3M Science. Applied to Life.™



Winning Abrasive Combinations

Stainless Steel

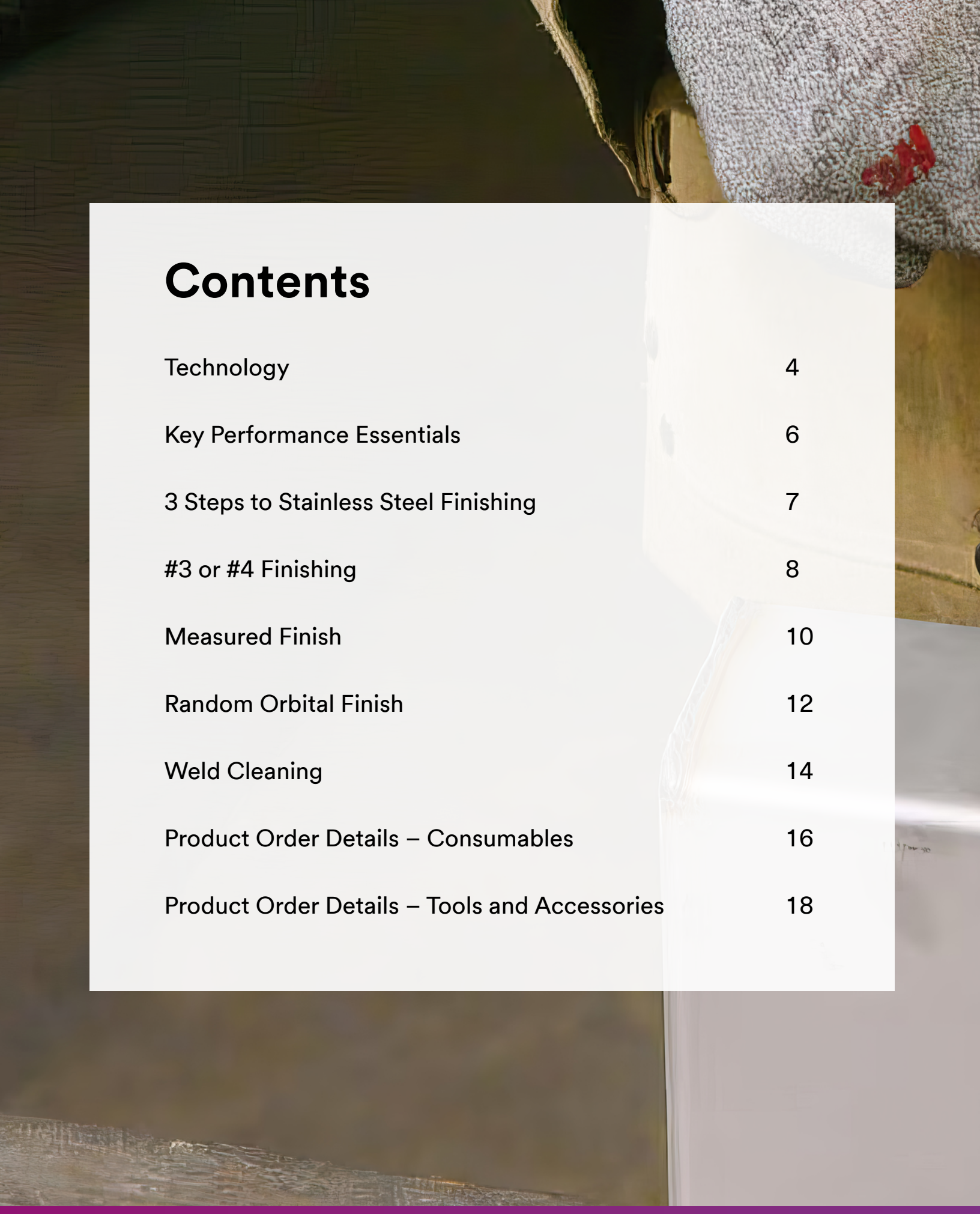


The combination of 3M's trusted abrasive brands delivers a powerful solution for stainless steel, reducing steps and optimizing your finishing process for better outcomes.

