FINISHING STRONG

Scotch-Brite™ BRAND

SINCE 1958

BRINGING NEW SOLUTIONS TO THE SURFACE.

SCOTCH-BRITE™ NONWOVEN ABRASIVES PRODUCT GUIDE

INTERACTIVE DIGITAL VERSION

3M

TABLE OF CONTENTS

- Technology 2
- Applications 3
- System Configurations and Safe Operating 10
- Automation 13
- Nonwoven Abrasives 15
- Tools and Accessories 45
- Safety (PPE) 49

LEARN MORE AT:
3M.com/ScotchBriteAbrasives

/3MAbrasives

/3MAbrasives

/3MAbrasives

IMPROVE SURFACES WITH EASE.

LASTS LONG, FINISHES STRONG.

Thick nonwoven fiber and integrated abrasive grains keep Scotch-Brite™ products performing like new throughout the life of the product.

REPEATABLE RESULTS.

Whether you're cleaning, deburring or finishing, operators can easily achieve consistent, repeatable results with Scotch-Brite™ abrasives.

UNCOMPROMISING QUALITY.

To get the best finish, you need the best abrasives. Scotch-Brite™ abrasives are continually improved to deliver uncompromising quality.

Decade after decade. Part after part. There's one family of abrasives that's trusted to deliver repeatable results and fine finishes, and that's Scotch-Brite™. With roots in the past and an eye on the future, Scotch-Brite™ Nonwoven Abrasives are dedicated to uncompromising quality — just like you.

Check out this additional content!

VISIT AND SUBSCRIBE TO OUR 3M ABRASIVES YOUTUBE CHANNEL

Look for Video Icons like these throughout this catalog!

TIP INTERACTIVE LINKS throughout this catalog give you instant access to additional information. CLICK or TAP these icons in the PDF!

Play Download Link

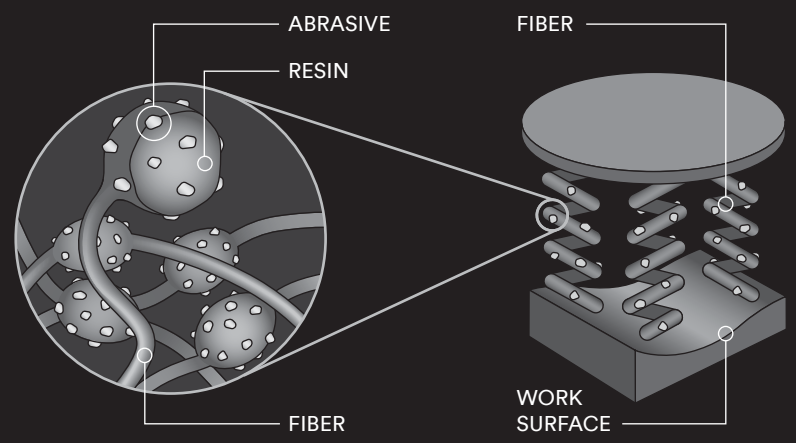
THE SCIENCE BEHIND HIGH-QUALITY FINISHES.

SCOTCH-BRITE™ NONWOVEN WEB TECHNOLOGY

The nonwoven web technology from Scotch-Brite™ is made with nylon that has been soaked in resin and abrasive mineral. The fibers and particles are bound together to form an open, three-dimensional structure. This construction provides spring-like action, which helps the product conform and bounce back without leaving an uneven finish.

Whether hand pads, discs, wheels or belts, the material is consistent all the way through. This means new abrasive mineral is exposed while you work, helping to extend the life of your abrasive product so that you can keep producing consistent finishes.

With Scotch-Brite™ nonwoven abrasives, grade is generally used to describe the finish attributes — the coarser the grade, the more aggressive cut and finish.



3D OPEN WEB

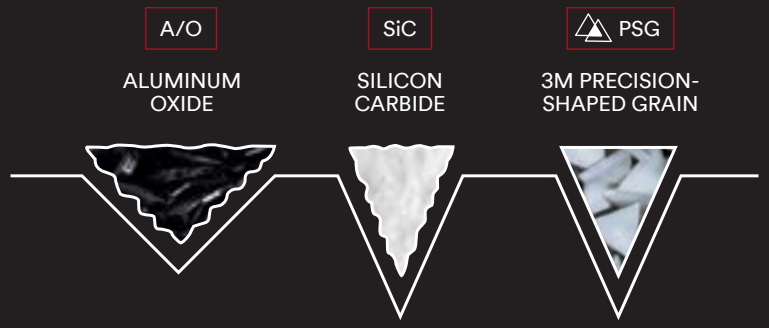
SPRING ACTION

WHAT'S THE DIFFERENCE BETWEEN THESE ABRASIVE MATERIALS?

Silicon Carbide is a synthetic mineral that is very sharp with a narrow shape, which wears down faster and is commonly used for low-pressure applications.

Aluminum Oxide is exceedingly durable, providing long life as the mineral breaks down at a slower rate — commonly used for a wide range of applications.

3M Precision-Shaped Grain is a triangular-shaped ceramic grain that is designed with sharp, angular structures that continuously fracture to form new sharp cutting edges.



APPLICATIONS

Scotch-Brite™ Nonwoven Abrasives are designed with conformable, high-strength fibers that deliver quick and consistent performance. Each product brings a safe, reliable solution to the job. **Which one is right for you?**

SCOTCH-BRITE™ IS HERE FOR YOU EVERY STEP OF THE WAY.

1 CLEANING / SURFACE PREP

To achieve an attractive finished product, surface preparation is a crucial step in the metalworking process. Scotch-Brite™ products are designed to make quick work of paint removal, rust removal, scratch refinement and other surface preparation tasks.

Explore the products that will work for your application: Pages 4–5

2 DEBURRING

Deburring is the process of smoothing out the imperfections of rough/sharp edges. With metal burrs and edges on every stamped and lasered metal part, deburring is a key step. Scotch-Brite™ solutions offer a wide selection of deburring abrasives for metalworking projects of any size or shape.

Explore the products that will work for your application: Page 6

3 BLENDING

Blending is the process of making different surface finishes appear more uniform. Scotch-Brite™ nonwoven products will leave a smooth, burr-free surface.

Explore the products that will work for your application: Page 7

4 FINISHING / POLISHING PREP

Finishing is the process of improving the finish of a component, which then may be different from the original finish. Further blending may be needed so the finishes are more similar. Scotch-Brite™ products deliver consistent, repeatable finishes in many industries.

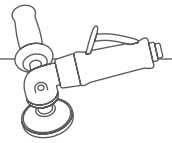
Explore the products that will work for your application: Page 8

TOOLS

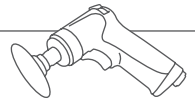
Match with the right tools and accessories to ensure you get the highest performance out of your Scotch-Brite™ Nonwoven Abrasives.

1 CLEANING / SURFACE PREP

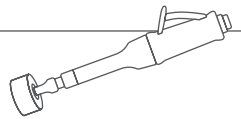
Match the application to the tool you will be using to find the recommended Scotch-Brite™ Nonwoven Abrasives. **CLICK** or **TAP** the product to go directly to that page.



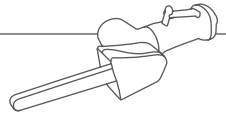
Disc Sander
Right Angle System



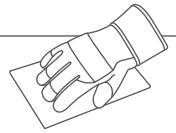
Disc Sander
3M™ Roloc™ System



Die Grinder



File Belt



Hand Sanding

WELD CLEANING / DISCOLORATION

Scotch-Brite™ Clean and Strip XT Pro Extra Cut Discs

Scotch-Brite™ Roloc™ Clean and Strip XT Pro Extra Cut Discs

Scotch-Brite™ Roloc™ Clean and Strip XT Pro Extra Cut Discs

Scotch-Brite™ Durable Flex Surface Conditioning Belts

Scotch-Brite™ Heavy Duty Hand Pad 7440

PAINT / RUST / SCALE REMOVAL

Scotch-Brite™ Clean and Strip XT Pro Discs

Scotch-Brite™ Roloc™ Clean and Strip XT Pro Discs

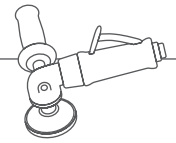
Scotch-Brite™ Roloc™ Clean and Strip XT Pro Discs

Scotch-Brite™ Durable Flex Surface Conditioning Belts

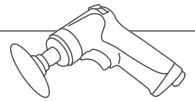
Scotch-Brite™ Heavy Duty Hand Pad 7440

1 CLEANING / SURFACE PREP

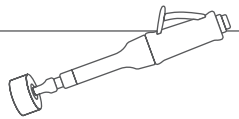
Match the application to the tool you will be using to find the recommended Scotch-Brite™ Nonwoven Abrasives. **CLICK** or **TAP** the product to go directly to that page.



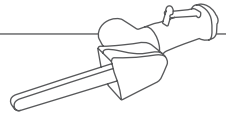
Disc Sander
Right Angle System



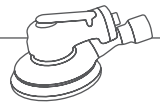
Disc Sander
3M™ Roloc™ System



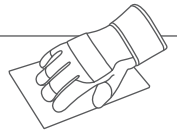
Die Grinder



File Belt



Belts

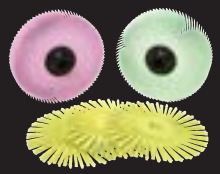


Hand Sanding

PAINT / BONDING / SCUFFING PREP (CLEANING SURFACE / REMOVING)

Scotch-Brite™ Precision Surface Conditioning Discs

Scotch-Brite™ Roloc™ Precision Surface Conditioning Discs



Scotch-Brite™ Radial Bristle Discs

Scotch-Brite™ Durable Flex Surface Conditioning Belts

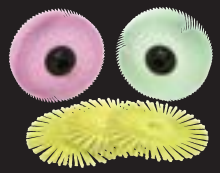
Scotch-Brite™ Disc 7447 Pro

Scotch-Brite™ Hand Pad 7447 Pro

SEALANT / ADHESIVE REMOVAL

Scotch-Brite™ Clean and Strip XT Pro Disc

Scotch-Brite™ Roloc™ Clean and Strip XT Pro Discs



Scotch-Brite™ Radial Bristle Discs

Scotch-Brite™ Durable Flex Surface Conditioning Belts

Scotch-Brite™ Hand Pad 7447

WELD PREP

Scotch-Brite™ Clean and Strip XT Pro Disc

Scotch-Brite™ Roloc™ Clean and Strip XT Pro Discs

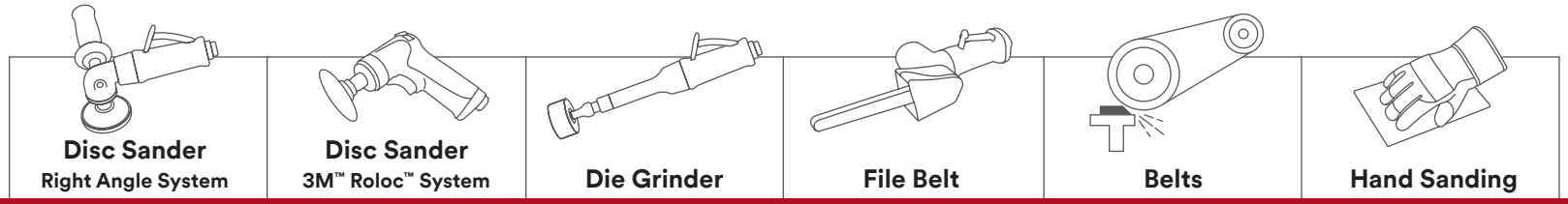
Scotch-Brite™ Roloc™ Clean and Strip XT Pro Discs

Scotch-Brite™ Durable Flex Surface Conditioning Belts

Scotch-Brite™ Hand Pad 7447

2 DEBURRING

Match the application to the tool you will be using to find the recommended Scotch-Brite™ Nonwoven Abrasives. **CLICK** or **TAP** the product to go directly to that page.



MACHINE EDGE RADIUS / EDGE BREAKING

Scotch-Brite™ Precision Surface Conditioning Discs

Scotch-Brite™ Roloc™ Deburr and Finish PRO Unitized Wheels 6C MED+

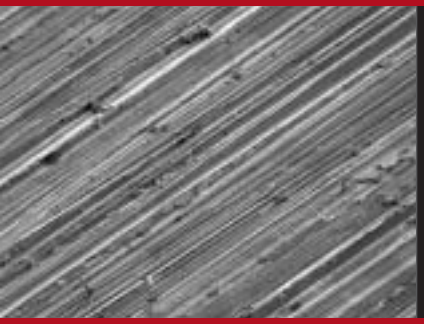
Scotch-Brite™ Deburr and Finish PRO Unitized Wheels 6C MED+

Scotch-Brite™ Durable Flex Surface Conditioning Belts

Scotch-Brite™ SE Surface Conditioning Belts

Scotch-Brite™ Heavy Duty Hand Pad 7440

MICRO BURR



Scotch-Brite™ Precision Surface Conditioning Discs

Scotch-Brite™ Roloc™ Precision Surface Conditioning Discs

Scotch-Brite™ Deburr and Finish PRO Unitized Wheels 2S FIN

Scotch-Brite™ Durable Flex Surface Conditioning Belts

Scotch-Brite™ SC Surface Conditioning Belts

Scotch-Brite™ Hand Pad 7447 Pro

PIPE THREAD / GEAR DEBURRING / BURR REMOVAL

Scotch-Brite™ Deburr and Finish PRO Unitized Wheels 8C CRS+

Scotch-Brite™ Roloc™ Deburr and Finish PRO Unitized Wheels 8C CRS+

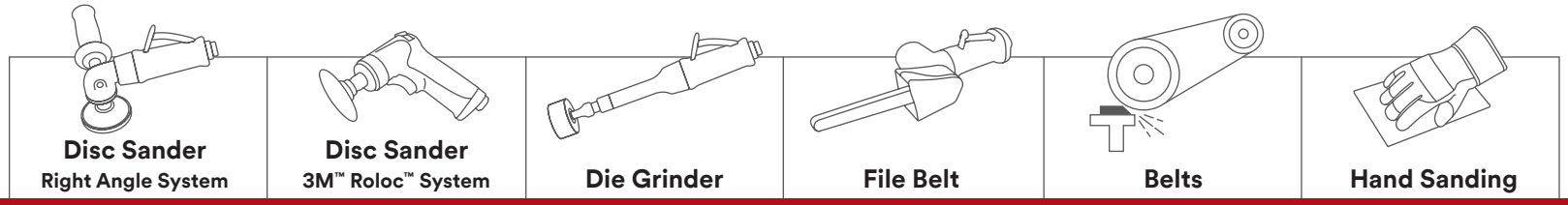
Scotch-Brite™ Deburr and Finish PRO Unitized Wheels 6C MED+

Scotch-Brite™ Durable Flex Surface Conditioning Belts

Scotch-Brite™ Heavy Duty Hand Pad 7440

3 BLENDING

Match the application to the tool you will be using to find the recommended Scotch-Brite™ Nonwoven Abrasives. **CLICK** or **TAP** the product to go directly to that page.



