



Cubitron™ 3
Performance Abrasives

Produce more. With less.

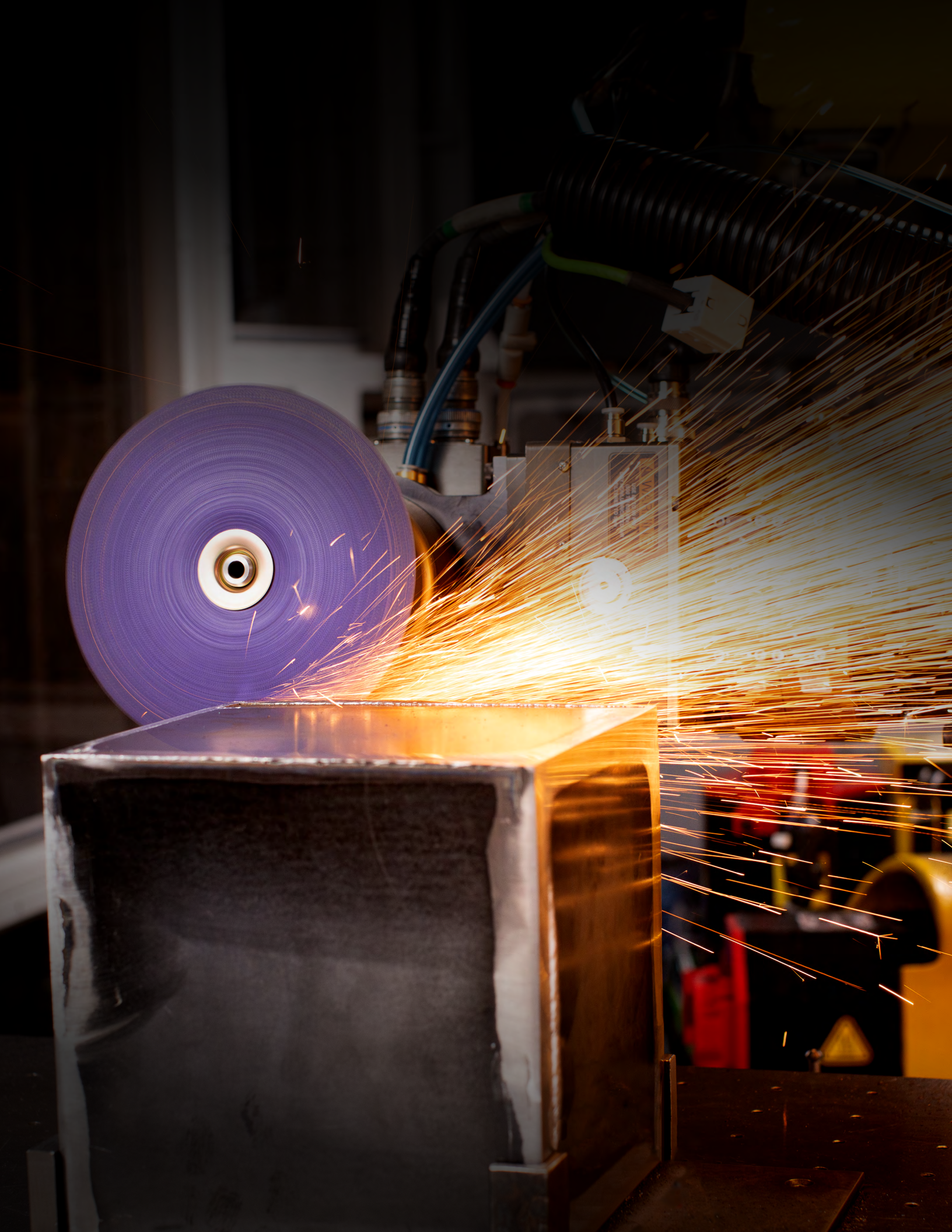
3M™ Cubitron™ 3 Fibre Discs and Roloc™

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



**Now 36+, 60+ and 80+
grades available!**

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





Produce more. With less.

3M™ Cubitron™ 3 Fibre Discs and Roloc™

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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 prioritizes operator safety, maximizes sustainability, and amplifies time and labor efficiency.