3M | Cubitron™ Performance Abrasives

3M | Trizact™

Scotch-Brite™

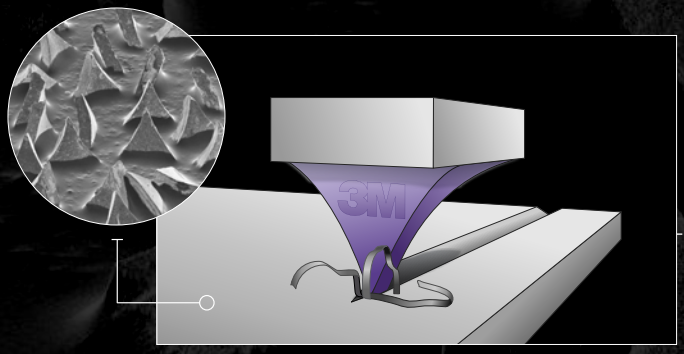


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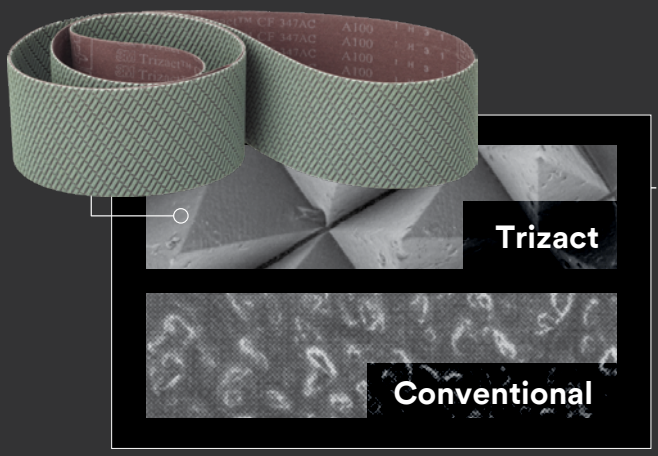
Technology that transforms how work gets done



3M | Cubitron™ 3
Performance Abrasives

Re-engineered precision-shaped ceramic grain using a proprietary breakthrough in grain shape with curved sides.





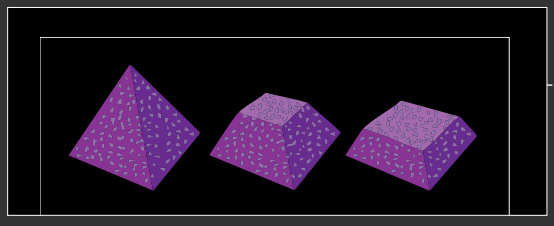
3M | Trizact™

The Difference is in the Construction

Trizact abrasives allow you to say “goodbye” to erratic, inconsistent finishes generated by conventional coated abrasives. Here’s why:

Three-dimensional structures uniformly distributed over the entire surface of 3M™ Trizact™ Abrasives (top) ensure consistent performance and eliminate belt-to-belt variation. Conventional abrasives (bottom), which feature randomly arranged minerals, wear and finish unevenly.

Conventional abrasives start out sharp, but they dull quickly.



3M™ Trizact™ Abrasives have three-dimensional structures

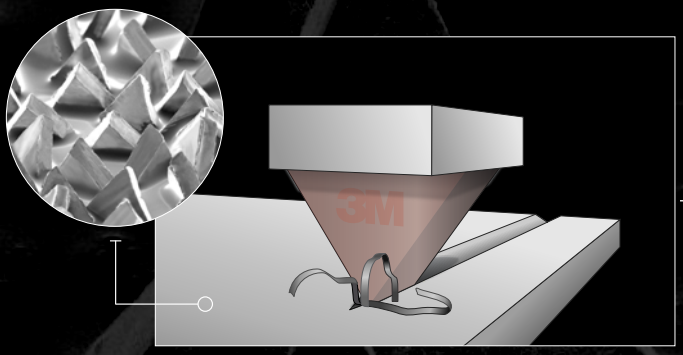
containing multiple layers of abrasive mineral. As these pyramid-like structures wear, fresh, sharp mineral is exposed.

