



# Cubitron™ 3

Performance Abrasives

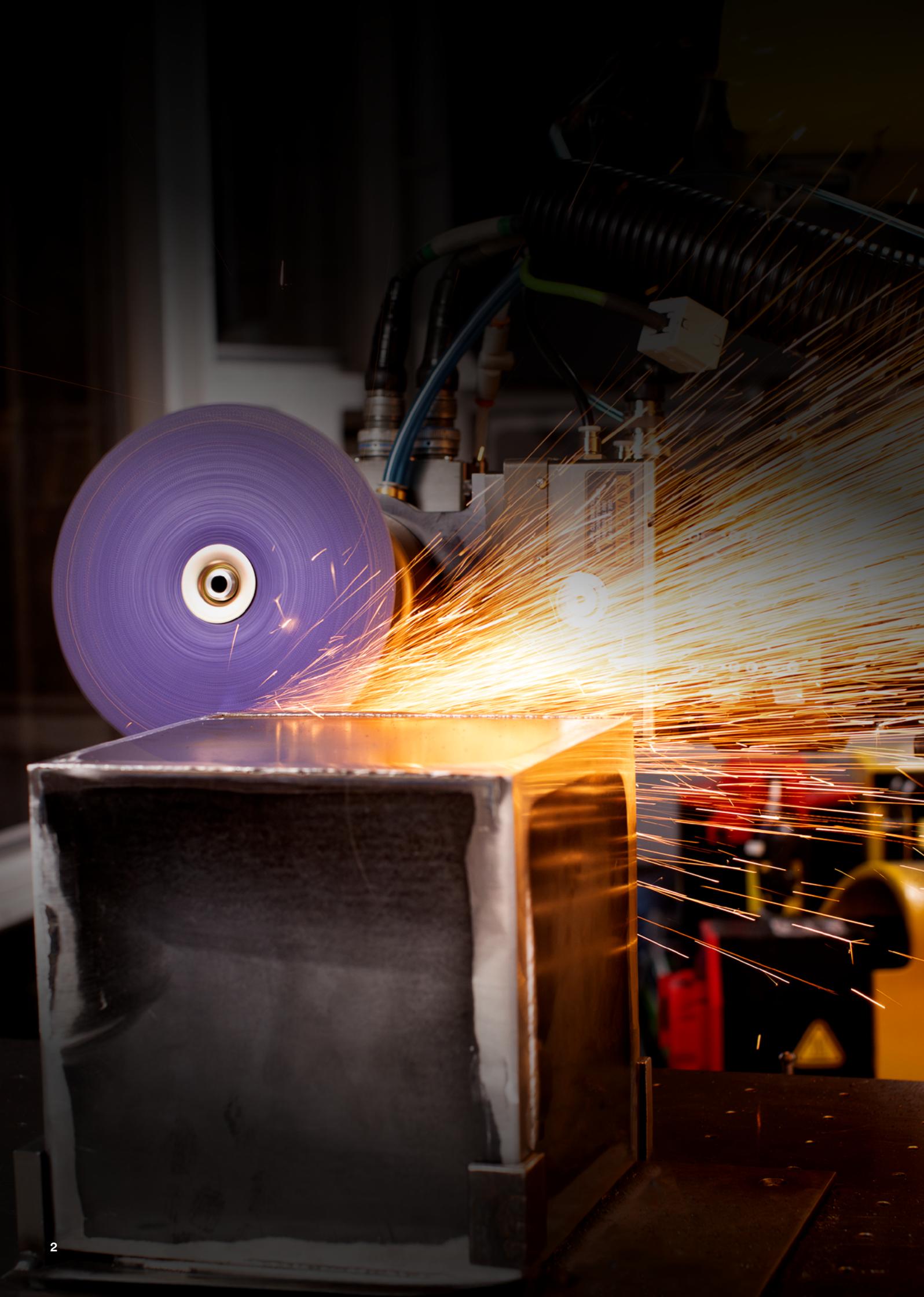
# Produce more. With less.

## 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.

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## 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

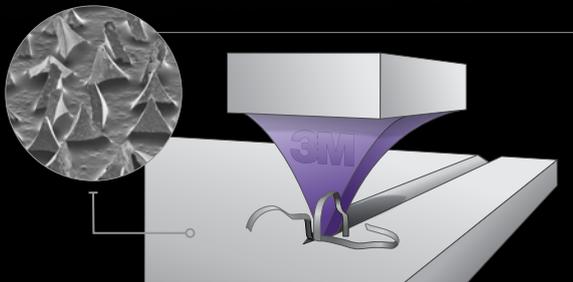
# 60%

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

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

## Enhanced mineral orientation

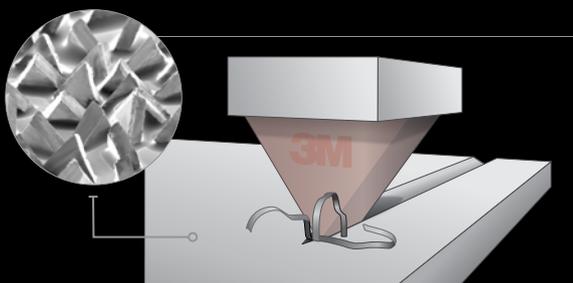
## Re-shaping the way work gets done.