WELD BLENDING

Scotch-Brite™ Light Grinding and Blending Discs

Scotch-Brite™ Roloc™ Light Grinding and Blending Discs

Scotch-Brite™ Deburr and Finish PRO Unitized Wheels 8C CRS+

Scotch-Brite™ Durable Flex Surface Conditioning Belts

Scotch-Brite™ SE Surface Conditioning Belts

SCRATCH REFINEMENT / PAINT PREPARATION

Scotch-Brite™ Precision Surface Conditioning Discs

Scotch-Brite™ Roloc™ Precision Surface Conditioning Discs

Scotch-Brite™ Deburr and Finish PRO Unitized Wheels 8C CRS+

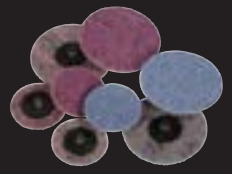
Scotch-Brite™ Durable Flex Surface Conditioning Belts

Scotch-Brite™ SC Surface Conditioning Belts

Scotch-Brite™ Hand Pad 7447 Pro

PARTING LINE REMOVAL

Scotch-Brite™ Precision Surface Conditioning Discs



Scotch-Brite™ Roloc™ Light Grinding and Blending Discs

Scotch-Brite™ Cut and Polish Flap Brushes CPFB-S and CPFB-R+

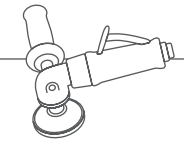
Scotch-Brite™ Durable Flex Surface Conditioning Belts

Scotch-Brite™ SE Surface Conditioning Belts

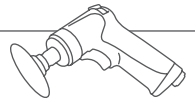
Scotch-Brite™ Hand Pad 7447 Pro

4 FINISHING / POLISH PREP

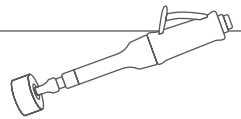
Match the application to the tool you will be using to find the recommended Scotch-Brite™ Nonwoven Abrasives. **CLICK** or **TAP** the product to go directly to that page.



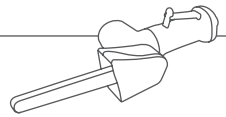
Disc Sander
Right Angle System



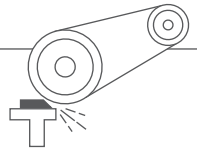
Disc Sander
3M™ Roloc™ System



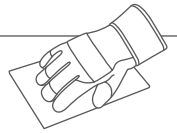
Die Grinder



File Belt

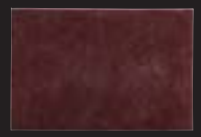


Belts

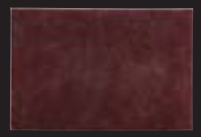


Hand Sanding

SETTING THE GRAIN

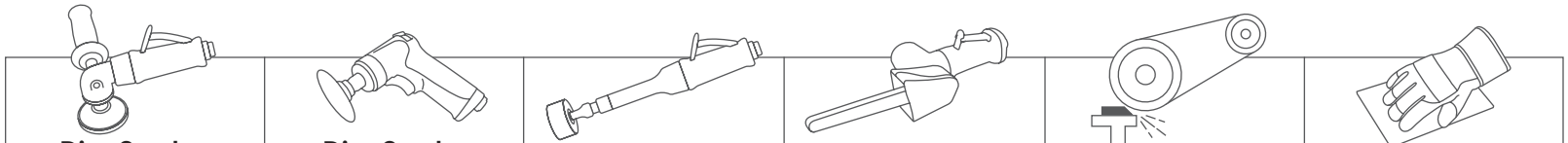
Disc Sander Right Angle System	Disc Sander 3M™ Roloc™ System	Die Grinder	File Belt	Belts	Hand Sanding
		Scotch-Brite™ Metal Finishing Wheels A MED Also works for radial finishing sander and bench motor	**Scotch-Brite™ Durable Flex Surface Conditioning Belts**	**Scotch-Brite™ SC Surface Conditioning Belts**	 **Scotch-Brite™ Hand Pad 7447**

SURFACE REFINEMENT

Disc Sander Right Angle System	Disc Sander 3M™ Roloc™ System	Die Grinder	File Belt	Belts	Hand Sanding
Scotch-Brite™ Precision Surface Conditioning Discs	**Scotch-Brite™ Roloc™ Precision Surface Conditioning Discs**	**Scotch-Brite™ EXL Pro Convolute Wheels**	**Scotch-Brite™ Durable Flex Surface Conditioning Belts**	**Scotch-Brite™ SC Surface Conditioning Belts**	 **Scotch-Brite™ Hand Pad 7447**

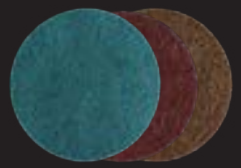
4 FINISHING / POLISH PREP

Match the application to the tool you will be using to find the recommended Scotch-Brite™ Nonwoven Abrasives. **CLICK** or **TAP** the product to go directly to that page.



Disc Sander Right Angle System	Disc Sander 3M™ Roloc™ System	Die Grinder	File Belt	Belts	Hand Sanding

AESTHETIC / FLAT PART FINISHING



Scotch-Brite™ SC Surface Conditioning Discs

Scotch-Brite™ Roloc™ SC Surface Conditioning Discs

Scotch-Brite™ Multi-Finishing Wheels

Also works for radial finishing sander and bench motor

Scotch-Brite™ Durable Flex Surface Conditioning Belts

Scotch-Brite™ SC Surface Conditioning Belts

Scotch-Brite™ Hand Pad 7447

BUFFING / POLISHING

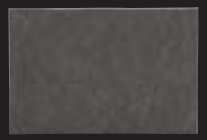
Scotch-Brite™ SC Surface Conditioning Disc
A VFN

Scotch-Brite™ Roloc™ Deburr and Finish PRO Unitized Wheel
2S FIN

Scotch-Brite™ Deburr and Finish PRO Unitized Wheel
2S FIN

Scotch-Brite™ SC Surface Conditioning File Belt
A VFN

Scotch-Brite™ SC Surface Conditioning Belt
A VFN



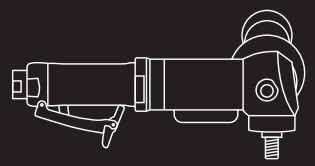
Scotch-Brite™ Hand Pad 7448

SYSTEM CONFIGURATIONS

Tool + Accessories + Scotch-Brite™ Nonwoven Abrasive = Optimized System

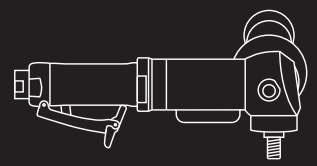
3M™ DISC SANDER | RIGHT ANGLE SYSTEM

Universal Backup Pad



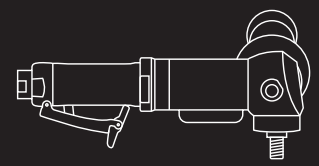
- Scotch-Brite™ Universal Backup Pad
- Adapter Nut M14 / M10 / 5/8–11 Thread
- Center Post (Optional)
- Scotch-Brite™ Nonwoven Abrasive Disc with Hook and Loop

Hook and Loop



- 3M™ Hook and Loop Disc Pad Holder
- Scotch-Brite™ Nonwoven Abrasive Disc with Hook and Loop

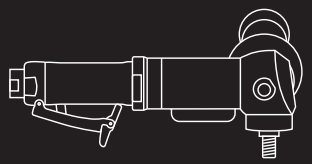
Threaded 5/8–11



- Scotch-Brite™ Nonwoven Abrasive Disc with 5/8–11 threaded attachment

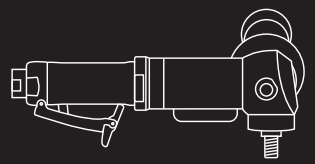
TN Quick Change

1-piece 4-1/2 Attachment System



- TN Quick Change Disc Backup Pad
- Scotch-Brite™ Nonwoven Abrasive Disc TN Quick change attachment

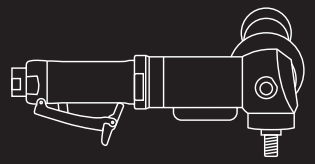
2-piece Attachment System



- 3M™ Disc Pad Hub
- 3M™ Disc Pad Face Plate
- Scotch-Brite™ Nonwoven Abrasive Disc TN Quick change attachment

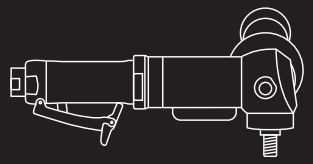
7/8 Center Hole

1-piece Attachment System



- Flap Disc / Grinding Wheel Adapter Nut 5/8–11 Thread
- Scotch-Brite™ Nonwoven Abrasive Disc Type 27 (7/8 Center Hole)
- Flap Disc / Grinding Wheel Adapter Nut 5/8–11 Thread

3-piece Attachment System



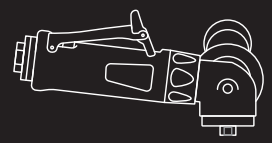
- 3M™ Disc Pad Hub
- 3M™ Disc Pad Face Plate
- Scotch-Brite™ Nonwoven Abrasive Disc with 7/8 Center Hole
- 3M™ Disc Retainer Nut

SYSTEM CONFIGURATIONS

Tool + Accessories + Scotch-Brite™ Nonwoven Abrasive = Optimized System

3M™ DISC SANDER

3M™ Roloc™ System



Sander Adapter

3M™ Roloc™ Disc Pad

Scotch-Brite™ Roloc™ Nonwoven Abrasive Disc

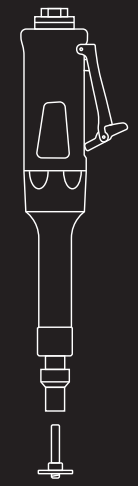
3M™ DIE GRINDER

3M™ Roloc™+ System

3M™ Roloc™+ Holder

Scotch-Brite™ Roloc™+ Nonwoven Abrasive Disc Wheel or Brush

Collet Attachment System

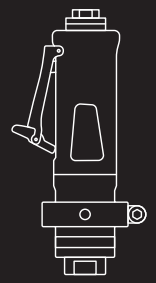


Mandrel

Scotch-Brite™ Nonwoven Abrasive Wheel

Mandrel Cap

3M™ INLINE SANDER



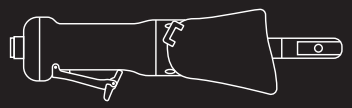
Adapter Kit

Rubber Slotted Expander Wheel

Adapter Kit Cap

Scotch-Brite™ Nonwoven Abrasive Belt

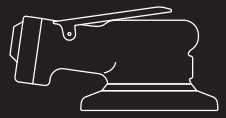
3M™ FILE BELT SANDER



Attachment Arm

Scotch-Brite™ File Belt

3M™ RANDOM ORBITAL SANDER



3M™ Hookit™ Low Profile Disc Pad

Scotch-Brite™ Hookit™ Disc

3M™ MATCH AND FINISH SANDER

Scotch-Brite™ Nonwoven Abrasive Flap Brush

SAFE OPERATING

STAY SMART. STAY SAFE. STAY WITH SCOTCH-BRITE™.

Always check to make sure the tool or machine does not run faster than the maximum operating speed (Max. RPM) of the consumable (disc, wheel, belt) or when applicable, the backup pad accessory.

Certain Scotch-Brite™ Nonwoven Abrasives do not have a speed rating. Therefore, the Max. RPM of the backup pad should be used. Always use proper backup pads with discs. Select a back up pad that is compatible with and the same size as the disc being used.

Exceeding the product's Max. RPM can cause it to break apart and cause serious injury.

EXAMPLE

3M™ Roloc™ Disc Pad
Max. RPM: 20,000

Scotch-Brite™ Roloc™ Nonwoven Abrasive Disc
Max. RPM: 18,000

DO NOT EXCEED 18,000 RPM

SAFETY ICONS ARE LOCATED ON THE ABRASIVE, LABEL OR PACKAGE AND MAY VARY BY PRODUCT.

Scotch-Brite™ Precision Surface Conditioning Discs

Scotch-Brite™ Clean and Strip XT Pro Extra Cut Discs

NEVER EXCEED THE MAX. RPM SPEED of the abrasive (disc, wheel, belt) or when applicable, the backup pad accessory.

PROTECT HANDS
Always wear safety gloves.

PROTECT LUNGS

PROTECT EARS
Protect your hearing.

PROTECT EYES
Wear safety goggles.