See how our proprietary technology breakthroughs can lead to exceptional performance gains

– helping to make stainless steel processing more productive and designed to create a safer working environment for operators.

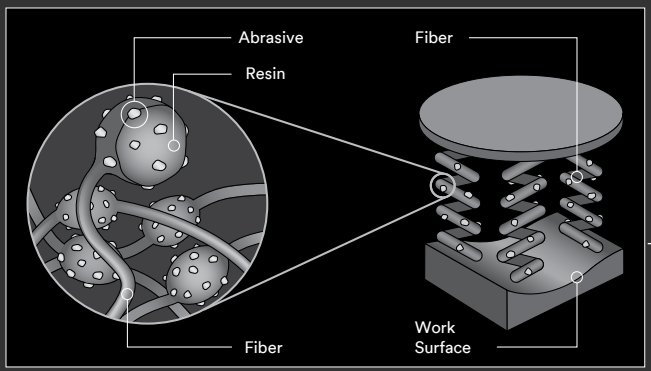
In this guide, we show how combining these technologies into sequential process steps can take process transformation to another level!





3M | Cubitron™ 2
Performance Abrasives

3M pioneered the first precision-shaped grain using micro-replication technology to form consistent sharp peaks that "slice" – cooler cut, longer life and fast!



Scotch-Brite™

With
Precision-Shaped Grain

3M™ Precision-Shaped Grain and nonwoven abrasives combine the benefits of two 3M technologies. A transformation in speed and life without sacrificing the smooth finish expected from Scotch-Brite™ products.



Scotch-Brite™ Precision Surface Conditioning Disc

Key Performance Essentials

Processing stainless steel is usually demanding and needs to meet the high finish requirement demanded by industry. It requires more precision and more processing steps to get to the right finish compared to mild steel. Working with high-quality abrasives can deliver results quicker and easier, minimizing failures and costs to the business.

Processing stainless steel is usually demanding and needs to meet the high requirements of the customers

Compared to mild steel it is a more expensive substrate and requires more precision and more processing steps to get to the right finish.

Also, each failure is more expensive, so working with high-quality abrasives can deliver results quicker and easier, minimizing failures and costs to the business.

Quality finish

+ Consistent, predictable and high-quality finish
+ Minimized risk of heat damage – can lead to cracks and pitting that can cause corrosion

Productivity

+ Repeatable manufacturing process
+ Fewer consumables used

Time

+ Less time spent on each step
+ Less time to get the desired result

Dealing with heat related risks

Clean weld discoloration

If weld is not removed, the radial bristle brush cleans away the weld discoloration for a brighter and cleaner finish

+ Outstanding cleaning speed
+ No risk of damaging the part
+ Safe to use, no flying wires or chemical vapors

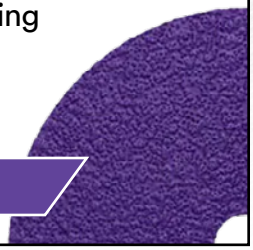


Scotch-Brite™ Precision Radial Bristle Brush

Reduce heat impact when grinding

Avoid excessive heat imparted to the substrate by minimizing processing time

+ 166% faster sustained cut rate1
+ Grinding aid for cooler cutting



Cubitron™ 3 Fibre Disc 1187 80+

[1]Sustained Cut Rate: 80+ Stainless Steel: The 'sustained cut rate' claim is determined from averaging the cut/cycle from cycles 5-24 (20 cycles total, which is approximately 4 minutes of grinding) Units for stainless steel will be (Grams/cycle)

3 Steps to Stainless Steel Finishing

Processing may involve weld removal and finishing steps to achieve final finish required or match surface finish to the original pattern. With our dedicated solutions you can build your Winning Combination that help you get to required finish in just 3 steps!

