



**BRINGING NEW SOLUTIONS TO THE SURFACE.**

**SCOTCH-BRITE™ NON-WOVEN ABRASIVES PRODUCT GUIDE**  
Interactive Digital Version



## TABLE OF CONTENTS

# IMPROVE SURFACES WITH EASE.



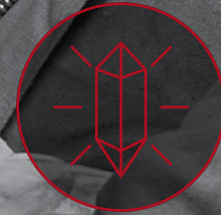
### LASTS LONG, FINISHES STRONG.

Thick non-woven 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™ Non-woven Abrasives are dedicated to uncompromising quality — just like you.

LEARN MORE AT:  
[3M.co.uk/ScotchBriteAbrasives](https://3M.co.uk/ScotchBriteAbrasives)



### Check out this additional content!

**VISIT AND SUBSCRIBE  
TO OUR 3M YOUTUBE  
CHANNEL**

**Check out our  
EVER FORWARD  
video! (48 SEC)**



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!



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Link

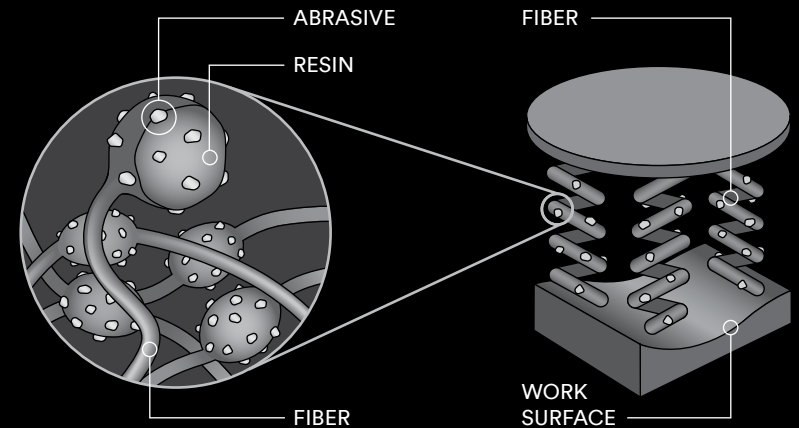
# THE SCIENCE BEHIND HIGH-QUALITY FINISHES.

## SCOTCH-BRITE™ NON-WOVEN WEB TECHNOLOGY

The non-woven 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™ non-woven abrasives, grade is generally used to describe the finish attributes — the coarser the grade, the more aggressive cut and finish.



3D OPEN WEB

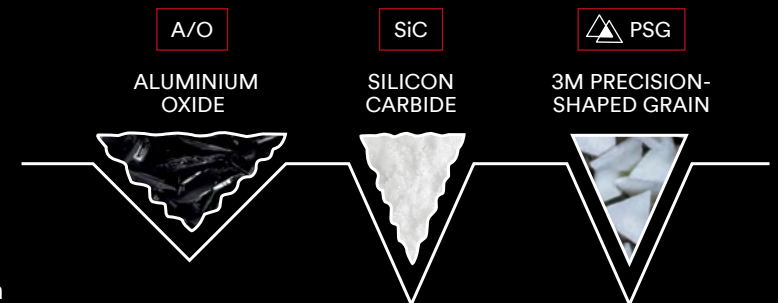
SPRING ACTION

### 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.

**Aluminium 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™ Non-woven 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™ non-woven products will leave a smooth, burr-free surface.

Explore the products that will work for your application: [Page 7](#) ▶

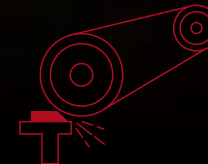
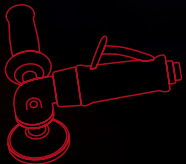
## 4 FINISHING / POLISHING PREP

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

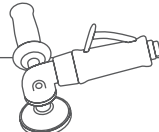
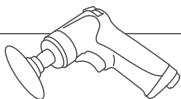
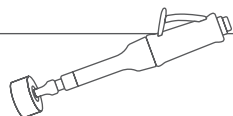
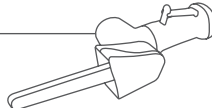

Match with the right tools and accessories to ensure you get the highest performance out of your Scotch-Brite™ Non-woven Abrasives.



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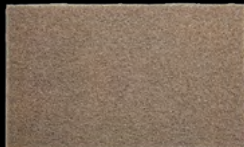
# CLEANING / SURFACE PREP

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

 <p><b>Disc Sander</b> Right Angle System</p>	 <p><b>Disc Sander</b> 3M™ Roloc™ System</p>	 <p><b>Die Grinder</b></p>	 <p><b>File Belt</b></p>	 <p><b>Hand Sanding</b></p>
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## WELD CLEANING / DISCOLOURATION



 <p><b>Scotch-Brite™ Clean and Strip XT Pro Extra Cut Discs</b></p>	 <p><b>Scotch-Brite™ Roloc™ Clean and Strip XT Pro Extra Cut Discs</b></p>	 <p><b>Scotch-Brite™ Roloc™ Clean and Strip XT Pro Extra Cut Discs</b></p>	 <p><b>Scotch-Brite™ Durable Flex Surface Conditioning Belts</b></p>	 <p><b>Scotch-Brite™ Heavy Duty Hand Pad 7440</b></p>
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## PAINT / RUST / SCALE REMOVAL

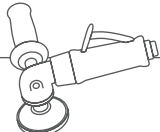
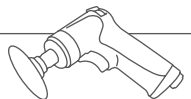
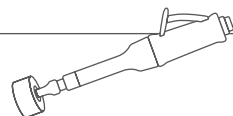
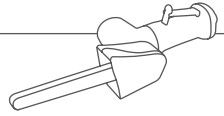
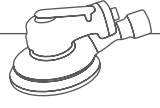



 <p><b>Scotch-Brite™ Clean and Strip XT Pro Discs</b></p>	 <p><b>Scotch-Brite™ Roloc™ Clean and Strip XT Pro Discs</b></p>	 <p><b>Scotch-Brite™ Roloc™ Clean and Strip XT Pro Discs</b></p>	 <p><b>Scotch-Brite™ Durable Flex Surface Conditioning Belts</b></p>	 <p><b>Scotch-Brite™ Heavy Duty Hand Pad 7440</b></p>
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# CLEANING / SURFACE PREP

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

					
<b>Disc Sander</b> Right Angle System	<b>Disc Sander</b> 3M™ Roloc™ System	<b>Die Grinder</b>	<b>File Belt</b>	<b>Random Orbital Sanding</b>	<b>Hand Sanding</b>

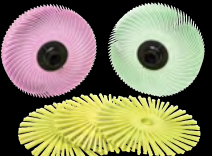
## PAINT / BONDING / SCUFFING PREP (CLEANING SURFACE / REMOVING)




**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**




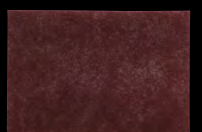
**Scotch-Brite™ Roloc™ Clean and Strip XT Pro Discs**



**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**




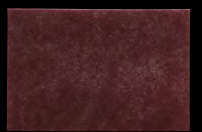
**Scotch-Brite™ Roloc™ Clean and Strip XT Pro Discs**



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



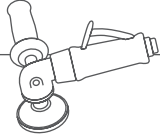
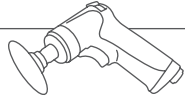
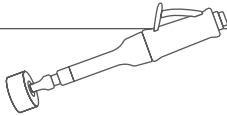
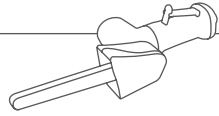
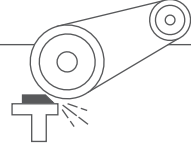

**Scotch-Brite™ Durable Flex Surface Conditioning Belts**

**Scotch-Brite™ Hand Pad 7447**

# DEBURRING

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

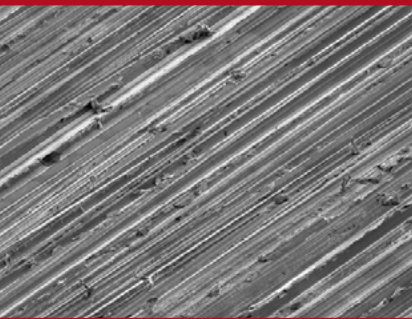
					
<b>Disc Sander</b> Right Angle System	<b>Disc Sander</b> 3M™ Roloc™ System	<b>Die Grinder</b>	<b>File Belt</b>	<b>Belts</b>	<b>Hand Sanding</b>

## MACHINE EDGE RADIUS / EDGE BREAKING



					
<b>Scotch-Brite™ Precision Surface Conditioning Discs</b>	<b>Scotch-Brite™ Roloc™ Deburr and Finish Pro Unitized Wheels 6C MED+</b>	<b>Scotch-Brite™ Deburr and Finish Pro Unitized Wheels 6C MED+</b>	<b>Scotch-Brite™ Durable Flex Surface Conditioning Belts</b>	<b>Scotch-Brite™ SE Surface Conditioning Belts</b>	<b>Scotch-Brite™ Heavy Duty Hand Pad 7440</b>

