer steps

Scotch-Brite surface conditioning belts refine rough surfaces with little or no dimensional change to the workpiece—and they can finish the job in fewer steps than conventional products, while generating a uniform scratch pattern.



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Grindline conditioning: fast and easy

Grindlines, milling marks or microburrs left by cutting tools or other abrasives can be quickly and easily conditioned with Scotch-Brite belts, leaving a consistent and burr-free surface. The belts will also blend scratches and blemishes so they won't show through most paint systems. Surfaces conditioned with Scotch-Brite belts are easy-to-clean and easy-to-coat, reducing production steps and costs.



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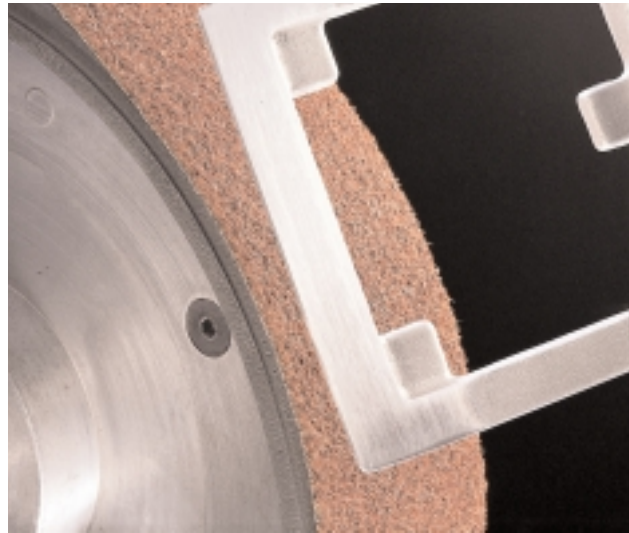
Satin Finishing: quick and consistent

With Scotch-Brite belts on your automatic equipment or portable power tools, you can quickly produce consistent satin finishes on a variety of metals. And using Scotch-Brite belts in tandem with 3M coated abrasive discs and belts on stainless steel, you can match #3 and #4 finishes.

Surface Conditioning Belts

A reinforced non-woven nylon material spliced into belt form provides a more consistent, more appealing finish in decorative finishing applications. Resists loading and reduces heat build-up, increasing life and improving performance. Designed for cleaning, finishing and light deburring operations using standard abrasive belt equipment.

A VFN - Blue A CRS - BROWN
 A MED - Maroon S SFN - Gray



SE Surface Conditioning Belts

New Scotch-Brite brand "SE" surface conditioning products feature a more aggressive mineral in this non-woven nylon abrasive impregnated web construction than regular Scotch-Brite surface conditioning belts.

Front Color Back Color

A CRS Brown Blue
 A MED Maroon Blue

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Size	Belts/Case	Mineral Type/Grade UPC No.				
		A CRS	A MED	A VFN	S SFN	T
1/4" x 18"	20	048011-13290	048011-14276			
1/4" x 24"	20	048011-13132	048011-13131	048011-13287		
1/2" x 12"	20		048011-17515	048011-19688		
1/2" x 18"	20	048011-08858	048011-08857	048011-08856	048011-08855	
1/2" x 24"	20	048011-05741	048011-03998	048011-04299	048011-17516	
3/4" x 18"	20	048011-13639	048011-15899	048011-14543	048011-15898	
1" x 18"	10	048011-14278	048011-14398	048011-17517		
1" x 30"	10	048011-08887	048011-08898	048011-08920		
1" x 42"	10		048011-04189	048011-04190		
2" x 18 ^{15/16} "	10	048011-08889				
2" x 34"	10		048011-08905			
2" x 48"	10		048011-08915	048011-04295		
2" x 60"	10	048011-05020	048011-08916	048011-08922		
2" x 72"	10		048011-00580	048011-00579		
2" x 132"	5	048011-05021	048011-03999	048011-04297		
2 ^{1/2} " x 60"	10		048011-00581			
2 ^{3/4} " x 15 ^{1/2} "	10	048011-05022	048011-05227			
3" x 10 ^{11/16} "	10	048011-05820	048011-05783	048011-09650		
3" x 18"	10	048011-14284	048011-14285	048011-14550		
3" x 21"	10		048011-08906			
3" x 24"	10	048011-08880	048011-00583	048011-04298		
3" x 72"	10		048011-14548			
3" x 132"	5	048011-05023	048011-00568	048011-04289	048011-08893	
3 ^{1/2} " x 15 ^{1/2} "	10	048011-05016	048011-05228	048011-05643	048011-05644	048011-14121
4" x 24"	10		048011-00585			
4" x 90"	10				048011-15879	
4" x 132"	5	048011-05018	048011-00570	048011-04281		
4" x 168"	5		048011-00589			
6" x 48"	5	048011-05019	048011-00590	048011-04283		
SE						
1/4" x 18"	20	048011-18495				
1/4" x 24"	20	048011-18496				
1/2" x 18"	20	048011-18087	048011-18480			
1/2" x 24"	20	048011-18088	048011-18479			
3/4" x 18"	20	048011-19697				
3 ^{1/2} " x 15 ^{1/2} "	10	048011-18089	048011-18478			

Introductory Packs

Convenient introductory packs of Scotch-Brite surface conditioning and 3M coated abrasive belts.

Products	Contents	
518S	777S Regalite Polycut RB Cloth Belts 1/2" x 18" 2 ea. 60YF 2 ea. 80YF 241S Three-M-ite RB Cloth Belt 1/2" x 18" 2 ea. 120XE Surface Conditioning Belts 1/2" x 18" 1 ea. A VFN 1 ea. A MED 1 ea. A CRS	
524S	777S Regalite Polycut RB Cloth Belts 1/2" x 24" 2 ea. 60YF 2 ea. 80YF 2 ea. 120YF Surface Conditioning Belts 1/2" x 24" 1 ea. A VFN 1 ea. A MED 1 ea. A CRS	
Product	Packs/Case	UPC No.
518S	5	051144-82897
524S	5	051144-82898



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Scotch-Brite™ Wheels

Scotch-Brite EXL wheels are unmatched in production and maintenance operations. Use them on portable power tools, bench motors, floor lathes and automatic or semi-automatic equipment to clean, deburr, blend, finish or polish all types of metals, composites or plastics.

An Extensive Range of Applications

EXL wheels can be used on many types of metal to create a uniform, burr-free surface.

- Deburring** Stamped parts (ferrous, non-ferrous, special metals); aircraft components; surgical instruments; aluminum extrusions; machined metal components.
- Edge Radiusing** Formed wire; cutlery; aluminum extrusions; machined parts; turbine blades.
- Blending & Finishing** Contours; grindlines; brazed surfaces; airfoils of turbine blades; compressor shafts; control panels; nameplates.
- Polishing** Gun barrels, valve spools; machined shafts; golf club heads; other machined parts prior to plating or other subsequent operations.

Technical Information

Maximum Operating Speed: Wheels must be operated at or below specified maximum operating speeds (M.O.S.).

Replace these conventional products:

- Steel wool
- Hand files
- Carbide burrs
- Handknives and scrapers
- Sand blasting
- Wire brushes
- Tampico and bristle brushes
- Buffs and compounds
- Rubber bonded wheels
- Set-up wheels

Application	Recommended SFPM
Decorative Finishing	500-3,000 SFPM
Composite/Wood Sanding	1,200-2,700 SFPM
Cleaning and Conditioning	2,000-5,000 SFPM
Prepolishing	2,000-7,000 SFPM
Oxide Removal	4,500-6,500 SFPM
Deburring	5,000-6,500 SFPM
Blending/Polishing	6,000-8,000 SFPM
Cutdown Prior to Buffing	7,000-8,500 SFPM

SFPM = Surface Feet Per Minute



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Scotch-Brite™ EXL Deburring Wheels

Available with either *silicon carbide* or *aluminum oxide* minerals, EXL wheels help manufacturers of high-tolerance parts meet increasingly stringent product quality and production efficiency requirements.

Aggressive and smooth running

EXL wheels run smoothly providing greater operator comfort, safety and control... especially beneficial when working with valuable parts.

Cool operation protects delicate parts

The open web construction of EXL wheels allows air to circulate across the work surface. This helps prevent overheating that causes discoloration and warping of thin and delicate materials.

ing that causes discoloration and warping of thin and delicate materials.

Long life saves money

Extensive customer tests show that EXL wheels last much longer than other non-woven products while maintaining consistent performance and uniform wheel wear. More production parts per wheel means money saved.

Clean and safe

Nuisance dust from expended abrasive is greatly reduced compared to other types of non-woven wheels. And, there are no flying wires to endanger operators as with wire wheels.

New EX2 and EX3 Deburring and Finishing Wheels can provide additional value in many applications. Ask your 3M sales representative or distributor for additional information.



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Size	Wheels/ Case	Max. Operating RPMs	Density/Mineral Type/Grade/UPC No.			
			8A MED	8S MED	8S FIN	9S FIN
6" x 1/2" x 1"	4	6,000	048011-13616	048011-18277	048011-09548	048011-05790
6" x 1" x 1"	3	6,000	048011-13617	048011-18278	048011-09549	048011-05132
6" x 1 1/2" x 1"	2	6,000	048011-18186			
6" x 2" x 1"	2	6,000	048011-13618			048011-05133
8" x 3/8" x 3"	4	4,500			048011-14791	
8" x 1/2" x 3"	4	4,500	048011-17459		048011-14629	048011-05791
8" x 1" x 3"	3	4,500	048011-13619	048011-18279	048011-09551	048011-05135
8" x 2" x 3"	2	4,500	048011-13620		048011-09552	048011-05136

Accessories: Use with 3M Flange Adaptors No.3 or 5 or 3M Flanges No. 355 or 356. See pg. 47.

Scotch-Brite™ EXL Unitized Deburring Wheels

Applications:

- Scotch-Brite EXL unitized wheels are excellent for deburring and polishing titanium, special alloys, composites and plastics. They are specially designed to minimize heat buildup on the work surface.
- Fine finishes on precision tooled pieces.
- Aerospace, automotive, electronics and medical instrument manufacturers.
- Cool Running—Operators can apply more pressure to these wheels because they are less sensitive to heat buildup at the work surface.
- Safe & Clean—Synthetic fiber and resin construction eliminate danger of loose flying wires commonly associated with wire wheels. And, they are cleaner to use than buffs and compounds.
- Choose from a wide range of densities and grades for use on a variety of jobs from deburring precision threads to polishing welds.



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Wheel	Color	Lettering
2 S FIN	Gray	Purple
* 2 S VFN	Gray	Maroon
2 A MED	Gray	Black
* 3 S FIN	Gray	Pink
4 A FIN	Tan	Blue
4 S FIN	Gray	Green
6 A FIN	Tan	Blue
6 S FIN	Gray	Green
6 A MED	Tan	Red
8 A MED	Tan	Orange
8 A CRS	Tan	Orange
* 8 A XCRS	Brown	Green

Accessories: Use with 3M mandrels. See pg. 48.