Finish it Faster.

with winning combinations from 3M.

Whenever weld removal is involved, our solutions will help you get excellent finish base in just 2 steps. Save time by reducing weld grinding time and steps to refine, always with best finish results!

STEP 1

Weld Leveling

+ Fastest solutions for weld grinding
+ Leave fine grind lines, quick to refine

STEP 2

Refine/Set Grain

+ Smooth finish helping reduce steps
+ Consistency and quality results in less steps

Just two steps to get to fine finish base. Dedicated solutions combining best speed with fine finish results. Both in disc and belt forms.

Superior Finish.

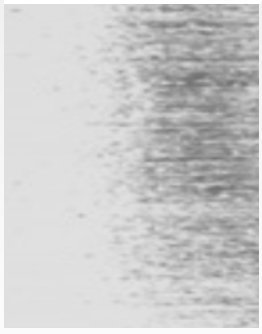
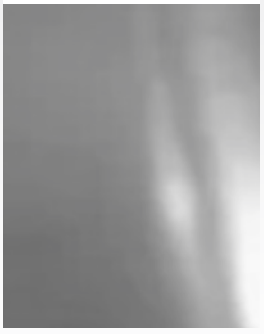
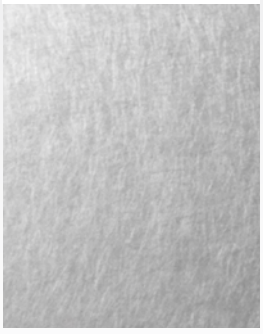
With no compromise.

The final stage demands a flawless finish with minimal steps and part-to-part consistency. Our unique solutions ensure a superior, fast finish, every time. Built for best and predictable results.

STEP 3

Fine Finish

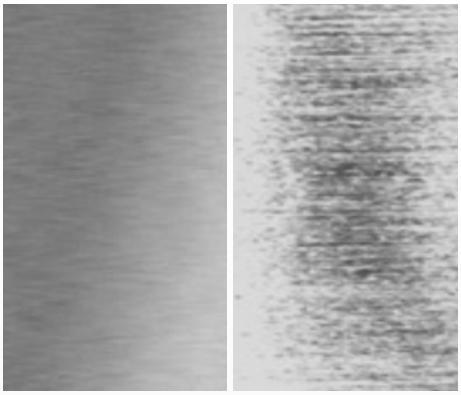
Range of grits to help achieve final finish profile for different finish requirement without excessive grinding reducing steps.

#4 Finish	#3 Finish	Measured	Random Orbital Finish
			

#3 or #4 Finish

Brushed: matte, coarser finish with fine parallel lines. Less reflective, modern aesthetics

Satin: smooth linear pattern and soft surface reflection.



