



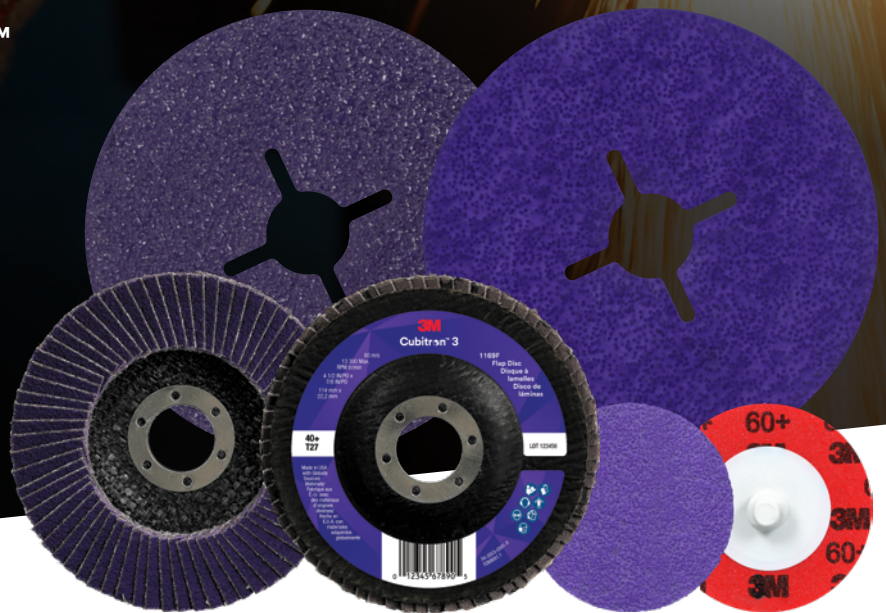
Cubitron™ 3

Performance Abrasives

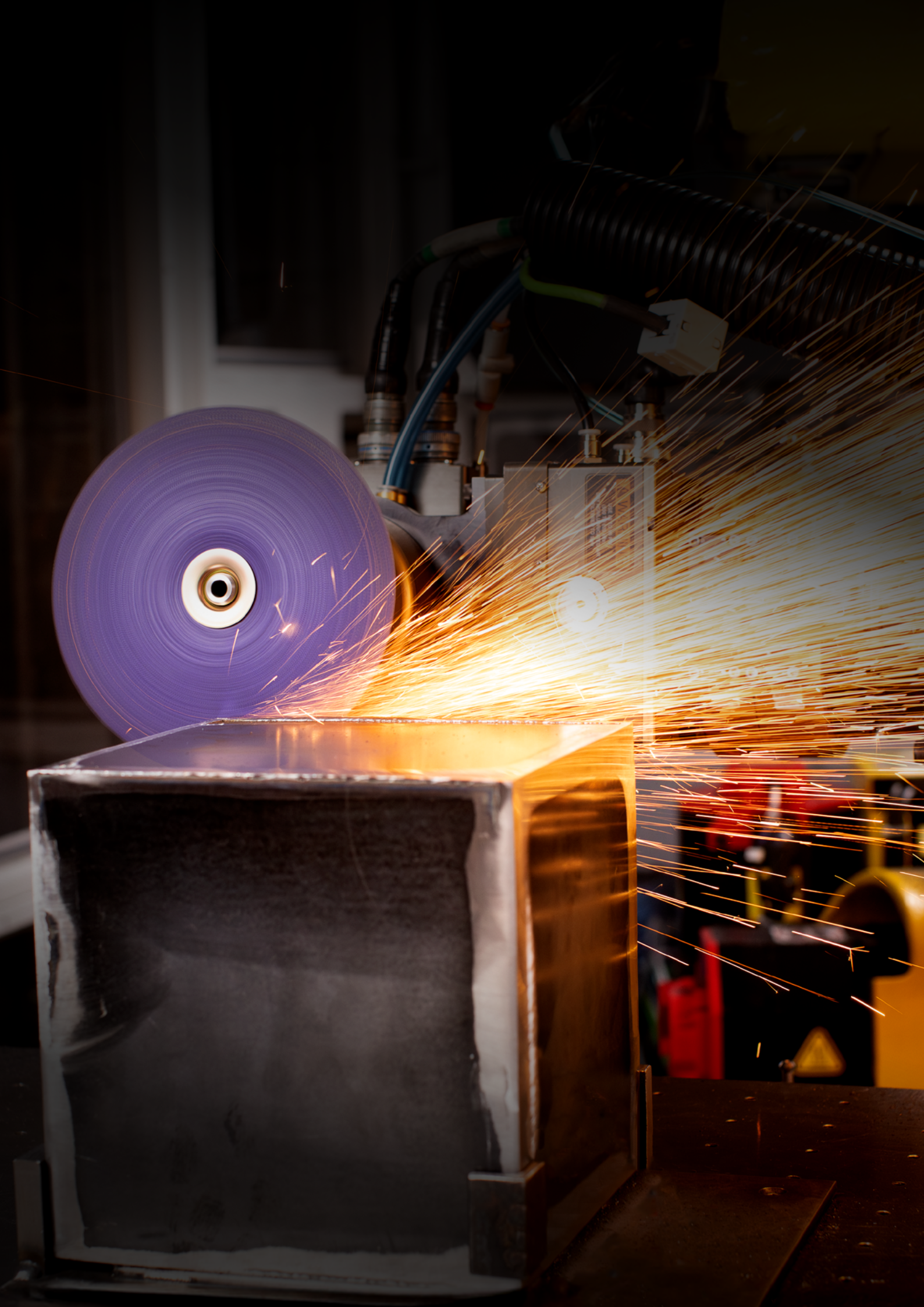
Produce more. With less.

3M™ Cubitron™ 3 Fibre Discs, Roloc™ and Flap Discs

Breakthroughs in technology that
redefine the limits of cut rate and
stock removal, with priority on
productivity, safety, sustainability,
and optimizing automation.