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

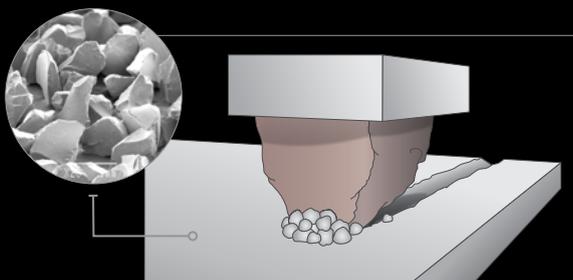
### Our latest 3M Precision-Shaped Grain

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.

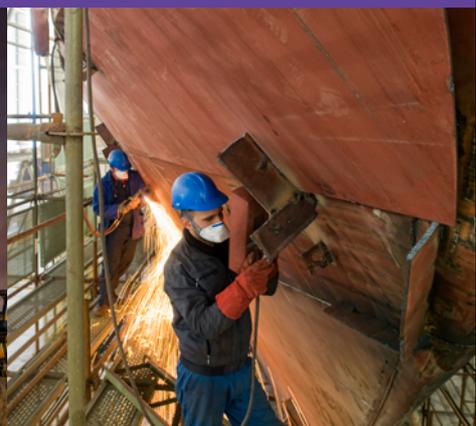
# 3M™ Cubitron™ 3 Fibre Discs 36+

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

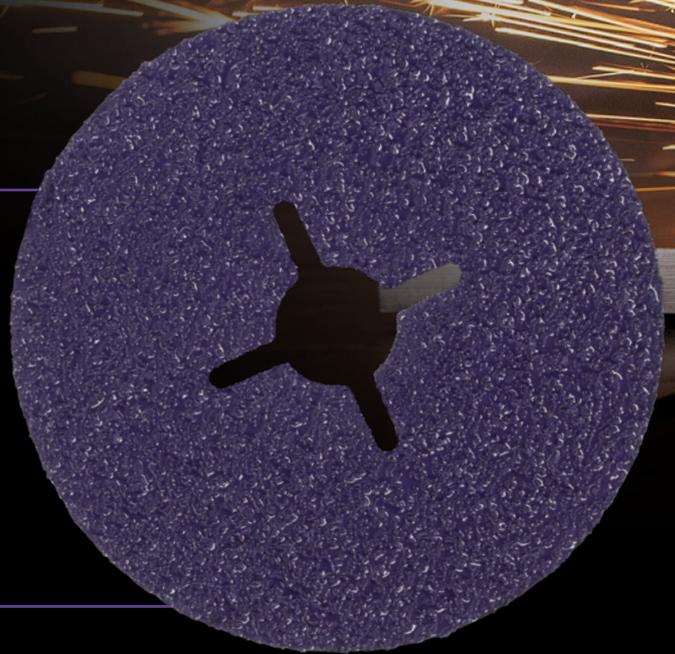


# Proven to change the game for your process.

## 3M™ Cubitron™ 3 Fibre Disc 1182C

Carbon steel grinding

Grade 36+



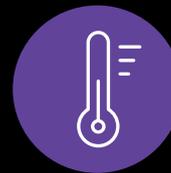
### More total material removed

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



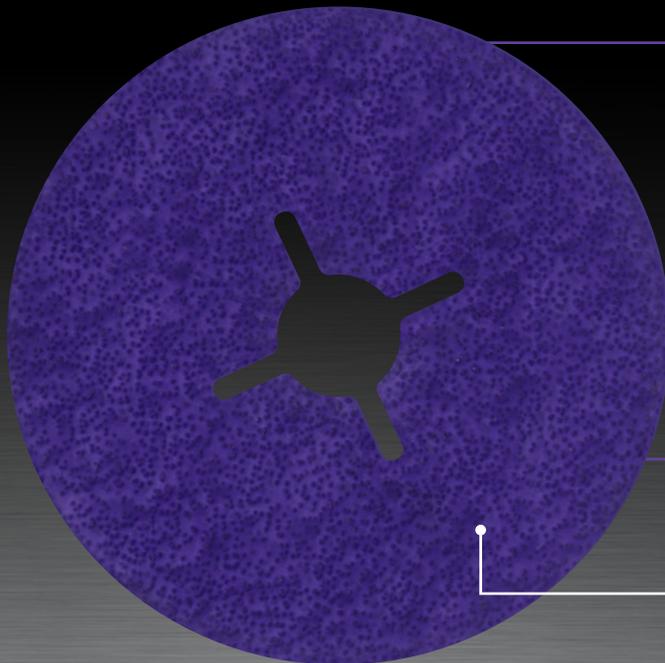
### Less vibration exposure

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

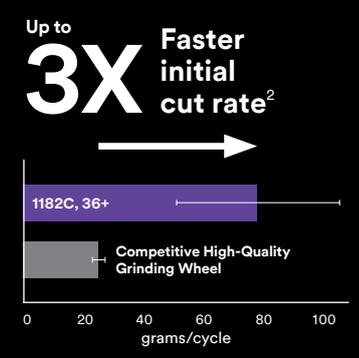
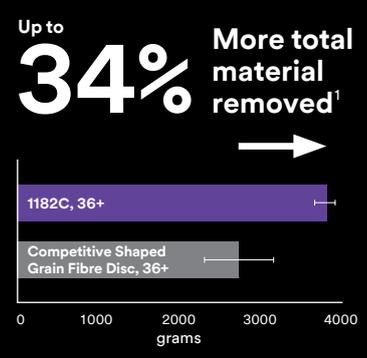