3M™ Cubitron™ 3 Fibre Disc 1182C, 36+

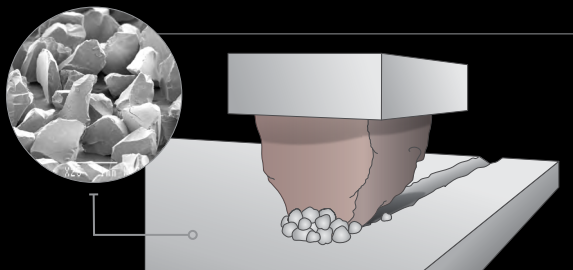
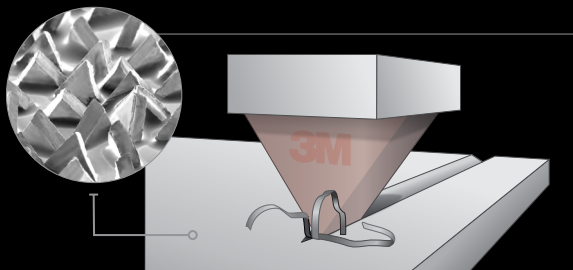
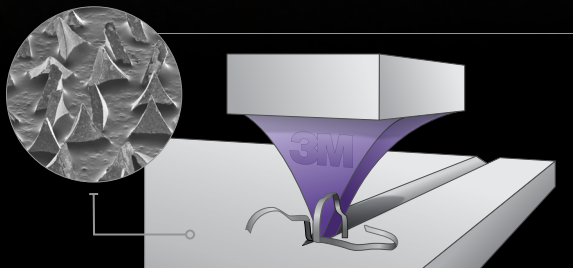
Up to

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.



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 our latest precision-shaped grain.

Ideal for heavy grinding applications.

By using long-lasting, fast-cutting 3M™ Cubitron™ 3 Performance Abrasives, you can minimize abrasive changeover to help save money over time. Stiff fiber 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

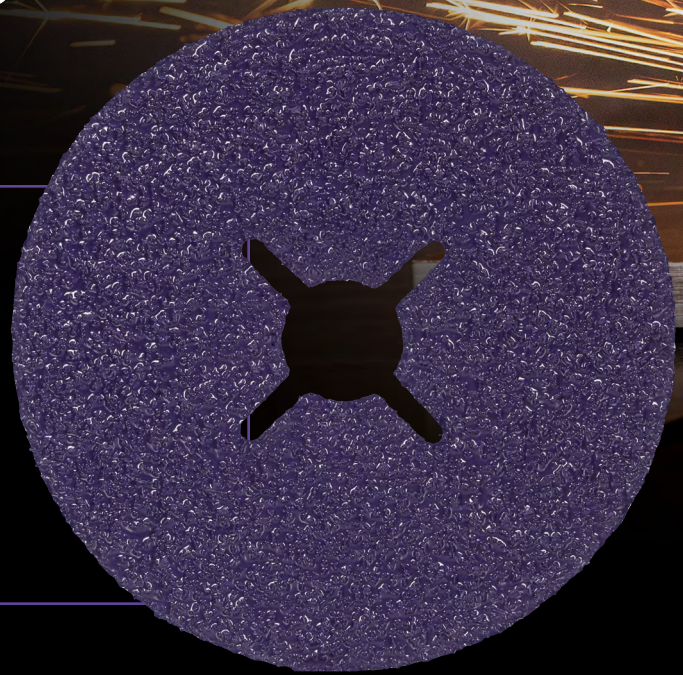


Proven to change the game for your process.