3M™ Cubitron™ 3 Fibre Discs 1182C and 1187C
3M™ Cubitron™ 3 Roloc™ 1184F, 1182C and 1187C
3M™ Cubitron™ 3 Flap Discs 1169F





Produce more. With less.

3M™ Cubitron™ 3 Fibre Discs, Roloc™ and Flap Discs

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A new era of abrasive performance is here.

Introducing 3M re-engineered Precision-Shaped Grain, boosting the speed and life of 3M™ Cubitron™ Performance Abrasives to new heights. This advancement prioritises operator safety, maximises sustainability, and amplifies time and labour efficiency.

3M™ Cubitron™ 3 Fibre Disc 1182C, 36+

Up to

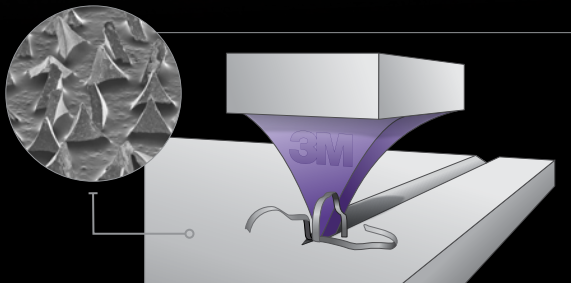
60%

- **Faster sustained cut rate**
- **More total material removed**

vs. 3M™ Cubitron™ II Fibre Disc 982C, 36+

Enhanced mineral orientation

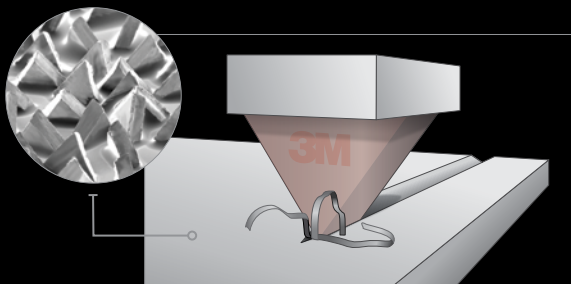
Re-shaping the way work gets done.



3M | **Cubitron™ 3**
Performance Abrasives

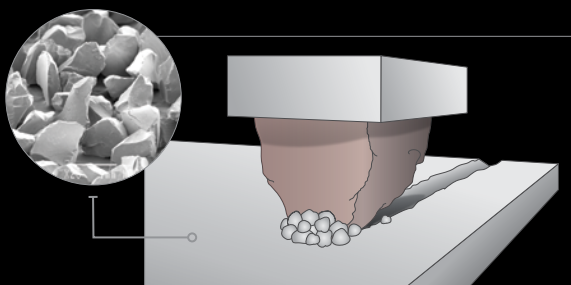
Our latest 3M Precision-Shaped Grain

Re-engineered precision-shaped ceramic grain using a proprietary breakthrough in grain shape with curved sides. This helps increase productivity and lower overall grinding costs.



3M Precision-Shaped Grain

3M pioneered the first precision-shaped grain using 3M microreplication technology to form consistent sharp peaks that easily “slice” through metal—cutting cooler, faster, and lasting longer than conventional abrasive grain.



Conventional ceramic abrasive

Conventional ceramic abrasive grain tends to “plow” through metal, causing heat to build up in the workpiece and abrasive, resulting in a slower cut and shorter abrasive life compared to 3M precision-shaped grain.

3M™ Cubitron™ 3 Fibre Discs 36+

Ideal for heavy grinding applications.

By using long-lasting, fast-cutting 3M™ Cubitron™ 3 Fibre Discs grade 36+, you can minimize abrasive changeover to save money over time. Stiff Fibre backing and a strong resin bond provide durability and tear-resistance for heavy grinding applications from beveling, weld grinding, surface grinding to deburring, and flame cut smoothing. In each application the product grinds more freely and at lower temperatures, helping to reduce job times, operator fatigue and minimize rework.



Industries: ▶ Metal fabrication ▶ Machinery manufacturing ▶ Shipyards

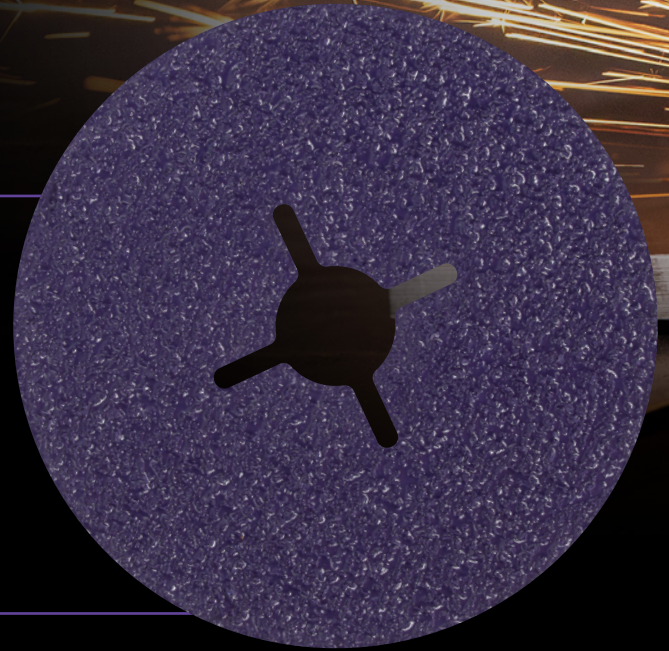


Proven to change the game for your process.