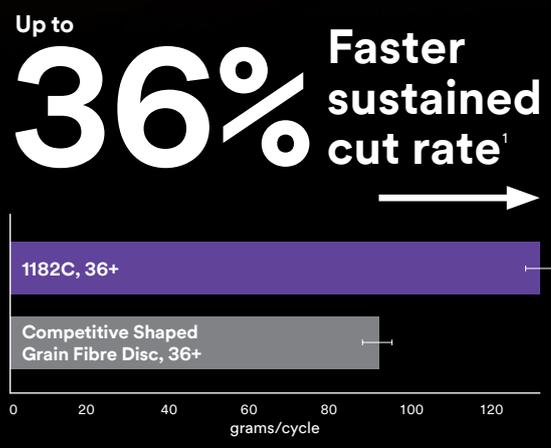
Reduces the risk of discoloration from thermal damage in heat sensitive metals



Grade 36+

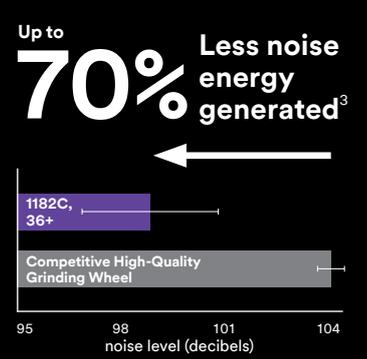
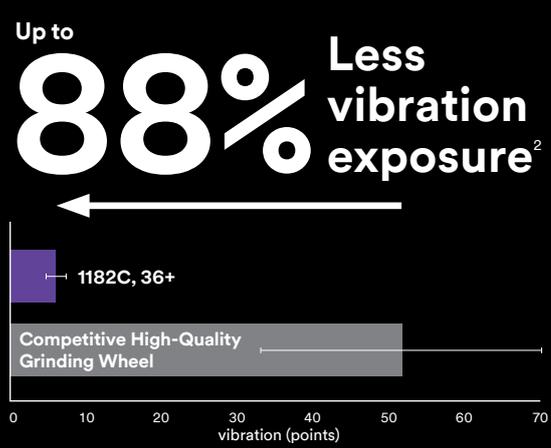
We tested 3M™ Cubitron™ 3 Fibre Disc 1182C, 36+ and here are the results:

**Productivity Delivered**



Helps improve workplace safety without compromising productivity.

**Safety Built In**



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

<sup>1</sup> 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.  
<sup>2</sup> 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. \*\*  
<sup>3</sup> 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.  
<sup>4</sup> 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.  
<sup>5</sup> 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%.