## MICRO BURR



					
<b>Scotch-Brite™ Precision Surface Conditioning Discs</b>	<b>Scotch-Brite™ Roloc™ Precision Surface Conditioning Discs</b>	<b>Scotch-Brite™ Deburr and Finish Pro Unitized Wheels 2S FIN</b>	<b>Scotch-Brite™ Durable Flex Surface Conditioning Belts</b>	<b>Scotch-Brite™ SC Surface Conditioning Belts</b>	<b>Scotch-Brite™ Hand Pad 7447 Pro</b>

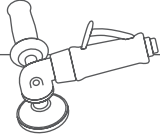
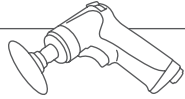
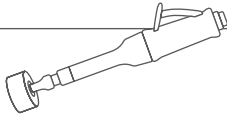
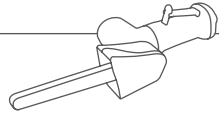
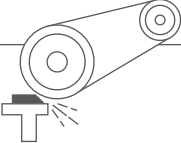
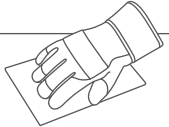
## PIPE THREAD / GEAR DEBURRING / BURR REMOVAL



					
<b>Scotch-Brite™ Deburr and Finish Pro Unitized Wheels 8C CRS+</b>	<b>Scotch-Brite™ Roloc™ Deburr and Finish Pro Unitized Wheels 8C CRS+</b>	<b>Scotch-Brite™ Deburr and Finish Pro Unitized Wheels 6C MED+</b>	<b>Scotch-Brite™ Durable Flex Surface Conditioning Belts</b>		<b>Scotch-Brite™ Heavy Duty Hand Pad 7440</b>






# BLENDING

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

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

## WELD BLENDING



					
<b>Scotch-Brite™</b> Light Grinding and Blending Discs	<b>Scotch-Brite™ Roloc™</b> Light Grinding and Blending Discs	<b>Scotch-Brite™ Deburr</b> and Finish Pro Unitized Wheels 8C CRS+	<b>Scotch-Brite™</b> Durable Flex Surface Conditioning Belts	<b>Scotch-Brite™ SE Surface</b> Conditioning Belts	

## SCRATCH REFINEMENT / PAINT PREPARATION



					
<b>Scotch-Brite™</b> Precision Surface Conditioning Discs	<b>Scotch-Brite™ Roloc™</b> Precision Surface Conditioning Discs	<b>Scotch-Brite™ Deburr</b> and Finish Pro Unitized Wheels 8C CRS+	<b>Scotch-Brite™</b> Durable Flex Surface Conditioning Belts	<b>Scotch-Brite™ SC Surface</b> Conditioning Belts	<b>Scotch-Brite™ Hand Pad</b> 7447 Pro

## PARTING LINE REMOVAL

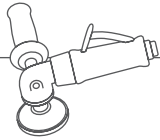
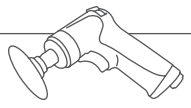
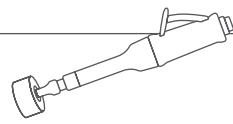
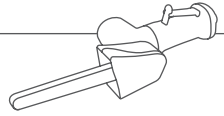
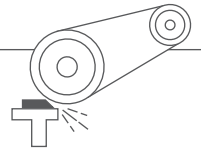



					
<b>Scotch-Brite™</b> Precision Surface Conditioning Discs	<b>Scotch-Brite™ Roloc™</b> Light Grinding and Blending Discs	<b>Scotch-Brite™ Cut and</b> Polish Flap Brushes CPF B-S and CPF B-R+	<b>Scotch-Brite™</b> Durable Flex Surface Conditioning Belts	<b>Scotch-Brite™ SE Surface</b> Conditioning Belts	<b>Scotch-Brite™ Hand Pad</b> 7447 Pro







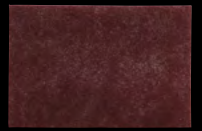
# FINISHING / POLISH PREP

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

 <p><b>Disc Sander</b> Right Angle System</p>	 <p><b>Disc Sander</b> 3M™ Roloc™ System</p>	 <p><b>Die Grinder</b></p>	 <p><b>File Belt</b></p>	 <p><b>Belts</b></p>	 <p><b>Hand Sanding</b></p>
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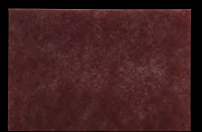
## SETTING THE GRAIN



		 <p><b>Scotch-Brite™ Surface Conditioning Belt SC-BFA CRS</b> 100 mm x 289 mm</p>	 <p><b>Scotch-Brite™ Durable Flex Surface Conditioning Belts</b></p>	 <p><b>Scotch-Brite™ SC Surface Conditioning Belts</b></p>	 <p><b>Scotch-Brite™ Hand Pad 7447</b></p>
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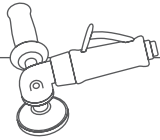
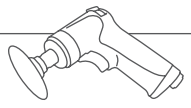
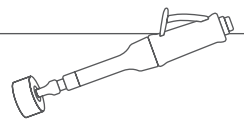
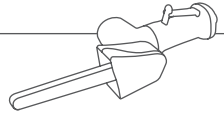
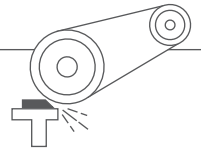

## SURFACE REFINEMENT



 <p><b>Scotch-Brite™ Precision Surface Conditioning Discs</b></p>	 <p><b>Scotch-Brite™ Roloc™ Precision Surface Conditioning Discs</b></p>	 <p><b>Scotch-Brite™ Surface Conditioning A VFN</b> 100 mm x 289 mm</p>	 <p><b>Scotch-Brite™ Durable Flex Surface Conditioning Belts</b></p>	 <p><b>Scotch-Brite™ SC Surface Conditioning Belts</b></p>	 <p><b>Scotch-Brite™ Hand Pad 7447</b></p>
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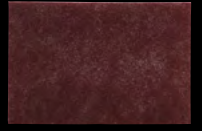
# FINISHING / POLISH PREP

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

 <p><b>Disc Sander</b> Right Angle System</p>	 <p><b>Disc Sander</b> 3M™ Roloc™ System</p>	 <p><b>Die Grinder</b></p>	 <p><b>File Belt</b></p>	 <p><b>Belts</b></p>	 <p><b>Hand Sanding</b></p>
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## AESTHETIC / FLAT PART FINISHING



 <p><b>Scotch-Brite™ SC Surface Conditioning Discs</b></p>	 <p><b>Scotch-Brite™ Roloc™ SC Surface Conditioning Discs</b></p>	 <p><b>Scotch-Brite™ Surface Conditioning Belt SC-BFA CRS</b> 100 mm x 289 mm</p>	 <p><b>Scotch-Brite™ Durable Flex Surface Conditioning Belts</b></p>	 <p><b>Scotch-Brite™ SC Surface Conditioning Belts</b></p>	 <p><b>Scotch-Brite™ Hand Pad 7447</b></p>
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## BUFFING / POLISHING



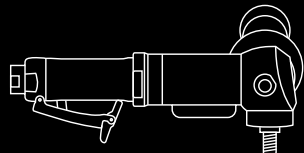
 <p><b>Scotch-Brite™ SC Surface Conditioning Disc</b> A VFN or S UFN</p>	 <p><b>Scotch-Brite™ Roloc™ Deburr and Finish Pro Unitized Wheel</b> 2S FIN</p>	 <p><b>Scotch-Brite™ Deburr and Finish Pro Unitized Wheel</b> 2S FIN</p>	 <p><b>Scotch-Brite™ SC Surface Conditioning File Belt</b> A VFN</p>	 <p><b>Scotch-Brite™ SC Surface Conditioning Belt</b> A VFN</p>	 <p><b>Scotch-Brite™ Hand Pad 7448</b></p>
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# SYSTEM CONFIGURATIONS

Tool + Accessories + Scotch-Brite™ Non-woven 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



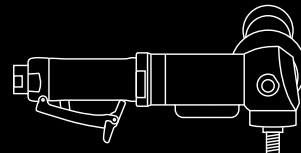
Center Post (Optional)



Scotch-Brite™ Non-woven Abrasive Disc with Hook and Loop



### Hook and Loop



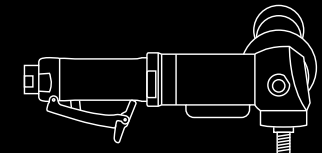
3M™ Hook and Loop Disc Pad Holder



Scotch-Brite™ Non-woven Abrasive Disc with Hook and Loop



### Threaded M14

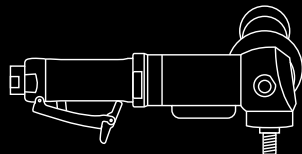


Scotch-Brite™ Non-woven Abrasive Disc with M14 threaded attachment



### M14 and 7/8 Center Hole

#### 1-piece Attachment System



Flap Disc / Grinding Wheel Adapter Nut 5/8–11 Thread



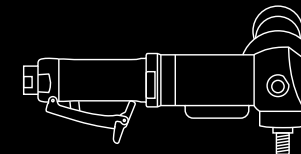
Scotch-Brite™ Non-woven Abrasive Disc Type 27 (7/8 Center Hole)



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™ Non-woven Abrasive Disc with 7/8 Center Hole