3M™ Cubitron™ 3 Fibre Disc 1182C

Carbon steel grinding

Grade 36+



More total material removed

Longer lasting abrasives with fewer changeouts needed and less downtime



Less operator fatigue

Prioritize workplace wellbeing and motivation with less pressure required on the tool



Cool cutting

Helps to reduce metal discoloration and stress cracks — ultimately minimizing re-work



Faster cut rate

Incredibly fast cut rate helps to increase throughput, maximize productivity and boost your bottom line



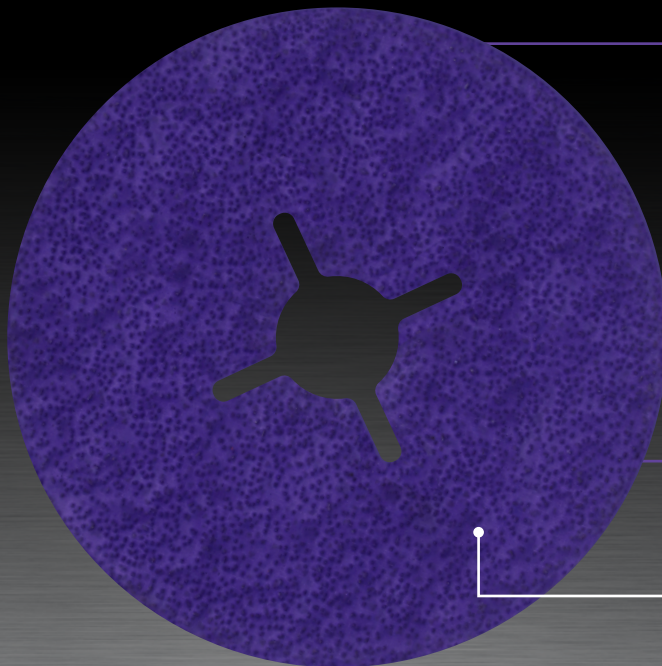
Less vibration exposure

Helps improve workplace safety without compromising productivity



Sustainability at the core

Longer-lasting abrasives and recycled shipper packaging helps reduce carbon footprints and waste



3M™ Cubitron™ 3 Fibre Disc 1187C

Stainless steel grinding

Grade 36+

Coated with a grinding aid

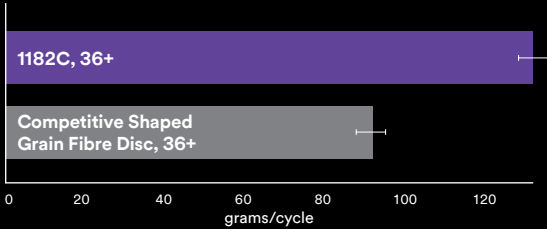
Reduces the risk of discoloration from thermal damage in heat sensitive metals

Grade 36+

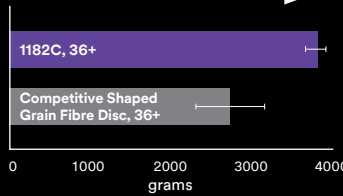
We tested 3M™ Cubitron™ 3 Fibre Disc 1182C, 36+ and here are the results:

Productivity Delivered

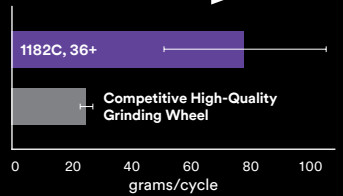
Up to **36%** Faster sustained cut rate¹



Up to **34%** More total material removed¹



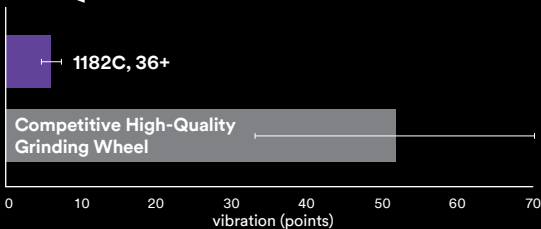
Up to **3X** Faster initial cut rate²



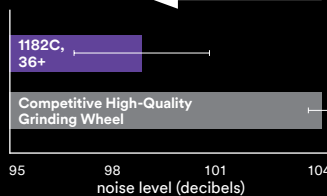
Helps improve workplace safety without compromising productivity.

Safety Built In

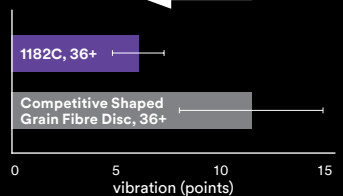
Up to **88%** Less vibration exposure²



Up to **70%** Less noise energy generated³



Up to **47%** Less vibration exposure⁴



Error bars represent the results with a 95% confidence level.

¹ Compared to Competitive Shaped Grain Fibre Disc. Results are based on an automated, 30-minute, high pressure test on 1018 steel using 7 inch, 36+ grit fibre discs and 3M™ Disc Pad Face Plate Ribbed 80514 on a servo motor.

² Performance testing in a typical weld preparation process; 3M™ Cubitron™ 3 Fibre disc average compared to the average result of 10 globally available high-quality competitive shape type-27 Grinding wheels including ceramic grain products, according to independent testing by Fraunhofer Institute. January 2024. **

³ Noise energy operator exposure testing in a typical weld preparation process; Cubitron™ 3 Fibre disc average compared to the average result of 10 globally available high-quality competitive shape type-27 Grinding wheels including ceramic grain products, according to independent testing by Fraunhofer Institute. January 2024.

⁴ Performance testing in a typical weld preparation process; 3M™ Cubitron™ 3 Fibre disc average compared to the average result of 5 globally available high-quality competitive Fibre discs including ceramic shaped grain products, according to independent testing by Fraunhofer Institute. January 2024.

⁵ Average result from 10 high-quality globally represented competitive Grinding wheels including ceramic grain products. Error bars shows a range of likely values for the mean with a confidence level of 95%.