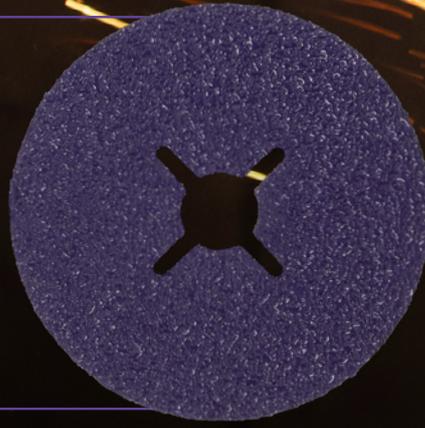
Independent hazards testing performed by:



# 3M™ Cubitron™ 3 Fibre Disc 1182C

Carbon steel grinding

Grades **60+ & 80+**

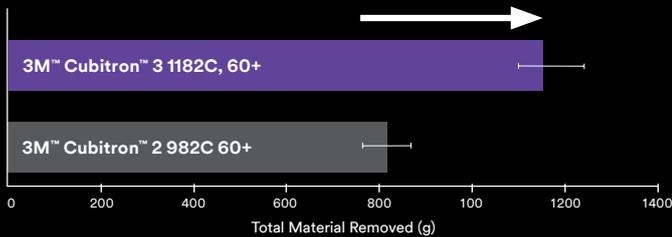


We tested 3M™ Cubitron™ 3  
Fibre Disc 1182C 60+ and 80+,  
and here are the results:

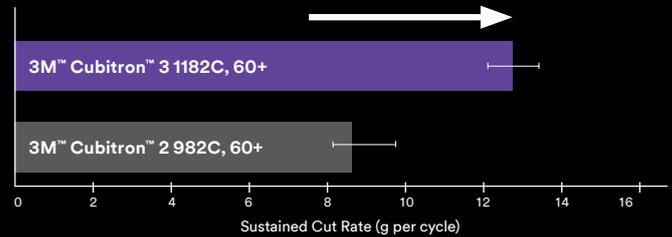
**Productivity  
Delivered**

## Grade 60+

Up to  
**38%** More total  
material  
removed<sup>1</sup>

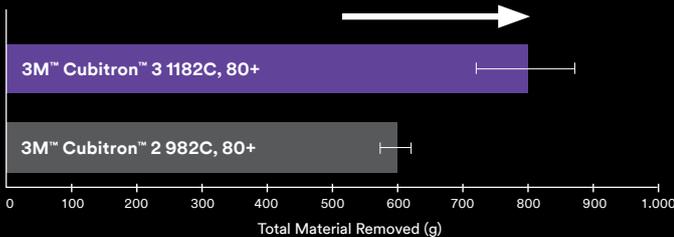


Up to  
**42%** Faster  
sustained  
cut rate<sup>2</sup>

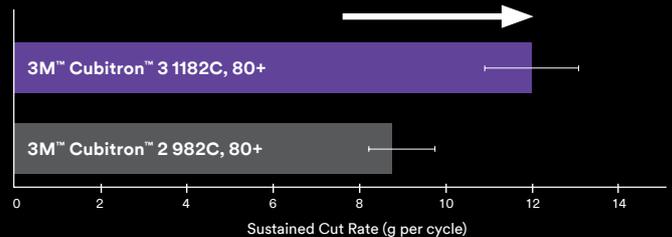


## Grade 80+

Up to  
**29%** More total  
material  
removed<sup>1</sup>



Up to  
**32%** Faster  
sustained  
cut rate<sup>2</sup>



**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+**

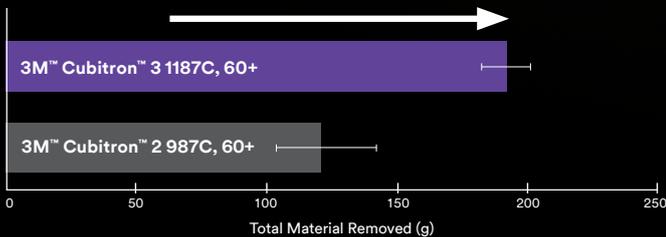


We tested 3M™ Cubitron™ 3  
Fibre Disc 1187C 60+ and 80+,  
and here are the results:

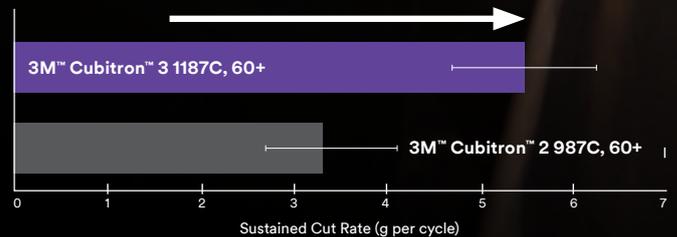
**Productivity  
Delivered**

## Grade 60+

Up to  
**57%** More total  
material  
removed<sup>1</sup>

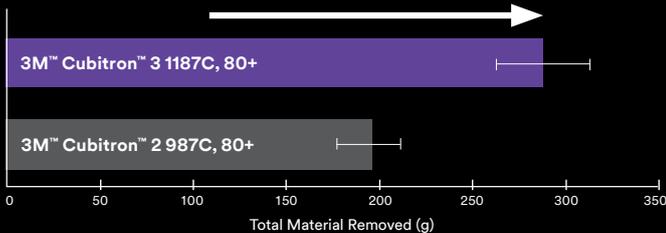


Up to  
**58%** Faster  
sustained  
cut rate<sup>2</sup>

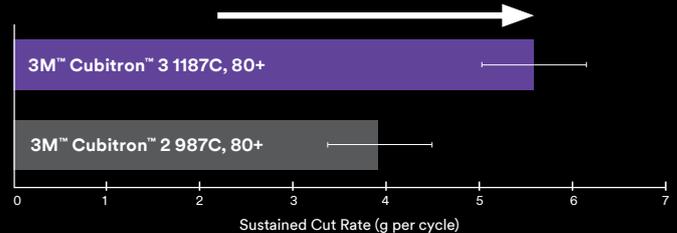


## Grade 80+

Up to  
**48%** More total  
material  
removed<sup>1</sup>



Up to  
**42%** Faster  
sustained  
cut rate<sup>2</sup>



**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

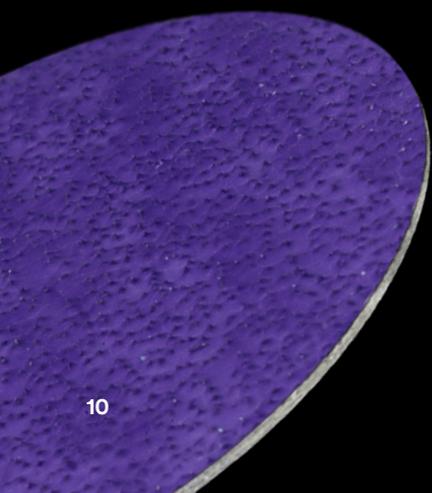
3M™ Roloc™ Abrasive Discs are smaller discs that quickly attach onto a Roloc™ disc pad so that you can conveniently and rapidly change discs as needed. Our system provides a secure attachment even for heavy-

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.

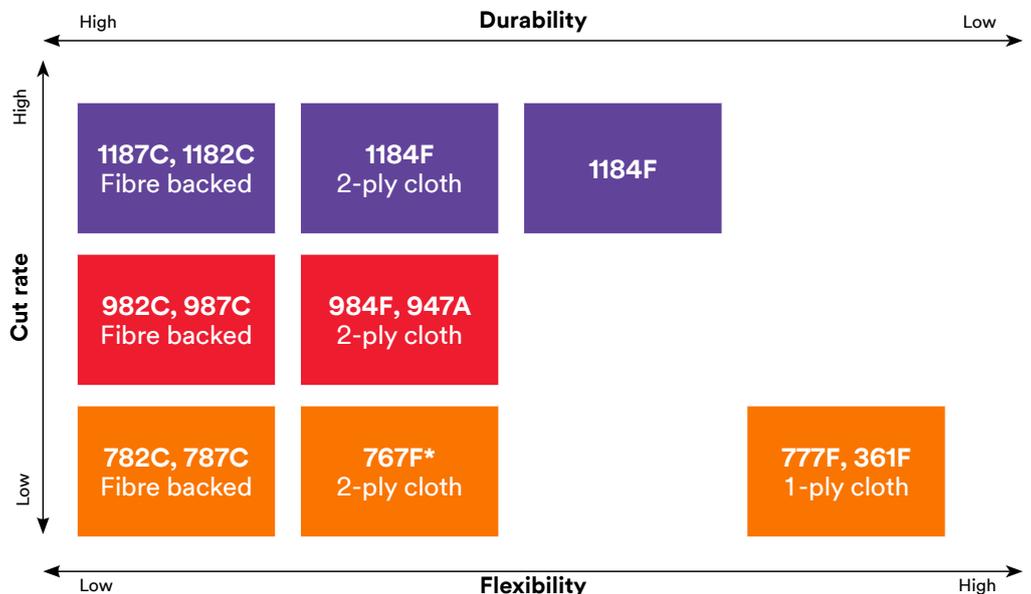
- ▶ Remote applications
- ▶ Retain extra control
- ▶ Localized, refining, finishing
- ▶ Corner or curved surfaces
- ▶ Intricate, difficult to reach areas
- ▶ Remove weld splatter on small areas



**Productivity  
Delivered**



## Grinding and stock removal





## 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™ Roloc™ Disc button color/grade guide

CB3 Fibre Disc	Color	Grade
1184F Durable edge	○ White	All*

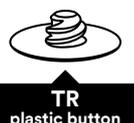
### 3M™ Roloc™ Attachment System

CB3 Fibre Disc	Size (in.)	TR	TSM	TS
1184F	1-1/2	●	●	
	2	●	●	
	3	●	●	
	4	●		●

\*Ask for other dimensions availability.