*Kut items

Size Dia.xWxAH	Wheels/ Case	UPC No. * (Max. Operating RPMs)						
		2A MED	2S FIN	4A FIN	6A MED	6S FIN	8A MED	8A CRS
1/2" x 1/8" x 1/8"	120				15519 (40,100)			15518 (35,100)
1" x 1/8" x 1/8"	100				15517 (35,100)		15864 (35,100)	15516 (35,100)
1" x 1/4" x 1/8"	100		13734 (30,100)					
1" x 1" x 3/16"	50					15859 (35,100)		
1" x 1" x 3/16"	50	15527 (25,100)	13713 (30,100)		14063 (35,100)		13753 (35,100)	13752 (35,100)
1 1/2" x 1/8" x 3/16"	80				15515 (30,100)			
1 1/2" x 1/4" x 1/8"	80		13714 (20,100)					
1 1/2" x 1/4" x 3/16"	80		14746 (20,100)					
2" x 1/8" x 3/16"	60				15512 (22,100)			15511 (22,100)
2" x 1/4" x 1/8"	60		13736 (16,100)					
2" x 1/4" x 3/16"	60		15513 (16,100)					
2" x 1/4" x 1/4"	60	15529 (16,100)	13932 (16,100)					13755 (22,100)
2" x 1/2" x 1/4"	30		13715 (16,100)					
3" x 1/8" x 1/4"	40						15462 (18,100)	
3" x 1/4" x 1/4"	40	15531 (12,100)	13716 (12,100)		14067 (18,100)		13764 (18,100)	13763 (18,100)
3" x 1/4" x 3/8"	40	16054 (12,100)	14750 (12,100)	14751 18,100	15118 (18,100)	14752 (18,000)	14753 (18,100)	13766 (18,100)
3" x 1/2" x 1/4"	20	15532 (10,000)	13717 (10,000)					13767 (15,100)*
3" x 1/2" x 3/8"	20							
3" x 3/4" x 1/4"	10		13718 (10,000)					
3" x 1" x 1/8"		24358 (9000)						

Scotch-Brite™ EXL Unitized Wheels (Continued)

Size Dia.xWxAH	Wheels/ Case	UPC No. * (Max. Operating RPMs)						
		2A MED	2S FIN	4A FIN	6A MED	6S FIN	8A MED	8A CRS
4" x 1/4" x 1/4"	20		13739 (8,500)					
6" x 1/4" x 1/2"	8	17498 (4,500)	13741 (5,000)					13777 (7,500)
6" x 1/2" x 1/2"	4	15534 (4,500)	13719 (5,000)					
6" x 1/2" x 5/8"	4		15831 (5,000)					
6" x 1/2" x 1"	4	16545 (4,500)	14379 (5,000)					
6" x 1" x 1/2"	2		13742 (5,000)					
6" x 1" x 1"	2	16544 (4,500)	13743 (5,000)				13788 (7500)	
8" x 1/4" x 1/2"	8		15827 (4,000)					
8" x 1/2" x 1/2"	4		15844 (4,000)					
8" x 1/2" x 3/4"	4		15824 (4,000)					
8" x 1/2" x 1"	4	16546 (3,500)	15823 (4,000)					

* Add Prefix 048011- to UPC No. when ordering. Stock sizes by Grade. Other grades and sizes available.

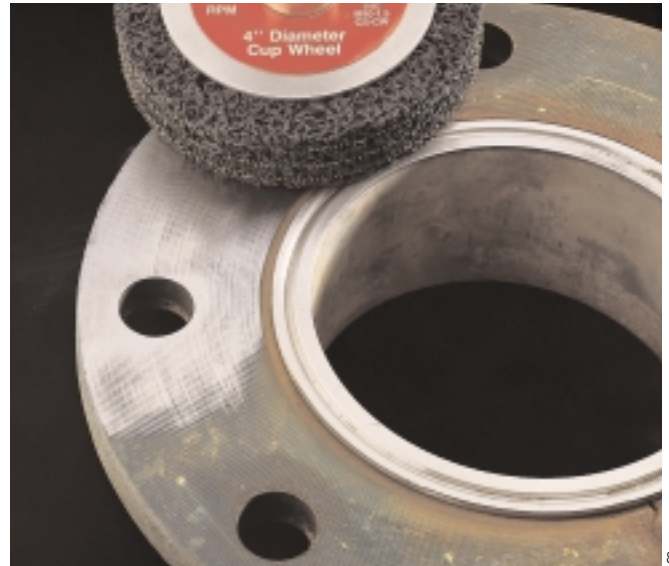
Clean and Strip Cup Wheels

Cup Wheels will fit a wide range of right angle grinders (3" and 4" diameter sizes have the convenient spin-on feature) with a broad selection of thread sizes.

Applications: Aggressive, long lasting, cleaning and coating removal and other tough MRO uses.



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No. Size Dia.xThd.	Wheels/Case	Max. Oper. RPMs	Mineral Type/Grade UPC	
			S	XCS
3" x 3/8" - 24	5	18,100	048011-04151	
4" x 3/8" - 24	4	12,100	048011-04217	
4" x 1/2" - 13	4	12,100	048011-04152	
4" x 5/8" - 11	4	12,100	048011-04153	
4" x M10 - 1.25	4	12,100	048011-05519	
4" x M10 - 1.5	4	12,100	048011-04218	
4" x M14	4	12,100	048011-04154	
6" x 7/8" **	2	7,000	048011-04237	

Accessories: Use 6" diameter cup wheel with the 3M Cup Wheel Back-up Pad No. 955. The lower of the wheel or holder MOS rating must always be used.

Multi-Finishing Wheels

The wheel for producing uniform grain finishes on stainless steel and other metals

Multi-Finishing wheels are highly conformable, soft wheels that create uniform and attractive final finishes on ferrous and non-ferrous metals. They are tough enough to finish edges and welds and soft enough to final finish large, flat surfaces.



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Stock Sizes *

Size Dia.xWxAH	Wheels/ Case	Density/Mineral Type/Grade UPC No.		
		2S CRS	2S MED	2S FIN
6" x 1" x 1"	3	048011-13170-2	048011-13171-9	048011-13172-6
6" x 2" x 1"	2	048011-13176-4	048011-13177-1	048011-13178-8
6" x 3" x 1"	1	048011-13179-5	048011-13180-1	048011-13181-8
6" x 4" x 1"	1		048011-13358-4	
8" x 1" x 3"	3	048011-13182-5	048011-13183-2	048011-13184-9
8" x 2" x 3"	2	048011-13185-6	048011-13186-3	048011-13187-0

Cut & Polish Wheels

Heavy duty wheels for aggressive blending and finishing

Long-lasting and aggressive, Cut & Polish wheels perform well on all kinds of tough blending and finishing jobs. They produce uniform results quickly and easily and are often used to replace conventional abrasives such as rubber bonded wheels, set-up wheels, abrasive flap wheels and belts.



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Stock Sizes *

Size Dia.xWxAH	Wheels/ Case	Density/Mineral Type/Grade UPC No.				
		7A CRS	7A MED	7A FIN	7A VFIN	5A FIN
6" x 1/2" x 1"	4					048011-05182-6
6" x 1" x 1"	3	048011-03263-4	048011-03262-7	048011-03270-2	048011-03269-6	048011-02960-3
6" x 2" x 1"	2		048011-03272-6			048011-02972-6
8" x 1/2" x 3"	4		048011-05183-3			
8" x 1" x 3"	3		048011-03276-4	048011-03275-7		048011-02965-8
8" x 2" x 3"	2	048011-03282-5	048011-03281-8			048011-02967-2

* Additional sizes available as stock or made-to-order.

Accessories – Scotch-Brite™ Wheels

3M™ Flange Adaptor No. 3

Used to reduce 1" internal diameter core size, flange size or wheel size to fit shafts smaller than 1" diameter. This item is a stamped and formed sheet metal product.

Product	Size	Sets/Case	UPC No.
3	1" x 3/8"	1	048011-09151
3	1" x 1/2"	1	048011-09152
3	1" x 5/8"	1	048011-09153
3	1" x 3/4"	1	048011-09154
3	1" x 7/8"	1	048011-09155

3M™ Flange Adaptor No. 5

Telescoping wheel adaptors 1" and 1/2" wide to reduce 1" wheel center holes to fit 1/2", 5/8", 3/4", or 7/8" shafts.

Use with a set of flat or cupped washers 1/3 the diameter of the wheel for side support.



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Product	Size	Sets/Case	UPC No.
5	1" x 1/2" x 1/2"	1	048011-16859
5	1" x 1" x 1/2"	1	048011-16860

3M™ Recessed Flange No. 355

Used to reduce 3" internal diameter core size to fit shafts smaller than 3" diameter when a protruding locking nut is not desirable.

A recessed flange is mounted on the outboard side of the brush or wheel and the locking nut may be installed within the area of the recess. A stamped and formed sheet metal product.



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Product	Size Dia.xAH	Sets/Case	UPC No.
355 Recessed	3" x 1/2"	1	048011-03885
355 Recessed	3" x 5/8"	1	048011-03884

3M™ Flange No. 356

Used to reduce wheel cores and internal diameters to fit smaller shaft sizes. This product spans a range of sizes. It is manufactured of spun aluminum, has a taper locking feature to automatically center the flange inside the core of the wheel.



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Product	Size Dia.xAH	Sets/Case	UPC No.
356	3" x 1/2"	1	048011-03896
356	3" x 5/8"	1	048011-03897
356	3" x 3/4"	1	048011-03898
356	3" x 7/8"	1	048011-18407
356	3" x 1"	1	048011-03899
356	3" x 1 1/4"	1	048011-03900
356	3" x 1 1/2"	1	048011-04307

3M™ Flange No. 365

This flange was specifically designed for use with wheels that are 1/2" wide and have a 3" diameter center hole. (For wheels wider than 1/2", use 3M Flange no. 356). The flange no. 365 is used to reduce the wheel core internal diameter to fit smaller shaft sizes. This product spans a range of sizes. It is made of spun aluminum and has a taper locking feature to automatically center the flange inside the core of the wheel.

Product	Size Dia.xAH	Sets/Case	UPC No.
365	3" x 1/2"	1	048011-18410
365	3" x 5/8"	1	048011-18411
365	3" x 3/4"	1	048011-18412
365	3" x 7/8"	1	048011-18413
365	3" x 1"	1	048011-18414
365	3" x 1 1/4"	1	048011-18415

3M™ Spindle Extender Kit No. 300

For use on flexible shafts with 6" and 8" diameter Scotch-Brite wheels through 4" in width.



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Consists of

- (1) driving spindle 5/8" - 11 female thread
- (1) washer with 5/8" arbor hole
- (2) 1" x 5/8" bushings
- (1) flange adaptor 5/8"
- (1) spanner nut 1/2" - 13 female threaded shank available by special request (051144-05622).

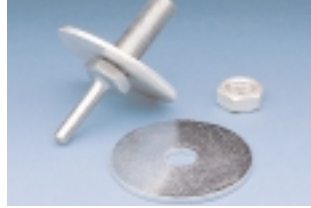
Product	Kits/Case	UPC No.
300	1	048011-04019

3M™ Mandrels

Mandrels are corrosion protected and machined to industrial standards of thread size and shaft diameters. They are designed for use with Scotch-Brite Unitized Wheels. Mandrels are furnished complete with washers to fit available wheel sizes.



Mandrel No. 931, 932, 933



Mandrel No. 934



Mandrel No. 936 and 946



Mandrel No. 990



Mandrel No. 992 and 994



Mandrel No. 991



Mandrel No. 996 and 998

Product	Use With	Length	Shank Size	Wash. Diam.	Max. Oper. RPM
931	Unitized Wheels 1", 1 1/2" dia. x 1/4" wd x 1/8" CH	1 1/2"	1/8"	1/2"	13,000
932	Unitized Wheels 1 1/2", 2" dia. x 1/4", 1/2" wd x 1/4" CH Note: 5/16" CH is recommended for wheels 6 density or harder	2"	1/4"	13/16"	20,000
933	Unitized Wheels 2", 2 1/2", 3" dia. x 1/4", 1/2", 3/4", 1" wd x 1/4" CH Note: 5/16" CH is recommended for wheels 6 density or harder	2"	1/4"	1"	14,000
934	Unitized Wheels 3"-6" dia. x 1/4", 1/2" 3/4", 1" wd x 1/2" CH	3 1/16"	1/4"	2 1/2"	12,000 w/3" dia. 8,500 w/4" dia. 6,000 w/6" dia.

Product	Use With	Length	Shank Size	Wash. Diam.	Max. Oper. RPM
936 (Plastic)	Unitized Wheels 1" x 1" x 3/16"	2 1/16"	1/4"	N/A	22,200
946 (Steel)	Unitized Wheels 1" x 1" x 3/16"	1 3/4"	1/4"	1/2" Hex Nut Dia.	35,200
990	Unitized Wheels 2"-3" dia. x 1/8" - 1/2" wd* w/2" dia. x 3/8" CH	1 3/4"	1/4"	None	25,200 22,200 w/2 1/2" dia. 18,200 w/3" dia.
991	Unitized Wheels 2"-3" dia. x 1/2" - 1" wd** x 3/8" CH	1 1/8"	1/4"	None	25,200 w/2" dia. 22,200 w/2 1/2" dia. 18,200 w/3" dia.
992	Unitized Wheels 1"-1 1/2" dia. x 1/8" - 1/2" wd* x 3/16" CH	1 1/2"	1/8"	None	35,200 w/1 1/2" dia. 30,200 w/1 1/2"
994	Unitized Wheels 1"-1 1/2" dia. x 1/8" - 1/2" wd* x 3/16" CH	1 1/2"	1/4"	None	35,200 w/1" dia. 30,200 w/1 1/2" dia.
996	Unitized Wheels 1/2"-3/4" dia. x 1/8"-1/4" wd x 1/8" CH	1 1/16"	1/8"	None	40,200 w/1 1/2" and 3/4" dia.
998	Unitized Wheels 1/2"-3/4" dia. x 1/8"-1/4" wd x 1/8" CH	1 1/16"	1/4"	None	40,200 w/1 1/2" and 3/4" dia.