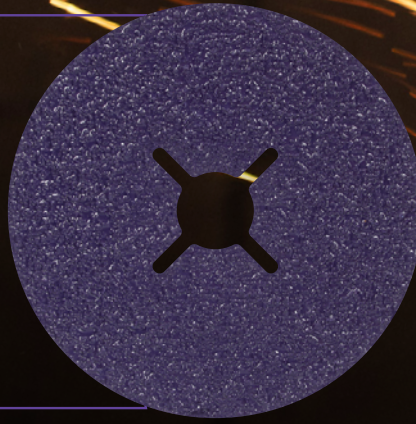
Independent hazards testing performed by:



3M™ Cubitron™ 3 Fibre Disc 1182C

Mild steel grinding

Grades 60+ & 80+

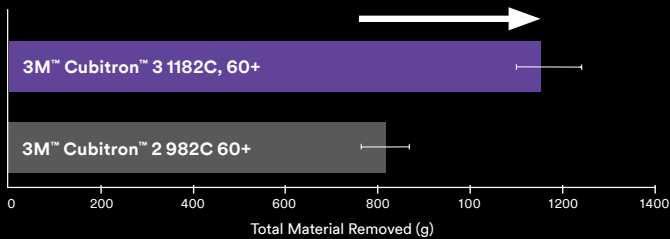


We tested 3M™ Cubitron™ 3
Fibre Disc 1182C 60+ and 80+,
and here are the results:

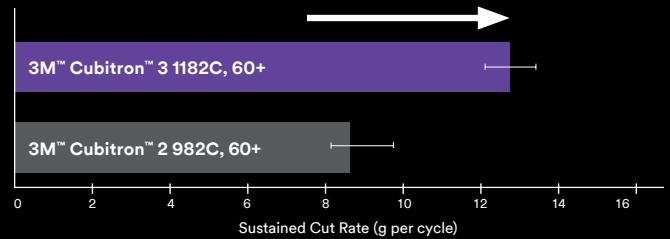
**Productivity
Delivered**

Grade 60+

Up to
38% More total
material
removed¹

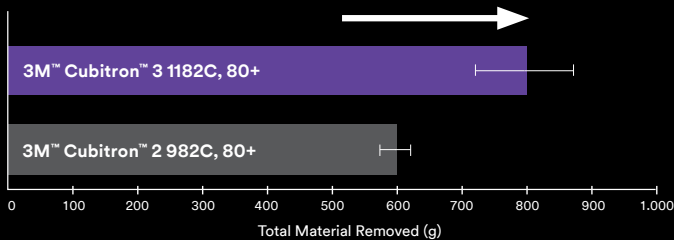


Up to
42% Faster
sustained
cut rate²

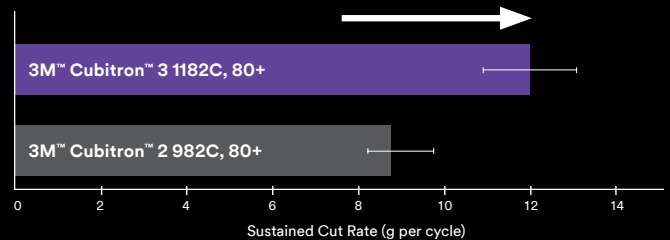


Grade 80+

Up to
29% More total
material
removed¹



Up to
32% Faster
sustained
cut rate²



Total Material Removed:

60+ Carbon Steel: The 'total material removed' claim is determined by averaging the amount of metal ground over 100 cycles, approximately 42 minutes of grinding
80+ Carbon Steel: The 'total material removed' claim is determined by averaging the amount of metal ground over 70 cycles, approximately 30 minutes of grinding

Units for carbon steel will be Grams
Each cycle for the carbon steel test method = 25.3 seconds of grinding per cycle

Sustained Cut Rate:

60+ & 80+ Carbon Steel: The 'sustained cut rate' claim is determined from averaging the cut/cycle from cycles 11-50 (40 cycles total, which is approximately 17 minutes of grinding)

3M™ Cubitron™ 3 Fibre Disc 1187C

Stainless steel grinding

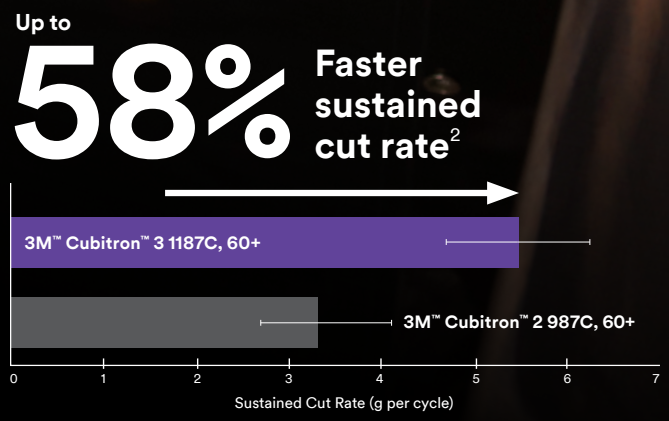
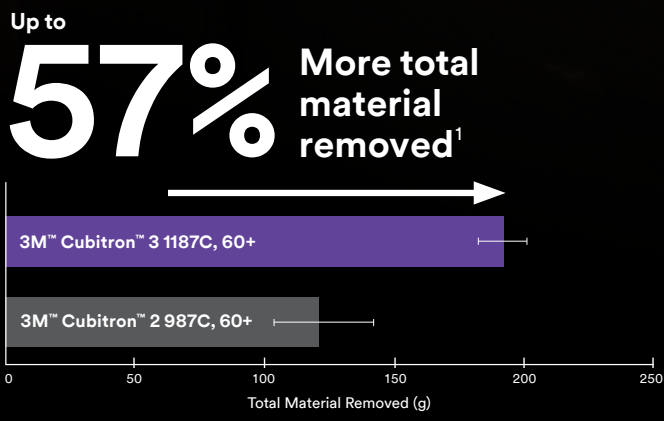
Grades **60+ & 80+**