3M™ Disc Retainer Nut

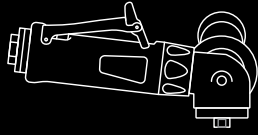



# SYSTEM CONFIGURATIONS


Tool + Accessories + Scotch-Brite™ Non-woven Abrasive = Optimized System

## 3M™ DISC SANDER

### 3M™ Roloc™ System



Sander Adapter 


3M™ Roloc™ Disc Pad 


Scotch-Brite™ Roloc™ Non-woven Abrasive Disc 

## 3M™ DIE GRINDER

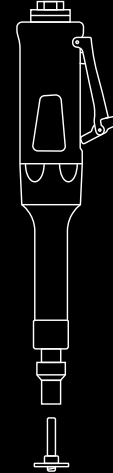
### 3M™ Roloc™+ System





3M™ Roloc™+ Holder 

Scotch-Brite™ Roloc™+ Non-woven Abrasive Disc Wheel or Brush 

### Collet Attachment System

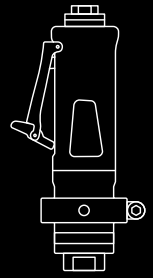


Mandrel 

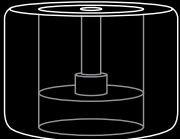
Scotch-Brite™ Non-woven Abrasive Wheel 


Mandrel Cap 

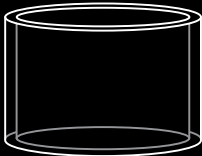
## INLINE SANDER EXAMPLE



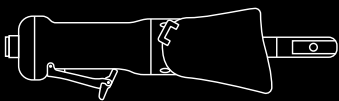
Adapter Kit 


Rubber Slotted Expander Wheel 

Adapter Kit Cap 

Scotch-Brite™ Non-woven Abrasive Belt 

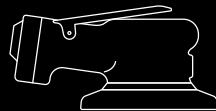
## 3M™ FILE BELT SANDER



Attachment Arm 

Scotch-Brite™ File Belt 

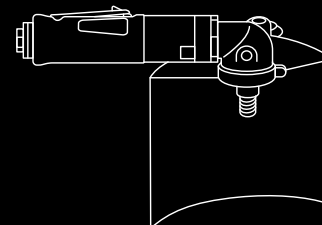
## 3M™ RANDOM ORBITAL SANDER



3M™ Hookit™ Low Profile Disc Pad 

Scotch-Brite™ Hookit™ Disc 

## MATCH AND FINISH SANDER EXAMPLE



Scotch-Brite™ Non-woven 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™ Non-woven 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™  
Non-woven 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



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



Check Max. RPM

SAFE OPERATING



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.

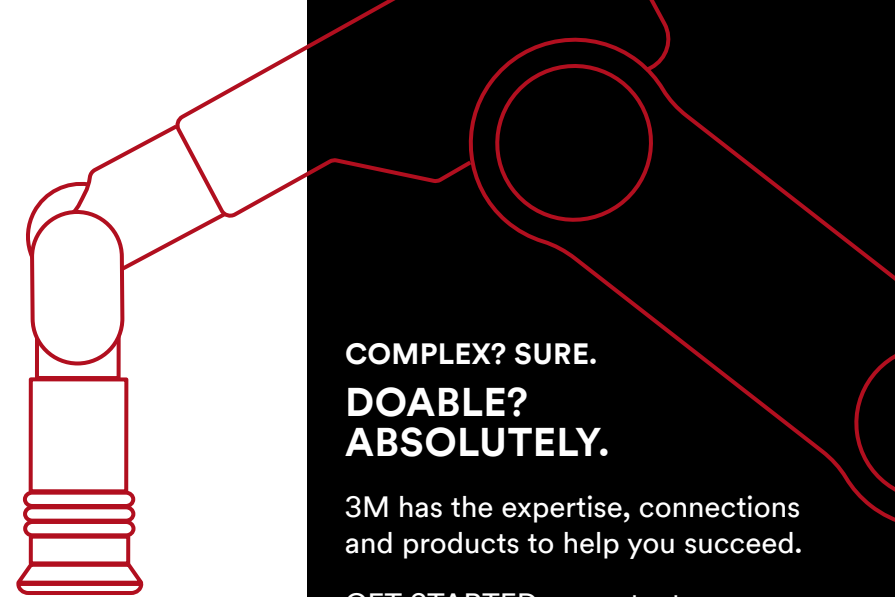
**FOLLOW US INTO THE FUTURE**

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™ Non-woven 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.



**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](http://3M.com/robotics).

### 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
Debur and Finish Pro Unitized Wheels	Surface Conditioning Discs	Surface Conditioning Belts	Clean and Strip Discs	Wide Brushes	Brushes
EXL Unitized Wheels	Surface Conditioning Belts	Metal Finishing Unitized Wheels	Clean and Strip XT Pro Discs	Surface Conditioning Long / Wide Belts	Surface Conditioning Belts
EXL Deburring Convolute Wheels		Multi-Finishing Unitized Wheels	Bristle Discs		
Radial Bristle Brushes and Bristle Discs		Surface Conditioning Flap Brushes			

**Check out this additional content!**

**Automation Toolkit**

**Automation Customer Handbook**

**Automation Abrasives**

**Robotics and Automated Material Removal Handbook**



**LEARN MORE**

**HANDBOOKS**

# NON-WOVEN ABRASIVES

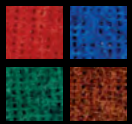
Scotch-Brite™ Non-woven Abrasives allow you to achieve a uniform finish in fewer steps without damaging the base material.

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

## COLOUR CODING

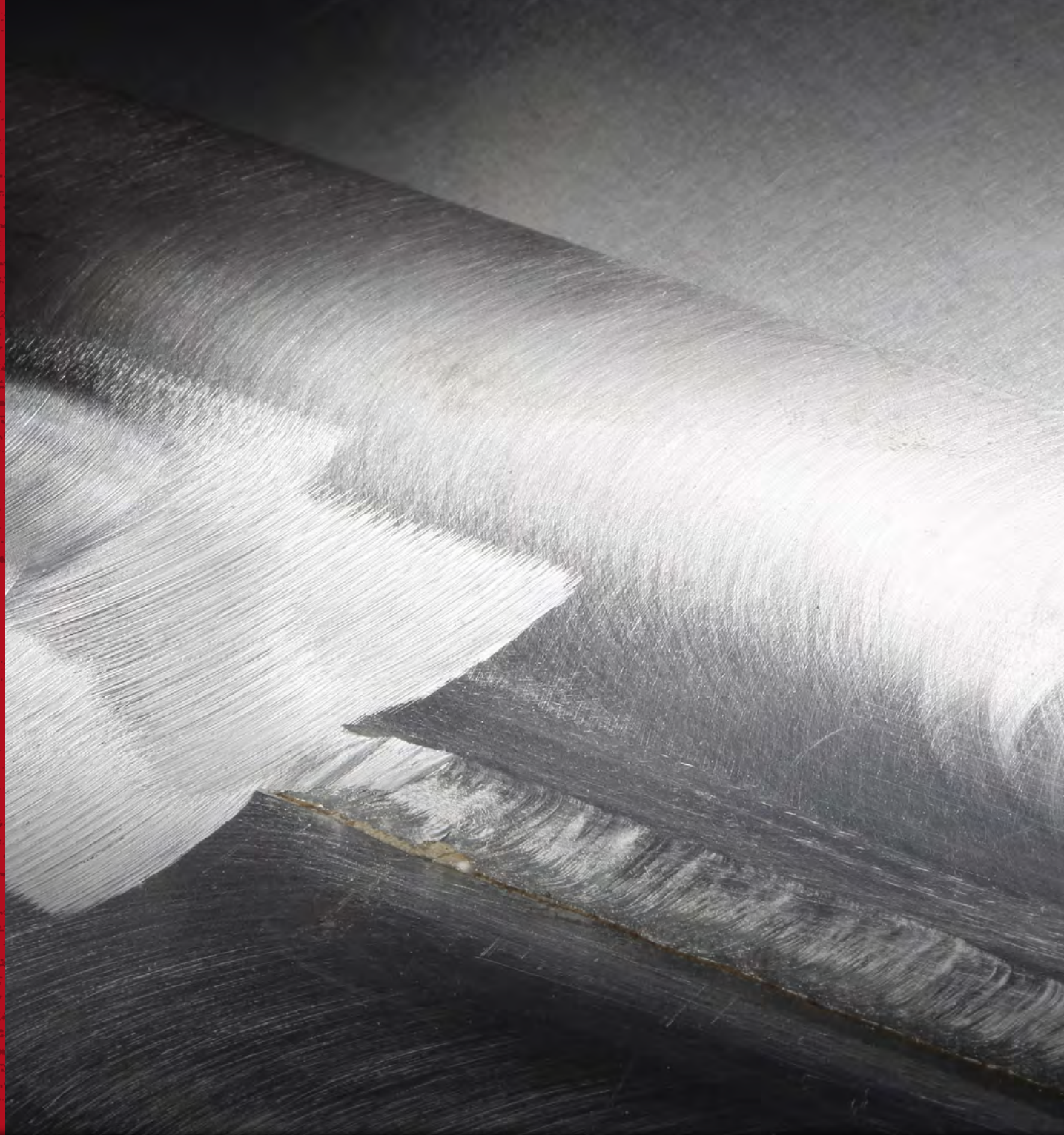
Discs Page 17 ▶

Belts Page 36 ▶



## TRIAL PACKS

Page 44 ▶





# SCOTCH-BRITE™ SURFACE CONDITIONING DISCS

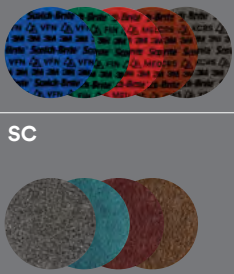



**MAKE TOUGH JOBS EASIER.**

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

## 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		
<b>MULTIPURPOSE</b> 	<b>Precision</b> VFN CRS FIN XCRS MED		✓	✓	✓	✓	✓	✓	✓	* CRS / XCRS * CRS / XCRS	Can vary by grade Stainless Steel Aluminium Mild Steel Titanium Nickel Alloys PSG 3M Precision-Shaped Grain
	<b>SC</b> SFN VFN MED CRS	✓	✓	✓	✓	✓	✓			Stainless Steel Aluminium Mild Steel Titanium Nickel Alloy A/O + SiC Aluminium oxide/Silicon carbide	
<b>HEAVY DUTY</b> 	<b>SE</b> FIN MED CRS					✓	✓	✓	Stainless Steel Aluminium Mild Steel A/O Aluminium oxide		
	<b>Light Grinding and Blending</b> HD-CRS SD-CRS						✓	✓	✓	Stainless Steel Aluminium Mild Steel Titanium Nickel Alloys C Ceramic aluminium oxide blend	