* These mandrels come with two caps, one silver for 1/8" and 1/4" wide wheels and one black for 3/8" and 1/2" wide wheels.

Product	Mandrels/Case	UPC No.
931	5	048011-13966
932	5	048011-13967
933	5	048011-13968
934	1	048011-04021
936	5	048011-04018
944	1	048011-13928
946	5	048011-05726
990	5	048011-15012
990 Bulk	60	048011-15015
991	5	048011-16847
992	5	048011-15013
994	5	048011-16848
996	5	048011-15014
998	5	048011-16849

Roloc™ + Holders & Button Combination Packs

These combination packs contain one Roloc + Holder No.1 and one Roloc + Button No. 6 or 7.

Product Specifications

Product	Use With
No. 1 and No. 6	Unitized Wheels 3" Diameter and smaller x 1/8" wide x 3/8" CH
No. 1 and No. 7	Unitized Wheels 3" Diameter and smaller x 1/4" wide x 3/8" CH

Product	Sets/Case	UPC No.
No. 1 and No. 6	5	048011-14916
No. 1 and No. 7	5	048011-14915

Introductory Packs

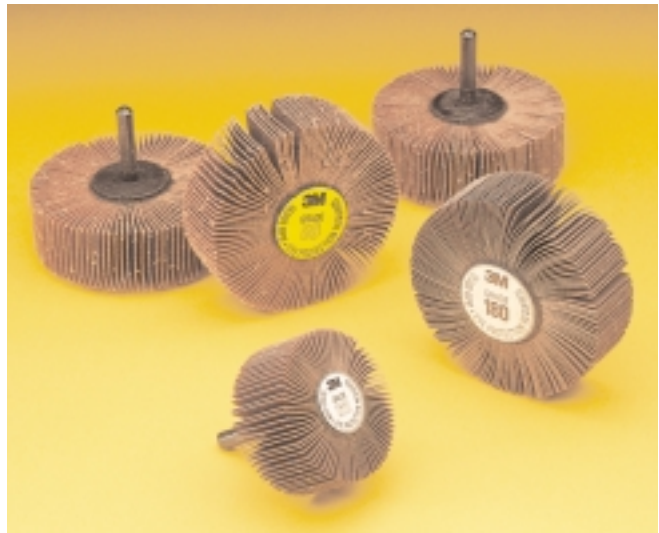
A convenient introductory pack of assorted EXL unitized wheels and/or EXL Deburring Wheels lets you decide which product is right for you.

Product	Contents	
990S	EXL Unitized Wheels 2 ea. 2S FIN 1" x 1" x 3/16" 2 ea. 2A MED 1" x 1" x 3/16" 2 ea. 6A MED 1" x 1" x 3/16" 2 ea. 8A CRS 1" x 1" x 3/16" 1 ea. 2S FIN 3" x 1/4" x 3/8" 1 ea. 2A MED 3" x 1/4" x 3/8" 1 ea. 6A MED 3" x 1/4" x 3/8" 1 ea. 8A CRS 3" x 1/4" x 3/8" Mandrels 1 ea. 936 1 ea. 990 with Silver cap	
992S	EXL Unitized Wheels 4 ea. 6A MED 1/2" x 1/8" x 1/8" 4 ea. 8A CRS 1/2" x 1/8" x 1/8" 2 ea. 2S FIN 1" x 1/4" x 1/8" 2 ea. 6A MED 1" x 1/8" x 1/8" 2 ea. 8A CRS 1" x 1/8" x 1/8" 2 ea. 2S FIN 1 1/2" x 1/4" x 3/16" 2 ea. 6A MED 1 1/2" x 1/8" x 3/16" 2 ea. 8A CRS 1 1/2" x 1/8" x 3/16" 2 ea. 2S FIN 2" x 1/4" x 3/16" 2 ea. 6A MED 2" x 1/8" x 3/16" 2 ea. 8A CRS 2" x 1/8" x 3/16" Mandrels 1 ea. 992 with short cap 1 ea. 994 with short cap 1 ea. 996 1 ea. 998	
EXL	EXL Deburring Wheel 1 ea. 8A MED 6" x 1" x 1" EXL Unitized Wheel 1 ea. 2A MED 6" x 1/2" x 1" Flange Adaptor No. 5 1 ea. 1" x 1/2" x 1/2" 1 ea. 1" x 1" x 1/2"	
Product	Packs/Case	UPC No.
990S	5	048011-18245
992S	5	048011-15509
EXL	5	048011-16405

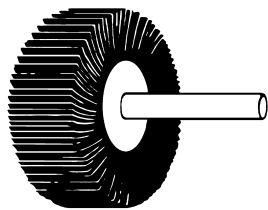
3M™ PG wheels deliver a consistent finish and a uniform rate of cut. They are non-loading, non-glazing and non-dulling. As they are used the flaps wear away to continually expose new abrasive. PG wheels can be shaped to fit any desired contour, even a compound radius. There is a full line of accessories that complements the PG wheel line to give you the best possible finish in the least time.

3M™ 747D Regalite™ Polycut™ Resin Bond Cloth X Wt.

Premium aluminum oxide mineral and Cubitron ceramic aluminum oxide coated on a cloth backing. Incorporates a grinding aid (excellent for stainless).



104



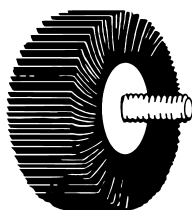
T83 - 1/4" straight



105

Size Dia. x W x Shk.	Prod. I.D.	Min. Pkg./Case	Max. Oper. RPMs	Grade and UPC No.*								
				40	60	80	100	120	150	180	240	320
T83												
1" x 1" x 1/4"	747D	10	25,000	80761	80757		80753					
1 1/2" x 1" x 1/4"	747D	10	22,000	80762	80758		80754					
2" x 1" x 1/4"	747D	10	20,000	80763	80759		80755					
2 1/2" x 1" x 1/4"	747D	10	18,000	80764	80760		80756					
3" x 1" x 1/4"	747D	10	18,000	80650	80651		80652					

* Add Prefix 051144- to UPC No. when ordering.



T84 - 1/4" x 20 threaded



106

Size Dia. x W x Thd.	Prod. I.D.	Min. Pkg./Case	Max. Oper. RPMs	Grade and UPC No.*								
				40	60	80	100	120	150	180	240	320
T84												
2" x 1/2" x 1/4"	747D	10	20,000	49628**	49631**		83266					
2" x 1" x 1/4"	747D	10	20,000	83271	83268		83265					
2 1/2" x 1" x 1/4"	747D	10	18,000	83270	49632**		83264					
3" x 1" x 1/4"	747D	10	18,000	83269	83267		83263					

* Add Prefix 051144- to UPC No. when ordering.

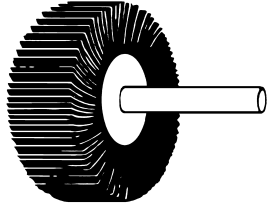
** Add Prefix 051111- to UPC No. when ordering.

3M™ 244E Three-M-ite™ RB Cloth XE Wt.

3M™ 241E Three-M-ite™ RB Cloth XE Wt.

3M™ 241D Three-M-ite™ RB Cloth X Wt.

Our standard aluminum oxide PG wheels with durable rayon or cotton drills backing.



T83 - 1/4" straight



107

Size Dia. x W x Shk.	Prod. I.D.	Min. Pkg./Case	Max. Oper. RPMs	Grade and UPC No.*								
				40	60	80	100	120	150	180	240	320
1" x 1/2" x 1/4"	244E	10	25,000		96800	96801		96802		96803	96804	
	241E	10										96805
1" x 1" x 1/4"	244E	10	25,000		35475	35476		35477				96806
	241E	10										96807
1 1/2" x 1/2" x 1/4"	244E	10	22,000		96808	96809		96810		96811	96812	
	241E	10										96813
1 1/2" x 1" x 1/4"	244E	10	22,000		35472	35473		49636**				96815
	241E	10										96816
2" x 1/2" x 1/4"	244E	10	20,000		14611	96818		49633**		96820	96821	
	241E	10										96822
2" x 1" x 1/4"	244E	10	20,000		14623	14624		14625				96823
	241E	10										96824
2" x 1 1/2" x 1/4"	244E	10	20,000		96825	96826		96827		96828		
2 1/2" x 1" x 1/4"	244E	10	18,000		49626**	14640		14641				
2 1/2" x 1 1/2" x 1/4"	244E	10	18,000		96829	96830		96831				
3" x 1/2" x 1/4"	244E	10	18,000		14643	14644		14645		96832	96833	
	241E	10										96834
3" x 1" x 1/4"	241D	10	18,000	96835								
	244E	10			14655	14656		14657			96836	
	241E	10										96837
3" x 2" x 1/4"	244E	10	18,000		49635**	49630**		49634**				

* Add Prefix 051144- to UPC No. when ordering.

** Add Prefix 051111- to UPC No. when ordering.

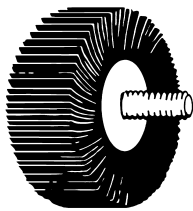
Kut stock items

3M™ 244E Three-M-ite™ RB Cloth XE Wt.

3M™ 241E Three-M-ite™ RB Cloth XE Wt.

3M™ 241D Three-M-ite™ RB Cloth X Wt.

Our standard aluminum oxide PG wheels with durable rayon or cotton drills backing.



T84 - 1/4" x 20 threaded



108

Size Dia. x W x Thd.	Prod. I.D.	Min. Pkg./Case	Max. Oper. RPMs	Grade and UPC No.*									
				40	60	80	100	120	150	180	240	320	
1" x 5/8" x 1/4" - 20	241D	10	25,000	96841									
	244E	10			96842	96843	96844	96845		96846	96847		
	241E	10										96848	
1" x 1" x 1/4" - 20	241D	10	25,000	96849									
	244E	10			35467	35468	96850	35469		96851	96852		
	241E	10										96853	
1 1/2" x 1" x 1/4" - 20	244E	10	22,000		49627**	35465		49700**					
2" x 1/2" x 1/4" - 20	241D	10	20,000	96860									
	244E	10			96861	96862				96863	96864		
	241E	10										96865	
2" x 1" x 1/4" - 20	241D	10	20,000	96866									
	244E	10			14575	14576		14577			96867		
	241E	10										96868	
2" x 1 1/2" x 1/4" - 20	244E	10	20,000		96869	96870		96871		96872			
2 1/2" x 1/2" x 1/4" - 20	244E	10	18,000		96873	96874		96875		96876	96877		
	241E	10										96878	
2 1/2" x 1" x 1/4" - 20	244E	10	18,000		14591	14592		14593		96879	96880		
	241E	10										96881	
3" x 1/2" x 1/4" - 20	244E	10	18,000		96882	96883		96884		96885	96886		
	241E	10										96887	
3" x 1" x 1/4" - 20	241D	10	18,000	96888									
	244E	10			14607	14608	96889	14609		96890			
	241E	10										96891	

* Add Prefix 051144- to UPC No. when ordering.

* Add Prefix 051111- to UPC No. when ordering.

Kut stock items

3M™ 741A Regalite™ RB Cloth X Wt.

Combines the characteristics of aluminum oxide with 3M's Cubitron™ Mineral on a strong X wt. backing. The 3M 741A product is applicable for use on both ferrous and non-ferrous metals.

Size Dia. x W x AH	Prod. I.D.	Min. Pkg./Case	Max. Oper. RPMs	Grade and UPC No.*											
				40	50	60	80	100	120	150	180	220	240	320	
6" x 1" x 1"	741A	1/5	6,100		82770	81986	81984								
6" x 1½" x 1"	741A	1/5	5,600			81987	81985			81982					
6" x 2" x 1"	741A	1/5	5,200			81988	81989			81983					

* Add Prefix 051144- to UPC No. when ordering.

3M™ 244E Three-M-ite™ RB Cloth XE Wt.

3M™ 241D Three-M-ite™ RB Cloth X Wt.

3M™ 241E Three-M-ite™ RB Cloth XE Wt.

