3M Science. Applied to Life.™



Winning Abrasive Combinations



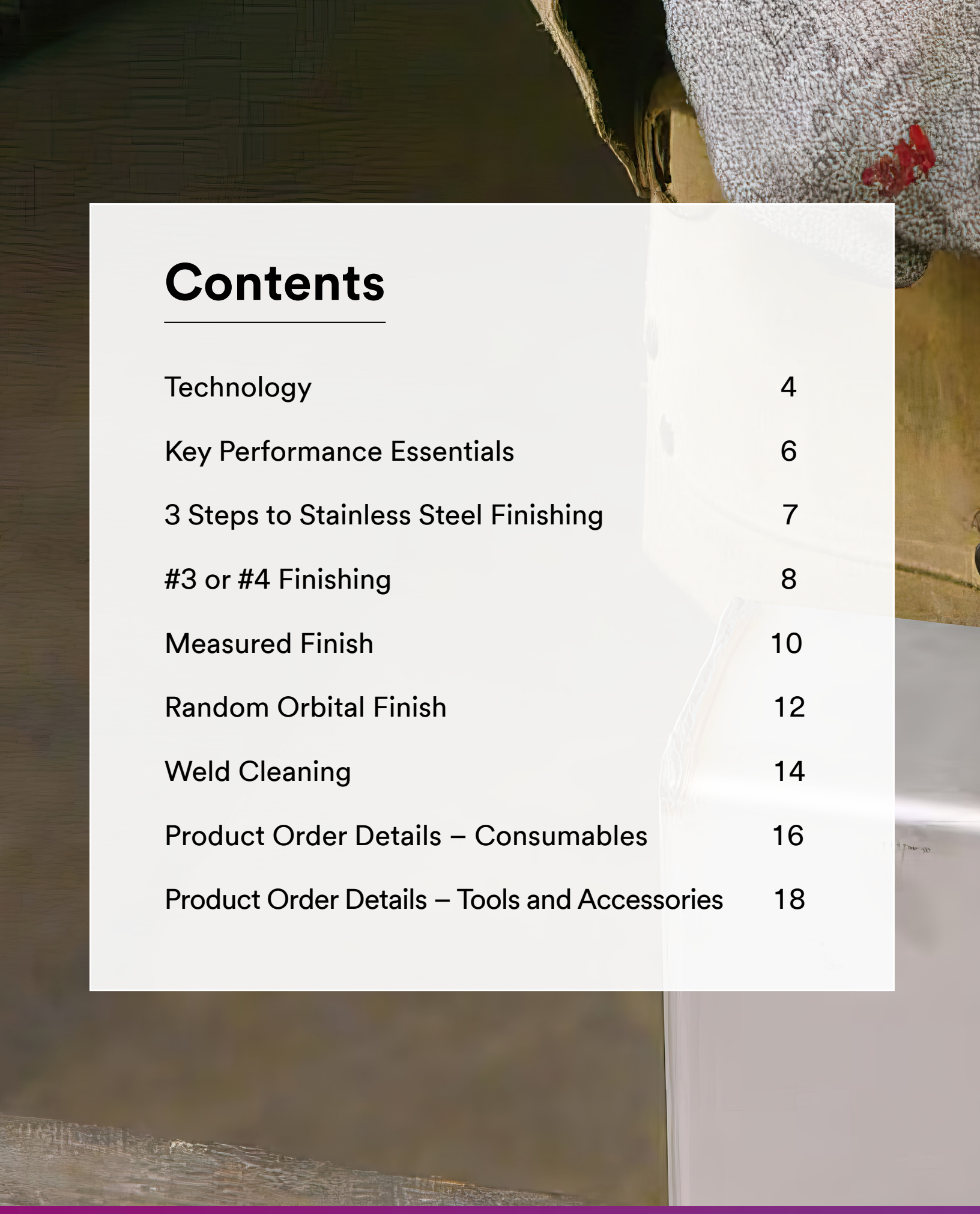
Stainless Steel

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™

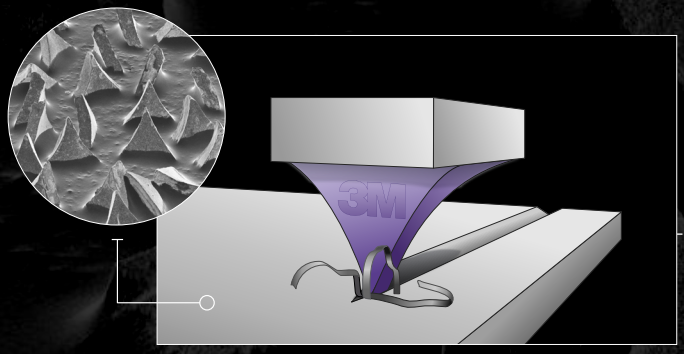


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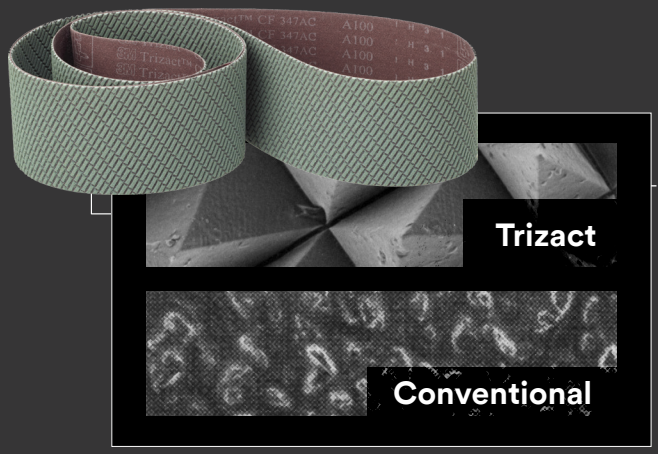
Technology that transforms how work gets done



3M | Cubitron™ 3
Performance Abrasives

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





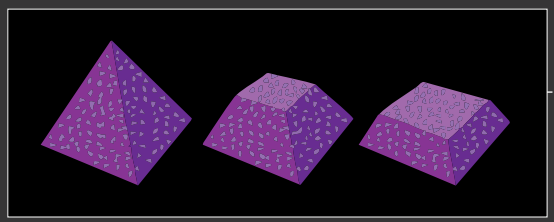
3M | Trizact™

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

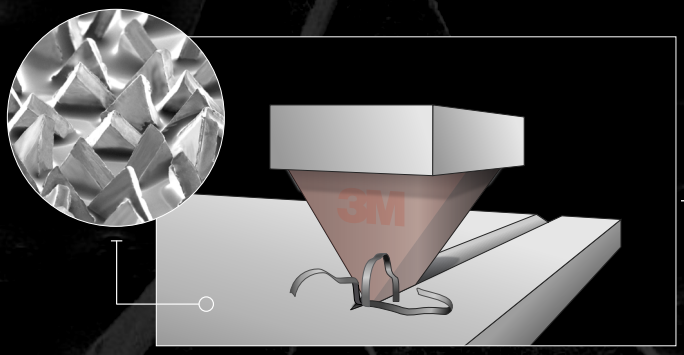