**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

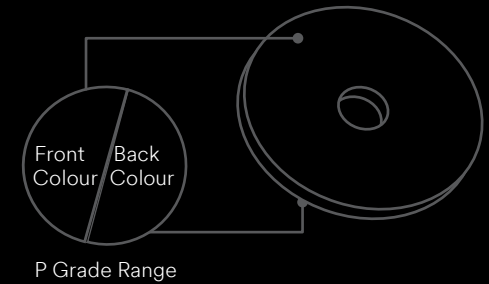
[WATCH VIDEOS](#)

[RESOURCES](#)

# CRACKING THE COLOUR CODE — DISCS

HAVE CONFIDENCE THAT YOU ARE USING THE REAL DEAL.

Recognising the authentic Scotch-Brite™ Brand colours can help you to quickly identify quality non-woven abrasives — and their grades.<sup>1</sup>

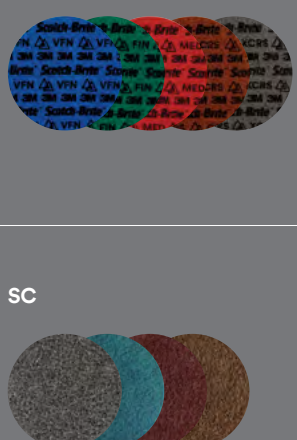







		Scotch-Brite™ Surface Conditioning Discs	SFN Super Fine	VFN Very Fine	FIN Fine	MED Medium	CRS Coarse	HD-CRS Heavy Duty	SD-CRS Super Duty	XCRS Extra Coarse
MULTIPURPOSE	PSG Precision									
	SC									
HEAVY DUTY	SE									
	Light Grinding and Blending									

## P GRADES

1. Scotch-Brite™ non-woven 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

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

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 colours help to identify easier

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



Roloc™



Hook and Loop



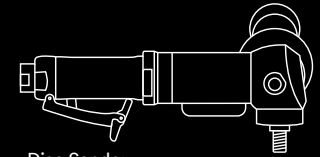
22.23 Center Hole

FIND YOUR GRADE AND SIZE

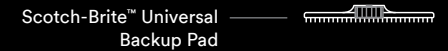
3M™ ROLOC™ SYSTEM

## Build Your System

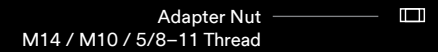
### UNIVERSAL BACKUP PAD EXAMPLE



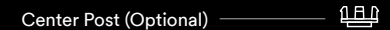
Disc Sander



Scotch-Brite™ Universal Backup Pad



Adapter Nut  
M14 / M10 / 5/8-11 Thread



Center Post (Optional)



Scotch-Brite™ Precision Surface Conditioning Disc

Check out this additional content!

Disc Portfolio

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

WATCH VIDEO (1:20 MIN)

Featuring the Scotch-Brite™ Universal Surface Conditioning Back-up Pad — Designed to optimize the performance of non-woven 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.



Scotch-Brite™ Universal Surface Conditioning Back-up Pad



# SCOTCH-BRITE™ SURFACE CONDITIONING DISCS



## Scotch-Brite™ SC Surface Conditioning Discs

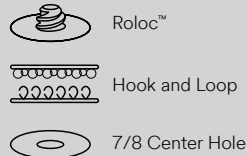
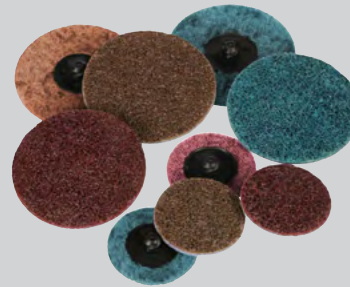
SFN VFN MED CRS

Multipurpose for cleaning, blending, light deburring and finishing

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

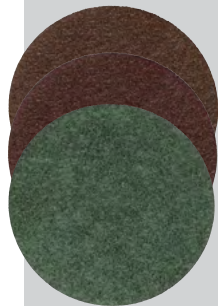
Aluminium oxide / silicon carbide for super fine

Open-web resists loading



FIND YOUR GRADE AND SIZE

3M™ ROLOC™ SYSTEM



## Scotch-Brite™ SE Surface Conditioning Discs

FIN MED CRS

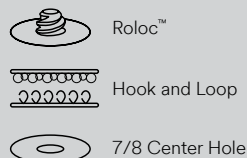
Aggressive disc with long life for heavy duty deburring, finishing and grinding

Appropriate for high to medium pressure applications and edge deburring

Aluminium oxide

Open-web resists loading and runs cool

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

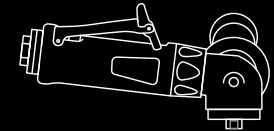


FIND YOUR GRADE AND SIZE

3M™ ROLOC™ SYSTEM

## Build Your System

### 3M™ ROLOC™ EXAMPLE



Sander Adapter



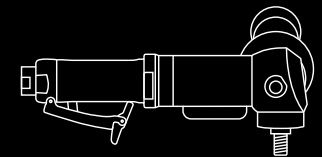
3M™ Roloc™ Disc Pad



Scotch-Brite™ Roloc™ SC Surface Conditioning Disc



### HOOK AND LOOP EXAMPLE



3M™ Hook and Loop Disc Pad Holder



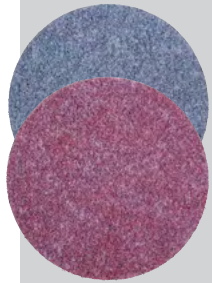
Scotch-Brite™ SE Surface Conditioning Disc



## 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

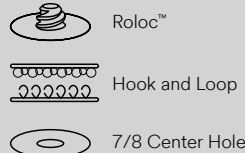
Grinds and blends in one step

3M ceramic aluminium 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!



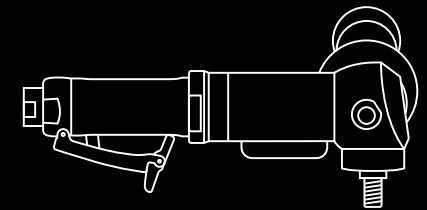
FIND YOUR GRADE AND SIZE

3M™ ROLOC™ SYSTEM

## Build Your System

### M14 AND 7/8" CENTER HOLE EXAMPLE

3-piece Attachment System



3M™ Disc Pad Hub

3M™ Disc Pad Face Plate

Scotch-Brite™ Light Grinding and Blending Disc

3M™ Disc Retainer Nut



Watch our demo video!  
(1:01 MIN)

## 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)

# 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



## 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 aluminium oxide mineral

## BOTH

Rapid coating removal and surface prep

Decreased chunking — extended life

Highly conformable

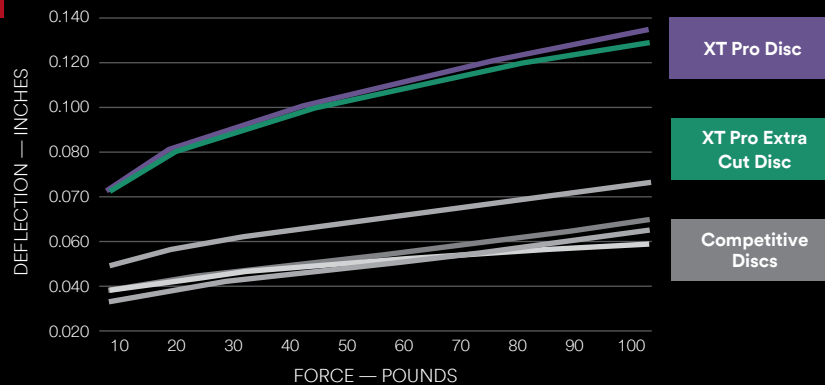
High speed rating

Quick change, spin-on thread

## CONFORMABILITY TEST

### BETTER CONTACT FOR FASTER REMOVAL

Scotch-Brite™ Clean and Strip XT Pro and XT Pro Extra Cut consistently demonstrate higher conformability.