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

Disc size	Substrate			
	Carbon Steel	Stainless Steel	Titanium	Aluminium
1-1/2 in	30.000rpms	20.000rpms	9.000rpms	30.000rpms
2in	20.000rpms	15.000rpms	7.000rpms	20.000rpms
3in	15.000rpms	10.000rpms	4.500rpms	15.000rpms



# 3M™ Cubitron™ 3 Flap Discs 1169F Grades

40+, 60+ & 80+



## Maximizing productivity and flexibility

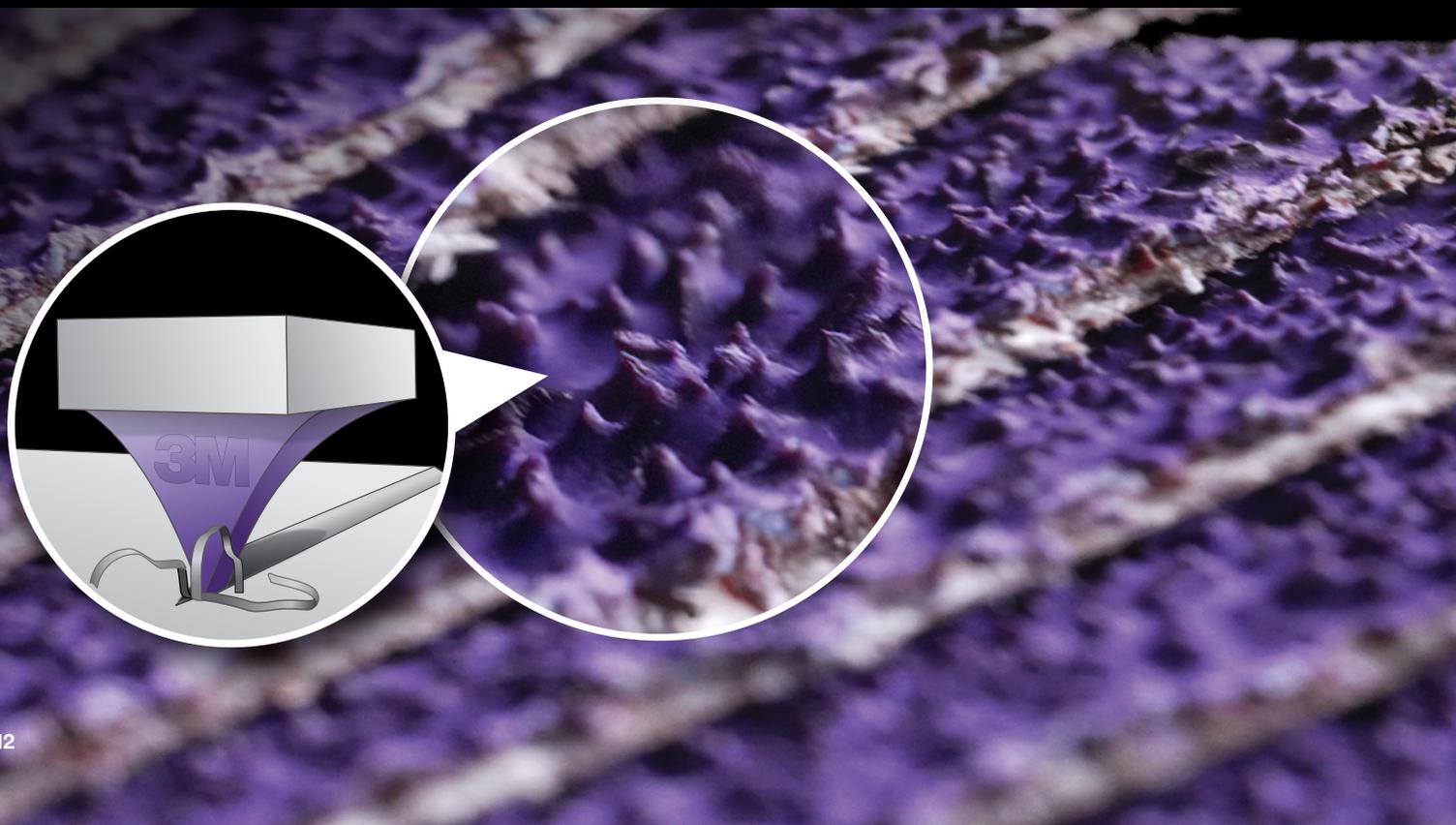
Powered by 3M re-engineered precision-shaped grain technology, the Cubitron 3 product line now includes flap discs available in grades 40+, 60+, 80+.