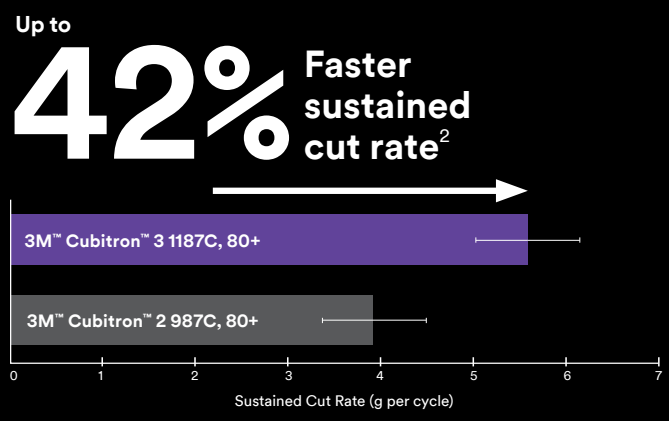
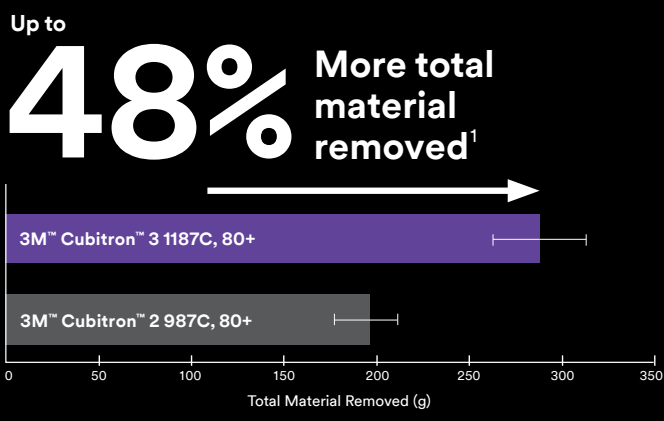
We tested 3M™ Cubitron™ 3
Fibre Disc 1187C 60+ and 80+,
and here are the results:

**Productivity
Delivered**

Grade 60+



Grade 80+



Total Material Removed:
60+ Stainless Steel: The 'total material removed' claim is determined by averaging the amount of metal ground over 40 cycles, approximately 8.5 minutes of grinding.
80+ Stainless Steel: The 'total material removed' claim is determined by averaging the amount of metal ground over 72 cycles, approximately 15 minutes of grinding.

Units for stainless steel will be Grams
Each cycle for the stainless steel test method = 12.7 seconds of grinding per cycle

Sustained Cut Rate:
60+ & 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)

3M™ Cubitron™ 3 Roloc™ Fibre Discs

The benefits of the Roloc™ attachment

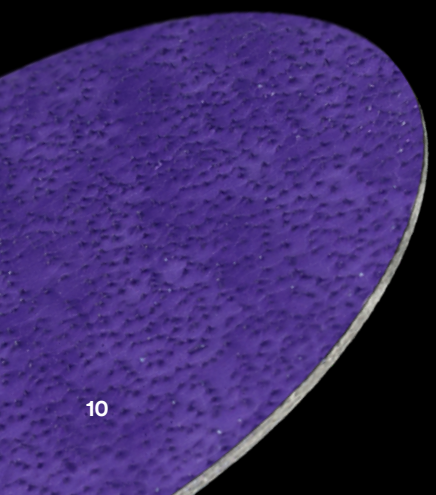
3M™ Roloc™ Abrasive Discs are smaller discs that quickly attach onto a Roloc™ disc pad so that you can conveniently and rapidly change discs as needed. Our system provides a secure attachment

even for heavy-duty applications. Disc buttons are also color-coded when needed to identify its grade, making it easy to select the grade required for different applications.

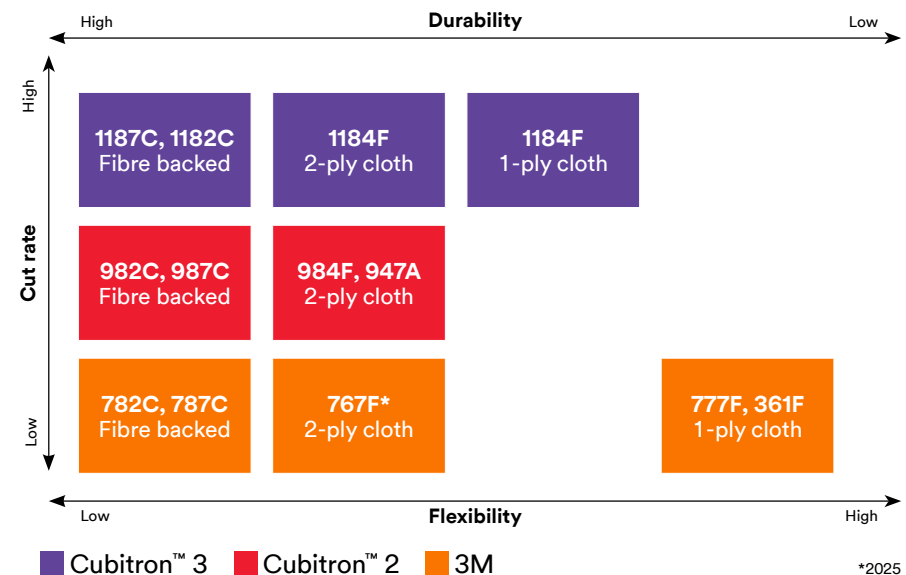
- ▶ Remote applications
- ▶ Retain extra control
- ▶ Localized, refining, finishing
- ▶ Corner or curved surfaces
- ▶ Intricate, difficult to reach areas
- ▶ Remove weld splatter on small areas



Productivity Delivered



Grinding and stock removal



*2025

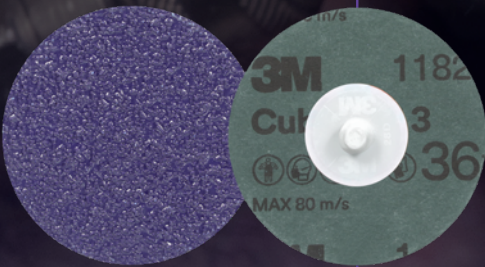


3M™ Cubitron™ 3 Roloc™ Durable Edge Disc 1184F

Stainless steel and other heat-sensitive alloys.