Industries

Interior, Exterior Design

Metal Furniture

Professional Kitchens, Filtration

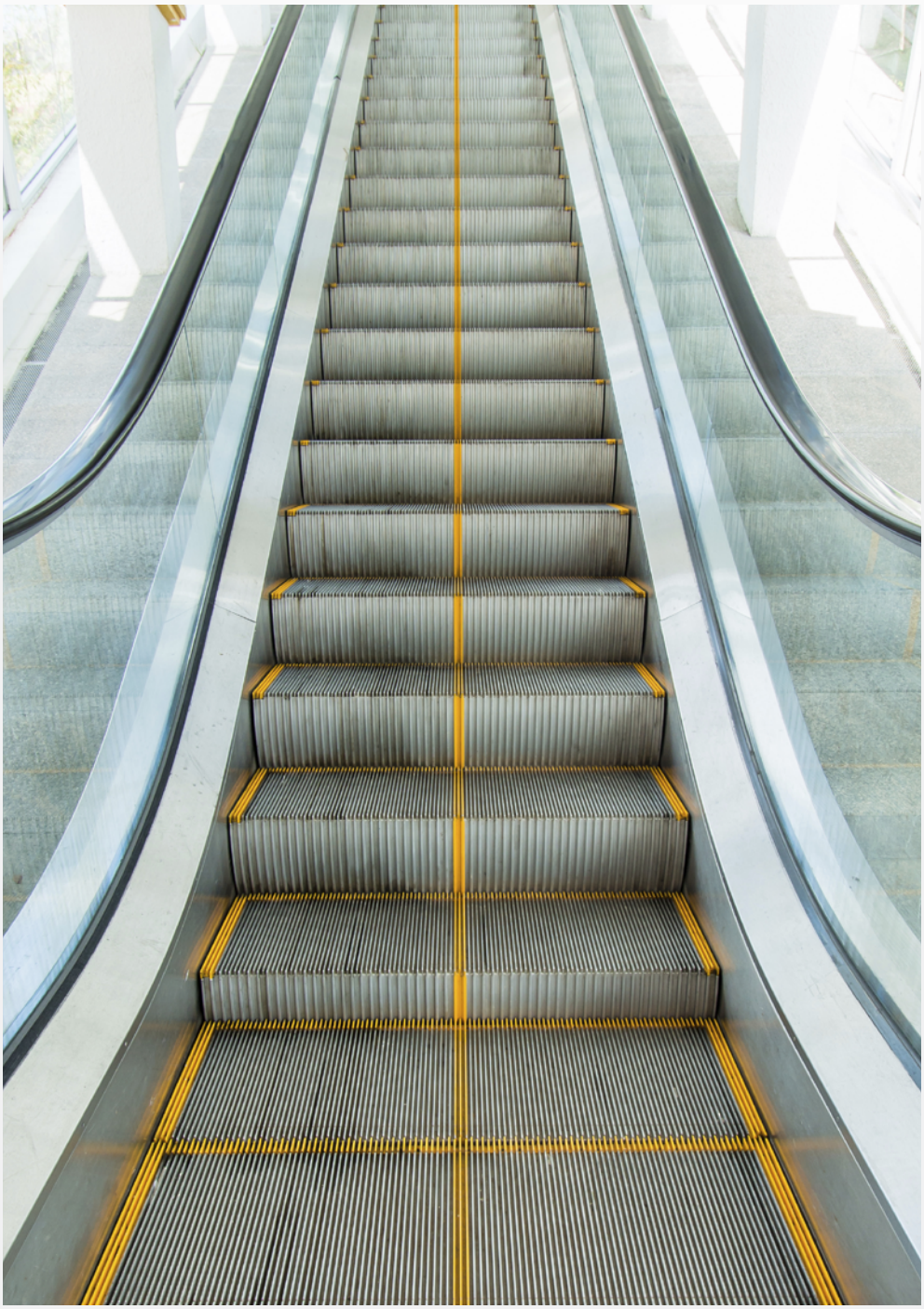
Elevators, Escalators

Tools

3M™ Right Angle Grinder

3M™ Match and Finish Sander

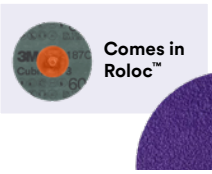
3M™ File Belt Inline Sander



#3 or #4 Finish – Combination Builder

STEP 1 Weld Leveling

Starting Point





3M Cubitron™ 3 Performance Abrasives

3M™ Cubitron™ 3 Fibre Disc
1187C - 60+/80+



3M Cubitron™ 3 Performance Abrasives

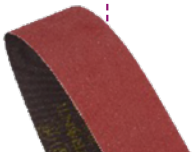
3M™ Cubitron™ 3
Cloth Belt 1184F



3M Cubitron™ 3 Performance Abrasives

3M™ Cubitron™ 3 Roloc™
Durable Edge Disc 1184F

STEP 2 Refine



3M Cubitron™ 2 Performance Abrasives

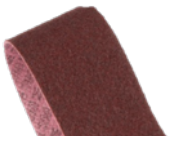
3M™ Cubitron™ 2
Cloth Belt 947A – 120+

STEP 3 Finish

Belt



OR



Scotch-Brite™

#3 finish:

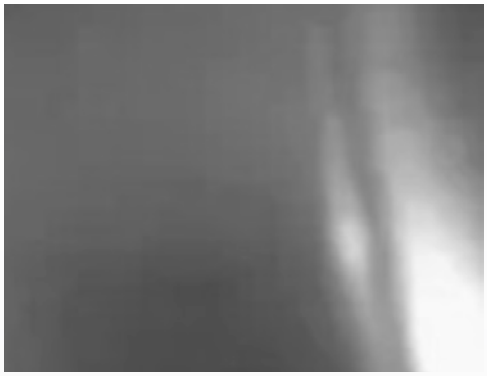
Scotch-Brite™ Surface Conditioning Belt SC - A CRS

Scotch-Brite™

#4 finish:

Scotch-Brite™ Surface Conditioning Belt SC - A MED

Measured Finish



Measured standard required in food/liquid contact

Slightly reflective, ‘cloudy’ mirror appearance

Step wise Trizact sequence achieving required finish.

Industries

Tanks & Vessels

Food Processing Machinery

Pharma and Chemical Machinery

Tools

3M™ Right Angle Grinder

3M™ Match and Finish Sander

3M™ File Belt Inline Sander



Measured Finish – Combination Builder

STEP 1 Weld Leveling

Starting Point



3M™ Cubitron™ 3 Performance Abrasives

3M™ Cubitron™ 3 Fibre Disc
1187C - 60+/80+



3M™ Cubitron™ 3 Performance Abrasives

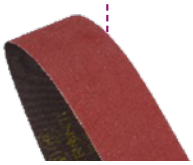
3M™ Cubitron™ 3
Cloth Belt 1184F



3M™ Cubitron™ 3 Performance Abrasives

3M™ Cubitron™ 3 Roloc™
Durable Edge Disc 1184F

STEP 2 Refine



3M™ Cubitron™ 2 Performance Abrasives

3M™ Cubitron™ 2
Cloth Belt 947A – 120+

STEP 3 Finish

Finer finish

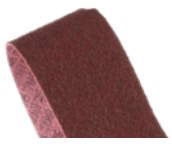


Scotch-Brite™

#3 finish:

Scotch-Brite™ Surface Conditioning Belt SC - A CRS

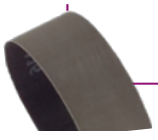
또는



Scotch-Brite™

#4 finish:

Scotch-Brite™ Surface Conditioning Belt SC - A MED



3M™ Trizact™

3M™ Trizact™
Cloth Belt 237AA

Sequence these grades according to required Ra (micro inch) finish

40 Ra	30 Ra	15 Ra	10 Ra
A65	A45	A30	A16

Most common industry finish:
Food processing - 16Ra = to 48
Pharma Ra - = 10 to 32

Random Orbital Finish



Consistent non-directional pattern across the surface.

Practical for commercial use. Help conceal scratches across high-contact areas.

Used on carbon steel in prep for paint coatings.

Industries

Interior,
Exterior Design

Metal Furniture

Tools

3M™ Xtract Random Orbital Sander

3M™ Right Angle Grinder



Random Orbital Finish – Combination Builder

STEP 1 Weld Leveling

Larger Weld ← **Starting Point** → Smaller Weld



3M™ Cubitron™ 3 Fibre Disc
1187C - 60+/80+

Save time by removing this step from your process by utilizing the power of Scotch-Brite™ containing Precision-shaped grain to grind and refine on just one step.