Our standard aluminum oxide PG wheels with durable rayon or cotton drills backings.



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Size Dia. x W x AH	Prod. I.D.	Min. Pkg./Case	Max. Oper. RPMs	Grade and UPC No.*											
				40	50	60	80	100	120	150	180	220	240	320	
T80															
3½" x 1" x 5/8"	244E	1/10	10,000		96895	96896	96897	96898	96899						
3½" x 1½" x 5/8"	241D	1/10	9,500	96900											
	244E	1/10			84098	96901			84100						
3½" x 2" x 5/8"	241D	1/10	9,000	96902											
	244E	1/10			96903	96904			96905		96906				
4" x 1" x 5/8"	241D	1/10	9,000	96907											
	244E	1/10			84097	96908			84099		96909				
4" x 1½" x 5/8"	241D	1/10	8,500	96910											
	244E	1/10				96911	96912		96913				96914		
4" x 2" x 5/8"	244E	1/10	7,500		96915	84103	84102		96916		96917				
4" x 4" x 3/4"	244E	1/10	7,500												
5" x 1½" x 5/8"	241D	1/10	6,800	96918											
	244E	1/10				96919	96920		96921		96922				
Medium															
6" x ½" x 1"	244E	1/5	6,400			96923	96924	96925	96926	96927	96928				
6" x 1" x 1"	241D	1/5	6,100	96929											
	244E	1/5			35114	35113	35112	35111	35109	35108		35105	96930		
	241E	1/5												35103	
6" x 1½" x 1"	241D	1/5	5,600	96931											
	244E	1/5			35102	35100	35098		35095				96932		
	241E	1/5						55816**						96933	
6" x 2" x 1"	241D	1/5	5,200	96934											
	244E	1/5			35089	35088	35086	35330	35084	35083		35081			
6" x 2½" x 1"	244E	1/5	5,200												
6" x 3" x 1"	244E	1/5	4,500			96935	35070		96936		96937				
8" x 1" x 1"	244E	1/3	4,600					35063							
8" x 2" x 1"	244E	1/3	3,900				35049	35048							
10" x 2" x 1¾"	244E	1/2	3,900					35014							
14" x 2" x 1¼"	241D	1/1	3,000							35032					

* Add Prefix 051144- to UPC No. when ordering.

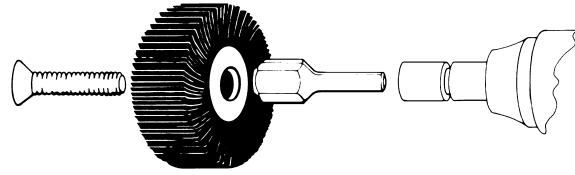
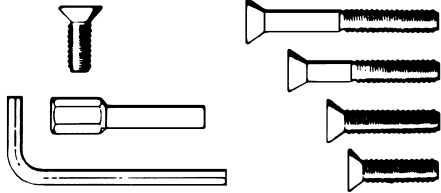
** Add Prefix 051119- to UPC No. when ordering.

Kut stock items

Accessories – PG Wheels

3M™ PG™ Wheel Adaptor No. 1

For 2" thru 3" Diameter Wheels. Adaptor includes one female threaded shaft, 5 screws in varying lengths to accommodate wheels from 1/2" to 2" wide and one hex wrench.

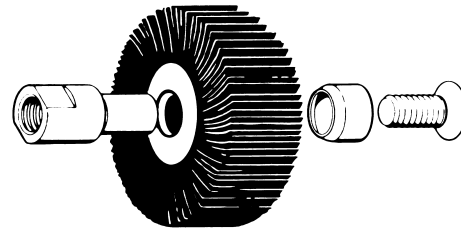
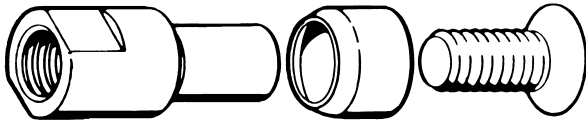


UPC No.

051144-45043

3M™ PG™ Wheel Adaptor No. 2

For 3 1/2" or 4" Diameter Wheels. Adaptor includes spindle extension 2 screws and one sleeve to accommodate wheels 1", 1 1/2" and 2" wide. Available spindle diameters and thread counts are 5/8"-11, 1/2"-13, or 1/4" shank.



Size

UPC No.

5/8"-11 Thread

051144-45040

1/4" Shank

051144-45041

3M™ Wheel Adaptor Kit No. 3

Two arbor hole (plug type) adaptors for 5" thru 8" diameter PG Wheels. 1" O.D. x various ID's.

Fits Arbor Size

UPC No.

7/8"

051144-45032

3/4"

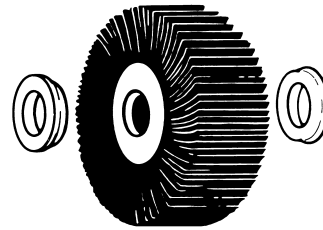
051144-45033

5/8"

051144-45034

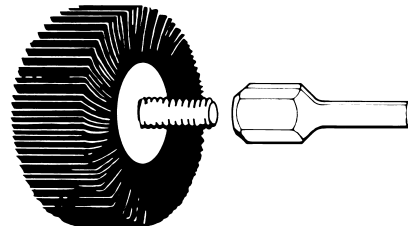
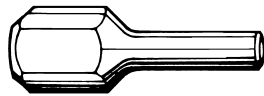
1/2"

051144-45035



3M™ Wheel Adaptor No. 81A

For use with Type 84 PG Wheels. This adaptor has a 1/4" diameter shank and a 1/4"-20 thread female acceptor end.

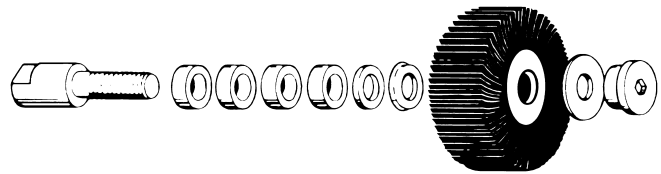


UPC No.

051144-45081

3M™ Flange Adaptor Kit No. 3

Adaptor includes spindle extension for use on short spindles, four spacer bushings, 1/2" width spacer bushing, an arbor hole adaptor (plug type) and a cap nut to bush the flanges and providing 3", in 5" thru 8" diameters.



Size

UPC No.

5/8"-11 Thread

051144-45038

Green Corps™ Cut-Off Wheels

Green Corps™ Cut-Off Wheels are designed to provide high cut rates and long life on most all materials including fiber-glass, stainless steel, mild steel and aerospace alloys. Green Corps Wheels incorporate 3M's patented Cubitron ceramic abrasive grain technology and are ideal for use on a wide variety of utility type cut-off tools. Read all warnings supplied with wheels. Do not use on tools without guards.

Size	Pkg. Min./Unit	Max. RPMs	UPC No.
2" x 1/16" x 1/4"	bulk 50 wheels/box	42,000	051144-83487
3" x 1/32" x 1/4"	bulk 50 wheels/box	35,000	051144-82238
3" x 1/32" x 3/8"	bulk 50 wheels/box	35,000	051131-01985
3" x 1/16" x 3/8"	bulk 50 wheels/box	28,000	051131-01986
4" x 1/32" x 3/8"	bulk 50 wheels/box	26,250	051131-01994
4" x 1/16" x 3/8"	bulk 50 wheels/box	21,000	051144-83488

3M™ Green Corps Reinforced Weld Grinding Wheel

Read all warnings supplied with wheels. Do not use on tools without guards.

Size	Pkg. Min./Unit	Max. RPMs	UPC No.
3" x 3/16" x 3/8"	5 pack/ 5 packs case	20,375	051131-01991

General Purpose Cut-Off Wheels

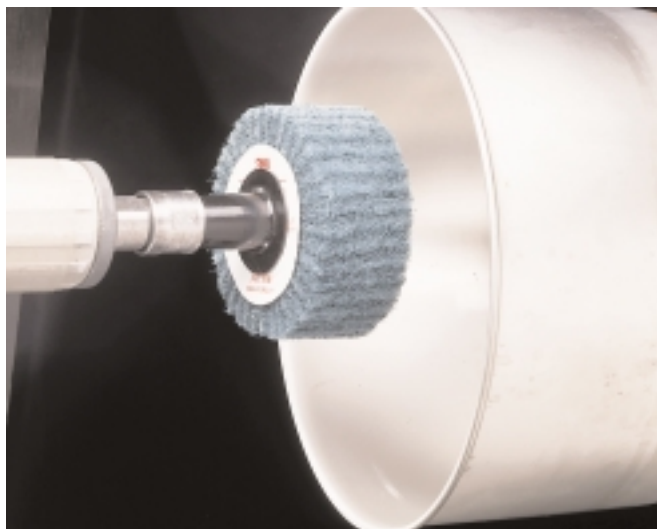
Size	Wheels per case	Max. RPMs	UPC No.
3" x 1/32" x 3/8"	50 wheels per case	25,000	051131-01987
3" x 1/16" x 3/8"	50 wheels per case	25,000	051131-01988



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Bench Area Products

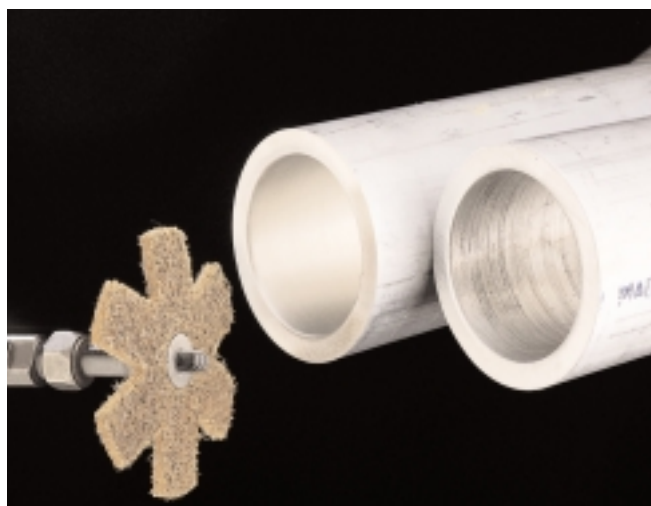
When portable power tools are used in bench area operations, 3M helps keep things moving with a full line of money-saving, quality boosting coated abrasives and surface conditioning products. Each is designed to deliver outstanding results and to speed up time-consuming jobs such as grinding, deburring, blending, cleaning, and finishing of flat and irregular surfaces and hard-to-reach areas.



Scotch-Brite high performance flap brushes (CFFB) provide consistent finishes. Shown here with the 3M Roloc + holding system.



Scotch-Brite spindle mounted ganged discs provide a high degree of conformability.



Scotch-Brite stars mount singly or in combination for efficient I.D. cleaning and polishing operations.

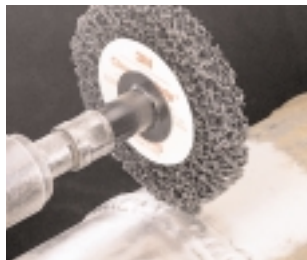
A complete grinding and surface conditioning system

Used individually or as part of a complete grinding and surface conditioning sequence, each 3M product maximizes results in your bench area operations. Often, the combination of 3M coated abrasives and Scotch-Brite surface conditioning products can eliminate the need for intermediate grinding or blending steps.

CSD1-R, CSD1-S, CSD2-R, CSD2-S

Either one Clean and Strip Disc (CSD1) or two Clean and Strip Discs (CSD2) mounted to a shaft. These products are excellent for heavy duty cleaning of rusts, oxides, paints, and coatings. Cleans much faster and safer than wire brushes.

Color: Black



114



115

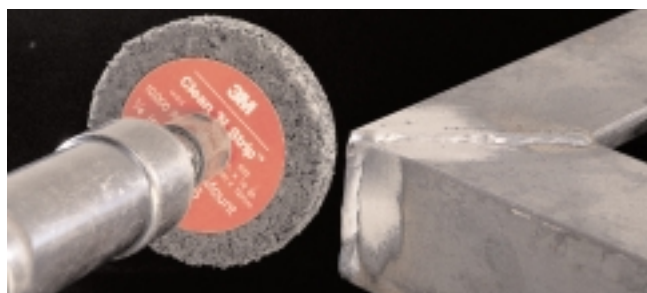
Size	Prod. I.D.	Brushes/ Case	Max. Oper. RPMs	Mineral Type/Grade UPC No.	
				S	XCS
4" x 1/2"	CSD1-R	10	8,000	048011-14592	
4" x 1"	CSD2-R	10	8,000	048011-14784	
4" x 1/2" x 1/4"	CSD1-S	10	8,000	048011-14579	
4" x 1" x 1/4"	CSD2-S	10	8,000	048011-14780	

Accessories: Roloc+ Holder No. 2 for CSD1-R and CSD2-R. See pg. 60.