Designed for metalworking applications where flexibility is required and wear resistance in edge work is needed as well as weld grinding, beveling, and deburring.

Grades 36+, 60+ & 80+

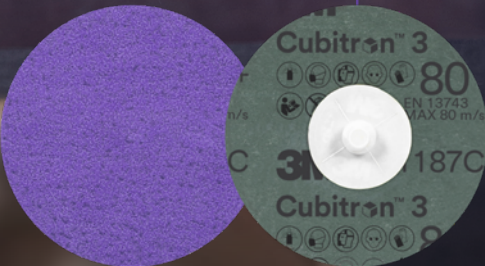


3M™ Cubitron™ 3 Roloc™ Fibre Disc 1182C

Carbon steel grinding

Outstanding performance and productivity for medium to high pressure grinding applications on carbon steel when a smaller sized disc is needed.

Grades 36+, 60+ & 80+



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

Stainless steel, cobalt chrome, and nickel alloy applications.

Long-lasting disc offering a fast cut rate with high stock removal across a wide range of application pressures

Grades 36+, 60+ & 80+

3M™ Roloc™ Disc button color/grade guide

3M™ Cubitron™ 3 Disc	Color	Grade
1184F Durable edge	○ White	All
1184F	● Brown*	36+
1182C	● Orange*	60+
1187C	● Yellow*	80+

*Note: Colored buttons will gradually be replaced by white buttons in all grades at the same time we print product family and grade at the back of each disc.

Optimum tool speed to maximize 3M™ Roloc™ Disc cut rates and life

Disc size	Substrate			
	Carbon Steel	Stainless Steel	Titanium	Aluminium
50mm	20.000rpms	15.000rpms	7.000rpms	20.000rpms
75mm	15.000rpms	10.000rpms	4.500rpms	15.000rpms

3M™ Roloc™ Attachment System

CB3 Fibre Disc	Size (mm)	TR
1184F	50	●
	75	●
1182C	50	●
	75	●
1187C	50	●
	75	●

*Ask for other dimensions availability.



TR
plastic button

3M™ Cubitron™ 3 Flap Discs 1169F

Grades

40+, 60+ & 80+

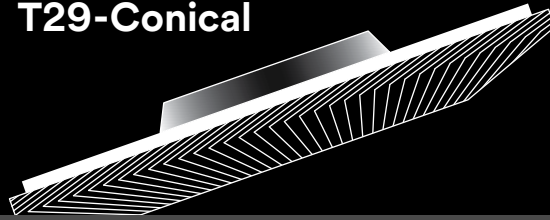


Maximizing productivity and flexibility

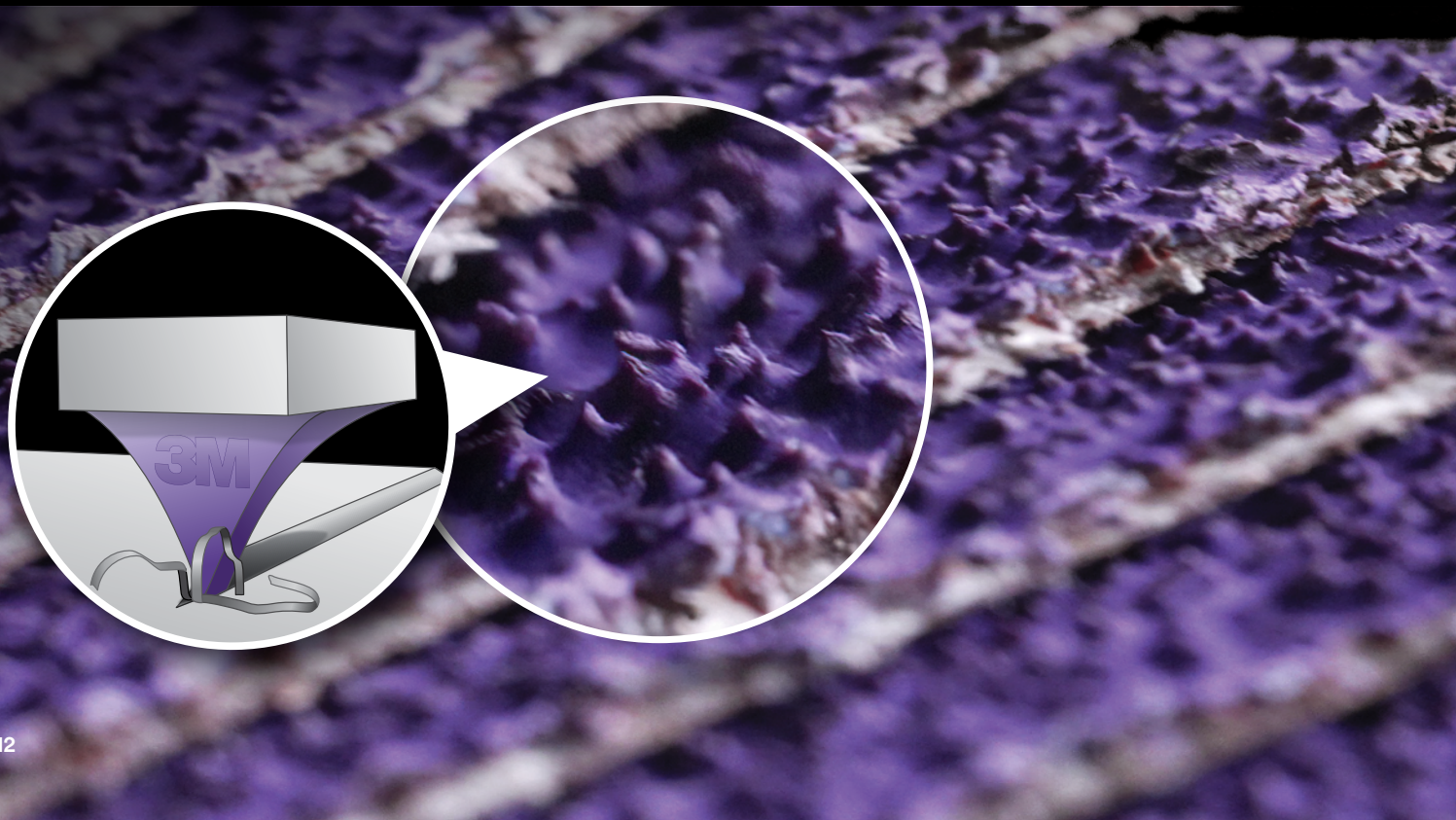
Powered by 3M re-engineered precision-shaped grain technology, the Cubitron 3 product line now includes flap discs available in grades 40+, 60+, 80+.