Scotch-Brite™
With Precision-Shaped Grain
Scotch-Brite™ Precision Heavy Duty Surface Conditioning Disc
Extra Coarse 80+

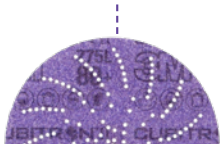
STEP 2 Refine



Scotch-Brite™
With Precision-Shaped Grain
Scotch-Brite™ Precision Surface Conditioning Disc CRS

STEP 3 Finish

Flat Surfaces

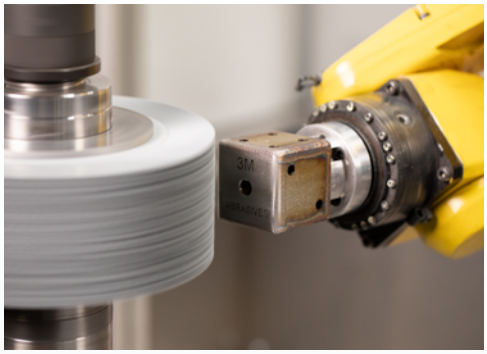


3M Xtract™ Cubitron™ 2
Film Disc 775L - 80+ or 120+

Weld Cleaning

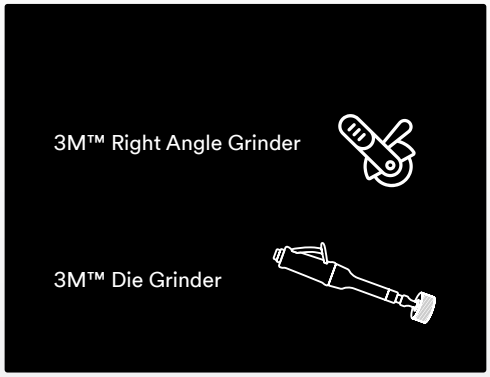
Optimal surface contact without gouging, changing the base material or removing the weld.

Conforms to contoured parts and can reach narrow and hard to reach areas.



Industries

- Tanks and Vessels
- Food Processing Machinery
- Fabricated Metal
- Pharma and Chemical Machinery



Scotch-Brite™

With Precision-Shaped Grain

Precision Radial Bristle 50+ neon green



Precision Radial Bristle 80+ orange



Precision Radial Bristle 120+ gray



Larger Weld/ More Aggressive ← **Starting Point** → Smaller Weld/ Less Aggressive



Clean and prepare surfaces before and after welding.

Cleaning of welds, discoloration and burn removal on metals such as cold rolled steel and stainless steel.

Bristle brushes are adaptable, flexible and cleans with minimal pressure to deliver consistent results

Product Order Details

Available in additional sizes, grades, and attachment types. Scan the code for full product details.

Consumables

Cubitron Discs

3M Xtract™ Cubitron™ 2 Film Disc 775L



3M ID/Product ID	Grade	Size	RPM
7100045070	80+	5 in	12,000
7100045071	120+	5 in	12,000
7100045072	80+	6 in	12,000
7100045073	120+	6 in	12,000

3M™ Cubitron™ 3 Roloc™ Fibre Disc 1187C



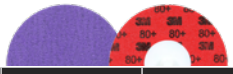
3M ID/Product ID	Grade	Size	RPM
7100331745	60+	2 in	25,000
7100331753	80+	2 in	25,000
7100332087	60+	3 in	20,000
7100332088	80+	3 in	20,000
7100332089	80+	4 in	12,000

3M™ Cubitron™ 3 Fibre Disc 1187C



3M ID/Product ID	Grade	Size	RPM
7100349499	60+	5 in	12,000
7100349604	80+	5 in	12,000
7100349589	60+	4.5 in	13,300
7100349681	80+	4.5 in	13,300

3M™ Cubitron™ 3 Roloc™ Durable Edge Disc 1184F



3M ID/Product ID	Grade	Size	RPM
7100331410	60+	2 in	25,000
7100332404	80+	2 in	25,000
7100331725	60+	3 in	20,000
7100332405	80+	3 in	20,000

Scotch-Brite Discs

Scotch-Brite™ Roloc™ Precision Surface Conditioning Disc



3M ID/Product ID	Grade	Size	RPM
7100264091	XCRS	2 in	25,000
7100264090	CRS	2 in	25,000
7100264198	XCRS	3 in	20,000
7100264197	CRS	3 in	20,000