HPCSD1-R, HPCSD1-S

Clean and Strip web in convenient disc form. Used extensively in maintenance type applications for removing oxides, scale and rust as well as weld conditioning and cleaning. The modern efficient alternative to wire brushes and scrapers. A tough cleaning product. Provides much longer life than CSD1 products with slightly less conformability.

Color: Gray



116

Size	Prod. I.D.	Discs/ Case	Max. Oper. RPMs	Mineral Type/Grade UPC No.	
				S	XCS
3" x 1/2"	HPCSD1-R	10	10,000	048011-14591	
4" x 1/2"	HPCSD1-R	10	8,000	048011-14777	
3" x 1/2" x 1/4"	HPCSD1-S	10	10,000	048011-14782	
4" x 1/2" x 1/4"	HPCSD1-S	10	8,000	048011-14785	

Accessories: Roloc+ Holder No. 2 for HPCSD1-R. See pg. 60.

CPD5-R, CPD5-S

Five discs of tough Cutting and Polishing Scotch-Brite Web ganged together on a shaft. Use for satin or antique finishing as well as light to medium duty cleaning applications.

Color: Tan



117

Size	Prod. I.D.	Discs/ Unit	Max. Oper. RPMs	Mineral Type/Grade UPC No.	
				A	MED
3" x 1/4"	CPD5-R	10	10,000	048011-14594	
4" x 1/4"	CPD5-R	10	8,000	048011-14590	
3" x 1/4" x 1/4"	CPD5-S	10	10,000	048011-14593	
4" x 1/4" x 1/4"	CPD5-S	10	8,000	048011-14779	

Accessories: Roloc+ Holder No. 2 for CPD5-R. See pg. 60.

CPFB-R, CPFB-S

Flaps of heavy duty Cutting and Polishing web. Will leave a uniform surface finish while removing handling marks and surface imperfections. A long-life flap brush.

Color: Tan



118

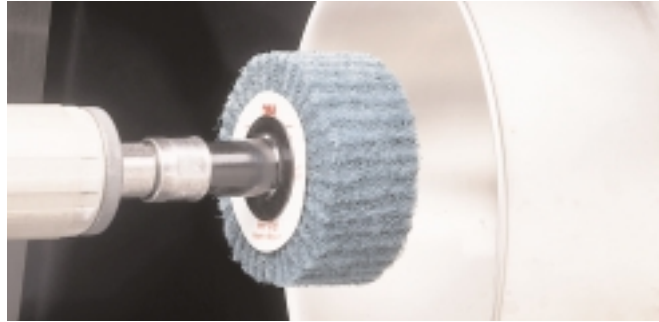
Size	Prod. I.D.	Discs/ Unit	Max. Oper. RPMs	Mineral Type/Grade UPC No.	
				A MED	
2" x 1" x 1/4"	CPFB-S	25	12,000	048011-16622	
3" x 1 3/8"	CPFB-R	10	8,000	048011-14588	
3" x 1 3/4" x 1/4"	CPFB-S	10	8,500	048011-05974	

Accessories: Roloc+ Holder No. 2 for CPFB-R. See pg. 60.

CFFB-R, CFFB-S

Scotch-Brite high performance finishing web made into a flap brush. The high performance web outlasts conventional webs while giving a longer scratch pattern ideal for decorative finishing and light deburring applications.

Color: Green



119

Size	Prod. I.D.	Brushes/ Case	Max. Oper. RPMs	Mineral Type/Grade UPC No.	
				A CRS	S FIN
3" x 1 3/8"	CFFB-R	10	7,500	048011-14587	048011-14783
3" x 1 3/4" x 1/4"	CFFB-S	10	8,500	048011-05975	048011-14781

Accessories: Roloc+ Holder No. 2 for CFFB-R. See pg. 60.

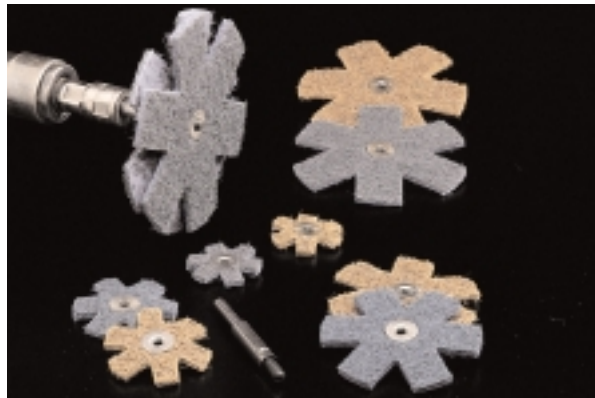
Stars

Scotch-Brite Stars are the perfect choice for cleaning and polishing I.D. of pipe and tubing. Their unique shape allows the star tips to provide constant outward pressure on the walls of parts made of steel, aluminum or plastic so you can quickly get a smooth, consistent cleaning action.

Scotch-Brite Stars are available in a variety of sizes and grades and are designed to work with the 3M™ Brand Mandrel No. 944. They can be used with power bench tools such as die grinders, straight-shaft grinders, or electric drills.

Color: A VFN - Blue

A CRS - Brown



120

Size	Stars/ Unit	Max. Oper. RPMs	Mineral Type/Grade UPC No.	
			A VFN	A CRS
1 1/2"	100	24,000	048011-13800	048011-13370
2"	100	24,000	048011-13803	048011-13371
3"	50	18,000	048011-13802	048011-13372
4"	50	18,000	048011-13804	048011-13373
4 1/2"	50	18,000	048011-13801	048011-13374

Accessories: Mandrel No. 944. See pg. 60.

3M™ COMBI Wheels

These unique wheels are a combination of aluminum oxide coated abrasive and Scotch-Brite™ Brand material. They are designed for a variety of surface finishing and blending operations on a large variety of workpieces.

3M™ COMBI-R

(Roloc™ Shaft)



121

Size	Prod. I.D.	Max. Oper. RPMs	Wheels/Case	Grade and UPC No.		
				80X	P120X	P180X
2 1/2" x 1 1/4"	Combi-R	9,000	10	051144-80802	051144-80679	051144-80800

3M™ COMBI-S

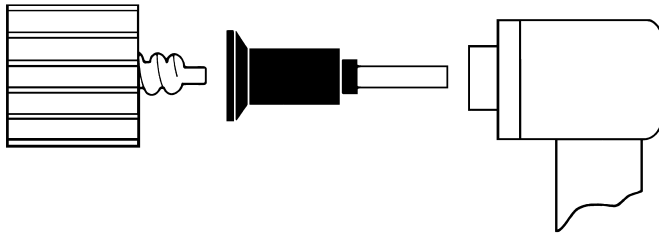
(Spindle Mount)



122

Size	Prod. I.D.	Max. Oper. RPMs	Wheels/Case	Grade and UPC No.		
				80X	P120X	P180X
3" x 1 3/4" x 1/4"	Combi-S	8,000	10	051144-80801	051144-80678	051144-80799

Roloc™+ Holder No. 1

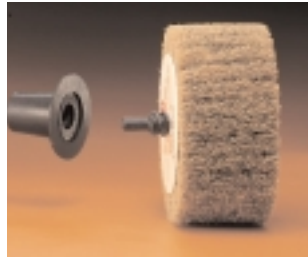


Product I.D.	Pkg. Min./Unit	UPC No.
Roloc+ Holder No. 1	5/cs	048011-15408
Roloc+ Holder No. 1	40/cs	048011-14586

Accessories – Bench Area

Roloc™ + Holder

These holders are made of a durable plastic for less critical grinding and surface conditioning applications. They are compatible with Roloc+ products.



123

Product	Dia.	Use With	Max. Oper. RPMs	Holders/Case	UPC No.
1	1"	COMBI-R's	25,000	5	048011-15408
2	1½"	ROLOC+ Products	25,000	5	048011-15409
2	1½"	ROLOC+ Products	25,000	40	048011-14585
3	2"	2" diameter Roloc Discs	25,000	5	048011-15410
3	2"	2" diameter Roloc Discs	25,000	40	048011-14584
4	3"	3" diameter Roloc Discs	25,000	5	048011-15411
4	3"	3" diameter Roloc Discs	25,000	20	048011-14583

3M™ Mandrel No. 944



124

Use With	Size	Maximum Oper. RPMs
Scotch-Brite Stars	¼" shank with ¼"-20 external thread	25,000

Product	Mandrels/Case	UPC No.
944	1	048011-13928

Introductory Pack

This convenient introductory deal is an easy and convenient way to try various sizes and grades.



125

Product	Contents
944S	Stars 2 ea. A VFN 1½" 2 ea. A VFN 2" 2 ea. A VFN 3" 2 ea. A VFN 4" 2 ea. A CRS 1½" 2 ea. A CRS 2" 2 ea. A CRS 3" 2 ea. A CRS 4" Mandrel 1 ea. 944

Product	Packs/Case	UPC No.
944S	5	048011-18255

Cartridge Rolls

3M manufactures cartridge rolls in a wide variety of shapes and sizes to let you get into all the hard-to-get-at areas on your workpieces. They are available in both straight and full taper shapes. See the accompanying tables for descriptions of the various constructions. We also offer a complete line of accessories for use with these cartridge rolls.



126



127



128

3M™ 747D Regalite™ Polycut™ Resin Bond Cloth X Wt.

These premium constructed cartridge rolls utilize 3M's Cubitron & aluminum oxide minerals coated on an X-wt. cotton backing. An outstanding value for use on a variety of exotic and other metals.

Full Taper

Regular

Size	Prod. I.D.	Pkg. Min./Unit	Grade and UPC No.		
			60X	80X	120X
Regular					
1/4" dia. x 1" L x 1/8" CH	747D	50/200		051144-80793	
3/8" dia. x 1" L x 1/8" CH	747D	50/200	051144-80789	051144-80794	051144-80791
1/2" dia. x 1 1/2" L x 1/8" CH	747D	50/200	051144-80790	051144-80796	051144-80792
5/8" dia. x 1" L x 3/16" CH	747D	50/200	051144-98938		
3/4" dia. x 1 1/2" L x 1/8" CH	747D	50/200		051144-80797	
3/4" dia. x 1 1/2" L x 1/4" CH	747D	50/200		051144-80798	
Full Taper					
1/2" dia. x 1 1/2" L x 1/8" CH	747D	50/200		051144-80787	
3/4" dia. x 1 1/2" L x 1/8" CH	747D	50/200	051144-80786	051144-80785	051144-80788

Maximum Operating RPMs:

1/2" and smaller dia. – 24,000
 5/8"–3/4" dia. – 16,000
 1" dia. – 12,000

3M™ 241D Three-M-ite™ Resin Bond Cloth X Wt.

These resin bond cartridge rolls provide greater heat and moisture resistance than glue type products and will usually produce a higher rate of cut and longer life.