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

T27-Flat



For use at flatter angles: 0° – 15°



# 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

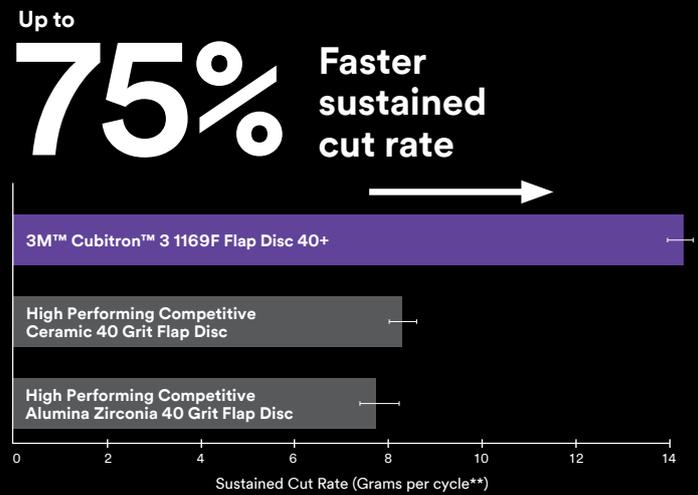
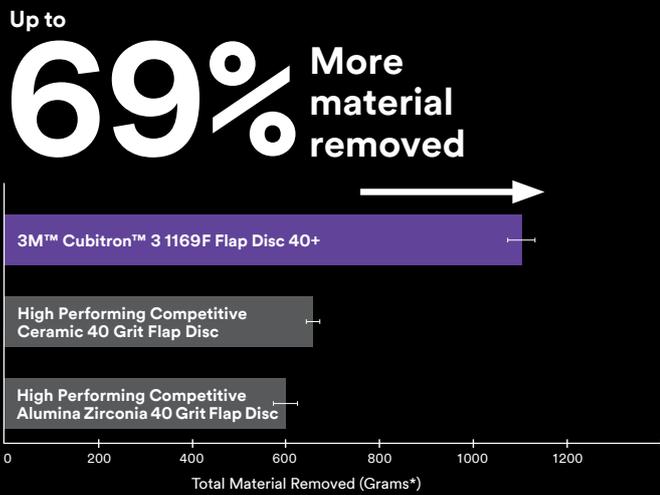
Finishing

# 3M™ Cubitron™ 3 Flap Disc 1169F

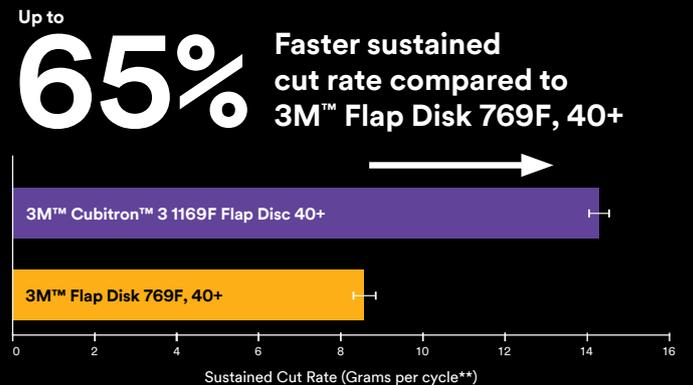
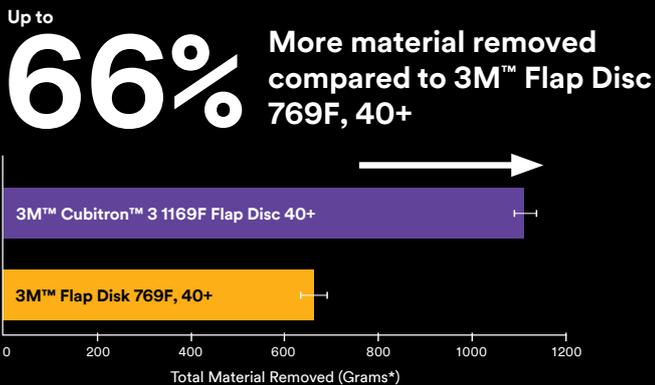
Carbon steel grinding Grade **40+**

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 the competition:



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



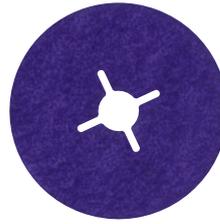
Note: Results are based on an automated, 37.5 minute, medium pressure test on 1045 steel using 4.5 inch 40 grit flap discs on a servo motor.