Scotch-Brite™ Roloc™ Precision Heavy Duty Surface Conditioning Disc



3M ID/Product ID	Grade	Size	RPM
7100359489	CRS	2 in	25,000
7100359486	CRS	2 in	25,000
7100359479	XCRS	2 in	25,000
7100359477	XCRS	2 in	25,000
7100359490	XXCRS	2 in	25,000
7100359904	XXCRS	2 in	25,000
7100359491	CRS	3 in	20,000
7100359481	XCRS	3 in	20,000
7100359753	XXCRS	3 in	20,000

Scotch-Brite Discs

Scotch-Brite™ Precision Surface Conditioning Disc



3M ID/Product ID	Grade	Size	RPM
7100263910	CRS	4.5 in	13,300
7100263903	XCRS	4.5 in	13,300
7100263886	CRS	4.5 in	13,300
7100263887	XCRS	4.5 in	13,300
7100263892	XCRS	5 in	12,000
7100263891	CRS	5 in	12,000
7100263918	XCRS	5 in	12,000
7100263915	CRS	5 in	12,000

Scotch-Brite™ Precision Heavy Duty Surface Conditioning Disc



3M ID/Product ID	Grade	Size	RPM
7100358903	CRS	4.5 in	13,300
7100358856	CRS	4.5 in	13,300
7100358872	XCRS	4.5 in	13,300
7100359465	XCRS	4.5 in	13,300
7100358902	XXCRS	4.5 in	13,300
7100359467	XXCRS	4.5 in	13,300
7100358904	CRS	5 in	12,000
7100359468	CRS	5 in	12,000
7100358924	XCRS	5 in	12,000
7100359474	XCRS	5 in	12,000
7100358905	XXCRS	5 in	12,000
7100359469	XXCRS	5 in	12,000

Belts

3M™ Scotch-Brite™ Scrim Backed Surface Conditioning Belt



3M ID	Grade	Width Range (mm)	Length Range (mm)
7100013534	A CRS	3 - 300	260 - 9,000
7100012358	A MED	3 - 300	260 - 9,000
7100012347	A VFN	3 - 300	260 - 9,000
7100012085	S SFN	3 - 300	260 - 9,000

3M™ Trizact™ Cloth Belt 237AA



3M ID	Grade	Width Range (mm)	Length Range (mm)
7100007877	A100	3 - 300	260 - 9,000
7100007878	A16	3 - 300	260 - 9,000
7100007879	A160	3 - 300	260 - 9,000
7100007880	A30	3 - 300	260 - 9,000
7100007881	A45	3 - 300	260 - 9,000
7100007882	A6	3 - 300	260 - 9,000
7100007883	A65	3 - 300	260 - 9,000

3M™ Cubitron™ 2 Cloth Belt 947A, X-weight



3M ID	Grade	Width Range (mm)	Length Range (mm)
7100023178	120+	3 - 300	260 - 9,000
7100171627	40+	3 - 300	260 - 9,000
7100023234	60+	3 - 300	260 - 9,000
7100023179	80+	3 - 300	260 - 9,000

3M™ Cubitron™ 3 Cloth Belt 1184F, YF-weight



3M ID	Grade	Width Range (mm)	Length Range (mm)
7100313150	36+	3 - 300	260 - 9,000

Brushes

Scotch-Brite™ Precision Radial Bristle Brush



SKU	Grade	Type	Size	Max RPM
7100374712	80+	Type A - Angled	3 in (75mm)	20,000
7100375403	80+	Type C - Curved	3 in (75mm)	20,000
7100375404	120+	Type C - Curved	3 in (75mm)	20,000
7100374836	50+	Type A - Angled	6 in (150mm)	6,000
7100374843	80+	Type A - Angled	6 in (150mm)	6,000
7100374840	80+	Type C - Curved	6 in (150mm)	6,000
7100374844	120+	Type C - Curved	6 in (150mm)	6,000

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go.3M.com/AUAbrasives

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