containing multiple layers of abrasive mineral. As these pyramid-like structures wear, fresh, sharp mineral is exposed.

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.

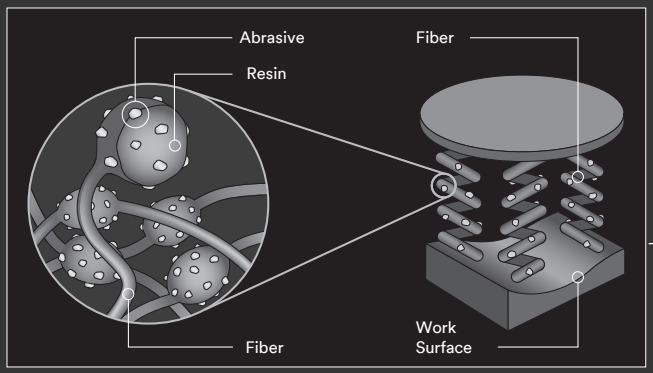
In this guide we show how combining these technologies into sequential process steps can take process transformation to another level!





3M | Cubitron™ 2
Performance Abrasives

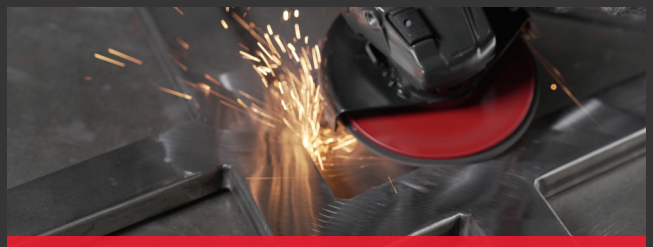
3M pioneered the first precision-shaped grain using micro-replication technology to form consistent sharp peaks that "slice" – cooler cut, longer life and fast!