READ INSERT before mounting or using product.

PROTECT BODY AND SKIN

Safety Icons

PREP	SDS	Read SDS before mounting or using product.
PROTECTION		Always wear ANSI Z87+ approved face shield. Safety goggles should always be worn with a face shield. Do not wear a face shield alone.
		Protect your eyes, ears and lungs. Always wear ANSI Z87+ approved face shield. Safety goggles and EPA labeled hearing protection and NIOSH approved respirators.
		Protect your hands. Always wear safety gloves.
		Body and Skin Protection
SAFE OPERATING	Check Max. RPM	Check Max. RPM
		Inspect Wheel
		Abrasive product only for use with additional appropriate backup pad.
		Do not use a damaged abrasive wheel.
		Vibrating / wobbling wheel hazard.

TECH TIP | WHERE TO FIND MAX. OPERATING SPEEDS

3M™ ROLOC™ DISCS
Max. RPM is located on the label or box.

BELTS
6,500 SFPM.

BRISTLE DISCS
Max. RPM is molded into the back of the disc.

WHEELS / BRUSHES
Max. RPM is located on the label or box.

ABRASIVES AUTOMATION AND ROBOTICS

3M offers abrasive solutions and expertise to help you automate a variety of material removal processes, from robotic grinding to robotic polishing and every step in-between.

Scotch-Brite™ products are ideally suited for robotic applications as they can help increase productivity, consistency and cost savings in automated processes.

FOLLOW US INTO THE FUTURE

From abrasives to automation, 3M continues to innovate, reinvent and reimagine industrial solutions for the metalworking industry.

ABRASIVES AUTOMATION AND ROBOTICS

COMMITMENT TO AUTOMATION SUCCESS.

Highly conformable Scotch-Brite™ Nonwoven Abrasives allow the abrasive to stay in contact with complex-shaped parts, while delivering consistent performance, making them ideal for robotic processing. Scotch-Brite™ solutions offer a wide range of long-lasting wheels, belts and brushes for automated applications.

APPLICATIONS USING SCOTCH-BRITE™ PRODUCTS

AUTOMATION				FIXED AUTOMATION	
ROBOTIC DEBURRING	ROBOTIC WELD GRINDING AND BLENDING	ROBOTIC SATIN FINISHING AND POLISHING	ROBOTIC CLEANING AND COATINGS REMOVAL	AUTOMATED FLAT FINISHING	AUTOMATED DEBURRING
Deburr and Finish PRO Unitized Wheels EXL Unitized Wheels EXL Deburring Convolute Wheels Radial Bristle Brushes and Bristle Discs	Surface Conditioning Discs Surface Conditioning Belts	Surface Conditioning Belts Metal Finishing Unitized Wheels Multi-Finishing Unitized Wheels Surface Conditioning Flap Brushes	Clean and Strip Discs Clean and Strip XT Pro Discs Bristle Discs	Wide Brushes Surface Conditioning Long / Wide Belts	Brushes Surface Conditioning Belts

COMPLEX? SURE.

DOABLE? ABSOLUTELY.

3M has the expertise, connections and products to help you succeed.

GET STARTED — contact your 3M sales professional or get in touch with one of our application engineers at **3M.com/robotics.**

Check out this additional content!

Automation Toolkit

Automation Customer Handbook

Automation Abrasives

Robotics and Automation Abrasive Processing Handbook

LEARN MORE **HANDBOOKS**

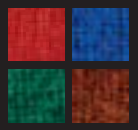
NONWOVEN ABRASIVES

Scotch-Brite™ Nonwoven Abrasives allow you to achieve a uniform finish in fewer steps without damaging the base material.

Our full line of abrasives are available in a variety of grades to help you meet your deburring, sanding, blending, finishing and polishing requirements.

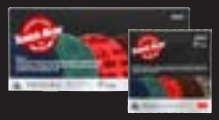
COLOR CODING

Discs Page 17
Belts Page 36



TRIAL PACKS

Page 44

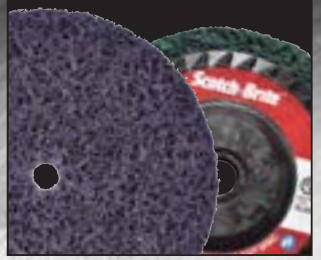


SURFACE CONDITIONING DISCS

Pages 16–21

CLEAN AND STRIP

Pages 22–23



UNITIZED WHEELS

Pages 24–26

CONVOLUTE WHEELS

Pages 27–30

FLATSTOCK AND HAND PADS

Pages 31–34

BELTS

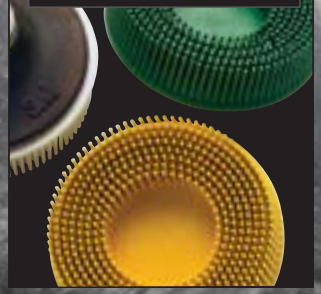
Pages 35–38

BRUSHES

Pages 39–40

MOLDED

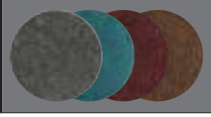
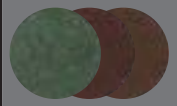
Pages 41–43



SCOTCH-BRITE™ SURFACE CONDITIONING DISCS

CHOOSE THE RIGHT DISC FOR THE JOB.

Scotch-Brite™ Surface Conditioning Discs can help with your first step for cleaning, blending, deburring and finishing without undercutting the base material. The durable open web is designed to resist loading — producing a high cut rate, consistent finish and extending operation.

	SCOTCH-BRITE™ SURFACE CONDITIONING DISCS	GRADES	CONFORMABLE					DURABLE			SUBSTRATES	MINERAL
			POLISH	CLEAN	RADIUS	FINISH	REFINE	BLEND	DEBURR & EDGE BREAK	GRIND		
MULTIPURPOSE	Precision	VFN, CRS, FIN, XCRS, MED	✓	✓	✓	✓	✓	✓	✓	✓* * CRS / XCRS	*Can vary by grade* Stainless Steel, Aluminum, Mild Steel, Titanium, Nickel Alloys	PSG 3M Precision-Shaped Grain
MULTIPURPOSE	SC 	SFN, VFN, MED, CRS	✓	✓	✓	✓	✓	✓			Stainless Steel, Aluminum, Mild Steel, Titanium, Nickel Alloy	A/O + SiC Aluminum oxide/Silicon carbide
HEAVY DUTY	SE 	FIN, MED, CRS					✓	✓	✓		Stainless Steel, Aluminum, Mild Steel	A/O Aluminum oxide
HEAVY DUTY	Light Grinding and Blending	HD-CRS, SD-CRS						✓	✓	✓	Stainless Steel, Aluminum, Mild Steel, Titanium, Nickel Alloys	C Ceramic aluminum oxide blend

SFN Super Fine → VFN Very Fine → FIN Fine → MED Medium → CRS Coarse → HD-CRS Heavy Duty Coarse → SD-CRS Super Duty Coarse → XCRS Extra Coarse

MAKE TOUGH JOBS EASIER.

Scotch-Brite™ Surface Conditioning Discs can help you achieve a burr-free, paintable finish in fewer steps without damaging the base material. The nonwoven, open web and durable construction is designed to resist loading and greatly increase the life of the disc.

Check out this additional content!

Watch how Scotch-Brite™ discs complete these jobs!

- GRINDING (2:31 MIN)
- BLENDING (1:46 MIN)
- REFINING (2:17 MIN)
- CLEANING (1:31 MIN)

Find the right disc for your job

Watch a product demo video!

- DEMO (1:38 MIN)

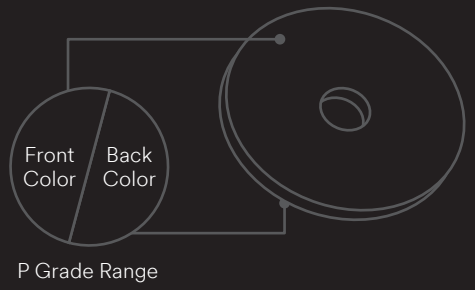
Surface Conditioning Discs Portfolio

WATCH VIDEOS | RESOURCES

CRACKING THE COLOR CODE — DISCS

HAVE CONFIDENCE THAT YOU ARE USING THE REAL DEAL.

Recognizing the authentic Scotch-Brite™ Brand colors can help you to quickly identify quality nonwoven abrasives — and their grades.[1]

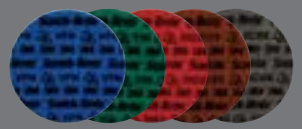
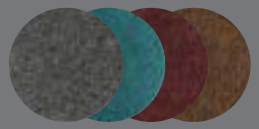
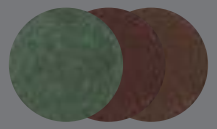
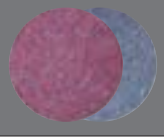


	Scotch-Brite™ Surface Conditioning Discs	SFN Super Fine	VFN Very Fine	FIN Fine	MED Medium	CRS Coarse	HD-CRS Heavy Duty	SD-CRS Super Duty	XCRS Extra Coarse
MULTIPURPOSE	PSG Precision		320–280	280–220	220–150	150–120			120–100
MULTIPURPOSE	SC	600–400	400–320		220–180	150–120			
HEAVY DUTY	SE			220–180	180–120	100–80			
HEAVY DUTY	Light Grinding and Blending						120–100	100–80	

P GRADES

1. Scotch-Brite™ nonwoven abrasives, grade is generally used to describe the finish attributes — the coarser the grade, the more aggressive cut and finish. P Grade ranges for Scotch-Brite™ Discs are based on comparative finishes to 3M paper discs (tested on mild steel and rotary tool). Grade ranges are reference point only — listed from finer to coarser. Measured finish will be affected by operator, tool, accessories used, substrate and application, and provided ranges are reference point only.

FINISHING GUIDE BY SUBSTRATE

	SCOTCH-BRITE™ SURFACE CONDITIONING DISCS	MINERAL	GRADE	SUBSTRATE ROUGHNESS AVERAGE (RA) 1018 MILD STEEL IN (MICRON)	304 STAINLESS STEEL IN (MICRON)	6061 ALUMINUM µIN (MICRON)
MULTIPURPOSE	Precision 	PSG 3M Precision-Shaped Grain	VFN	11 – 15 (0.2 – 0.4)	9 – 11 (0.2 – 0.3)	23 – 38 (0.5 – 1.0)
			FIN	16 – 23 (0.4 – 0.6)	14 – 17 (0.3 – 0.5)	34 – 53 (0.8 – 1.4)
			MED	21 – 37 (0.5 – 1.0)	19 – 23 (0.4 – 0.6)	65 – 75 (1.6 – 2.0)
			CRS	40 – 51 (1.0 – 1.3)	21 – 27 (0.5 – 0.7)	69 – 84 (1.7 – 2.2)
			XCRS	42 – 53 (1.2 – 1.9)	36 – 54 (0.9 – 1.4)	121 – 140 (3.0 – 3.6)
	SC 	A/O + SiC Aluminum oxide/Silicon carbide	SFN	N/A	5 – 7 (0.1 – 0.2)	16 – 22 (0.4 – 0.6)
			VFN	10 – 14 (0.2 – 0.4)	8 – 9 (0.2 – 0.3)	20 – 25 (0.5 – 0.7)
			MED	12 – 17 (0.3 – 0.5)	19 – 23 (0.4 – 0.6)	34 – 45 (0.8 – 1.2)
			CRS	17 – 29 (0.4 – 0.8)	25 – 31 (0.6 – 0.8)	62 – 84 (1.5 – 2.2)
HEAVY DUTY	SE 	A/O Aluminum oxide	FIN	10 – 24 (0.2 – 0.7)	16 – 21 (0.4 – 0.6)	37 – 52 (0.9 – 1.4)
			MED	21 – 28 (0.5 – 0.8)	19 – 24 (0.4 – 0.7)	64 – 97 (1.6 – 2.5)
			CRS	46 – 57 (1.1 – 1.5)	36 – 43 (0.9 – 1.1)	72 – 113 (1.8 – 2.9)
	Light Grinding and Blending 	C Ceramic aluminum oxide blend	HD-CRS	32 – 54 (0.8 – 1.4)	33 – 42 (0.8 – 1.1)	90 – 110 (2.2 – 2.8)
			SD-CRS	53 – 84 (1.3 – 2.2)	50 – 59 (1.2 – 1.5)	110 – 171(2.7 – 4.4)

The information we are furnishing is based on tests performed at 3M laboratory facilities. While we believe that these test results are reliable, their accuracy or completeness is not guaranteed. Your results may vary due to differences in test types and conditions. This information is intended for use by persons with the knowledge and technical skills to analyze, handle and use such information. You must evaluate and determine whether the product is suitable for your intended application. The foregoing information is provided "AS-IS". **In providing this information 3M makes no warranties regarding product use or performance, including any implied warranty of merchantability or fitness for a particular use.**

SCOTCH-BRITE™ SURFACE CONDITIONING DISCS

Scotch-Brite™ Precision Surface Conditioning Discs

VFN | FIN | MED | CRS | XCRS

PSG + Nonwoven

Features 3M Precision-Shaped Grain for fast cut and long life

Expanded grades cover a large range of applications

Balance of conformability and durability

Bright, vivid colors help to identify easier

TECH TIP: You can remove a final sanding step — increasing your productivity!