## 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! (1:46 SEC)

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™
-  Hook and Loop
-  7/8 Center Hole

**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

Aluminium oxide mineral cuts to bare metal quickly

Decreased chunking — extended life



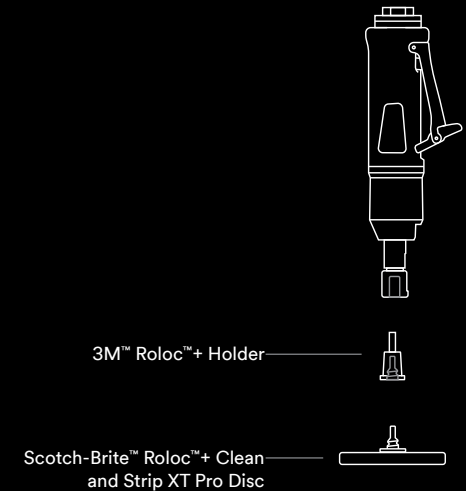
-  Roloc™
-  Hook and Loop
-  7/8 Center Hole

**FIND YOUR GRADE AND SIZE**

**3M™ ROLOC™ SYSTEM**

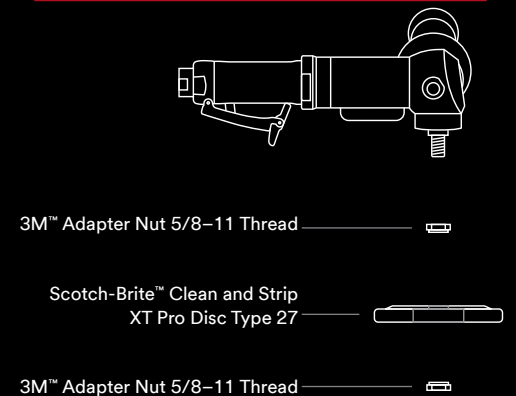
## Build Your System

### 3M™ ROLOC™ + SYSTEM EXAMPLE



### M14 AND 7/8" CENTER HOLE EXAMPLE

1-piece Attachment System

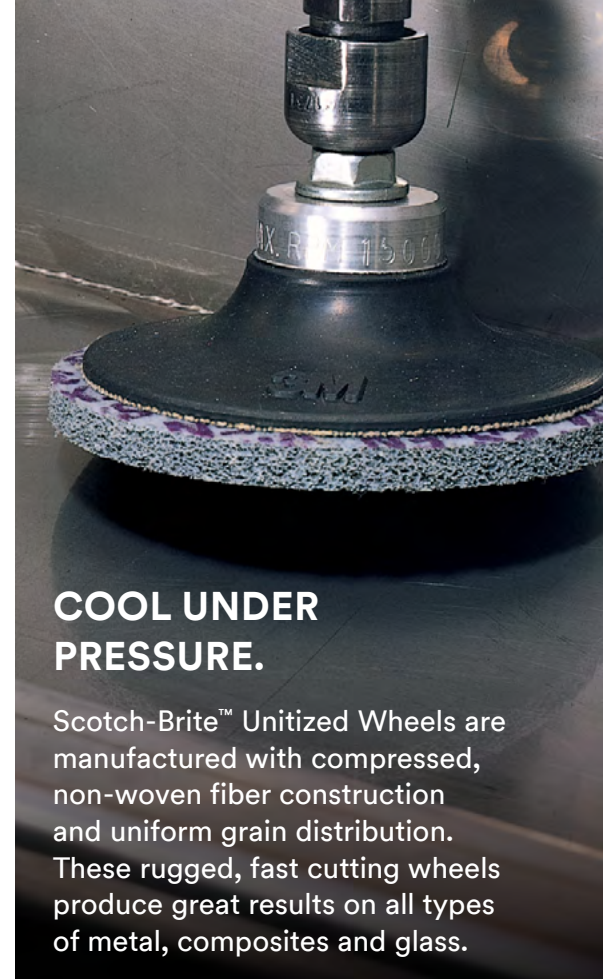
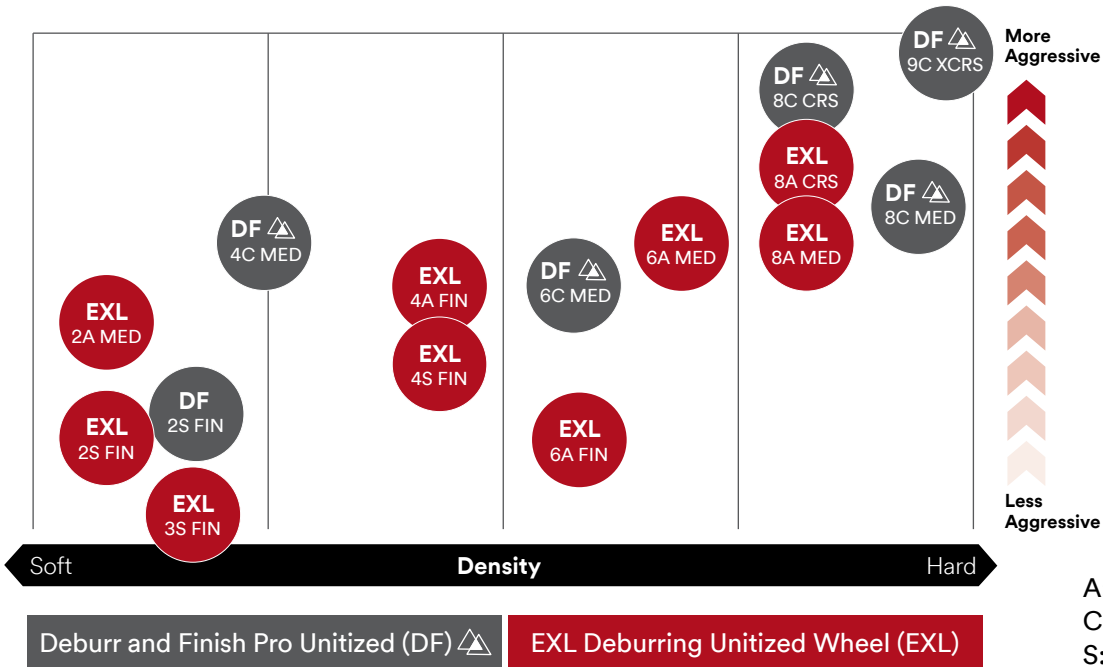




# SCOTCH-BRITE™ UNITIZED WHEELS

## HIGH PERFORMANCE AND DURABILITY.

Scotch-Brite™ Unitized Wheels are stacked, compressed layers of non-woven 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.



## COOL UNDER PRESSURE.

Scotch-Brite™ Unitized Wheels are manufactured with compressed, non-woven 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.

### TECHNOLOGY

## 3M PRECISION-SHAPED GRAIN NON-WOVEN TECHNOLOGY

Scotch-Brite™ Deburr and Finish Pro Unitized Wheels combine 3M Precision-Shaped Grain with our non-woven 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.



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

Non-woven construction minimises loading and change to part geometry

Up to 3X longer wheel life in deburring applications



T27



Center Hole



Roloc™

**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 minimises heat buildup on the work piece

Conformable to complex-shaped parts



Center Hole



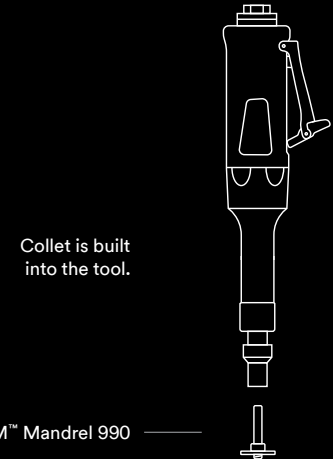
Roloc™

**FIND YOUR GRADE AND SIZE**

**3M™ ROLOC™ SYSTEM**

## Build Your System

### 3M™ COLLET SYSTEM EXAMPLE



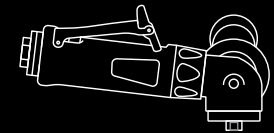
Collet is built into the tool.

3M™ Mandrel 990

Scotch-Brite™ Deburr and Finish Pro Unitized Wheel

Mandrel Cap

### 3M™ ROLOC™ EXAMPLE



Sander Adapter

3M™ Roloc™ Disc Pad

Scotch-Brite™ Roloc™ Deburr and Finish Pro Unitized Wheel

## 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 colours to produce a shiny or polished finish

Aluminium 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)