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 requirements 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

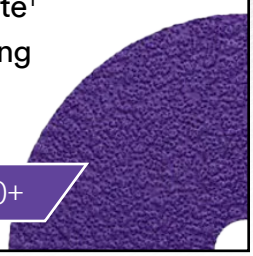


Scotch-Brite™ Precision Radial Bristle Brush

Reduce heat impact when grinding

Avoid excessive heat imparted to the substrate by minimizing processing time

+ 166% faster sustained cut rate[1]
+ 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.

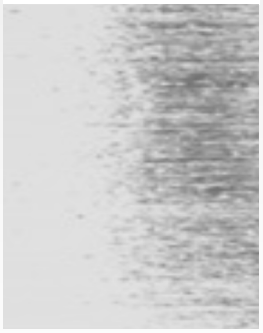
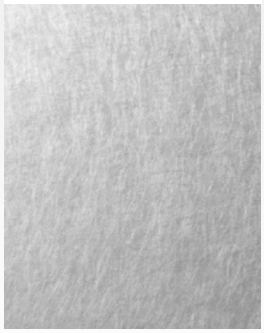
With no compromise.

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

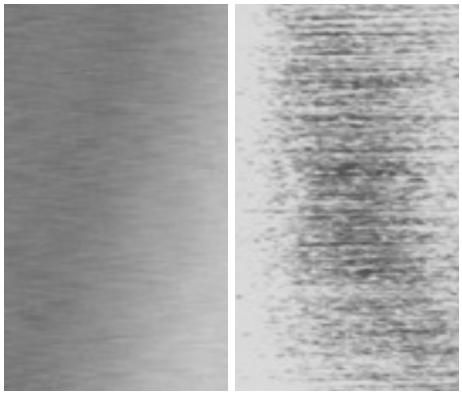
Range of grits to help achieve final finish profile for different finish requirement without excessive grinding, reducing steps.

#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 Fibre Disc
1187C – 60+/80+

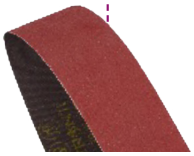


3M™ Cubitron™ 3
Cloth Belt 1184F



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

STEP 2 Refine / Set Grain



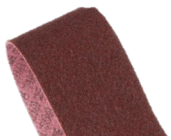
3M™ Cubitron™ 2
Cloth Belt 947A – 120+

STEP 3 Finish

Belt ⟷ Brush



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



OR



Scotch-Brite™
#3 finish: Scotch-Brite™ Match and Finish High Strength Flap Brush 7A CRS

Scotch-Brite™
#4 finish: Scotch-Brite™ Match and Finish High Strength Flap Brush 7A 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 Fibre Disc
1187C – 60+/80+

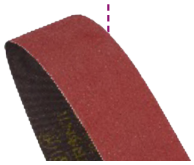


3M™ Cubitron™ 3
Cloth Belt 1184F



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

STEP 2 Refine / Set Grain



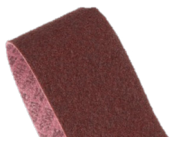
3M™ Cubitron™ 2
Cloth Belt 947A – 120+

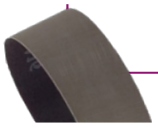
STEP 3 Finish

Finer finish



OR





#3 finish: Scotch-Brite™ Surface Conditioning Belt SC – A CRS

#4 finish: Scotch-Brite™ Surface Conditioning Belt SC – A MED

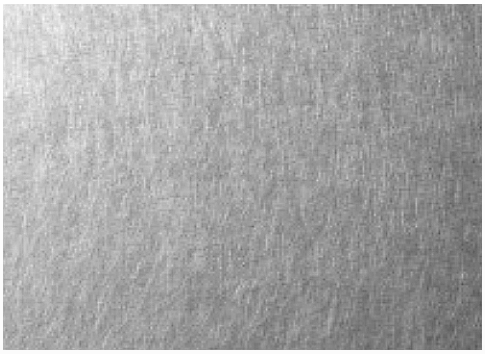
3M™ Trizact™
Cloth Belt 237AA

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 = 16 Ra - 48 Ra
Pharma = 10 Ra - 32 Ra