129

Size Dia x W x AH	Prod. I.D.	Pkg. Min./Unit	Grade and UPC No.*										
			36	40	50	60	80	100	120	150	180	240	320
Regular													
3/16" x 1" x 3/32"	241D	50/200		96939		96940	96941	96942	96943	96944	96945	96946	96947
1/4" x 3/4" x 1/8"	241D	50/200		96948	96949	96950	96951	96952	96953		96954	96955	96956
1/4" x 1" x 1/8"	241D	50/200		96957	96958	96959	14021	96960	96961	96962	96963	96964	96965
1/4" x 1 1/2" x 1/8"	241D	50/200		96966	96967	96968	96969	96970	96971	96972	96973	96974	96975
1/4" x 2" x 1/8"	241D	50/200		96976	96977	96978	96979	96980	96981		96982	96983	96984
5/16" x 1" x 1/8"	241D	50/200		96985	96986	96987	96988	96989	96990	96991	96992	96993	96994
5/16" x 1 1/2" x 1/8"	241D	50/200		96995	96996	96997	96998	96999	97000		97001	97002	97003
3/8" x 1" x 1/8"	241D	50/200		97004	97005	14024	14023	97006	14022	97007	97008		97010
3/8" x 1 1/2" x 1/8"	241D	50/200	96938	97011	97012	97013		97014	97015	97016	97017	97018	97019
3/8" x 2" x 1/8"	241D	50/200		97020	97021	97022	97023	97024	97025	97026		97027	97028
1/2" x 3/4" x 1/8"	241D	50/200		97029	97030	97031	97032	97033	97034	97035	97036	97037	97038
1/2" x 1" x 1/8"	241D	50/200		97039	97040	97041	97042	97043	97044	97045	97046	97047	97048
1/2" x 1" x 3/16"	241D	50/200		97049	97050	97051	97052		97053		97054		
1/2" x 1 1/2" x 1/8"	241D	50/200	97055	97056	97057	14028	14027		14026	97058	97059	97061	97062
1/2" x 2" x 1/8"	241D	50/200		97063	97064	97065	97066	97067	97068	97069	97070	97071	97072
1/2" x 2" x 3/16"	241D	50/200		97073	97074	97075	97076	97077	97092	97093	97578	97094	97095
5/8" x 1" x 3/16"	241D	50/200		97096		97097	97098		97099	97100	97101	97102	97103
5/8" x 1 1/2" x 1/8"	241D	50/200		97104		97105	97106	97107	97108	97109	97110	97111	97112
5/8" x 1 1/2" x 3/16"	241D	50/200		97113	97114	97115	97116	97117	97118	97119	97120	97121	97122
5/8" x 2" x 3/16"	241D	50/200		97123	97124	97125	97126	97127	97128	97129	97130	97131	97132
3/4" x 1" x 1/8"	241D	50/200		97133	97134	97135	97136			97137	97138	97139	97140
3/4" x 1 1/2" x 1/8"	241D	50/200		97151		97152	14029		97153	97154	97155	97156	97157
3/4" x 1 1/2" x 3/16"	241D	50/200	97159	97160	97161	97162	97163	97164	97165		97166	97167	97168
3/4" x 1 1/2" x 1/4"	241D	50/200	97158	97141	97142	97143	97144	97145	97146	97147	97148	97149	97150
3/4" x 2" x 1/8"	241D	50/200		97176	97177		97178	97179	97180	97181	97182	97183	97184
3/4" x 2" x 3/16"	241D	50/200	97185	97186	97187	97188	97189	97190	97191	97192	97193	97194	97195
3/4" x 2" x 1/4"	241D	50/200		97169		97170	97171		97172		97173	97174	97175
1" x 1 1/2" x 3/16"	241D	50/200	97206	97207	97208	97209	97210	97211	97212	97213	97214	97215	97216
1" x 1 1/2" x 1/4"	241D	50/200	97196	97197	97198	97199	97200		97201	97202	97203	97204	97205
1" x 2" x 3/16"	241D	50/200	97228	97229	97230	97231	97232	97233	97234		97235	97236	97237
1" x 2" x 1/4"	241D	50/200	97217	97218	97219	97220	97221	97222	97223	97224	97225	97226	97227
Full Taper													
3/8" x 1" x 1/8"	241D	50/200			97238	97239	97240	97241	97242	97243	97244	97245	97246
3/8" x 1 1/2" x 1/8"	241D	50/200			97247	97248	97249	97250	97251		97252	97253	97254
1/2" x 1" x 1/8"	241D	50/200		97255	97256	97257		97258	97259		97260	97261	97262
1/2" x 1 1/2" x 1/8"	241D	50/200		97263	97264	14034	14033	97265	14032	97266	97267	97268	97269
1/2" x 2" x 1/8"	241D	50/200			97270	97271	97272	97273	97274	97275	97276	97277	97278
5/8" x 1" x 1/8"	241D	50/200			97279	97280	97281	97282	97283	97284	97285	97286	97287
5/8" x 1 1/2" x 1/8"	241D	50/200			97288	97289	97290	97291	97292	97293	97294	97295	97296
3/4" x 1" x 3/16"	241D	50/200	97297	97298	97300	97301	97302		97303	97304	97305	97306	97307
3/4" x 1 1/2" x 1/8"	241D	50/200	97318	97319	97320	97321		97323	97324	97325	97326	97327	97328
3/4" x 1 1/2" x 3/16"	241D	50/200	97329	97330	97331	97332	97333	97334	97335	97336	97337	97338	97339
3/4" x 2" x 3/16"	241D	50/200	97340	97341	97342	97343	97344	97345	97346	97347	97348	97349	97350
1" x 1" x 3/16"	241D	50/200	97373	97374	97375	97376	97377		97378	97379	97380	97381	97382
1" x 1 1/2" x 1/8"	241D	50/200	97394	97395	97396	97397	97398	97399	97400	97401	97402	97403	97404
1" x 1 1/2" x 3/16"	241D	50/200	97405	97406		97407	97408		97409	97410	97411	97412	97413
1" x 1 1/2" x 1/4"	241D	50/200	97383	97384	97385	97386	97387	97388	97389	97390	97391	97392	97393
1" x 2" x 3/16"	241D	50/200	97414	97415	97416	97417	97418	97419	97420	97421	97422	97423	

* Add Prefix 051144- to UPC No. when ordering.

Kut stock items

3M™ 211K Three-M-ite™ Elek-Tro-Cut™ Cloth J Wt.

3M™ 241K Three-M-ite™ Elek-Tro-Cut™ Cloth X Wt.

These glue bond cartridge rolls are available in regular or full-tapered shapes, and provide a handy, durable abrasive tool for grinding and finishing those hard-to-reach areas.



130

Size Dia x W x AH	Prod. I.D.	Pkg. Min./Unit	Grade and UPC No.*										
			36	40	50	60	80	100	120	150	180	240	320
Regular													
1/4" x 1" x 1/8"	211K	50/200						40030					
3/8" x 1" x 1/8"	211K	50/200								40021			
3/8" x 1 1/2" x 1/8"	211K	50/200						40012					
1/2" x 1 1/2" x 1/8"	211K	50/200						40009		40040			
1/2" x 1 1/2" x 1/8"	241K	50/200				40010							
Full Taper													
1/2" x 1" x 1/8"	211K	50/200						40043					
1/2" x 1 1/2" x 1/8"	211K	50/200				40042	40041						

* Add Prefix 051144- to UPC No. when ordering.

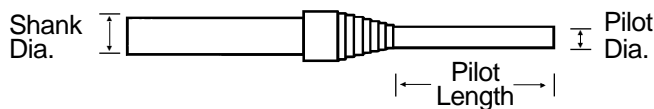
Kut stock items

Accessories – Cartridge Rolls

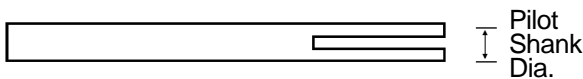
3M™ Mandrels and Spindle

Screw type mandrels and forked spindle holders for cartridge rolls.

3M Mandrels



3M Spindle (forked)



131

Diameter	Length	Shank	UPC No.
Mandrels			
3/32"	3/4"	1/4"	051144-45120
1/8"	1"	1/4"	051144-45119
3/16"	1 1/2"	1/4"	051144-45118
3/16"	1"	1/4"	051144-45117
1/4"	1 1/2"	1/4"	051144-45116
Spindle			
1/4"	-	1/4"	051144-45121

Maximum Operating RPMs:

1/2"	and smaller dia. – 24,000
5/8" – 3/4"	dia. – 16,000
1"	dia. – 12,000

Evenrun Bands

Evenrun bands are constructed of sharp, well-bonded mineral, coated on a strong drills cloth backing and spirally wound over a cloth inner liner. This forms an abrasive-surfaced cylinder that can rotate smoothly in either direction. This easy-to-use product provides a fast, continuous cut and long-life performance so as to get lower costs per work piece.

3M™ 747D Regalite™ Polycut™ RB Cloth X Wt.

A premium constructed Evenrun Band utilizing 3M's Cubitron & aluminum oxide minerals. An outstanding value for use on a variety of exotic and other metals.



132

Size Dia. x WD	Prod. I.D.	Pkg. Min./Unit	Grade and UPC No.*											
			36	40	50	60	80	100	120	150	180	240	320	
1/2" x 1"	747D	50/200			80765	80769	80773							
1" x 1"	747D	50/200			80766	80770	80774			80782				
2" x 1"	747D	50/200				80771	80775			80783				
3" x 1"	747D	50/200				80772	80776							

* Add Prefix 051144- to UPC No. when ordering.

[Kut stock items](#)



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3M™ 241D Three-M-ite™ RB Cloth X Wt.

This product is constructed of sharp, resin bonded aluminum oxide grain, coated on a strong drills cloth backing and spirally wound over a cloth inner liner. It forms an abrasive-surfaced cylinder that can rotate smoothly in either direction. This easy-to-use product provides a fast, continuous cut and long-life performance so as to get lower costs per workpiece.



135

Size Dia. x WD	Prod. I.D.	Pkg. Min./Unit	Grade and UPC No.*										
			36	40	50	60	80	100	120	150	180	240	320
1/4" x 1/2"	241D	50/200			97425	97426	40243	97427	97428	97429	97430	97431	97432
3/8" x 1/2"	241D	50/200		97433	97434	97435	97436	97437	97438		97439	97440	
3/8" x 1"	241D	50/200		97442	97443	97444	97445		97446	97447	97448	97449	97450
1/2" x 1/2"	241D	50/200	97451	97452	97453	40228	40227	40226	40252	97455	97456	40256	97457
1/2" x 1"	241D	50/200	97458	97459		40225	40224	40247	11973	97460	97461	97462	97463
1/2" x 1 1/2"	241D	50/200	97464	97465	97466	97467	97468	97469	97470	97471	97472	97473	97474
1/2" x 2"	241D	50/200	97475	97476	97477	97478	97479	97480	97481	97482	97483	97484	97485
3/4" x 1/2"	241D	50/200	97486	97487	97488	97489	40242	97490	97491	97492	97493	97494	97495
3/4" x 3/4"	241D	50/200	97496	97497	97498	97499	40223	97500	40250	97579	97501	97502	97503
3/4" x 1"	241D	50/200	11976	97504	40236	40221	40220	40244	40219	97505	97506	97507	97508
3/4" x 1 1/2"	241D	50/200	11977	97509	97454	11978	40241	97510	97511	97512	97513	97514	97515
3/4" x 2"	241D	50/200	97516	97517	97518	97519	97520	97521	97522	97523			
1" x 1/2"	241D	50/200	97527	97528	97529	97530	97531	97532	97533	97534	97535	97536	97537
1" x 1"	241D	50/200	40214	40213	40212	40211	40210	40209	40208	97538	97539	97540	97541
1" x 1 1/2"	241D	50/200	40207	97542	40265	11980	40205	97543	11981	97544	97545	97546	97547
1" x 2"	241D	50/200	97548	97549	97550	40268							
1" x 3"	241D	50/200	97558	97559	97560	97561	97562	97563	97564	97565	97566	97567	97568
1 1/2" x 1"	241D	50/200	40203	11982	97569	40202	40201	97570	97571	97572	97573	97574	97575
1 1/2" x 1 1/2"	241D	50/200	40200	40199	11984	40197	40196	97576	40274	97580	97581	97582	97583
1 1/2" x 2"	241D	50/200	11985	97584	11987	40267	40270	97585		97586	97587	97588	97589
2" x 1"	241D	50/200	40193	97590	97591	40192	11990	97592	11991	97593	97594	97595	97596
2" x 1 1/2"	241D	50/200	97597	97598	97599	40189	40188	97600		97601	97602	97603	97604
2" x 2"	241D	50/200	40187	40186	40185	40184	40183	97605	11994	97606	97607	97608	97609
3" x 1"	241D	50/200	40179	97610	97611		40269			97612	97613	97614	97615
3" x 2"	241D	50/200	97616	97617	97618	97619	97620	97621	97622	97623	97624	97625	97626
3" x 3"	241D	50/200	40178		40176	40175	40174	97627	40172	97628	97629	97630	97631

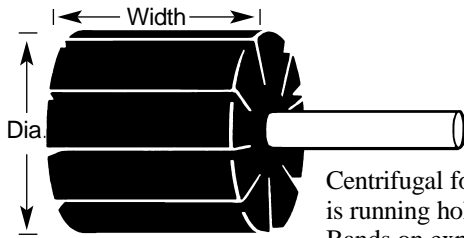
* Add Prefix 051144- to UPC No. when ordering.