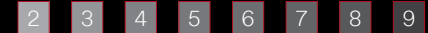


## Scotch-Brite™ Unitized Wheels Classification

### FAMILY



### DENSITY



### MINERAL

- A/O** ALUMINIUM OXIDE
- SiC** SILICON CARBIDE
- C** CERAMIC ALUMINIUM OXIDE

### GRADE

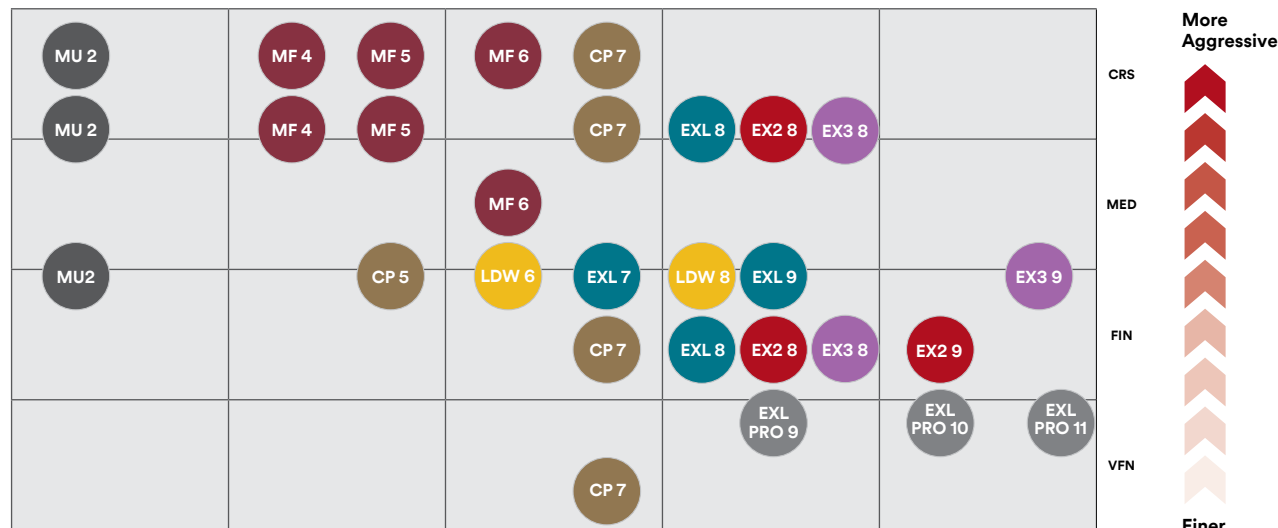
- VFN** VERY FINE
- FIN** FINE
- MED** MEDIUM
- MED+** MEDIUM PLUS
- CRS** COARSE
- CRS+** COARSE PLUS
- XCS** EXTRA COARSE

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.



## 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 non-woven technology — a conformable nylon web with incorporated abrasive grain developed by 3M engineers.

Check out this additional content!

LEARN MORE

Soft Density Hard

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	SMPS
Finishing	2.54 - 15.24
Composites / Soft Materials	6.1 - 13.72
Deburring	25.4 - 38.1
Blending / Polishing	30.4 - 40.64

SMPS = Surface Meter Per Second

MAXIMUM OPERATING SPEEDS	
Diameter	RPM
101.4 mm	9,000
152.4 mm	6,000
203.2 mm	4,500
254 mm	3,600
304.8 mm	3,000
355.6 mm	2,550
406.4 mm	2,250
457.2 mm	2,000
508 mm	1,800
609.6 mm	1,500

# SCOTCH-BRITE™ CONVOLUTE WHEELS — DEBURRING



## Scotch-Brite™ EXL Pro Deburbing 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 Deburbing 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 minimises heat buildup on the work piece



[FIND YOUR GRADE AND SIZE](#)

Scotch-Brite™ Convolute Deburbing 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



### HARDNESS



#### 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	101.6 mm - 609.6 mm	12.7 mm - 914.4 mm



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	101.6 mm - 609.6 mm	12.7 mm - 914.4 mm



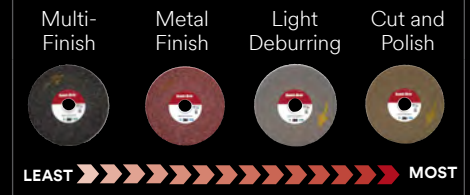
FIND YOUR GRADE AND SIZE

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.

### AGGRESSIVENESS



### HARDNESS



### FINISH



# 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	101.6 mm - 609.6 mm	12.7 mm - 914.4 mm



**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	101.6 mm - 609.6 mm	12.7 mm - 914.4 mm



**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

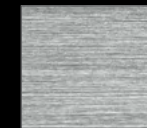
## 3M PRESENTS THE “FINISHING FOUR.”

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



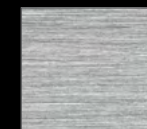
### METAL FINISHING WHEELS

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
S ULF	S ULF	S ULF	S ULF	A VFN	A VFN	A VFN	A VFN	S MED	A MED

S = Silicon Carbide

A = Aluminium Oxide

ULF = Ultra Fine

VFN = Very Fine

MED = Medium

## 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.

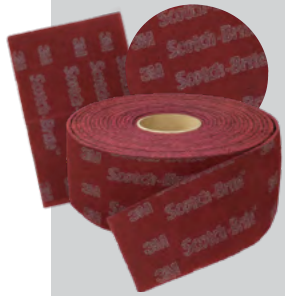
Check out this additional content!

LEARN MORE

WATCH VIDEO (2:30 MIN)



# SCOTCH-BRITE™ HAND PADS AND FLATSTOCK



## Scotch-Brite™ Hand Pads 7447 Pro

Very fine grade aluminium 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 non-woven nylon web is flexible enough to get into hard-to-sand places; Specially coated to minimise 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**



## 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 non-woven abrasive products

Long lasting pad is specially coated to minimise loading

Pad conforms to irregular surfaces and gets into corners without losing performance

Performs like steel wool grade 00 without shredding, rusting, or splintering



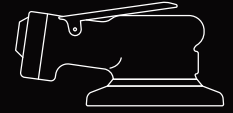
**FIND YOUR GRADE AND SIZE**

**ROLLS AVAILABLE**

## Build Your System

### RANDOM ORBITAL SANDER EXAMPLE

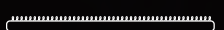
3M™ Hookit™ System



3M™ Hookit™ Low Profile Disc Pad



Scotch-Brite™ Hookit™ 7447 Pro Disc



**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 aluminium 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 colour 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 colour coat, general scuffing, cleaning and hand blending

Silicon Carbide Ultra Fine (S ULF) performs like steel wool grade 00; Aluminium 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							
		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*	✓	✓		✓	✓	✓
	SCRIM	✓	✓				
Scotch-Brite™ SE Surface Conditioning Belt	LOW STRETCH*				✓	✓	✓
	FILM BACKED			✓			
	SCRIM						

\*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



RECOMMENDED OPERATING SPEEDS	
Application	SMPS
Decorative Finishing	2.54 - 15.24
Deburring	25.4 - 33
Cleaning and Conditioning	10.16 - 25.4
Oxide Removal	22.86 - 33
Maximum Operating Speed: 33 SMPS SMPS = Surface Meter Per Second	

## 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 non-woven material combined with abrasive grain is an ideal way to add a great finish or remove burrs without gouging or undercutting the work piece.

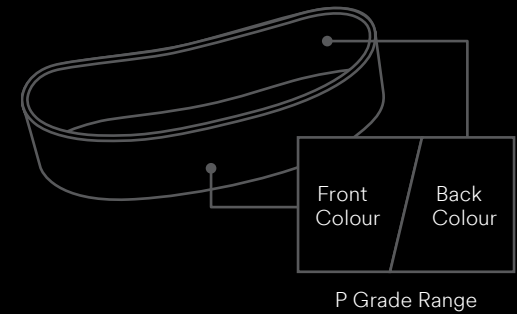
Check out this additional content!


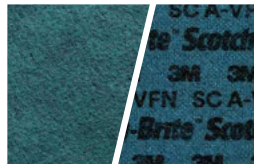

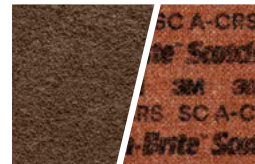
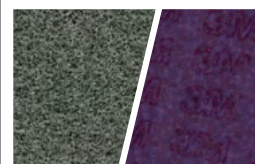
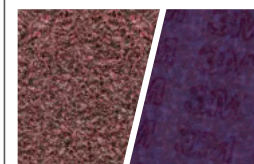

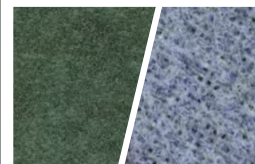
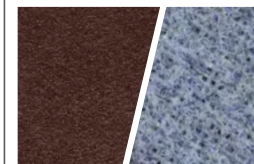
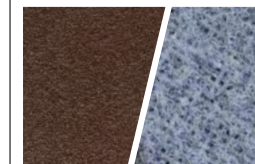
LEARN MORE

# CRACKING THE COLOUR CODE — BELTS

HAVE CONFIDENCE THAT YOU ARE USING THE REAL DEAL.

Recognising the authentic Scotch-Brite™ Brand colours can help you to quickly identify quality non-woven abrasives — and their grades.<sup>1</sup>



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

## P GRADES

1. Scotch-Brite™ non-woven 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 non-woven 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!

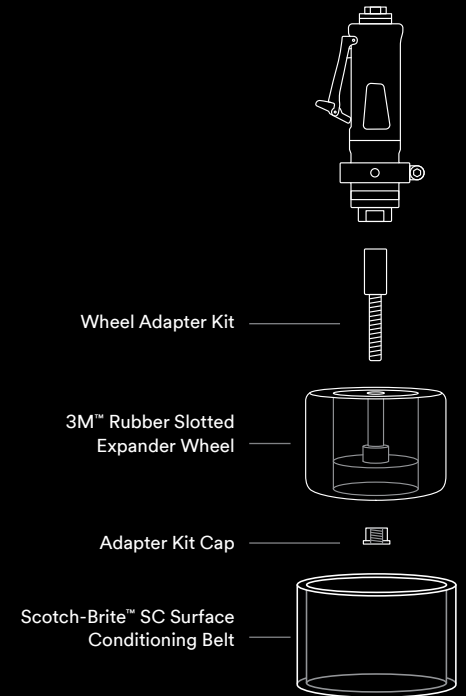
FIND YOUR GRADE AND SIZE

## TECH TIP

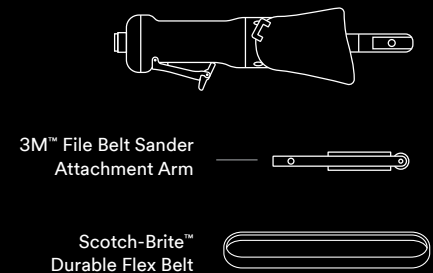
Is your belt wearing out too fast?  
Try the Scotch-Brite™ SE Surface Conditioning Belt.