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 (LINK)

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 Performance Abrasives

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

Save time by removing this step from your process. Utilize 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 / Set Grain



Scotch-Brite™
With Precision-Shaped Grain

Scotch-Brite™ Precision Surface Conditioning Disc CRS

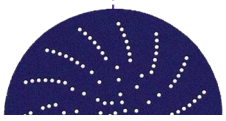
STEP 3 Finish

Flat Surfaces ← → Edges & Corners



3M Cubitron™ 2 Performance Abrasives

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



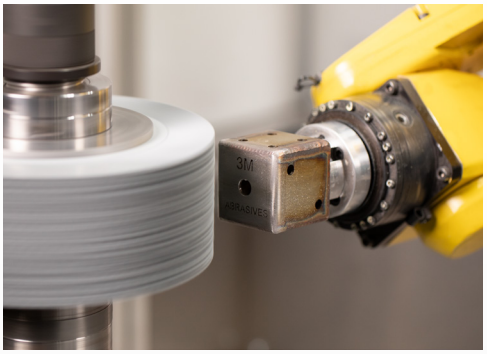
3M Cubitron™ 2 Performance Abrasives

3M Xtract™ Cubitron™ 2
Cloth Disc 900DZ 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

Tools

- 3M™ Right Angle Grinder
- 3M™ Die Grinder

Scotch-Brite™

With Precision-Shaped Grain

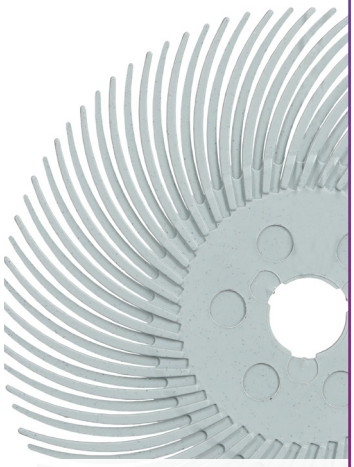
Precision Radial Bristle 50+ neon green



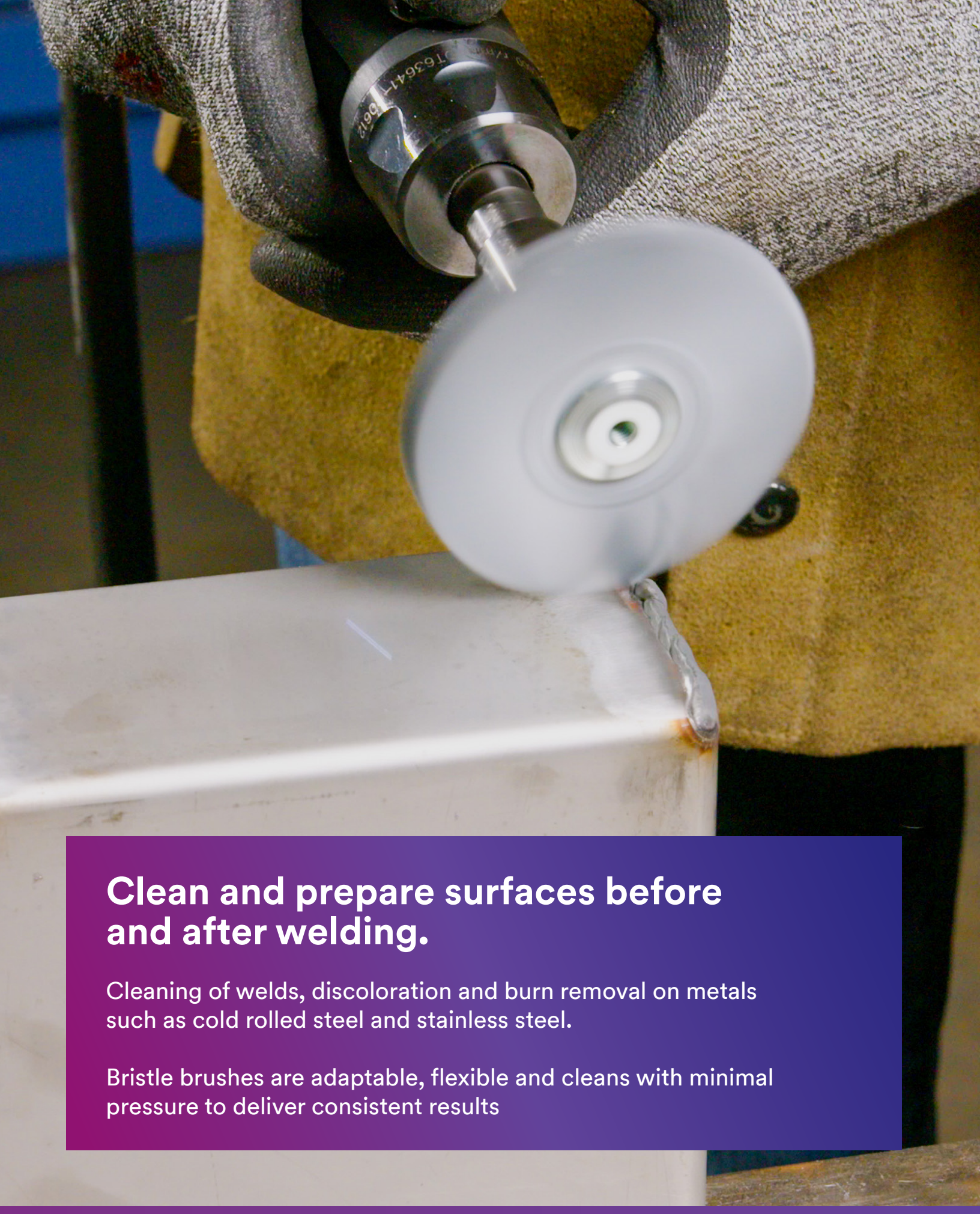
Precision Radial Bristle 80+ orange



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

3M™ Cubitron™ Discs incl. Roloc™

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 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 Xtract™ Cubitron™ 2 Cloth Disc 900DZ



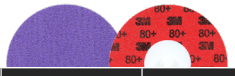
3M ID/Product ID	Grade	Size	RPM
7100284531	80+	5 in	12,000
7100284520	120+	5 in	12,000
7100284530	80+	5 in	12,000
7100284508	120+	5 in	12,000