Built with a durable polyester backing, these versatile flap discs offer long life, increased productivity and consistent performance resulting in less abrasive spend.

T29-Conical



For use at steeper angles: 15° – 25°



Proven performance that takes your process to the next level



Increased productivity

Long life and fast cut mean more work done with every single flap disc, less time spent changing discs and less abrasive spend.



Increased versatility

Easy to use flap disc nature helps lower the risk of gouging compared to bonded wheels.



Increased consistency

Individual flaps break down, exposing fresh mineral throughout the life of the disc.



Increased safety and sustainability

Requires less operator pressure, and long life service helps reduce landfill waste.

Works best on:

Carbon steel

Stainless steel

Compliant with Contaminant-Free and INOX criteria to reduce risks of galvanic corrosion.

Abrasive flaps include grinding aid for high performance and long life on stainless steel and other heat-sensitive alloys.

More applications than before!

Ideal for medium to high pressure jobs where the quality and finish are crucial.

Automation Ready



Grinding

Deburring

Blending

Surface Prep

Refining

Finishing

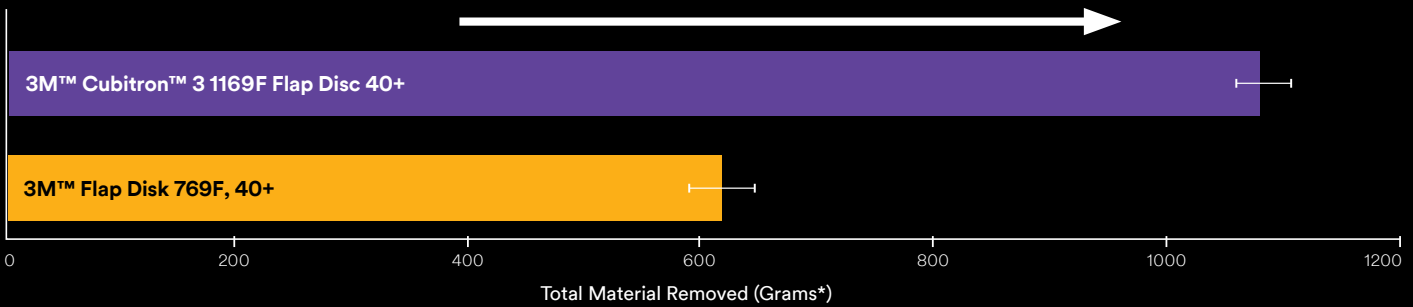
3M™ Cubitron™ 3 Flap Disc 1169F

Carbon steel grinding Grade **40+**

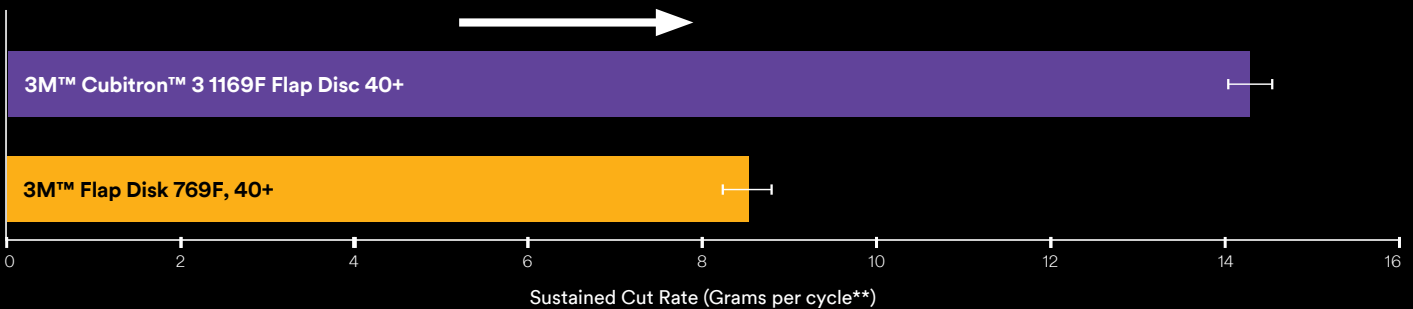
We tested 3M™ Cubitron™ 3 Flap disc 1169F grade 40+ on carbon steel and here are the results:

3M™ Cubitron™ 3 Flap Disc 1169F against other 3M products:

Up to **66%** More material removed compared to 3M™ Flap Disk 769F, 40+



Up to **65%** Faster sustained cut rate compared to 3M™ Flap Disk 769F, 40+



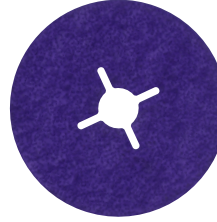
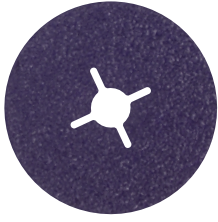
Note: Results are based on an automated, 37.5 minute, medium pressure test on 1045 steel using 4.5 inch 40 grit flap discs on a servo motor.

* Total material removed claim is determined by averaging the amount of metal ground over the entire 75 cycles. Units is grams.

** Sustained cut rate claim is determined from averaging the cut/cycle from cycle 66-75 (which is 5 minutes of grinding). Units is Grams/cycle.