## Build Your System

### INLINE SANDER EXAMPLE



### 3M™ FILE BELT EXAMPLE



# SCOTCH-BRITE™ SURFACE CONDITIONING BELTS



## Scotch-Brite™ SE Surface Conditioning Belts

Coarse grade aluminium oxide, tough, aggressive non-woven 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

LOW STRETCH

FIND YOUR GRADE AND SIZE

ADDITIONAL BACKING OPTION

## SCOTCH-BRITE™ SURFACE CONDITIONING BELTS PERFORMANCE COMPARISON

Resistant to Dulling and Loading



SC

DURABILITY



DF



SE

Resistant to Wear and Sharp Edges

Least



SE

FLEXIBILITY



SC



DF

Most

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.

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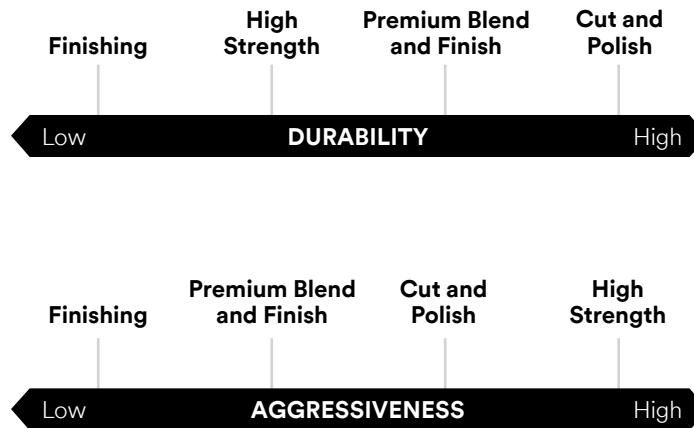
- 2 CUT AND POLISH**  
 Cleaning and finishing applications that require a more aggressive brush or a brighter finish.

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

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



RECOMMENDED OPERATING SPEEDS	
Application	SMPS
Decorative Finishing*	2.54 - 15.24
Composites / Soft Materials	6.0 - 13.71
Cleaning and Conditioning	10.16 - 25.4
Prepolishing	10.16 - 35.56
Oxide Removal	22.86 - 33.0
Deburring	25.4 - 33.0
Wood Sanding	2.54 - 12.7

SMPS = Surface Meter Per Second

\*Finishing Flap Brushes should not be run over 17.78 SMPS

FLAP BRUSHES	
Core	Spindle Mount, Fiberglass (varies on diameter)
Size	19 mm - 1200 mm
Tool / Machine	Match and Finish Sander, Backstand, Die Grinder, Bench Motor



## 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.

### 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.



# SCOTCH-BRITE™ FLAP BRUSHES



## Scotch-Brite™ Finishing Flap Brush

Soft density and medium / fine / very fine abrasive grades produce brushed surfaces without compounds

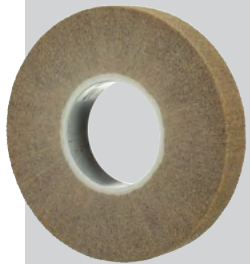
Provides more surface contact than bristle-type brushes

Continuously supplies fresh abrasives for consistent, uniform finishes

Non-woven 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

Deburs stamped or laser-cut parts

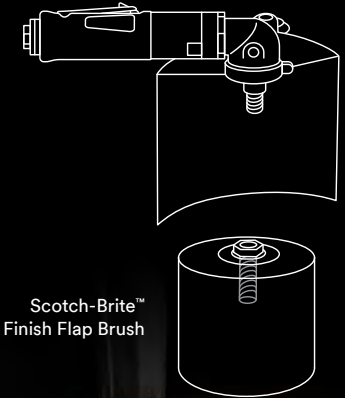
Conforms well on irregular / contoured surfaces without undercutting or damaging base material



**FIND YOUR GRADE AND SIZE**

## Build Your System

### MATCH AND FINISH SANDER EXAMPLE



Scotch-Brite™  
Match and Finish Flap Brush



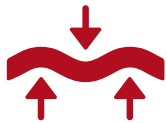
# SCOTCH-BRITE™ SURFACE CONDITIONING MOLDED ABRASIVES

## 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.



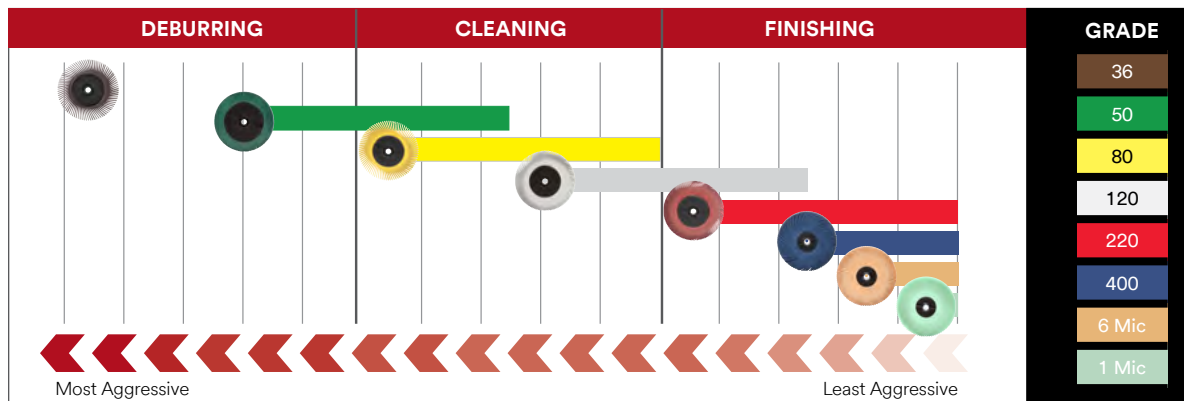
### Conformability and more surface contact

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

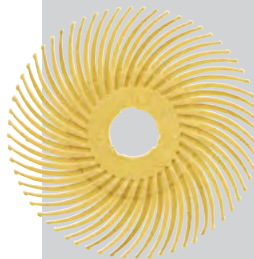
Ideal for Robotic Deburring to quickly remove burrs and sharp edges in end-of-arm tooling operations

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**

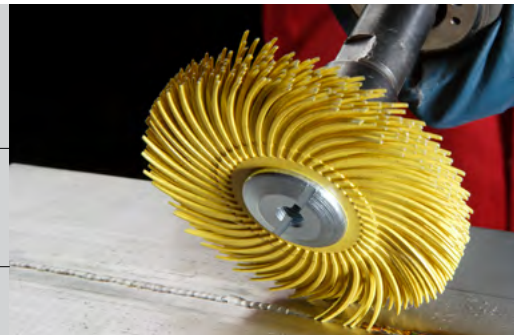


## Scotch-Brite™ Radial Bristle Discs

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



**3M™ ROLOC™ SYSTEM**

**FIND YOUR GRADE AND SIZE**

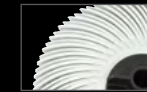
## Build Your System



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

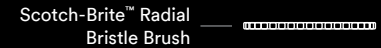
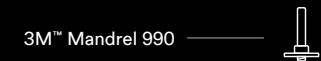


**ANGLED — TYPE A (TA)**  
Rigid and very aggressive, similar to Type S but for smaller diameters, directional.

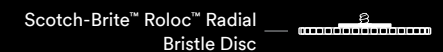
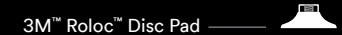
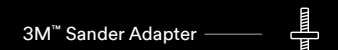
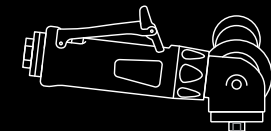


**CURVED — TYPE C (TC)**  
Less aggressive and more conformable, directional.

### 3M™ MANDRELS EXAMPLE



### 3M™ ROLOC™ SYSTEM EXAMPLE



# 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



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

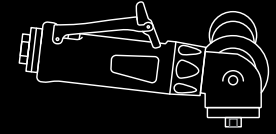
Disc generates heat as it spins, minimising the need for prep work with heat tools