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 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™ Roloc™ 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™

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™ Cubitron™ 3 Cloth Belt 1184F



3M ID/Product ID	Grade	Size - in (w x l)
7100358075	60+	3.5 in x 15.5 in
7100354016	80+	3.5 in x 15.5 in
7100354019	60+	1/2 in x 24 in
7100354018	80+	1/2 in x 24 in

3M™ Cubitron™ 2 Cloth Belt 947A



3M ID/Product ID	Grade	Size - in (w x l)
7100050305	120+	3.5 in x 15.5 in
7100099868	120+	1/2 in x 24 in

Scotch-Brite™ Surface Conditioning Belt



3M ID/Product ID	Grade	Size - in (w x l)
7000120716	A CRS	1/2 in x 24 in
7000045943	A MED	1/2 in x 24 in
7000045944	A VFN	1/2 in x 24 in
7000028433	A CRS	3.5 in x 15.5 in
7000028435	A MED	3.5 in x 15.5 in
7000028436	A VFN	3.5 in x 15.5 in

3M™ Trizact™ Cloth Belt 237AA



3M ID/Product ID	Grade	Size - in (w x l)
7000028337	A65	3.5 in x 15.5 in
7000120271	A45	3.5 in x 15.5 in
7000028338	A30	3.5 in x 15.5 in
7000028335	A16	3.5 in x 15.5 in
7100179924	A65	1/2 in x 24 in
7000120322	A30	1/2 in x 24 in
7000120270	A45	1/2 in x 24 in
7100179903	A16	1/2 in x 24 in

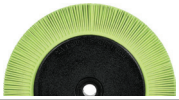
Brushes

Scotch-Brite™ Match and Finish High Strength Flap Brush



3M ID/Product ID	Grade	Size - in (w x l)
7000121170	7A CRS	4-1/2 in x 4 in x 5/8 in-11
7000121171	7A MED	4-1/2 in x 4 in x 5/8 in-11

Scotch-Brite™ Precision Radial Bristle Brush



3M ID/Product ID	Grade	Size	RPM
7100374712	50+	6 in	6,000
7100374909	80+	6 in	6,000
7100374847	120+	6 in	6,000
7100375404	80+	6 in	6,000
7100374846	120+	6 in	6,000