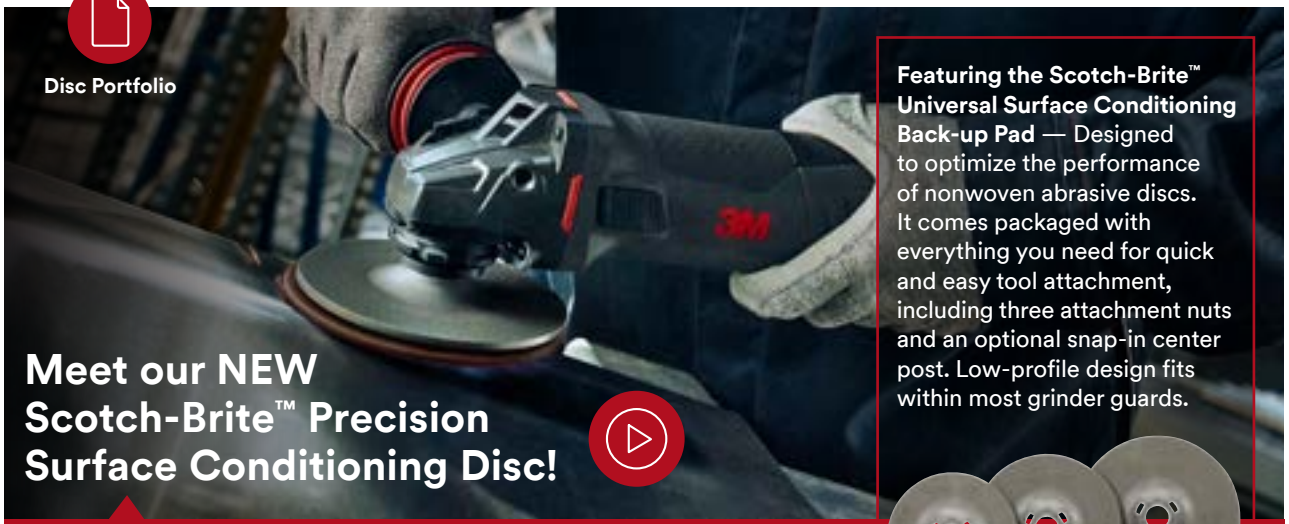
Roloc™ | TN Quick Change

7/8 Center Hole | Hook and Loop

FIND YOUR GRADE AND SIZE

3M™ ROLOC™ SYSTEM

Disc Portfolio



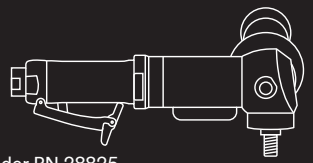
Meet our NEW Scotch-Brite™ Precision Surface Conditioning Disc!

Featuring the Scotch-Brite™ Universal Surface Conditioning Back-up Pad — Designed to optimize the performance of nonwoven abrasive discs. It comes packaged with everything you need for quick and easy tool attachment, including three attachment nuts and an optional snap-in center post. Low-profile design fits within most grinder guards.

WATCH VIDEO (1:20 MIN)

Build Your System

UNIVERSAL BACKUP PAD EXAMPLE



Disc Sander PN 28825

Scotch-Brite™ Universal Backup Pad PN 89871

Adapter Nut
M14 / M10 / 5/8–11 Thread

Center Post (Optional)

Scotch-Brite™ Precision Surface Conditioning Disc
UPC 638060-89244-2

Check out this additional content!

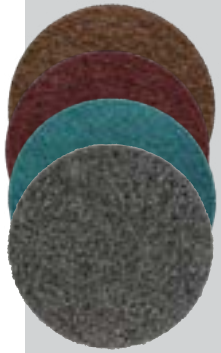
Scotch-Brite™ Universal Surface Conditioning Back-up Pad

LEARN MORE

3M™ Disc Pad Face Plate Ribbed

LEARN MORE

SCOTCH-BRITE™ SURFACE CONDITIONING DISCS



Scotch-Brite™ SC Surface Conditioning Discs

SFN | VFN | MED | CRS

Multipurpose for cleaning, blending, light deburring and finishing

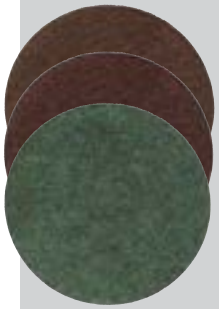
Conforms well on irregular / contoured surfaces without undercutting or damaging base material

Aluminum oxide / silicon carbide for super fine

Open-web resists loading

Roloc™ | TN Quick Change | 7/8 Center Hole | Hook and Loop

FIND YOUR GRADE AND SIZE | **3M™ ROLOC™ SYSTEM**



Scotch-Brite™ SE Surface Conditioning Discs

FIN | MED | CRS

Aggressive disc with long life for heavy duty deburring, finishing and grinding

Appropriate for high to medium pressure applications and edge deburring

Aluminum oxide

Open-web resists loading and runs cool

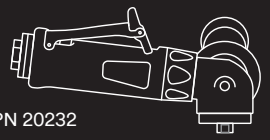
TECH TIP: Easy to recognize with the Scotch-Brite™ branded light blue backing on SE discs and belts!

Roloc™ | TN Quick Change | 7/8 Center Hole | Hook and Loop

FIND YOUR GRADE AND SIZE | **3M™ ROLOC™ SYSTEM**

Build Your System

3M™ ROLOC™ EXAMPLE



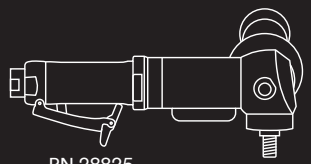
PN 20232

Sander Adapter
PN 06582

3M™ Roloc™ Disc Pad
PN 45091

Scotch-Brite™ Roloc™ SC Surface Conditioning Disc
UPC 048011-05532-9

HOOK AND LOOP EXAMPLE



PN 28825

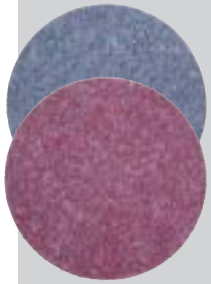
3M™ Hook and Loop Disc Pad Holder
PN 9145

Scotch-Brite™ SE Surface Conditioning Disc
UPC 048011-18079-3

TECH TIP | NEED TO REDUCE VIBRATION?

A "Direct Mount" Disc Pad attachment has a lower profile and offers better control. Check out a Collet accessory for a longer reach.

SCOTCH-BRITE™ SURFACE CONDITIONING DISCS



Scotch-Brite™ Light Grinding and Blending Discs

HD-CRS | SD-CRS

- Grinds and blends in one step
- 3M ceramic aluminum oxide blend abrasive grain
- Aggressive cut, long life, consistent finish
- Durable construction resists edge wear

TECH TIP: You can remove a final sanding step — increasing your productivity!

Roloc™ | TN Quick Change | 7/8 Center Hole | Hook and Loop

FIND YOUR GRADE AND SIZE

3M™ ROLOC™ SYSTEM

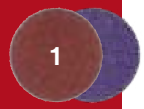
Watch our demo video! (1:01 MIN)

Learn more 3M™ Disc Pad Face Plate

TECH TIP

2-Step Weld Remove and Prep for Paint

Remove the weld with 3M™ Cubitron™ II Fibre Disc 982C or 982CX Pro



Finish with the Scotch-Brite™ Light Grinding and Blending (SD) or Scotch-Brite™ Precision Surface Conditioning (XCRS) Discs

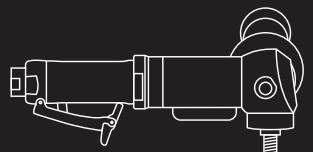
Ready for paint (>3mil)

For best results use with red (extra hard) or black (hard) 3M™ Disc Face Plates.

Build Your System

TN QUICK CHANGE EXAMPLE

2-piece Attachment System



PN 28825

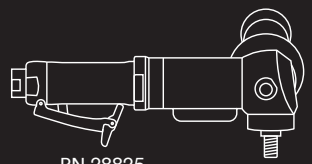
3M™ Disc Pad Hub
PN 45205

3M™ Disc Pad Face Plate
PN 14270

Scotch-Brite™ Light Grinding and Blending Disc
UPC 048011-60349-0

7/8" CENTER HOLE EXAMPLE

3-piece Attachment System



PN 28825

3M™ Disc Pad Hub
PN 45205

3M™ Disc Pad Face Plate
PN 14270

Scotch-Brite™ Light Grinding and Blending Disc
UPC 048011-60332-2

3M™ Disc Retainer Nut
PN 51047

SCOTCH-BRITE™ CLEAN AND STRIP XT PRO DISCS

CHOOSE YOUR CUT.

XT PRO

- Rust, paint, light mill scale removal
- Maintains workpiece shape
- Low sparking
- Ideal for surface prep
- Made with silicon carbide mineral

BOTH

- Rapid coating removal and surface prep
- Decreased chunking — extended life
- Highly conformable
- High speed rating
- Quick change, spin-on thread

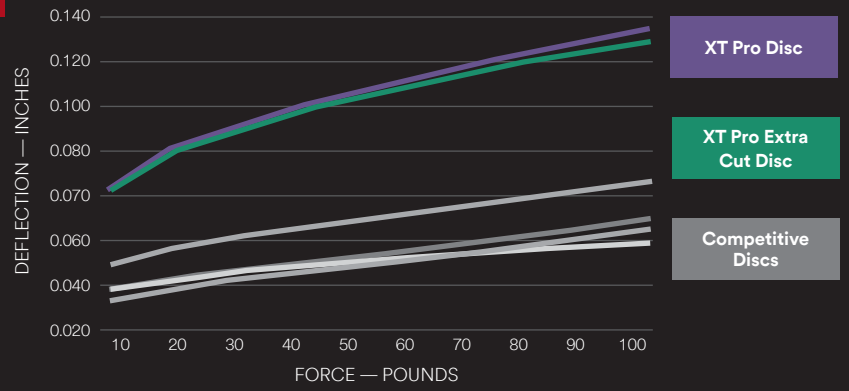
XT PRO EXTRA CUT

- Heavy rust / rust pit removal without leaving divots
- Thick paint and coating removal
- Weld refinement and removing weld discoloration
- Cuts to bare metal quickly
- Ideal for adhesion prep
- Made with aluminum oxide mineral

CONFORMABILITY TEST

BETTER CONTACT FOR FASTER REMOVAL

Scotch-Brite™ Clean and Strip XT Pro and XT Pro Extra Cut consistently



SPEED WITHOUT COMPROMISE.

Scotch-Brite™ Clean and Strip XT Pro and XT Pro Extra Cut Discs offer increased conformability without undercutting strength. Rated for high speeds, they spin easily onto your angle grinder with a quick-change threaded hub — no accessories needed.

Check out this additional content!

Watch our FACT or FICTION video! (1:08 SEC)

Watch a product demo video!

WATCH VIDEOS

LEARN MORE

SCOTCH-BRITE™ CLEAN AND STRIP DISCS

Scotch-Brite™ Clean and Strip XT Pro Discs

Quickly removes rust, paint, mill scale, coatings from metal and leaves a fine finish

Silicon carbide mineral cuts aggressively

Low sparking

Maintains workpiece shape

Roloc™ | TN Quick Change | Center Hole | 5/8–11

FIND YOUR GRADE AND SIZE

3M™ ROLOC™ SYSTEM

Scotch-Brite™ Clean and Strip XT Pro Extra Cut Discs

Heavy rust / rust pit removal without leaving divots, ideal for weld refinement and removing weld discoloration

Aluminum oxide mineral cuts to bare metal quickly

Decreased chunking — extended life

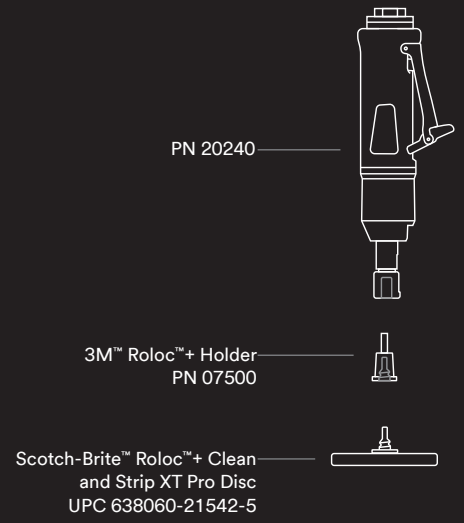
Roloc™ | TN Quick Change | Center Hole | 5/8–11

FIND YOUR GRADE AND SIZE

3M™ ROLOC™ SYSTEM

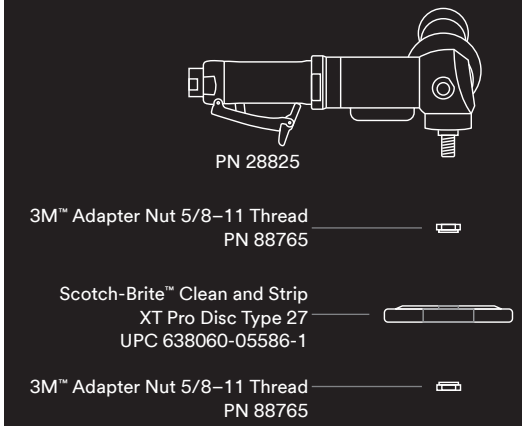
Build Your System

3M™ ROLOC™ + SYSTEM EXAMPLE



7/8" CENTER HOLE EXAMPLE

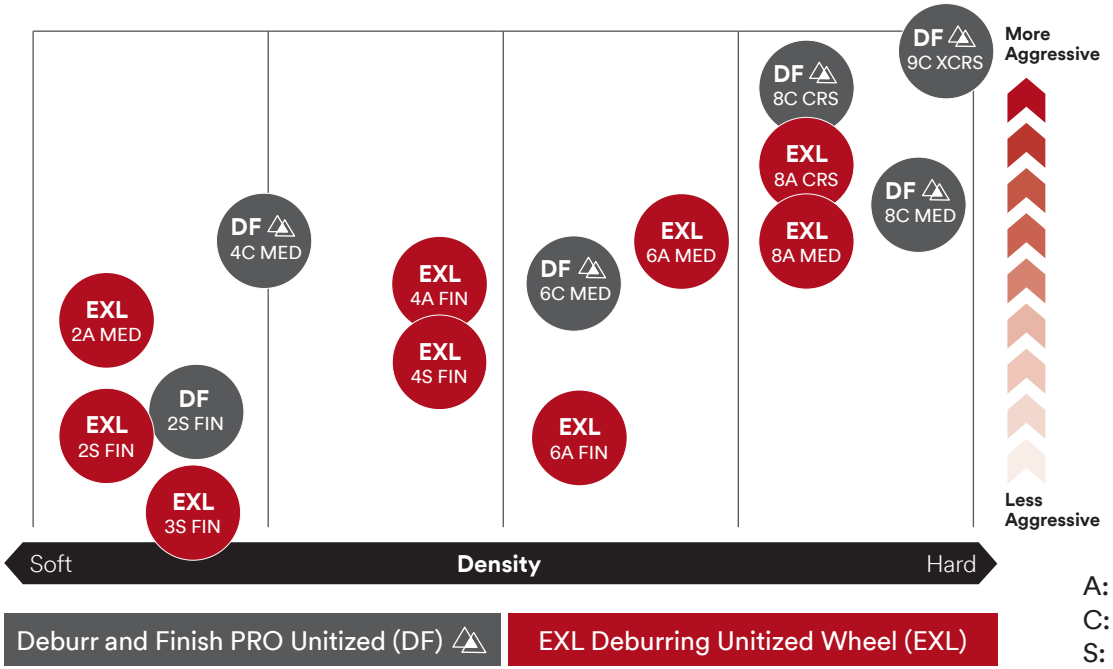
1-piece Attachment System



SCOTCH-BRITE™ UNITIZED WHEELS

HIGH PERFORMANCE AND DURABILITY.