Product Ordering Information



3M™ Cubitron™ 3 Fibre Disc 1182C

Product ID	Grade	Diameter (mm)	Max RPM	Unit/Case
7100309905	36+	100 × 16	15,300	25/100
7100308530	36+	115 × 22	13,300	25/100
7100308531	36+	125 × 22	12,250	25/100
7100309794	36+	180 × 22	8,500	25/100
NEW 7100349563	60+	100 × 16	15,300	25/100
NEW 7100349583	60+	115 × 22	13,300	25/100
NEW 7100349498	60+	125 × 22	12,250	25/100
NEW 7100349667	60+	180 × 22	8,500	25/100
NEW 7100349570	80+	100 × 16	15,300	25/100
NEW 7100349564	80+	115 × 22	13,300	25/100
NEW 7100349571	80+	125 × 22	12,250	25/100
NEW 7100349585	80+	180 × 22	8,500	25/100

3M™ Cubitron™ 3 Fibre Disc 1187C

Product ID	Grade	Diameter (mm)	Max RPM	Unit/Case
7100309798	36+	100 × 16	15,300	25/100
7100309789	36+	115 × 22	13,300	25/100
7100310794	36+	125 × 22	12,250	25/100
7100309795	36+	180 × 22	8,500	25/100
NEW 7100349572	60+	100 × 16	15,300	25/100
NEW 7100349586	60+	115 × 22	13,300	25/100
NEW 7100349581	60+	125 × 22	12,250	25/100
NEW 7100349679	60+	180 × 22	8,500	25/100
NEW 7100349573	80+	100 × 16	15,300	25/100
NEW 7100349587	80+	115 × 22	13,300	25/100
NEW 7100349590	80+	125 × 22	12,250	25/100
NEW 7100349663	80+	180 × 22	8,500	25/100

DISCS TECH TIP:

Keep discs in the closed, resealable foil bag to help maintain disc shape and quality when not in use.



3M™ High Pressure Fibre Disc Back Up Pads (Red) - 36+

Product ID	Diameter (mm)	Part Number	Max RPM	Density Rating
7000032410	125	64861	12,000	Extra Hard
7000032411	180	64862	8,500	Extra Hard

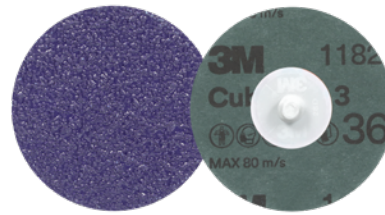
3M™ Fibre Disc Back Up Pads (Black) - 60+ & 80+

Product ID	Diameter (mm)	Part Number	Max RPM	Density Rating
7000008959	100	7312	15,200	Hard
7000105441	115	9583	13,200	Hard
7000105442	125	9584	12,000	Hard
7100016545	180	9921	8,500	Hard

PADS TECH TIP:

If higher performance (faster stock removal) is required when working on flat surfaces with grades: 60+ & 80+, use black ribbed or red ribbed.

Product Ordering Information

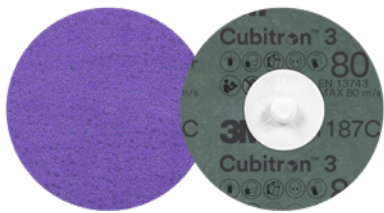


3M™ Cubitron™ 3 Roloc™ Durable Edge Disc 1184F

	Product ID	Diameter (mm)	Grade	Box/Case
NEW	7100331727	50	36+	50/200
NEW	7100331410	50	60+	50/200
NEW	7100332404	50	80+	50/200
NEW	7100331731	75	36+	50/200
NEW	7100331725	75	60+	50/200
NEW	7100332405	75	80+	50/200

3M™ Cubitron™ 3 Roloc™ Fibre Disc 1182C

	Product ID	Diameter (mm)	Grade	Unit/Case
NEW	7100332086	50	36+	50/200
NEW	7100332343	50	60+	50/200
NEW	7100332356	50	80+	50/200
NEW	7100332346	75	36+	50/200
NEW	7100332232	75	60+	50/200
NEW	7100332357	75	80+	50/200



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

	Product ID	Diameter (mm)	Grade	Unit/Case
NEW	7100331754	50	36+	50/500
NEW	7100331745	50	60+	50/200
NEW	7100331753	50	80+	50/200
NEW	7100331749	75	36+	50/200
NEW	7100332087	75	60+	50/200
NEW	7100332088	75	80+	50/200



3M™ Roloc™ Shank

Part Number	Shank Size	Thread Size	MOQ
45102	1/4"	1/4-20 EXT	5

Pads for Roloc™ discs

Product ID	Diameter (mm)	Attachment thread	Grade	Hardness
7000045286	38	1/4-20INT	36+ & 60+	Extra Hard or Hard*
7000045284	50	1/4-20INT		
7000045285	70	1/4-20INT		
7000045282	50	1/4-20INT	80+ & 120+	Medium or Hard*
7000000602	70	1/4-20INT		

*Ask for other dimensions availability.



3M™ Cubitron™ 3 Flap Disc 1169F

SAP ID	Shape	Grade	Diameter x Bore (mm)	Max RPM	Discs per Box/ Case
115mm					
7100379365	T29	40+	115 × 22.23	13,300	10
7100379507	T29	60+	115 × 22.23	13,300	10
7100379231	T29	80+	115 × 22.23	13,300	10
125mm					
7100379743	T29	40+	125 × 22.23	12,250	10
7100379654	T29	60+	125 × 22.23	12,250	10
7100379232	T29	80+	125 × 22.23	12,250	10
180mm					
7100379344	T29	40+	180 × 22.23	8,500	5
7100402380	T29	60+	180 × 22.23	8,500	5
7100400852	T29	80+	180 × 22.23	8,500	5



Sustainability matters to 3M Abrasives.

When you buy from the SEAM value chain, you are helping to build a sustainable future for our industry, for people and for the planet.

3M is a founding member of the SEAM abrasives manufacturers program and aligns to the world's highest standards of quality, safety and performance in a sustainable environment. We commit to transparency, accountability, innovation and progress.

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