Kut stock items

Accessories – Evenrun Bands

3M™ Rubber Slotted Expander Wheels

Slotted wheels available in a wide variety of sizes for use with Evenrun bands and belts.



Centrifugal force while tool is running holds Evenrun Bands on expander wheels.

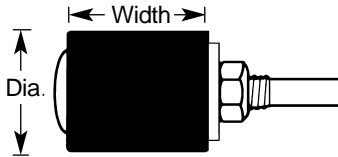
Diameter	Width	Shank	Max. Oper.	
			RPMS	UPS No.*
1"	1"	1/4"	18,000	051144-77717
1 1/2"	1"	1/4"	14,000	051144-77718
2"	1"	1/4"	12,000	051144-77720
2"	2"	1/4"	6,000	051144-77721
3"	3"	5/8" – 11 thread internal	6,000	051144-77722



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3M™ Rubber Cushion Polishing Wheels

Available in a wide variety of sizes for use with Evenrun bands and belts.



Tighten nut to secure Evenrun Band onto wheel.

Diameter	Width	Shank	Max. Oper.	
			RPMS	UPS No.*
1/4"	1/2"	1/8"	23,000	051144-45159
3/8"	1/2"	1/8"	23,000	051144-45158
3/4"	3/4"	1/8"	15,000	051144-45147
1/2"	1/2"	1/4"	30,000	051144-45156
1/2"	3/4"	1/4"	15,000	051144-45154
1/2"	1"	1/4"	15,000	051144-45153
1/2"	1 1/2"	1/4"	15,000	051144-45152
3/4"	1/2"	1/4"	30,000	051144-45148
3/4"	3/4"	1/4"	24,000	051144-45146
3/4"	1"	1/4"	17,000	051144-45145
3/4"	1 1/2"	1/4"	10,000	051144-45144
1"	1"	1/4"	18,000	051144-45139
1"	1 1/2"	1/4"	10,000	051144-45138
1"	2"	1/4"	8,000	051144-45137
1 1/4"	1"	1/4"	15,000	051144-45136
1 1/2"	1"	1/4"	14,000	051144-45132
1 1/2"	1 1/2"	1/4"	10,000	051144-45131
1 1/2"	2"	1/4"	8,000	051144-45130
2"	1"	1/4"	11,000	051144-45129
2"	1 1/2"	1/4"	8,000	051144-45128
2"	2"	1/4"	6,000	051144-45127
3"	3"	3/8"	3,000	051144-45124
3"	3"	1/2"	3,000	051144-45123

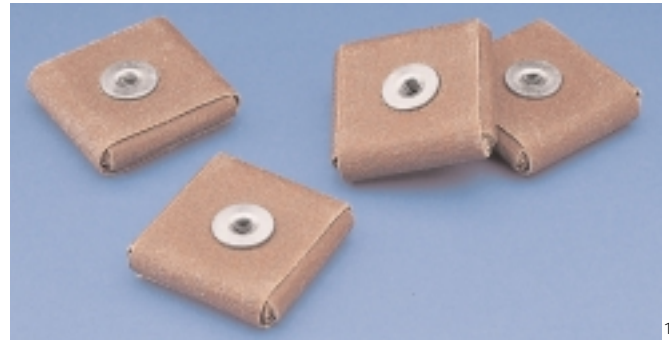
* Part numbers apply to complete wheel not cushions.



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3M™ Square Pads

3M Square Pads are ideal for fast grind-blending on channels, fillets, corners or spotting on flat surfaces. As the pad rotates, the corners exert a fast, biting action and gradually wear-down, constantly exposing fresh abrasive.



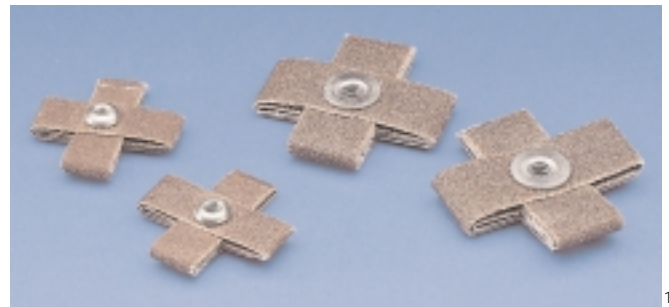
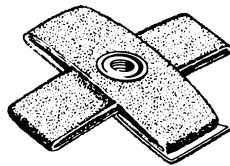
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Size	Prod. I.D.	Pkg. Min./Unit	Grade and UPC No.		
			60	80	120
2" x 2" x 1/2"	241D	50/100		051144-97709	051144-97710
2" x 2" x 3/8"	241D	50/100	051144-97711	051144-97712	051144-97713
2 1/2" x 2 1/2" x 1/4"	241D	50/100	051144-97714		
2 1/2" x 2 1/2" x 3/8"	241D	50/100	051144-97715	051144-97716	
2 1/2" x 2 1/2" x 1/2"	241D	50/100	051144-97717	051144-97718	
3" x 3" x 1/4"	241D	50/100	051144-97721	051144-97722	051144-97723
3" x 3" x 3/8"	241D	50/100	051144-97719	051144-97720	

Kut stock items

3M™ Cross Pads

3M Cross Pads are used for close tolerance polishing of small radii and channels, deburring the ends and insides of tubing and many other special applications.



139

Size	Prod. I.D.	Pkg. Min./Unit	Grade and UPC No.			
			60	80	100	120
3/4" x 3/8", 8 ply, 348 Eyelet	241D	50/100		051144-97724	051144-97725	051144-97726
1" x 3/8", 8 ply, 348 Eyelet	241D	50/100	051144-97727	051144-97728		051144-97729
1 1/2" x 1/2", 8 ply, 832 Eyelet	241D	50/100	051144-97730	051144-97731		051144-97732
2" x 1/2", 8 ply, 832 Eyelet	241D	50/100	051144-97733	051144-97734		051144-97735
2" x 3/4", 8 ply, 832 Eyelet	241D	50/100	051144-97736	051144-97737		051144-97738
2" x 3/4", 8 ply, (1/4-20 Eyelet)	241D	50/100	051144-97739	051144-97740		051144-97741
2" x 3/4", 10 ply, (1/4-20 Eyelet)	241D	50/100		051144-97742		
2" x 1", 8 ply, (1/4-20 Eyelet)	241D	50/100		051144-97743		051144-97744
2" x 1", 10 ply, (1/4-20 Eyelet)	241D	50/100	051144-97745	051144-97746		
2 1/4" x 1/2", 8 ply, 832 Eyelet	241D	50/100	051144-97747	051144-97748		051144-97749
2 1/2" x 3/4", 8 ply, (1/4-20 Eyelet)	241D	50/100	051144-97750	051144-97751		051144-97752
2 1/2" x 3/4", 10 ply, (1/4-20 Eyelet)	241D	50/100	051144-97753	051144-97754		
3" x 1", 8 ply, (1/4-20 Eyelet)	241D	50/100	051144-97755	051144-97756		051144-97757
3" x 1", 10 ply, (1/4-20 Eyelet)	241D	50/100	051144-97758	051144-97759		
3" x 1 1/2", 8 ply, (1/4-20 Eyelet)	241D	50/100	051144-97760	051144-97761		
3" x 1 1/2", 10 ply, (1/4-20 Eyelet)	241D	50/100	051144-97762	051144-97763		051144-97764
3 1/2" x 1 1/2", 8 ply, (1/4-20 Eyelet)	241D	50/100	051144-97765	051144-97766		051144-97767
4" x 1", 8 ply, (1/4-20 Eyelet)	241D	50/100	051144-97768	051144-97769		051144-97770
4" x 1", 10 ply, (1/4-20 Eyelet)	241D	50/100	051144-97771	051144-97772		
4" x 1 1/2", 8 ply, (1/4-20 Eyelet)	241D	50/100	051144-97773	051144-97774		051144-97775
4 1/2" x 1 1/2", 10 ply, (1/4-20 Eyelet)	241D	50/100	051144-97776	051144-97777	051144-97778	051144-97779
5" x 1 1/2", 8 ply, (1/4-20 Eyelet)	241D	50/100	051144-97780	051144-97781		051144-97782
6" x 1 1/2", 8 ply, (1/4-20 Eyelet)	241D	50/100	051144-97783	051144-97784		051144-97785
6" x 2", 8 ply, (1/4-20 Eyelet)	241D	50/100		051144-97786		

Kut stock items

3M™ Square/Cross Pad Mandrel



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Size	Case Quantity	UPC No.
1/4" Dia. x 8 – 32 external thread	1	051144-14307
1/4" Dia. x 1/4 – 20 external thread	1	051144-14308

Square Pad Size	Eyelet	Max. Oper. RPMs
2" x 2"	1/4" – 20	12,000
2 1/2" x 2 1/2"	1/4" – 20	10,000
3" x 3"	1/4" – 20	9,000

Cross Pad Size	Ply	Eyelet	Max. Oper. RPMs
Less than 2"	8 or 10	8-32	24,000
2"	8 or 10	1/4" – 20	20,000
2"	8 or 10	8-32	18,000
3"	8 or 10	1/4" – 20	18,000
3 1/2"	8 or 10	1/4" – 20	15,000
4" and 4 1/2"	8 or 10	1/4" – 20	12,000
5"	8 or 10	1/4" – 20	10,000
6"	8 or 10	1/4" – 20	9,000

Miscellaneous – Coated Abrasive Products

3M™ 415U/415N Stikit™ Tri-M-ite™ Silicon Carbide Refill Rolls

Stikit refill rolls are one long continuous strip of abrasive with the adhesive already applied. Operators use ALL the abrasive taken from the roll...with conventional methods, a great deal of the abrasive is wasted since it must be wrapped around a block and is not used for sanding. Stikit abrasives, used in conjunction with a sanding block, also eliminate many of the problems associated with hand sanding, such as splinters and finger marks on the wood surface from uneven sanding pressure. And Stikit refill rolls, unlike loose abrasives, do not end up on the floor of the plant where they're apt to be swept up at the end of the day, causing unnecessary waste.



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Size	Prod. I.D.	Pkg. Min./Unit	Grade and UPC No.*								
			80A	100A	120A	150A	180A	220A	240A	280A	320A
2 1/2" wide	415U	10/50	14475	16287	16286	16285	16284	16283			
3 1/4" wide	415U/415N	10/50	14476	16295	16294	16293	16292	16291		16289	**16288

* Add Prefix 051144- to UPC No. when ordering.

** 415N

Stikit™ Sanding Blocks

Sanding blocks are made of a tough plastic for long life and durability. Sand into corners with the flat end...Sand into curved or contoured areas with the rounded end. The cushioned back-up pad is durable and holds the abrasive firmly in place. Discover their versatility in top coat sanding,

sealer and whitewood sanding, metal preparation, plastics, paint repair areas, and many more.

Size	Pkg. Min./Unit	UPC No.
2 1/2" wide	10	051144-45203
3 1/4" wide	10	051144-45204



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3M™ Sanding Sponges

3M offers a broad selection of sanding sponges with different features and densities for both flat and contoured surfaces...ideal for corners, contours, sealer and flat surfaces on wood, metal, plastic and paint.