FIND YOUR GRADE AND SIZE

## Build Your System

### 3M™ ROLOC™ SYSTEM EXAMPLE



3M™ Sander Adapter



3M™ Roloc™ Disc Pad

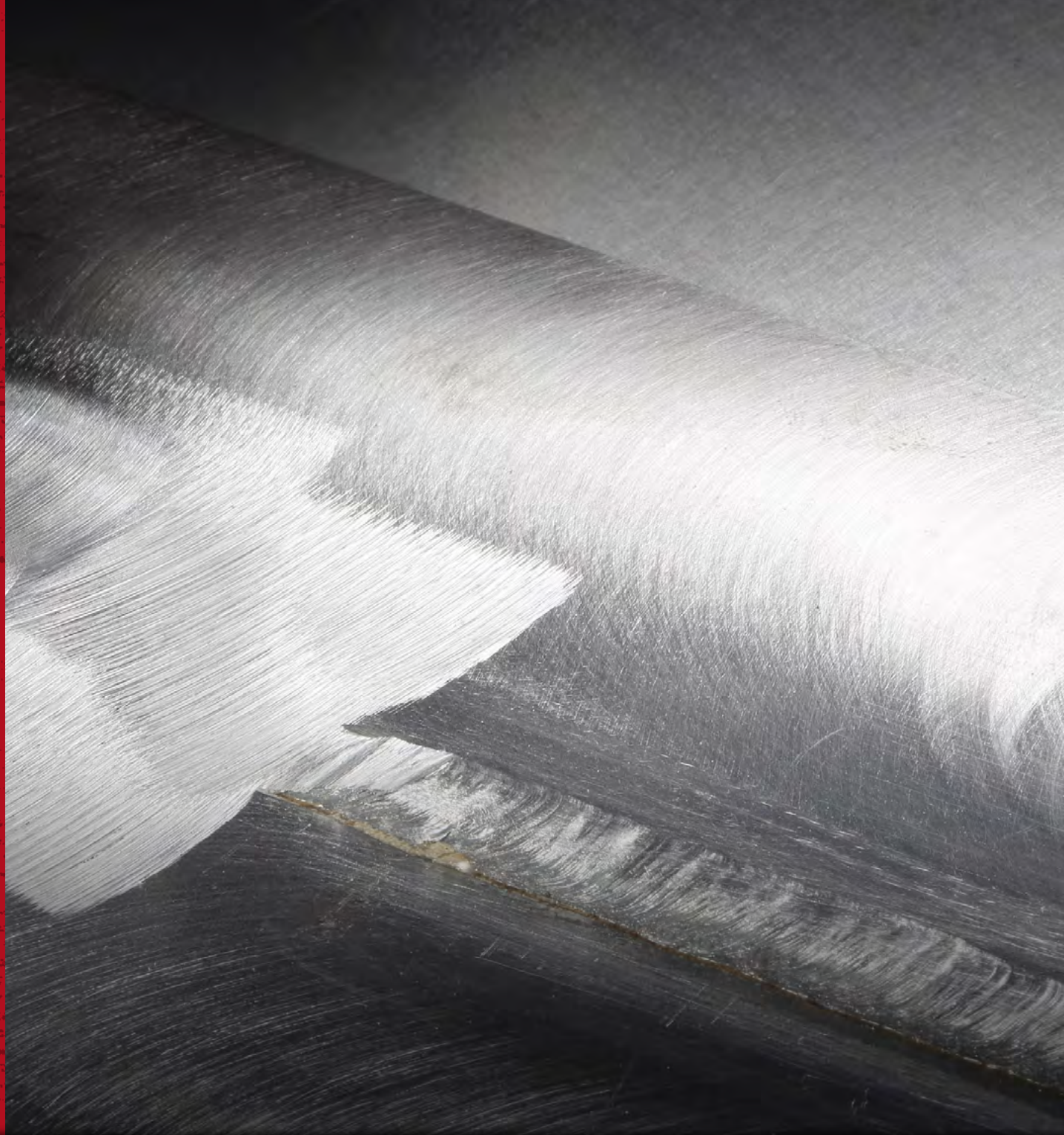


Scotch-Brite™ Roloc™ Bristle Disc



# TOOLS AND ACCESSORIES

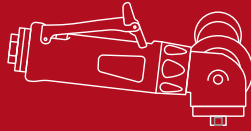
Complete your line up.  
Scotch-Brite™ Non-woven  
Abrasives deliver with  
the full system — tools,  
accessories and safety.  
Increasing your productivity  
one job at a time.



# 3M™ POWER TOOLS

Choosing the right Scotch-Brite™ Non-woven 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 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

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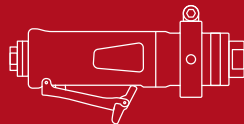
## 3M™ RANDOM ORBITAL SANDER



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

[LEARN MORE](#)

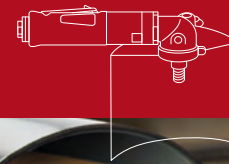
## INLINE FINISH SANDER EXAMPLE



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

## MATCH AND FINISH SANDER EXAMPLE



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

## 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

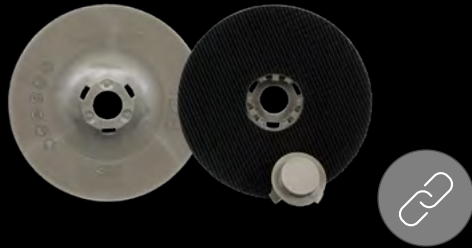
[LEARN MORE](#)

# 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



3M™ Flat Fibre Disc Back-up Pad semi-flexible



3M™ Roloc™ Disc Pad M14



3M™ Roloc™ Disc Pad



3M™ Sander Adapter



3M™ Hook and Loop Disc Pad Holder M14



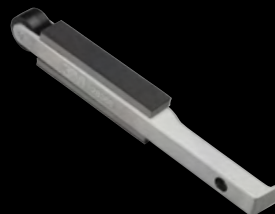
3M™ Hookit™ Low Profile Disc Pad



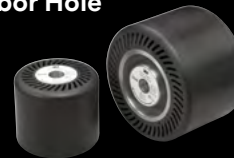
3M™ Roloc™+ Holder



3M™ File Belt Sander Attachment Arm



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



3M™ Wheel Adapter Kit



3M™ Mandrel 990





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

## 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.co.uk/safety](https://3m.co.uk/safety)

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

### Head and face protection



3M™ Headgear combination, G500V5F11H51-GU (includes hearing protection)



3M™ Versaflo™ Faceshield with Flame Resistant Poly Face Seal M-207 with 3M™ Adflo™ Powered Air Respirator



### Eye protection



3M™ SecureFit™ 400X Series Safety Glasses



3M™ SecureFit™ 3700 Series Overspectacles



3M™ Goggle Gear 500 Series Goggle

### Respiratory protection



3M™ Aura™ Particulate Respirators 9300+Gen 3 Series



3M™ SecureClick™ Half Mask Reusable Respirator HF-800 Series



3M™ Adflo™ Powered Air Respirator

### Hearing protection



3M™ E-A-R™ Flexible Fit Earplug HA 328-1000



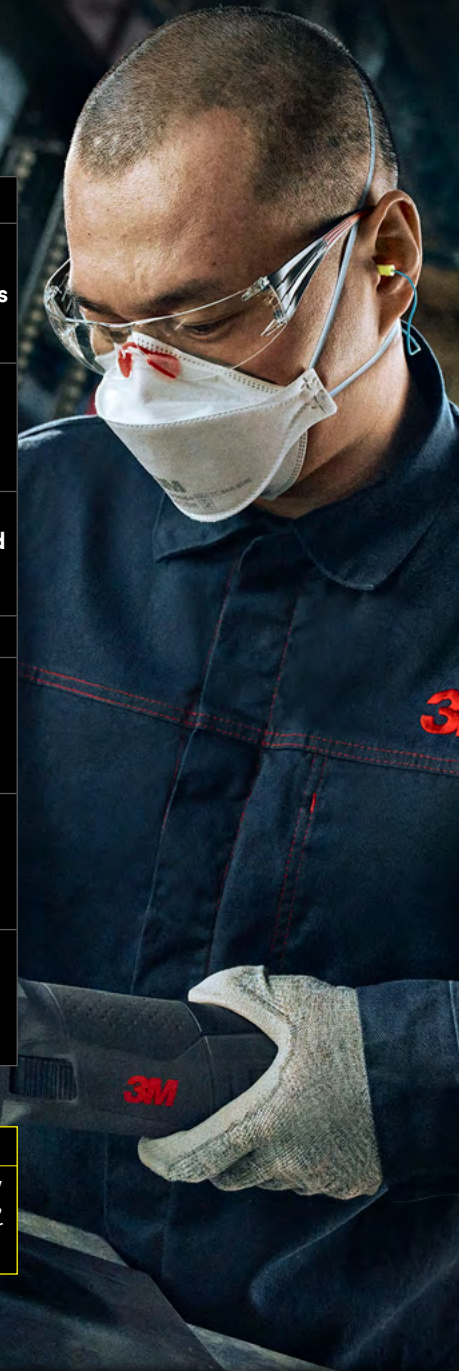
3M™ PELTOR™ Electronic Earplug EEP-100



3M™ PELTOR™ Earmuff X4

### ⚠ 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 visit 3M website: [3M.co.uk/safety](https://3m.co.uk/safety)



# ABRASIVE SOLUTIONS BY 3M. EVER FORWARD.

A finish you can feel.



A finish you can see.



A finish unmatched.



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**Product Selection and Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

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SCOTCH-BRITE™ PROVIDES AN EXPERIENCE YOU CAN RECOGNISE,  
FEEL AND TRUST — CONSISTENTLY DELIVERING THE CUT AND FINISH  
EVERYONE DESERVES TO **GET THE JOB DONE RIGHT.**

LEARN MORE AT:  
[3M.co.uk/scotchbriteabrasives](https://3M.co.uk/scotchbriteabrasives)



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