Tools

3M Xtract™ Electric Random Orbital Sander



3M ID/Product ID	Part Number	Dimension	RPM
7100254310	88762	5 in	10,000
7100254306	88758	5 in	10,000
7100253819	88760	6 in	10,000
7100254313	88764	6 in	10,000

3M™ Inline Sander



3M ID/Product ID	Part Number	Dimension	RPM
7100106789	28339	5/8 in x 11 in	3,500
7000045254	28338	5/8 in x 11 in	3,500

3M™ Disc Sander



3M ID/Product ID	Part Number	Dimension	RPM
7100075504	20231	2 in	15,000
7100075503	28328	2 in	15,000
7100075502	28341	2 in	15,000
7100075505	28329	2 in	15,000
7100142325	20232	2 in	20,000
7100142459	25125	2 in	20,000

3M™ Electric Grinders 1900W, 220-240V, 11,500 Max RPM, M14



3M ID/Product ID	Part Number	Dimension	RPM
7100337004	11130	4.5-5 in	9,300
7100336788	11131	6 in	11,500
7100336685	11129	4.5 in x 5 in	11,500

3M™ File Belt Sander



3M ID/Product ID	Part Number	Dimension (length/width)	Motor HP (W)
7000000433	28366	16.57 in x 7.19 in	3,500

3M™ Match and Finish Sander



3M ID/Product ID	Part Number	Dimension	RPM
7100142461	28659	4 in x 5/8 in x 11 in	3,500



Accessories

For Inline Sander

3M™ Rubber Slotted Expander Wheel



3M ID/ Product ID	For Use With	Size/Description	Max RPM	Qty/ Case
7000028221	For use with belts 3-1/2 in x 15-1/2 in or 3 in x 10-11/16 in	5 in x 3-1/2 in, 5/8 in Arbor Hole	3,500	1
7000028222		3-2/5 in x 3 in, 5/8 in Arbor Hole	3,500	1
7100073953		3 in x 3 in x 5/8-11 in IN	6,000	1
7100030184		5 in x 3-1/2 in x 1 in AH	3,500	1

3M™ Wheel Adapter Kit 28419



3M ID/Product ID	Part Number	Dimension
7010362498	28419	1/2-20 EXT x 5/8-11 INT
7000028423	45038	5/8-11 EXT x 5/8-11 INT
7100050705	28719	1 × 5/8-11 INT

3M™ Wheel Adapter Kit 45038



3M ID/ Product ID	For Use With	Size/Description	Max RPM	Qty/ Case
7000028423	To mount wheels with 5/8 – 1 in center holes on 3M Inline Sanders	5/8-11 in EXT ex 5/8-11 in INT	See MOS of wheel	1

3M™ Spindle Extender Kit



3M ID/ Product ID	For Use With	Size/Description	Max RPM	Qty/ Case
7000121185	To mount wheels with 5/8-1 in center holes on 3M Inline Sanders	Part 300	See MOS of wheel	1

For Match and Finish Sander

3M™ Rubber Slotted Expander Wheel



3M ID/ Product ID	For Use With	Size/Description	Max RPM	Qty/ Case
7100030184	Rubber slotted expander wheel for use with 3-1/2 in x 15-1/2 belts	5 in x 3-1/2 in x 1 in AH	3,500	1

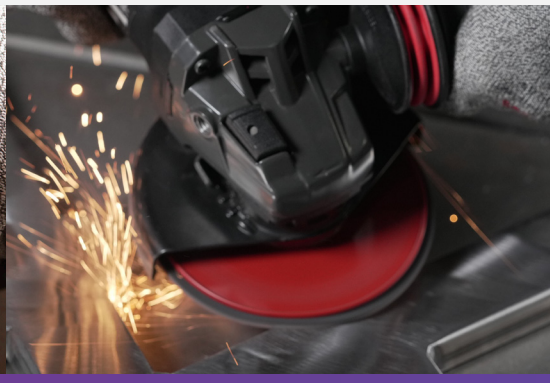
3M™ Rubber Slotted Expander Kit



3M ID/ Product ID	For Use With	Size/Description	Max RPM	Qty/ Case
700050705	Inline sander, bench grinders, bench motors, bench top tools	1 in x 5/8-11 in INT	3,500	1







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