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Product	Size	Min. Pkg./Case	Grade and UPC No.		
			MED	FIN	SFN
3M Full Size Sanding Sponge	3 ³ / ₄ " x 2 ⁵ / ₈ " x 1"	24/48	051115-00408	051115-00409	
3M Softback Sanding Sponge	5 ¹ / ₂ " x 4 ¹ / ₂ " x 3 ³ / ₁₆ "	20/120	051131-02606	051131-02604	051131-02602

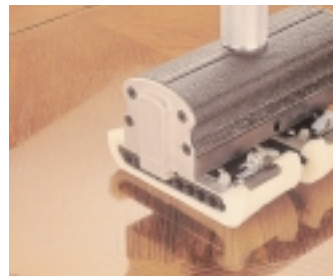
Bulk Packed Product	Size	Min. Pkg./Case	Grade and UPC No.		
			MED	FIN	SFN
3M Full Size Sanding Sponge	3 ³ / ₄ " x 2 ⁵ / ₈ " x 1"	250/Case	051115-06967	051115-06968	
3M Softback Sanding Sponge	5 ¹ / ₂ " x 4 ¹ / ₂ " x 3 ³ / ₁₆ "	250/Case	051115-06966	051115-06965	051115-06964
3M High Flexibility Sanding Sponge	3 ³ / ₄ " x 3 ³ / ₄ " x 1 ¹ / ₂ "	108/Case	051115-00630	051115-00631	
3M Flexible Sanding Pad	4 ³ / ₄ " x 3 ³ / ₄ " x 1 ¹ / ₂ "	250/Case	051115-02622	051115-02623	

Product	Size	Min. Pkg./Case	Grade and UPC No.			
			60	80	100	150
3M Brand Pro-Pad Sanding Sponge	4" x 2 ⁷ / ₈ " x 1 ¹ / ₂ "	108/Case	051115-07057	051115-07058	051115-07059	051115-07060

Top Coat Rubbing Kit

Scotch-Brite Rolls for topcoat rubbing

- provide consistency and uniformity...beautiful hand rubbed look
- are available in a wide range of types and grades...produce the finish you need—low to high gloss
- won't cut hands...safer for operators to use than steel wool

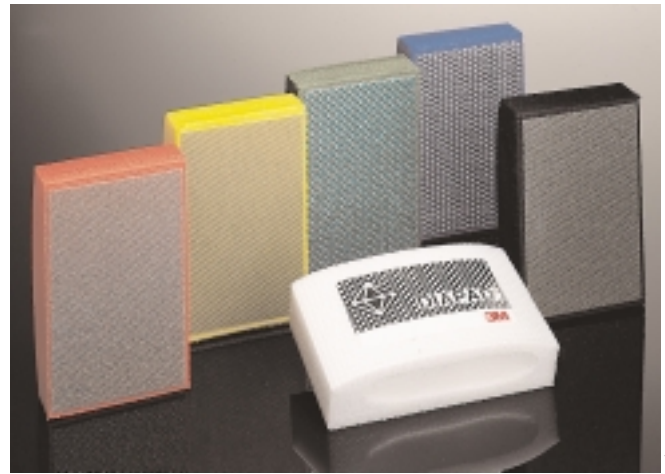


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Product	Contents	
410S	40 sheets 401Q Wetordry Tri-M-ite P600 grade paper 3 ² / ₃ " x 9" 40 sheets 401Q Wetordry Tri-M-ite P800 grade paper 3 ² / ₃ " x 9" 40 sheets 401Q Wetordry Tri-M-ite P1000 grade paper 3 ² / ₃ " x 9" 40 sheets 401Q Wetordry Color Sanding P1200 grade paper 3 ² / ₃ " x 9" 6 sheets Scotch-Brite Clean and Finish T 4" x 21 ¹ / ₂ " 6 sheets Scotch-Brite Clean and Finish S ULF 4" x 10 ¹ / ₂ " 4 sheets Scotch-Brite High Gloss 4" x 10 ¹ / ₂ " Scotch-Brite Super Polish 4" x 10 ¹ / ₂ " 1 3M Compound Six Pack 1 bottle Finesse-it Compounding Material Ebony 12 oz. 1 bottle Finesse-it Compounding Material Ivory 12 oz. 1 bottle Finesse-it Finishing Material Ebony 12 oz. 1 bottle Finesse-it Finishing Material Ivory 12 oz. 1 bottle Finesse-it Final Finish Easy Clean-up 12 oz. 1 bottle Finesse-it Protective Wax 12 oz. 1 each Demo Video	
Product	Kits/Case	UPC No.
410S	1	048011-16404

3M™ Flexible Diamond Products

Achieve better finishes—without sacrificing cut rates on hard-to-grind materials with 3M Flexible Diamond Products. A metal plated bond or tough resin bond securely anchors micron graded diamonds to our premium, flexible backing material to offer durability and longer life, while allowing conformance to a variety of contours. The open dot pattern produces aggressive cutting action and reduces loading.



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3M™ 6200J Hand Pads

Size	Pads/Case	Micron Grade and UPC No.*							
		M250	M125	M74	M40	M20	M10	R30	R10
2 1/4" x 3 3/4"	10	14998	14999	80098	80099	80100	81895	80101	80102
2 1/4" x 4"	10	14983	14984	14985	14986	14987		14988	14989
3" x 3"	10	14976	14977	14978	14979	14980		14981	14982

* Add Prefix 051144- to UPC No. when ordering.

3M™ 6220J Whetstone

Used for precision faceting, sharpening chisels, blades, carbide tools, etc.



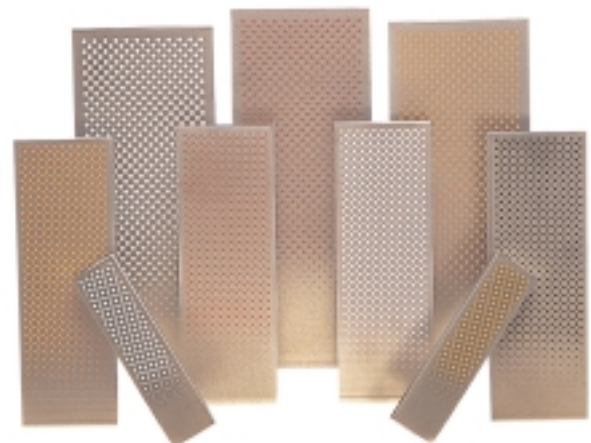
146

Size	Items/Case	Micron Grade and UPC No.*			
		M125	M74	M40	M20
4" x 1" (DW41)	5	84361	84362	84363	84364
6" x 2" (DW62)	5	84365	84366	84367	84368
8" x 3" (DW83)	3	84369	84370	84371	84372

* Add Prefix 051144- to UPC No. when ordering.

3M™ 6223J Professional Diamond Whetstone

Professional Diamond Whetstones will give you a perfect edge on all your blades and tools.



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Size	Items/Case	Micron Grade and UPC No.*		
		M74	M40	M20
1" x 4" (DW61)	5	85921	85922	85923
2" x 6" (DW42)	5	85924	85907	85908

* Add Prefix 051144- to UPC No. when ordering.

3M™ 6002J QRS Discs

Aggressive, clean-cutting and long lasting. Ideal for finishing, touch-ups or repair of hard to grind materials: ceramics, composites, glass, carbide, stone, marble and fiberglass. Excellent for polishing dies and molds.

Hook-and-Loop backing makes changing discs easy, just pull off the disc in use and press on another. Intended for use with 3M Hookit Roloc Disc Pad, Type J.



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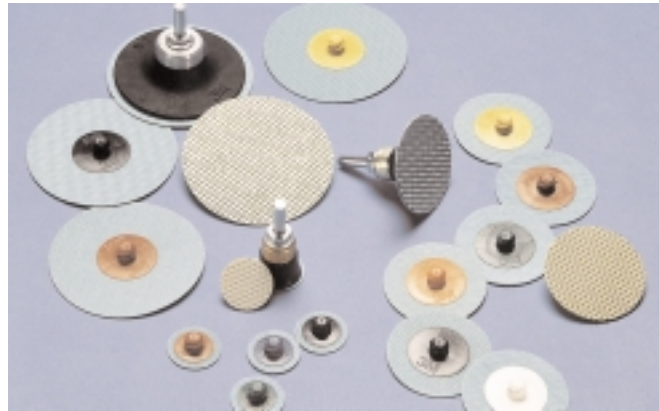
Disc Diameter	Discs/Case	Micron Grade and UPC No.*					
		M250	M125	M74	M40	M20	M10
1"	10	84373	84374	84375	84376	84377	84378
1½"	10	84381	84382	84383	84384	84385	84386
3"	5	80189	80190	80191	80192	80193	84397

* Add Prefix 051144- to UPC No. when ordering.

3M™ 6234J TG Discs

From tough grinding applications through fine finishing operations, 3M Roloc Flexible Diamond Discs can do the job quickly with consistent, predictable results.

Can be used on right angle and straight air tools as well as flexible shaft grinders. Must be used with proper 3M Roloc disc pad hardware.



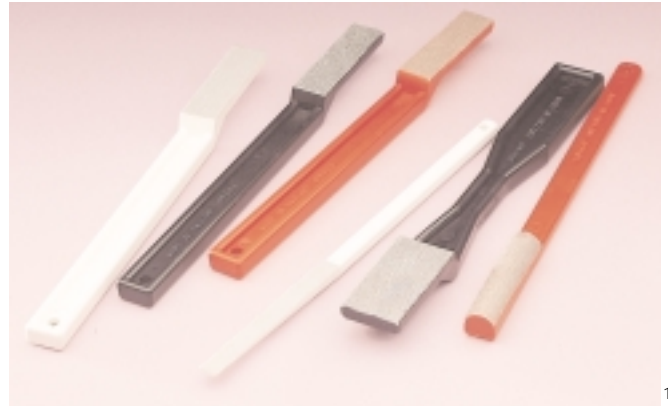
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Disc Diameter	Discs/Case	Micron Grade and UPC No.*							
		M250	M125	M74	M40	M20	M10	R30	R10
1"	10	84398	84399	85232	85233	85234	85235	85236	85237
1½"	10	85238	85239	85240	85241	85242	85243	85244	85245
2"	10	85246	85247	85248	85249	85250	85251	85252	85253
3"	5	85254	85255	85256	85257	85258	85259	85260	85261

* Add Prefix 051144- to UPC No. when ordering.

3M™ Diamond Files

- Diamond files are highly versatile — great for many uses: grind hard-to-cut materials, fine-finish delicate surfaces, bevel edges, remove burrs, sharpen tools.
- Use wet or dry. For better results, use with water or an oil lubricant.
- Available in sets of 4 file sizes and a choice of 3 grades, from 125 micron to 20 micron.
- The different micron grades are conveniently color coded.

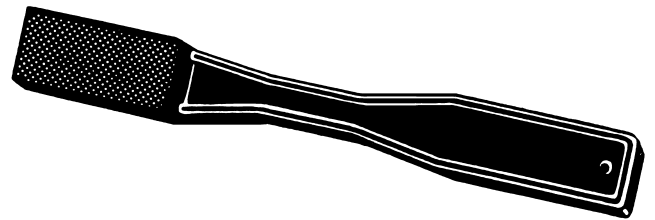


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Packaging:

SETS: consist of 4 files, one of each size. All files in a set are the same grade.

FILES: Minimum package = 10 files per box. 5 boxes/unit. Files may not be assorted within a box.



Size	Micron Grade/Color/UPC No.			
	M125 (Black)	M74 (Red)	M40 (Yellow)	M20 (White)
1 1/2" x 3/4"	051144-80829	051144-80830	051144-80831	051144-80832
1 3/4" x 1/2"	051144-80833	051144-80834	051144-80835	051144-80836
1 3/4" x 1/2" half round	051144-80837	051144-80838	051144-80839	051144-80840
2 1/2" x 1/4"	051144-80841	051144-80842	051144-80843	051144-80844
Sets				
Assorted	051144-80130	051144-80131	051144-80132	051144-80133

Accessories – Flexible Diamond Products

3M™ Hookit™ Roloc™ Disc Pad, Type J

This resilient, conformable pad is ideal for use on shaped and contoured surfaces. Hook material attached to neoprene foam which provides a resilient base for Flexible Diamond QRS discs. Makes grade changes easy. Pads must be used with proper 3M Roloc disc pad hardware as listed on page 17.



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Size	Quantity	UPC No.
1" dia.	10	051144-82564
1 1/2" dia.	5	051144-82565
2" dia.	5	051144-82566
3" dia.	1	051144-82567



3M

Grit
Cloth Roll

3M
Disc Pad Face Plate-Ribbed

3M
Disc Pad Face Plate-Ribbed

3M
Disc Pad Face Plate-Ribbed

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Disc Pad Face Plate-Ribbed

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Disc Pad Face Plate-Ribbed

3M
Disc Pad Face Plate-Ribbed

3M coated abrasive and surface conditioning products can improve quality, consistency and productivity to help you achieve better results more cost-effectively.

For More Information and Assistance:

Contact your local 3M coated abrasive or surface conditioning products distributor or 3M at the numbers listed below.

For the contiguous 48 United States

Call**1-800-742-9546**

Fax**1-800-852-4668**

For: Alaska.....**907-522-5200**

Canada**519-451-2500**

Hawaii.....**808-422-2721**

Northern Mexico.....**915-599-4685**

Puerto Rico.....**809-750-3000**

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Safety Information

Always use appropriate protective glasses, face shields and body protection. Do not exceed maximum operating RPM's. Use guards provided with machine. Follow safety operation procedures posted in work areas.

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Abrasive Systems Division

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