\* 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 (in)	Max RPM	Box/Case
7100309905	36+	100 × 16	15,300	25/100
7100309793	36+	5×7/8in	12,250	25/100
7100309904	36+	7×7/8in	8,500	25/100
<b>NEW</b> 7100349563	60+	100 × 16	15,300	25/100
<b>NEW</b> 7100349588	60+	5 × 7/8in	12,250	25/100
<b>NEW</b> 7100349579	60+	7 × 7/8in	8,500	25/100
<b>NEW</b> 7100349570	80+	100 × 16	15,300	25/100
<b>NEW</b> 7100349603	80+	5 × 7/8in	12,250	25/100
<b>NEW</b> 7100349578	80+	7 × 7/8	8,500	25/100

## 3M™ Cubitron™ 3 Fibre Disc 1187C

Product ID	Grade	Diameter (in)	Max RPM	Box/Case
7100309798	36+	100 × 16	15,300	25/100
7100309791	36+	4 × 5/8in	13,300	25/100
7100308532	36+	5 × 7/8in	12,250	25/100
<b>NEW</b> 7100309906	36+	7 × 7/8	10,200	25/100
<b>NEW</b> 7100349572	60+	100 × 16	15,300	25/100
<b>NEW</b> 7100349499	60+	5 × 7/8	12,250	25/100
<b>NEW</b> 7100349566	60+	7 × 7/8	8,500	25/100
<b>NEW</b> 7100349573	80+	100 × 16	15,300	25/100
<b>NEW</b> 7100349604	80+	5 × 7/8in	12,250	25/100
<b>NEW</b> 7100349567	80+	7 × 7/8in	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™ Fibre Disc Back-up Pad

Hard Red Grade 36+

Product ID	Diameter (mm)	Part Number	Max RPM	Box/Case
7000032409	115	64860	13,300	10/10
7000032410	125	64861	12,000	10/10
7100242134	150	64829	10,200	15/15
7000032411	180	64862	8,500	15/15

### 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

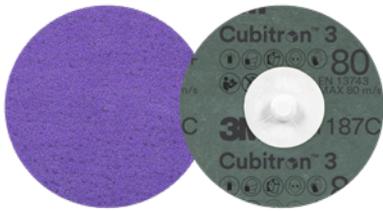


## 3M™ Cubitron™ 3 Roloc™ Durable Edge Disc 1184F

	Product ID	Diameter (in)	Grade	Box/Case
NEW	7100331411	1-1/2	36+	50/200
NEW	7100332562	1-1/2	60+	50/200
NEW	7100331726	1-1/2	80+	50/200
NEW	7100331727	2	36+	50/200
NEW	7100331410	2	60+	50/200
NEW	7100332404	2	80+	50/200
NEW	7100331731	3	36+	50/200
NEW	7100331725	3	60+	50/200
NEW	7100332405	3	80+	50/200

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

	Product ID	Diameter (in)	Grade	Box/Case
NEW	7100332086	2	36+	50/200
NEW	7100332343	2	60+	50/200
NEW	7100332356	2	80+	50/200
NEW	7100332346	3	36+	50/200
NEW	7100332232	3	60+	50/200
NEW	7100332357	3	80+	50/200



## 3M™ Cubitron™ 3 Fibre Disc 1187C

	Product ID	Grade	Diameter (in)	Max RPM	Box/Case
NEW	7100332836	60+	1-1/2	15,300	50/200
NEW	7100331754	36+	2	13,300	50/200
NEW	7100331745	60+	2	12,250	50/200
NEW	7100331753	80+	2	10,200	50/200
NEW	7100331749	36+	3	15,300	50/200
NEW	7100332087	60+	3	12,250	50/200
NEW	7100332088	80+	3	8,500	50/200
NEW	7100332089	80+	4	15,300	50/200

\*Ask for other dimensions availability.

## Pads for Roloc™ discs

Product ID	Diameter (in.)	Attachment thread	Grade	Hardness
7000045286	1-1/2	1/4-20INT	36+	Extra Hard or Hard*
7000045284	2	1/4-20INT		
7000045285	3	1/4-20INT		
7000045692	4	M14-2		
7000000441	2	1/4-20INT	60+	Hard
7100002305	3	1/4-20INT		
7000028376	4	M14-2		
7000045280	1-1/2	1/4-20INT	80+ & 120+	Medium or Hard*
7000045282	2	1/4-20INT		
7000000602	3	1/4-20INT		
7000045695	4	M14-2		



## 3M™ Cubitron™ 3 Flap Disc 1169F

SAP ID	Parts No.	Shape	Grade	Diameter x Bore (mm)	Max RPM	Discs per Box/Case
100mm						
7100406011	12694	T27	40+	100 × 16	15,300	10/100
7100406256	12710	T27	60+	100 × 16	15,300	10/100
7100406127	12724	T27	80+	100 × 16	15,300	10/100



## 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.

When buying from the SEAM value chain, customers are helping to build themselves a sustainable future.



Sustainable European Abrasive Manufacturers

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