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



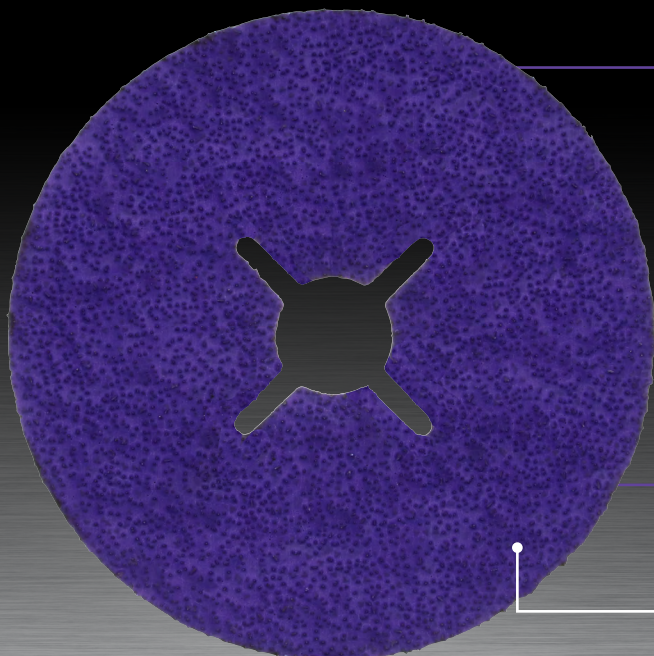
Less vibration exposure

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

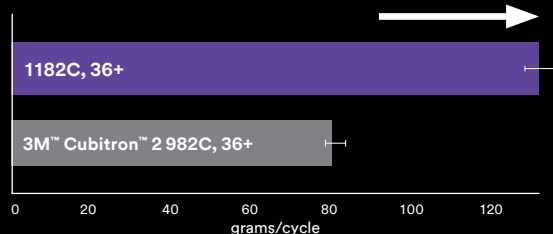
Reduces the risk of discoloration
from thermal damage in heat
sensitive metals

Grade 36+

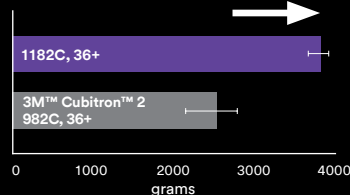
We tested 3M™ Cubitron™ 3 Fibre Disc 1182C, 36+ and here are the results:

Productivity
Delivered

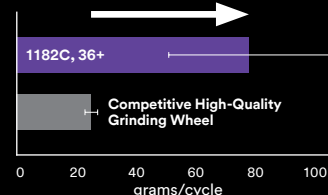
Up to
36% Faster
sustained
cut rate¹



Up to
34% More total
material
removed¹



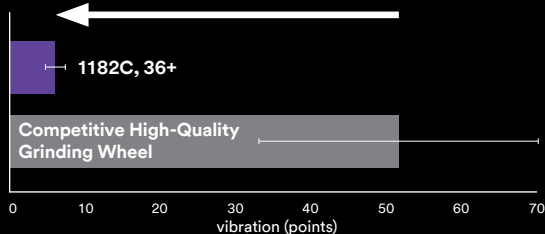
Up to
3X Faster
initial
cut rate²



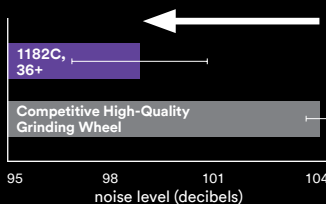
Helps improve workplace safety without
compromising productivity.

Safety
Built In

Up to
88% Less
vibration
exposure²



Up to
70% Less noise
energy
generated³



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

¹ Compared to 3M™ Cubitron™ 2 982C, 36+. Results are based on an automated, 30-minute, high pressure test on O18 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 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%.

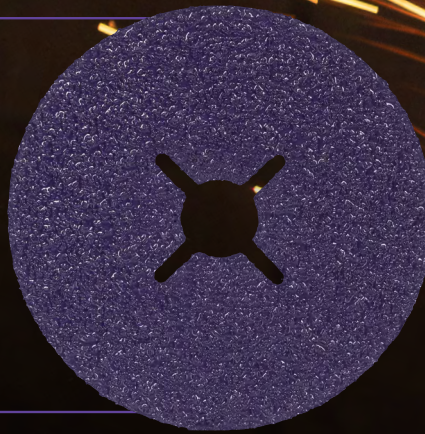
Independent hazards testing performed by:

 **Fraunhofer**

3M™ Cubitron™ 3 Fibre Disc 1182C

Carbon steel grinding

Grades 60+ & 80+



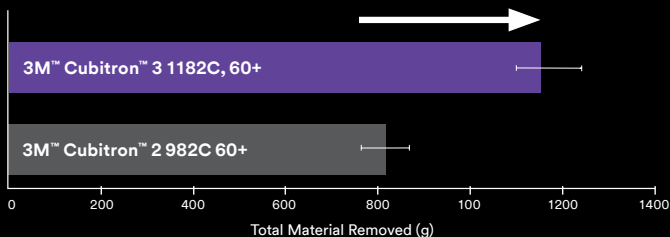
NEW!