Scotch-Brite™ Unitized Wheels are stacked, compressed layers of nonwoven web designed to bring abrasive to the part. Performance differences between unitized wheels can be attributed to mineral (aggressiveness) and density (hardness). The combination of these two characteristics and subtle variations determine if the wheel will cut more aggressively or will be more durable and less conformable.



Deburr and Finish PRO Unitized (DF) | EXL Deburring Unitized Wheel (EXL)

A: Aluminum Oxide
C: Ceramic
S: Silicon Carbide

TECHNOLOGY

3M PRECISION-SHAPED GRAIN NONWOVEN TECHNOLOGY

Scotch-Brite™ Deburr and Finish PRO Unitized Wheels combine 3M Precision-Shaped Grain with our nonwoven technology, so you get a wheel that's soft enough to reduce defects but wears like iron without sacrificing the smooth feel and control you expect from Scotch-Brite™ Wheels.

COOL UNDER PRESSURE.

Scotch-Brite™ Unitized Wheels are manufactured with compressed, nonwoven fiber construction and uniform grain distribution. These rugged, fast cutting wheels produce great results on all types of metal, composites and glass.

Smaller wheels are designed for use on die grinders and angle grinders.

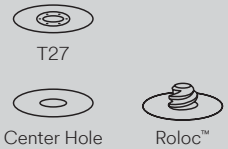
Check out this additional content!

LEARN MORE

SCOTCH-BRITE™ UNITIZED WHEELS

Scotch-Brite™ Deburr and Finish PRO Unitized Wheels

- 3M Precision-Shaped Grain is engineered to cut fast and sharp, enabling quicker burr removal
- Quickly polish, finish, blend and deburr
- Nonwoven construction minimizes loading and change to part geometry
- Up to 3X longer wheel life in deburring applications



FIND YOUR GRADE AND SIZE | **3M™ ROLOC™ SYSTEM**

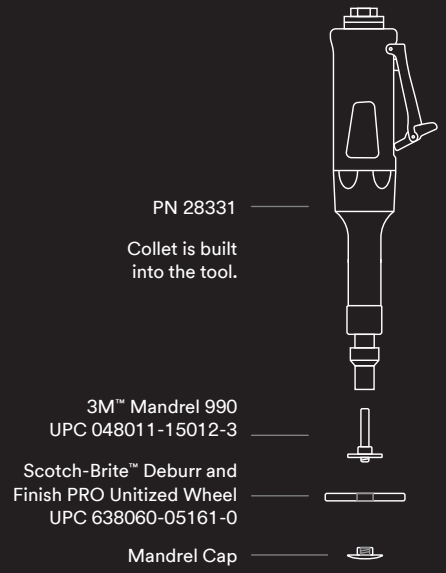
Scotch-Brite™ EXL Unitized Deburring Wheels

- For deburring, finishing and polishing of all metal alloys and plastics and composites
- Densities and grades ranging from soft and conformable to hard and aggressive offer utility for a wide variety of applications
- Resists smearing and minimizes heat buildup on the work piece
- Conformable to complex-shaped parts

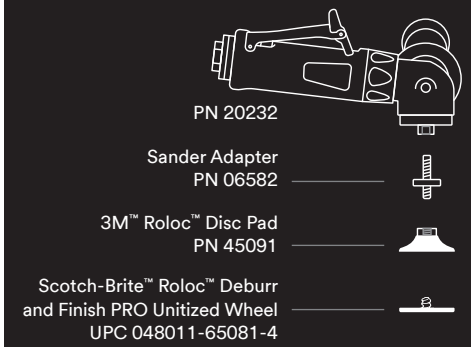
FIND YOUR GRADE AND SIZE | **3M™ ROLOC™ SYSTEM**

Build Your System

3M™ COLLET SYSTEM EXAMPLE



3M™ ROLOC™ EXAMPLE



TECH TIP | COLLETS

Different collet sizes are available for a variety of shaft / spindle / mandrel diameters.

SCOTCH-BRITE™ UNITIZED WHEELS

Scotch-Brite™ Cut and Polish Unitized Wheels

- Highly durable and aggressive to remove oxides, rusts and colors to produce a shiny or polished finish
- Aluminum oxide mineral has high cut-rate, hardness and strength
- Excellent for aggressive heavy duty blending and finishing with uniform results
- Good replacement for rubber bonded wheels and small set-up wheels

Center Hole

Roloc™

FIND YOUR GRADE AND SIZE | **3M™ ROLOC™ SYSTEM**

Scotch-Brite™ Laser Braze Finishing Wheel

- 3M Precision-Shaped Grain for long life, fewer wheel changes
- Used for smoother more refined brazed surfaces that don't require as much removal/leveling
- Very strong and flexible, for advanced force control

Scotch-Brite™ EXL Pro Unitized Wheel

- Used for brazed joints with more variability/deeper pits and ripples
- Predictable, consistent and smooth finish for life of wheel
- Extra rugged construction for higher pressure finishing

FIND YOUR GRADE AND SIZE | **WATCH VIDEO** | **FIND YOUR GRADE AND SIZE**

Abrasive Wheels for Robotic Braze Blending and Cleaning

Check out our ROOF DITCH BLENDING video!
(2:17 MIN)

Scotch-Brite™ Unitized Wheels Classification

FAMILY

Deburr & Finish PRO | EXL | Cut and Polish | Laser Braze | EXL Pro

DENSITY

2 3 4 5 6 7 8 9

MINERAL

- A/O ALUMINUM OXIDE
- SiC SILICON CARBIDE
- C CERAMIC ALUMINUM OXIDE

GRADE

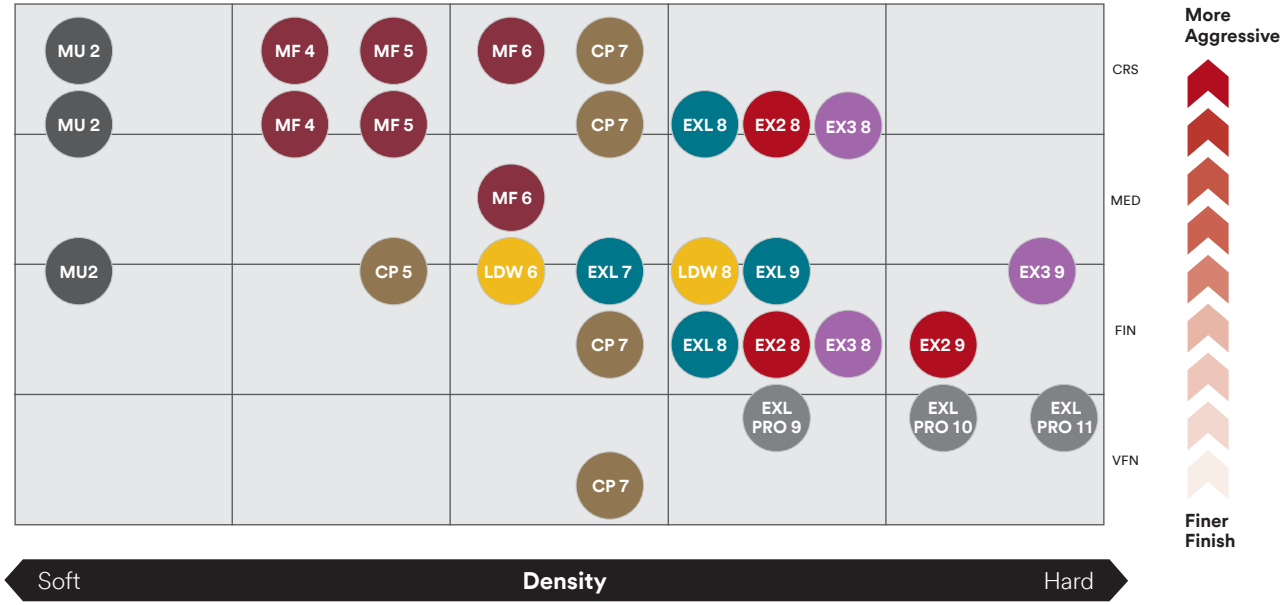
- VFN VERY FINE
- FIN FINE
- MED MEDIUM
- MED+ MEDIUM PLUS
- CRS COARSE
- CRS+ COARSE PLUS
- XCRS EXTRA COARSE

APPLICATIONS	Deburring	Blending	Finishing	Polishing
Deburr and Finish PRO	✓	✓	✓	
EXL	✓	✓	✓	✓
Cut and Polish		✓	✓	✓
Laser Braze	✓	✓	✓	
EXL Pro	✓	✓	✓	

SCOTCH-BRITE™ CONVOLUTE WHEELS

REACH YOUR DEBURRING AND FINISHING POTENTIAL.

Get high performance and durability, Scotch-Brite™ Convolute Wheels produce great results on all types of metal, composites and glass. Used on pedestal grinders, back stands and bench motors, these wheels provide a consistent working surface even as the wheel wears.



More Aggressive

Finer Finish

SCOTCH-BRITE™ CONVOLUTE WHEEL	Deburring	Blending	Finishing	Polishing
EXL / EX2 / EX3 Deburring (EXL)	✓	✓		
EXL Pro Deburring (EXL PRO)	✓			
Metal Finishing (MF)		✓	✓	
Cut and Polish (CP)		✓	✓	✓
Multi-Finishing (MU)		✓	✓	
Light Deburring (LDW)			✓	✓

RECOMMENDED OPERATING SPEEDS	
Application	SFPM
Finishing	500 – 3,000
Composites / Soft Materials	1,200 – 2,700
Deburring	5,000 – 7,500
Blending / Polishing	6,000 – 8,000

SFPM = Surface Feet Per Minute

MAXIMUM OPERATING SPEEDS	
Diameter	RPM
4"	9,000
6"	6,000
8"	4,500
10"	3,600
12"	3,000
14"	2,550
16"	2,250
18"	2,000
20"	1,800
24"	1,500

FOR WHEN YOU NEED TO ACHIEVE A FINE FINISH.

Engineered to strike a balance between durability and conformability to deliver unmatched results in deburring, weld blending, finishing and polishing applications.

Scotch-Brite™ Wheels are powered by nonwoven technology — a conformable nylon web with incorporated abrasive grain developed by 3M engineers.

Check out this additional content!

LEARN MORE

SCOTCH-BRITE™ CONVOLUTE WHEELS — DEBURRING

Scotch-Brite™ EXL Pro Deburring Wheels

- Wheel design achieves 30–50% longer life than the original EXL wheel
- Exceptional cut and longevity, with less pressure — without sacrificing finish
- Consistent, optimal results particularly in off-hand operations
- Soft and smooth with even wear to help control the workpiece

FIND YOUR GRADE AND SIZE

Scotch-Brite™ EXL, EX2 and EX3 Deburring Wheels

- Full line of densities, grades and sizes for any deburring or finishing application
- Use to clean, finish, blend, deburr or polish all types of metals, composites and glass
- Resists smearing and minimizes heat buildup on the work piece

FIND YOUR GRADE AND SIZE

Scotch-Brite™ Convolute Deburring Wheels are tough, resilient wheels specifically designed to provide a clean, controlled and effective system for deburring, polishing and edge radiusing. These wheels provide a consistent working surface even as the wheel wears.