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

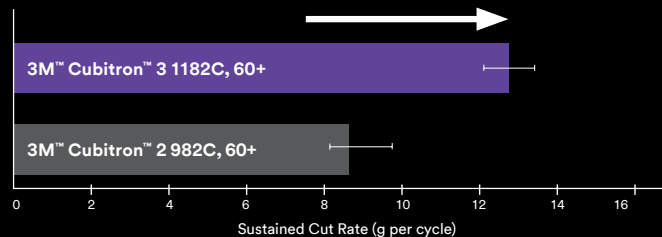
**Productivity
Delivered**

Grade 60+

Up to
38% More total
material
removed¹

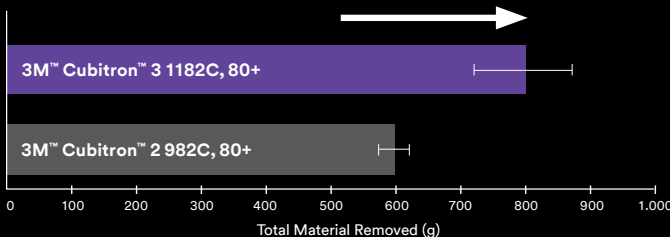


Up to
42% Faster
sustained
cut rate²

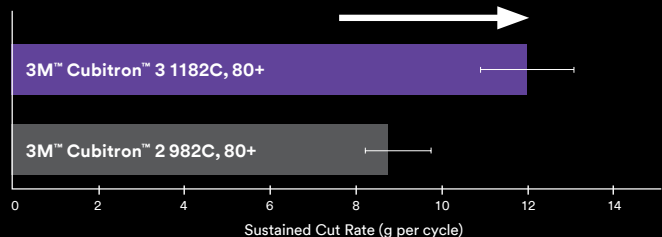


Grade 80+

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+

NEW!

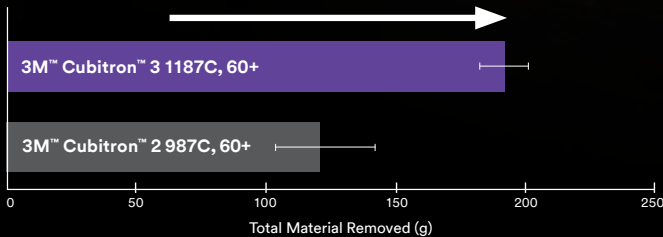


We tested 3M™ Cubitron™ 3
Fibre Disc 1187C 60+ and 80+,
and here are the results:

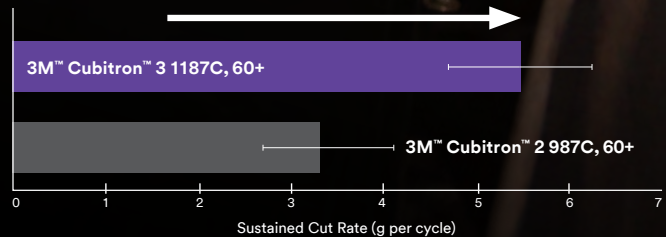
**Productivity
Delivered**

Grade 60+

Up to
57% More total
material
removed¹

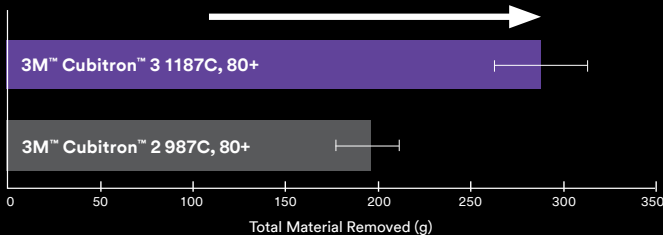


Up to
58% Faster
sustained
cut rate²

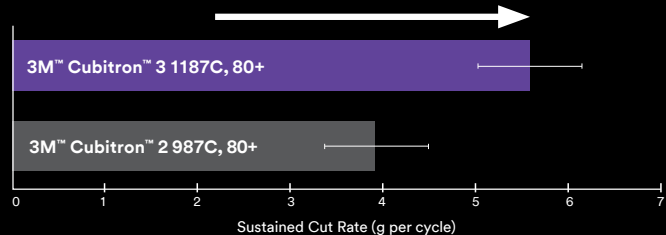


Grade 80+

Up to
48% More total
material
removed¹



Up to
42% Faster
sustained
cut rate²



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

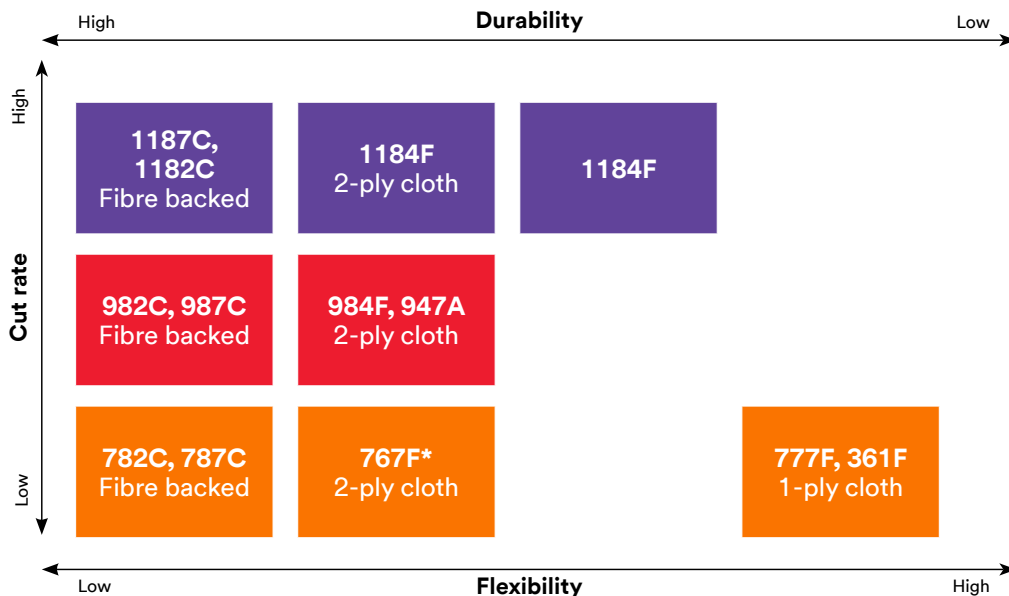
3M™ Roloc™ Abrasive Discs are smaller discs that quickly attach onto a Roloc™ disc pad so that you can conveniently and rapidly change discs as needed. Our system provides a secure attachment

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



NEW!

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* |

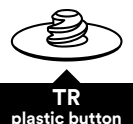
3M™ Roloc™ Attachment System

| 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

| Substrate | | | | |
|-----------|--------------|-----------------|-----------|------------|
| Disc size | 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 |



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 |
| NEW | 7100349563 | 60+ | 100 × 16 | 15,300 | 25/100 |
| NEW | 7100349588 | 60+ | 5 × 7/8in | 12,250 | 25/100 |
| NEW | 7100349579 | 60+ | 7 × 7/8in | 8,500 | 25/100 |
| NEW | 7100349570 | 80+ | 100 × 16 | 15,300 | 25/100 |
| NEW | 7100349603 | 80+ | 5 × 7/8in | 12,250 | 25/100 |
| NEW | 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 |
| | 7100309906 | 36+ | 7 × 7/8 | 10,200 | 25/100 |
| NEW | 7100349572 | 60+ | 100 × 16 | 15,300 | 25/100 |
| NEW | 7100349499 | 60+ | 5 × 7/8 | 12,250 | 25/100 |
| NEW | 7100349566 | 60+ | 7 × 7/8 | 8,500 | 25/100 |
| NEW | 7100349573 | 80+ | 100 × 16 | 15,300 | 25/100 |
| NEW | 7100349604 | 80+ | 5 × 7/8in | 12,250 | 25/100 |
| NEW | 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

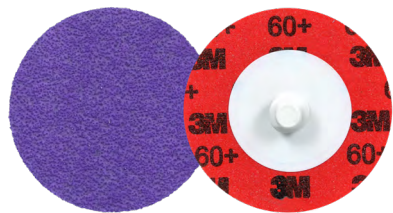
Hard Red Grade 36+

| 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 |

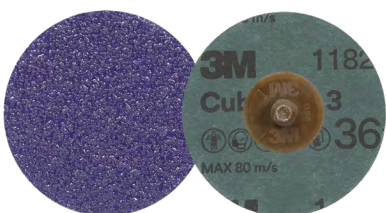
PADS TECH TIP:

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

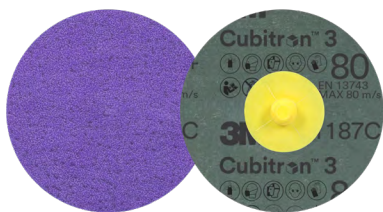
Product Ordering Information



| 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 |

| 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 | | |

*Ask for other dimensions availability.



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

Find out more at
www.seam.earth



Get the discs that get more done at go.3m.com/FibreDiscsSG



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Watch Video



go.3m.com/FibreDiscVideoSG

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