AGGRESSIVENESS

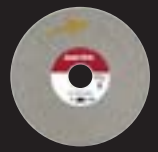
EXL | EX2 | EX3 | EXL Pro

LEAST → MOST

HARDNESS

EXL | EXL Pro | EX2 | EX3

LEAST → MOST

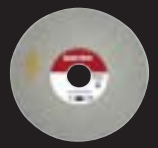


EXL

CONFORMABLE AND OFF HAND APPLICATION

EX2

MID-RANGE AGGRESSIVENESS PERFORMANCE



EX3

HARDEST WHEEL, LONGER LIFE AND PERFORMANCE

SCOTCH-BRITE™ CONVOLUTE WHEELS — FINISHING

Scotch-Brite™ Metal Finishing Wheels

For decorative finishing and blending — designed to apply uniform and consistent satin, antique, mill and brushed finishes on metals

Highly conformable

Removes minor imperfections and handling marks

Density	Mineral	Grade	Dia.	Width
4, 5, 6	A/O	MED, CRS	4"–24"	.5"–36"

FIND YOUR GRADE AND SIZE

Scotch-Brite™ Multi-Finishing Wheels

For decorative, satin finishing and blending of all metals in fewer steps

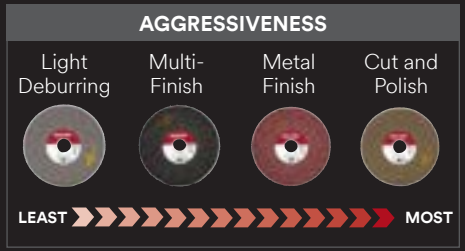
Often used on inline sanding tools for large surface repair

Produces a bright finish with a wide scratch pattern

Density	Mineral	Grade	Dia.	Width
2, 3, 4	SiC	FIN, MED, CRS	4"–24"	.5"–36"

FIND YOUR GRADE AND SIZE

Scotch-Brite™ Convolute Finishing Wheels generate surface finishes and blend or refine scratches to create aesthetically pleasing looks. These wheels are designed to apply a variety of uniform finishes such as aesthetic satin finishes, antique finishes, matte finishes, and matching #3 mill and #4 mill finishes. Achieve your desired finish in fewer steps, in less time and with less effort.



SCOTCH-BRITE™ CONVOLUTE WHEELS — FINISHING

Scotch-Brite™ Cut and Polish Wheels

For aggressive finishing applications, and is good for defect removal and scratch blending

Produces a dull finish with a tight scratch pattern

Most durable of our finishing wheels

Density	Mineral	Grade	Dia.	Width
5, 7	A/O	VFN, FIN, MED, CRS	4"–24"	.5"–36"

FIND YOUR GRADE AND SIZE

Scotch-Brite™ Light Deburring Wheels

Provides a clean and effective system for removing fine burrs while providing a highly polished finish

Produces a bright and consistent finish with tight scratch pattern

Very soft and conformable

Density	Mineral	Grade	Dia.	Width
6, 7, 8	SiC	FIN	4"–24"	.5"–36"

FIND YOUR GRADE AND SIZE

CONVOLUTE WHEELS VS. UNITIZED WHEELS

Often determined by the part configuration, wheel size availability, and tool speed.

CONVOLUTE

typically bigger wheels and used on stationary equipment

UNITIZED

typically smaller wheels and used on portable tools

3M PRESENTS THE "FINISHING FOUR."

The easiest way to achieve the look you're going for!

METAL FINISHING WHEELS create a satin finish that is somewhat coarser and duller than our light deburring wheels.

MULTI-FINISHING WHEELS create a bright finish with a wide scratch pattern.

CUT AND POLISH WHEELS produce a dull finish with a tight scratch pattern.

LIGHT DEBURRING WHEELS produce a bright and consistent finish with a tight scratch pattern.

SCOTCH-BRITE™ FLATSTOCK AND HAND PADS

FIND YOUR HAND PAD.

Use the selection guide below to find the right mineral, grit coarseness and finish for your application — including light duty cleaning, blending and finishing and every surface prep task in between.

START HERE

Durable Flex
Most Flexible Option

Flexible, durable gray hand pad. Long lasting, tear and load resistant for fast, consistent action without compromising finish.

7447
Trusted General Purpose Hand Pad

Most popular general purpose hand pad. Dark maroon pad cleans, blends, finishes and deburrs.

Durable Flex
Long Lasting — Specially Coated to Resist Loading

Flexible, durable maroon hand pad. Long lasting, tear and load resistant for fast, consistent action without compromising finish.

7447 Pro
Most Durable and Aggressive

Long lasting maroon hand pad for uniform scratch. Specialty coated to resist loading.

FULL PORTFOLIO

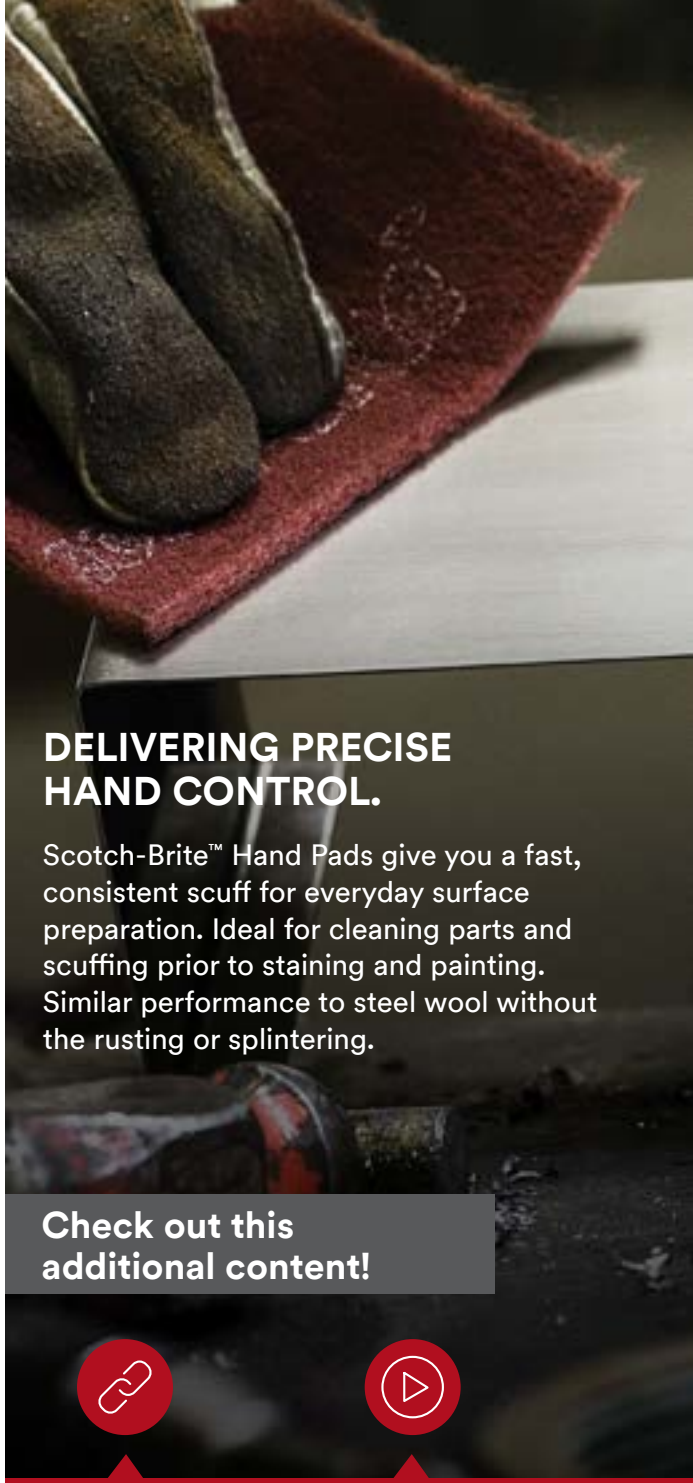
Less Aggressive / Finer Finish — More Aggressive / Coarser Finish

7445	7448	Durable Flex	7448 Pro	7447	Durable Flex	7447 Pro	8447	7446	7440
F SFN*	S ULF	S ULF	S ULF	A VFN	A VFN	A VFN	A VFN	S MED	A MED

F = Flint S = Silicon Carbide A = Aluminum Oxide *Nepheline Syenite SFN = Super Fine ULF = Ultra Fine VFN = Very Fine MED = Medium

TECH TIP

Aluminum Oxide (A): A more durable mineral that performs in aggressive applications.
Silicon Carbide (S): A sharper mineral and is used for finer finishing applications.



DELIVERING PRECISE HAND CONTROL.

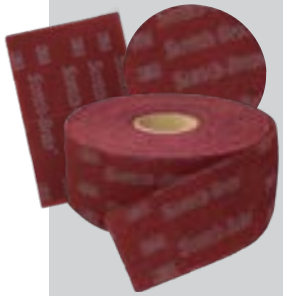
Scotch-Brite™ Hand Pads give you a fast, consistent scuff for everyday surface preparation. Ideal for cleaning parts and scuffing prior to staining and painting. Similar performance to steel wool without the rusting or splintering.

Check out this additional content!

LEARN MORE

WATCH VIDEO (2:30 MIN)

SCOTCH-BRITE™ HAND PADS AND FLATSTOCK



Scotch-Brite™ Hand Pads 7447 Pro

- Very fine grade aluminum oxide mineral cleans and finishes efficiently
- Tightly graded abrasive particles for consistent, uniform scratch throughout life of the hand pad
- Long lasting pad made with durable nonwoven nylon web is flexible enough to get into hard-to-sand places; Specially coated to minimize loading
- Cleans, finishes and scuffs a wide variety of surfaces, offering supreme versatility
- Can be used wet or dry and rinsed for repeated use

FIND YOUR GRADE AND SIZE

MORE FORMS AVAILABLE

Scotch-Brite™ Hand Pads 7448 Pro

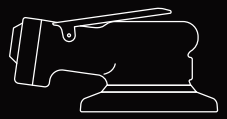
- Ultra fine finishing action outperforms steel wool for cleaning, blending, prepping and finishing on metal, wood, plastics and composites
- Cuts faster and produces a more consistent finish than conventional nonwoven abrasive products
- Long lasting pad is specially coated to minimize loading
- Pad conforms to irregular surfaces and gets into corners without losing performance
- Performs like steel wool grade 00 without shredding, rusting, or splintering

FIND YOUR GRADE AND SIZE

ROLLS AVAILABLE

Build Your System

RANDOM ORBITAL SANDER EXAMPLE
3M™ Hookit™ System



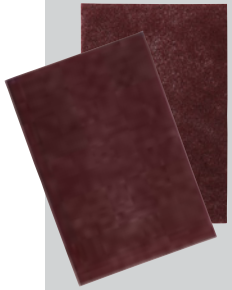
PN 28708

3M™ Hookit™ Low Profile Disc Pad
PN 28852

Scotch-Brite™ Hookit™ 7447 Pro Disc
UPC 048011-65071-5

PERFORATED HAND PADS ARE EASY TO USE!

SCOTCH-BRITE™ HAND PADS AND FLATSTOCK



Scotch-Brite™ Hand Pads 7447

Superior alternative to steel wool, wire brushes, and sandpaper

Use on wood, metal, plastics, ceramics, porcelain, rubber, or composites

Very fine grade aluminum oxide abrasive cleans, finishes, grains, denibs, defuzzes

TECH TIP: If you want 7447 in a roll / sheet / disc, try Scotch-Brite™ Clean and Finish Abrasive A VFN

FIND YOUR GRADE AND SIZE

Scotch-Brite™ Hand Pads 7448

High performance pads are packed with tightly graded abrasive mineral for more consistent, fast cut

Flexible pad cleans, blends and finishes where conformability is needed

Ideal for prepping surfaces for primer and color coat, general scuffing and cleaning

TECH TIP: If you want 7448 in a roll / sheet / disc, try Scotch-Brite™ Clean and Finish Abrasive S ULF

FIND YOUR GRADE AND SIZE

SCOTCH-BRITE™ HAND PADS AND FLATSTOCK

Scotch-Brite™ Durable Flex Hand Pads

- Flexible pad cleans, blends and finishes where conformability is needed
- Tightly graded abrasive mineral provides consistent, fast cut
- Ideal for prepping surfaces for primer and color coat, general scuffing, cleaning and hand blending
- Silicon Carbide Ultra Fine (S ULF) performs like steel wool grade 00; Aluminum Oxide Very Fine (A VFN) performs like steel wool grade 1

TECH TIP: Don't want a standard hand pad? Try a roll and tear off your perfect size!

FIND YOUR GRADE AND SIZE

ROLLS AVAILABLE

Scotch-Brite™ Heavy Duty Hand Pad 7440

- Aggressive, durable pad for heavy cleaning, deburring and finishing
- Very high density, super aggressive for quick stock removal
- Withstands extremely heavy use on tough surfaces
- Cuts fast to remove coatings and corrosion in demanding cleaning and finishing applications

TECH TIP: If you want 7440 in a roll / sheet / disc, try Scotch-Brite™ Cut and Polish Abrasive

FIND YOUR GRADE AND SIZE

SCOTCH-BRITE™ SURFACE CONDITIONING BELTS

TRUST SCOTCH-BRITE™ BELTS TO DELIVER FANTASTIC FINISHES.

RECOMMENDED BACKINGS ✓ = Recommended Starting Point ✓ = Secondary Starting Point		File Belt	In-Line Sander	Stroke Sander	Back Stand	Centerless / Cylindrical	Flat Finishing
Scotch-Brite™ SC Surface Conditioning Belt	SCRIM	✓	✓				
	LOW STRETCH*				✓	✓	✓
	FILM BACKED			✓			
Scotch-Brite™ Durable Flex (DF) Surface Conditioning Belt	LOW STRETCH*	✓	✓		✓	✓	✓
Scotch-Brite™ SE Surface Conditioning Belt	SCRIM	✓	✓				
	LOW STRETCH*				✓	✓	✓
	FILM BACKED			✓			

*Low stretch is ideal for high tension or long belt applications

FLEXIBLE Resistant to chunking	MULTIPURPOSE The original multipurpose surface conditioning belt	HEAVY DUTY Holds up to sharp edges and burrs
DF CRS	SC CRS	SE CRS
DF MED	SC MED	SE MED
DF FIN	SC VFN	SE FIN
	SC SFN	

More Aggressive

- CRS Coarse
- MED Medium
- FIN Fine
- VFN Very Fine
- SFN Super Fine

Finer Finish

RECOMMENDED OPERATING SPEEDS	
APPLICATION	**SFPM**
Decorative Finishing	500 – 3,000
Deburring	5,000 – 6,500
Cleaning and Conditioning	2,000 – 5,000
Oxide Removal	4,500 – 6,500
Maximum Operating Speed: 6,500 SFPM SFPM = Surface Feet Per Minute	

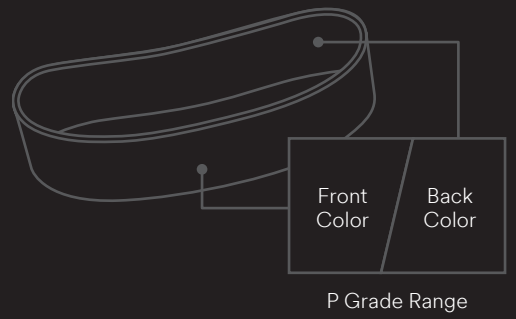
THE EASIEST WAY TO A PERFECT FINISH.

Choose Scotch-Brite™ Surface Conditioning Belts for cleaning, finishing, blending and deburring. The reinforced backing offers good flexibility whether working on a file belt or backstand. The nonwoven material combined with abrasive grain is an ideal way to add a great finish or remove burrs without gouging or undercutting the work piece.

Check out this additional content!

LEARN MORE

CRACKING THE COLOR CODE — BELTS



HAVE CONFIDENCE THAT YOU ARE USING THE REAL DEAL.

Recognizing the authentic Scotch-Brite™ Brand colors can help you to quickly identify quality nonwoven abrasives — and their grades.[1]

Scotch-Brite™ Surface Conditioning Belts		SFN Super Fine	VFN Very Fine	FIN Fine	MED Medium	CRS Coarse	HD-CRS Heavy Duty	SD-CRS Super Duty
MULTIPURPOSE	SC	600–400	400–320		240–180	180–150		
FLEXIBLE	Durable Flex (DF)			280–240	240–180	180–150		
HEAVY DUTY	SE			280–240	240–180	150–120		
HEAVY DUTY	Light Grinding and Blending						180–150	150–120

P GRADES

1. Scotch-Brite™ nonwoven abrasives, grade is generally used to describe the finish attributes — the coarser the grade, the more aggressive cut and finish. P Grade ranges for Scotch-Brite™ Belts are based on comparative finishes to 3M coated belts (tested on stainless steel). Grade ranges are reference point only — listed from finer to coarser. Measured finish will be affected by operator, tool, accessories used, substrate and application, and provided ranges are reference point only.

SCOTCH-BRITE™ SURFACE CONDITIONING BELTS

Scotch-Brite™ SC Surface Conditioning Belts

- Premium Scotch-Brite™ surface conditioning nonwoven web
- Designed for cleaning, finishing and light deburring
- For use on portable, benchtop and backstand equipment
- Backing: Scrim, Low Stretch, Film Backed

SCRIM

FILM BACKED

LOW STRETCH

FIND YOUR GRADE AND SIZE

ADDITIONAL BACKING OPTIONS

Scotch-Brite™ Durable Flex (DF) Surface Conditioning Belt

- Durable flex belt has great edge durability
- Aggressive and long lasting belt for deburring, finishing, blending and cleaning
- The reinforced low stretch backing offers good flexibility
- Ideal for file belts applications
- Backing: Low Stretch

LOW STRETCH

TIP: It's easy to identify DF Belts by the Scotch-Brite™ branded purple backing!

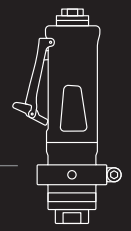
FIND YOUR GRADE AND SIZE

TECH TIP

Is your belt wearing out too fast?
Try the Scotch-Brite™ SE Surface Conditioning Belt.

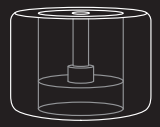
Build Your System

3M™ INLINE SANDER EXAMPLE



PN 28339

3M™ Wheel Adapter Kit
PN 45038



3M™ Rubber Slotted Expander Wheel
5" x 3-1/2", 5/8 Arbor Hole
PN 28348

Adapter Kit Cap

Scotch-Brite™ SC Surface Conditioning Belt
3-1/2" x 15-1/2"
UPC 048011-05228-1

3M™ FILE BELT EXAMPLE

PN 28366

3M™ File Belt Sander Attachment Arm
PN 28368

Scotch-Brite™ Durable Flex Belt
UPC 048011-64455-4

SCOTCH-BRITE™ SURFACE CONDITIONING BELTS

Scotch-Brite™ SE Surface Conditioning Belts

Coarse grade aluminum oxide, tough, aggressive nonwoven belt for heavy duty deburring and finishing

For use on backstand and off hand equipment

Identifiable by light blue backing

Backing: Scrim, Low Stretch, Film Backed

SCRIM

FIND YOUR GRADE AND SIZE

LOW STRETCH

ADDITIONAL BACKING OPTION

SCOTCH-BRITE™ SURFACE CONDITIONING BELTS PERFORMANCE COMPARISON

Scotch-Brite™ SC Surface Conditioning Belts (SC)	Scotch-Brite™ Durable Flex Surface Conditioning Belts (DF)	Scotch-Brite™ SE Surface Conditioning Belts (SE)

Scotch-Brite™ SE Surface Conditioning Belts

RECOMMENDED EQUIPMENT

Back Stand

Centerless / Cylindrical

SCOTCH-BRITE™ FLAP BRUSHES

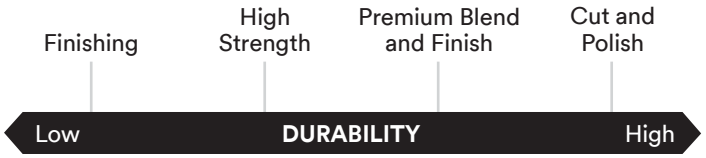
SELECT THE FLAP BRUSH FOR YOUR APPLICATION.

1 FINISHING
Ultra light duty cleaning and finishing operations.

2 CUT AND POLISH
Cleaning and finishing applications that require a more aggressive brush or a brighter finish.

3 PREMIUM BLEND AND FINISH
Aggressive finishing and medium cleaning / deburring applications.

4 HIGH STRENGTH
Medium duty cleaning and finishing requiring a brush with longer life and more durability.



RECOMMENDED OPERATING SPEEDS	
APPLICATION	**SFPM**
Decorative Finishing*	500 – 3,000
Composites / Soft Materials	1,200 – 2,700
Cleaning and Conditioning	2,000 – 5,000
Prepolishing	2,000 – 7,000
Oxide Removal	4,500 – 6,500
Deburring	5,000 – 6,500
Wood Sanding	500 – 2,500
SFPM = Surface Feet Per Minute	

*Finishing Flap Brushes should not be run over 3,500 SFPM

FLAP BRUSHES	
Core	Spindle Mount, 5/8–11 Quick Change, Fiberglass (varies on diameter)
Size	3/4" – 48"
Tool / Machine	Match and Finish Sander, Backstand, Die Grinder, Bench Motor

TECH TIP Increase density to improve life and durability. Most common industrial grinding lubricants, coolants, and/or compounds can be used with Scotch-Brite™ Brushes.

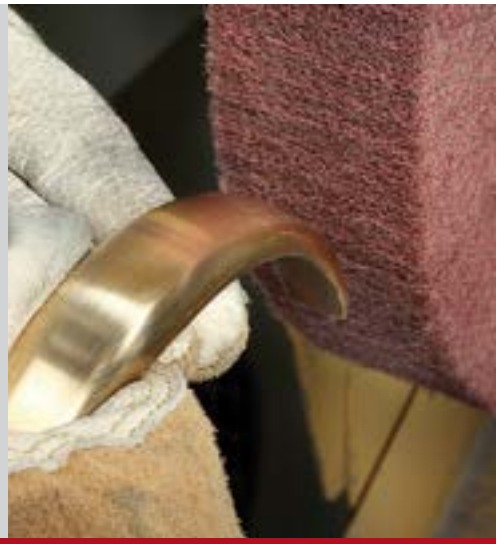
CLEAN, DEBURR OR FINISH.

Scotch-Brite™ Brushes offer versatility for cleaning, finishing and deburring metal, plastics, wood and more. Available in a wide range of grades and brush constructions to help you tailor brush performance to your specific application — do it all, faster and more consistently.

SCOTCH-BRITE™ FLAP BRUSHES

Scotch-Brite™ Finishing Flap Brush

- Soft density and medium / fine / very fine abrasive grades produce brushed surfaces without compounds
- Provides more surface contact than bristle-type brushes
- Continuously supplies fresh abrasives for consistent, uniform finishes
- Nonwoven web is load and heat resistant, enabling fine finishing results



FIND YOUR GRADE AND SIZE

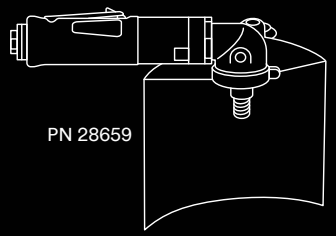
Scotch-Brite™ Cut and Polish Flap Brush

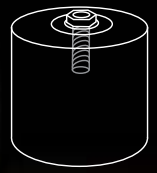
- Great for medium / heavy duty cleaning, deburring, polishing and finishing
- Open web is load resistant, enabling aggressive cleaning and bright finishing
- Deburrs stamped or laser-cut parts
- Conforms well on irregular / contoured surfaces without undercutting or damaging base material

FIND YOUR GRADE AND SIZE

Build Your System

MATCH AND FINISH SANDER EXAMPLE





Scotch-Brite™
Match and Finish Flap Brush
4-1/2" x 4" x 5/8–11
UPC 051141-55745-8

SCOTCH-BRITE™ SURFACE CONDITIONING MOLDED ABRASIVES

SCOTCH-BRITE™ BRISTLE BRUSHES AND DISCS

Safer operation and conformability in contoured areas

Long life with consistent performance

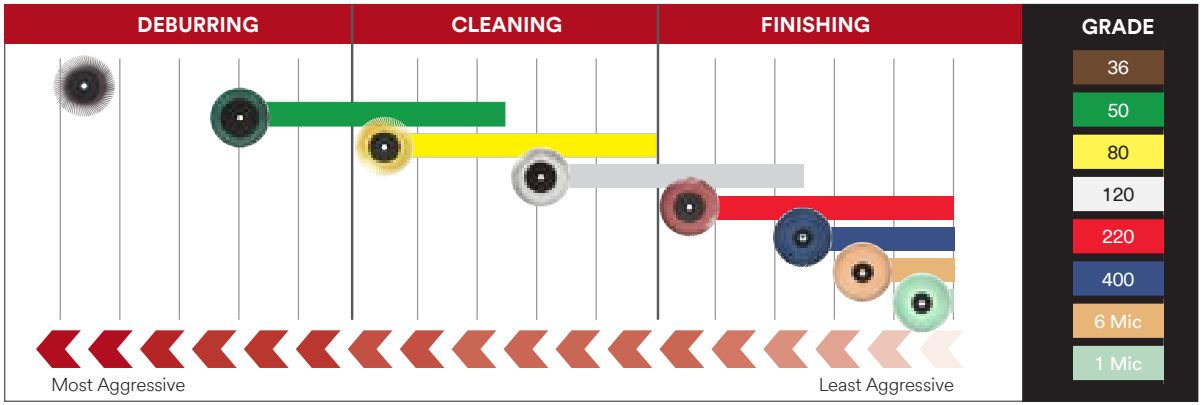
Scotch-Brite™ Bristle Discs and Brushes last longer than most abrasives and provide the same finish and cut throughout their life. For productivity in automated procedures, there are fewer changeovers.

Conformability and more surface contact

Unlike most abrasives, Scotch-Brite™ Bristle products are flexible and conform to irregular surfaces. They require less manipulation by operators on parts. You can expect a consistent finish even on the most complex parts.

Safety

To help you meet increasingly tough safety standards, Scotch-Brite™ Bristle Discs contain no wire filaments. When replacing chemicals or compounds, they have the added benefit of not emitting harmful chemical vapors.



MORE EFFECTIVE THAN WIRE BRUSHES

Scotch-Brite™ Bristle products contain 3M's patented long-lasting 3M™ Ceramic Abrasive Grain, which provide a fast, more uniform finish. This means that as the disc wears, fresh mineral is always exposed, delivering improved productivity and value.

SCOTCH-BRITE™ BRISTLE DISCS AND BRUSHES

Scotch-Brite™ Radial Bristle Brushes

Ideal for Robotic Deburring to quickly remove burrs and sharp edges in end-of-arm tooling operations

Conformability allows abrasive to stay in contact with complex-shaped parts in robotic processing

Maintains abrasive property throughout the life of the brush

FIND YOUR GRADE AND SIZE

Scotch-Brite™ Radial Bristle Discs

Fast running disc removes paint, stains, adhesives, weld burns and heavy oxides from large areas

Conform to the part and clean without removing base material reducing damage and rework

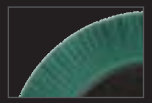
Create an incredibly uniform finish even around protrusions, detail grooves, patterns and other hard to reach areas

Roloc™

FIND YOUR GRADE AND SIZE

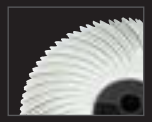
3M™ ROLOC™ SYSTEM

Build Your System



STRAIGHT — TYPE S (TS)
Rigid and very aggressive for cleaning and deburring, non-directional.

ANGLED — TYPE A (TA)
Rigid and very aggressive, similar to Type S but for smaller diameters, directional.



CURVED — TYPE C (TC)
Less aggressive and more conformable, directional.

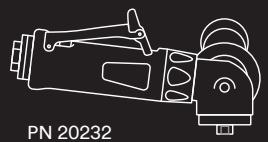
3M™ MANDRELS EXAMPLE

3M™ Mandrel 990
UPC 048011-15012-3

Scotch-Brite™ Radial Bristle Brush
UPC 048011-27605-2

Mandrel Cap

3M™ ROLOC™ SYSTEM EXAMPLE



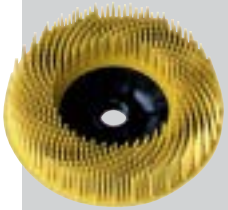
PN 20232

3M™ Sander Adapter
PN 06582

3M™ Roloc™ Disc Pad
PN 45091

Scotch-Brite™ Roloc™ Radial Bristle Disc
UPC 048011-24276-7

SCOTCH-BRITE™ BRISTLE DISCS AND REMOVAL WHEELS



Scotch-Brite™ Bristle Discs

Bristle spacing is ideal for removing paint, stains, adhesives, weld burn, rust and other high-loading substances

Proprietary 3M™ Ceramic Abrasive Grain provides aggressive cut and consistent finish throughout the life of the disc

Flexible bristles require less pressure than wire brushes and conform to contours

Roloc™

FIND YOUR GRADE AND SIZE

3M™ ROLOC™ SYSTEM

Scotch-Brite™ Stripe Off Wheels and Molded Adhesive Removal Discs

Effectively removes unwanted vinyl decals, graphics and striping tapes from metal surfaces

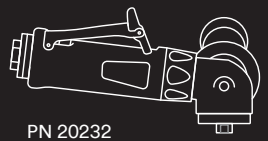
Polyvinyl Chloride (PVC) is durable and stands up to repeated friction for effective removal of unwanted decals

Disc generates heat as it spins, minimizing the need for prep work with heat tools

FIND YOUR GRADE AND SIZE

Build Your System

3M™ ROLOC™ SYSTEM EXAMPLE



PN 20232

3M™ Sander Adapter
PN 06582

3M™ Roloc™ Disc Pad
PN 45091

Scotch-Brite™ Roloc™
Bristle Disc
UPC 048011-24276-7

SCOTCH-BRITE™ NONWOVEN ABRASIVES TRIAL PACKS

FOR MORE INFORMATION DOWNLOAD BROCHURE

Trial Packs help make it easier than ever for your customers to experience the power, performance and convenience of Scotch-Brite™ Nonwoven Abrasives.

	PRODUCT	CONTENTS	SIZE / GRADE	UPC
SINGLE PACKS	Scotch-Brite™ Precision Surface Conditioning Disc TN Quick Change (QC)	1 Disc	4-1/2" Coarse	638060-89343-2
		1 Disc	4-1/2" Medium	638060-89344-9
	Scotch-Brite™ Roloc™+ Clean and Strip XT Pro Extra Cut Disc, TR+	1 Disc	4" x 1/2" A Extra Coarse	638060-29917-3
	Scotch-Brite™ Roloc™+ Clean and Strip XT Pro Disc, TR+	1 Disc	4" x 1/2" S Extra Coarse	638060-29911-1
	Scotch-Brite™ Clean and Strip XT Pro Extra Cut Disc, Type 27 QC	1 Disc	4-1/2" x 5/8–11" A Extra Coarse	638060-29901-2
	Scotch-Brite™ Clean and Strip XT Pro Disc, Type 27 QC	1 Disc	4-1/2" x 5/8–11" S Extra Coarse	638060-29900-5
	Scotch-Brite™ Light Grinding and Blending Disc TN QC	1 Disc	4-1/2" × NH A Coarse	048011-65000-5
		1 Disc	7" × NH Super Duty, A Coarse	076308-77124-9
MULTI PACKS	Scotch-Brite™ Durable Flex Surface Conditioning Belts	3 Belts	1/2" × 18" A CRS	076308-77158-4
		3 Belts	1/2" × 18" A MED	076308-77157-7
		3 Belts	1/2" × 18" A FIN	076308-77154-6
	Scotch-Brite™ Hand Pads 7447 Pro / 7448 Pro	2 Hand Pads (1 Each Grade)	6" x 9" Very Fine, Ultra Fine	048011-64933-7
	Scotch-Brite™ Roloc™ Unitized Wheel Pack 988S	6 Wheels (1 Each Grade)	3" 2A MED, 2S FIN, 6A MED, 6S FIN, 8A MED, 8A CRS	048011-17182-1

	PRODUCT		CONTENTS	SIZE / GRADE	UPC
MULTI PACKS	3M™ Roloc™ Disc, TR	Scotch-Brite™ Roloc™ Precision Surface Conditioning Disc	5 Discs (1 Each Grade)	3" / XCRS, CRS, MED, FIN, VFN	638060-89407-1
	3M™ Roloc™ Disc, TR	Scotch-Brite™ Roloc™ Precision Surface Conditioning Disc	5 Discs (1 Each Grade)	2" / XCRS, CRS, MED, FIN, VFN	638060-89408-8
	3M™ Roloc™ Disc, TR 9815S*	Scotch-Brite™ Roloc™ SC Surface Conditioning Disc	6 Discs (2 Each Grade)	1-1/2" A VFN, A MED, A CRS	051144-82901-9
		Scotch-Brite™ Roloc™ Light Grinding and Blending Disc	4 Discs (2 Each Grade)	1-1/2" SD A CRS, HD A CRS	
		3M™ Cubitron™ II Roloc™ Durable Edge Disc 984F	9 Discs (2 Each Grade)	1-1/2" 36+, 60+, 80+	
	3M™ Roloc™ Disc, TR 982S*	Scotch-Brite™ Roloc™ SC Surface Conditioning Disc	6 Discs (2 Each Grade)	2" A VFN, A MED, A CRS	051144-82899-9
		Scotch-Brite™ Roloc™ Light Grinding and Blending Disc	4 Discs (2 Each Grade)	2" SD A CRS, HD A CRS	
		3M™ Cubitron™ II Roloc™ Durable Edge Disc 984F	6 Discs (3 Each Grade)	2" 36+, 60+, 80+	
	3M™ Roloc™ Disc, TR 983S*	Scotch-Brite™ Roloc™ SC Surface Conditioning Disc	6 Discs (2 Each Grade)	3" A VFN, A MED, A CRS	051144-82900-2
		Scotch-Brite™ Roloc™ Light Grinding and Blending Disc	4 Discs (2 Each Grade)	3" SD A CRS, HD A CRS	
		3M™ Cubitron™ II Roloc™ Durable Edge Disc 984F	9 Discs (3 Each Grade)	3" 36+, 60+, 80+	
	3M™ Roloc™ Disc, TR 984S*	Scotch-Brite™ Roloc™ SC Surface Conditioning Disc	6 Discs (2 Each Grade)	4" A VFN, A MED, A CRS	051141-28039-4
		Scotch-Brite™ Roloc™ Light Grinding and Blending Disc	4 Discs (2 Each Grade)	4" SD A CRS, HD A CRS	
		3M™ Cubitron™ II Roloc™ Durable Edge Disc 984F	9 Discs (3 Each Grade)	4" 36+, 60+, 80+	
	3M™ Roloc™ Disc, TR 985S**	Scotch-Brite™ Roloc™ SC Surface Conditioning Disc	12 Discs (2 Each Grade and Size)	2" and 3" A VFN, A MED, A CRS	048011-18254-4
		Scotch-Brite™ Roloc™ Light Grinding and Blending Disc	8 Discs (2 Each Grade and Size)	2" and 3" SD A CRS, HD A CRS	

*Also includes 1 each 3M™ Roloc™ Disc Pad TR (Hard); 3M™ Roloc™ Shank.
**Also includes 1 each 3M™ Roloc™ Disc Pad 2" and 3"; 3M™ Roloc™ Shank.

TOOLS AND ACCESSORIES

Complete your line up. Scotch-Brite™ Nonwoven Abrasives deliver with the full system — tools, accessories and safety. Increasing your productivity one job at a time.

FOR MORE INFORMATION DOWNLOAD CATALOG: 3M™ Power Tools and Accessories

DISC SANDERS

Page 46

DIE GRINDERS

Page 46

RANDOM ORBITAL SANDER

Page 47

INLINE FINISH SANDER

Page 47

MATCH AND FINISH SANDER

Page 47

FILE BELT SANDER

Page 47

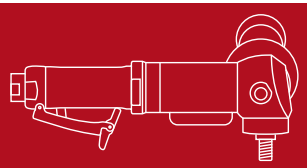
ACCESSORIES

Page 48

3M™ POWER TOOLS

Choosing the right Scotch-Brite™ Nonwoven Abrasives for your surface finishing project is critical — and so is using the right tool. Whether your job calls for an angle grinder or sanding tool, 3M has you covered with the power tools, accessories and service you need.

3M™ DISC SANDER
RIGHT ANGLE SYSTEM

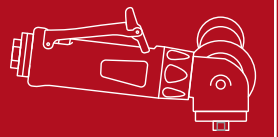


A lightweight, compact design with a high power-to-weight ratio to help you get more work done in less time

Great for grinding, blending, weld leveling, metal prep and other metal fabrication applications

LEARN MORE

3M™ DISC SANDER
3M™ ROLOC™ SYSTEM



Weighs less than 1.5 lbs. for versatility and ease of use in tight spaces

Designed specifically for light duty finishing jobs and intermittent spot repair; great for paint stripping and weld cleanup

LEARN MORE

3M™ DIE GRINDER
RADIAL MOUNTED SYSTEM

Straight shaft die grinder designed to grind in hard to reach areas; collet insert available

Great for heavy stock removal and weld leveling as well as removing rust / debris from internal diameters of small cylinders

LEARN MORE

3M™ POWER TOOLS

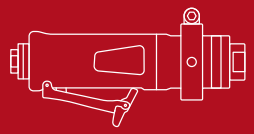
Choosing the right Scotch-Brite™ Nonwoven Abrasives for your surface finishing project is critical — and so is using the right tool. Whether your job calls for an angle grinder or sanding tool, 3M has you covered with the power tools, accessories and service you need.

3M™ RANDOM ORBITAL SANDER

Dual action produces a swirl-free finish, even when sanding against the grain

LEARN MORE

3M™ INLINE FINISH SANDER



Straight shaft sander is easy to control and simplifies finish matching

Generate directional finishes and prepare metals for final finishing, finish to spec, or grind and blend of welds

LEARN MORE

3M™ MATCH AND FINISH SANDER

Generate straight-line scratches for finishing stainless steel and other metals

LEARN MORE

3M™ FILE BELT SANDER

A lightweight hand-held sander enabling the operator to maneuver and manipulate the abrasive belt, turning and rotating up to 360 degrees to blend hard-to-reach areas

LEARN MORE

3M™ ACCESSORIES

Listed below are the accessories highlighted throughout this catalog. CLICK or TAP the icons to link to the product details.

For full list of available accessories and other sizes, please refer to the 3M Tools and Accessories catalog.

Scotch-Brite™ Universal Surface Conditioning Back-up Pad
PN 89869 – 4"
PN 89870 – 4.5"
PN 89871 – 5"

3M™ Disc Pad Face Plate Ribbed
PN 88655 – 4.5"
PN 88656 – 5"
PN 88657 – 7"

3M™ Disc Pad Face Plate

3M™ Disc Pad Hub
PN 45205

3M™ Roloc™ Disc Pad

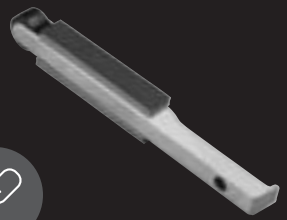
3M™ Sander Adapter
PN 06582

3M™ Hook and Loop Disc Pad Holder

3M™ Hookit™ Low Profile Disc Pad
PN 20352

3M™ Roloc™+ Holder
PN 07500

3M™ File Belt Sander Attachment Arm



3M™ Rubber Slotted Expander Wheel
5" x 3-1/2"
5/8" Arbor Hole

3M™ Wheel Adapter Kit
PN 45038

3M™ Mandrel 990
UPC 048011-15012-3

3M™ Disc Retainer Nut

3M™ Adapter Nut 5/8–11 Thread
PN 88765

SAFETY

3M provides safety solutions that work as hard as you do. From the most basic to the most specialized needs, 3M offers the most effective protection available, so everyone can perform at their best.

LEARN MORE AT:
3M.com/PPESafety

Not a complete list. Please choose the right products for each application and exposure assessment.

3M OFFERS PERSONAL PROTECTIVE EQUIPMENT (PPE) TO HELP KEEP WORKERS SAFE.

3M™ Reusable Respirators

3M provides a full line of reusable respirators to meet the needs of any work environment. Half or full facepiece reusable respirators help protect against both particles and/or gases and vapors.

3M™ Aura™ Particulate Respirators 9300+ Series

Ergonomic, flat-fold, 3-panel design. Valved and unvalved models available. Respirators feature an innovative chin tab for easy adjustments and an embossed, sculpted upper panel to help reduce eyewear fogging.

3M™ Ratchet Headgear H8A, with 3M™ Clear Polycarbonate Faceshield

Provides optical clarity and high-performance durability in unpredictable environments that involve exposure to impact hazards and flying debris.

3M™ SecureFit™ Protective Eyewear

Soft adjustable nose pads and dual injected temples help diffuse pressure over the ear to enhance frame comfort while not compromising the security of fit.

3M™ E-A-R™ Flexible Fit Earplugs

Soft foam tip and flexible fitting stem allows for easy insertion into the ear. Conforms to the ear canal to help block out noise. The cord keeps earplugs readily available and helps keep foam ear tips clean between uses.

⚠ WARNING

These eye and face protection products help provide limited eye and face protection. Misuse or failure to follow warnings and User Instructions may result in serious potential injury, including blindness or death. For proper use, selection and applications against flying particles, optical radiation and / or splash, see supervisor, read User Instructions and warnings on the package, or call 3M PSD Technical Service in the USA at 800-243-4630. In Canada, call Technical Service at 800-267-4114.

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A finish you can see.

A finish unmatched.

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