



Produce more. With less.

3M[™] Cubitron[™] 3 Fibre Discs

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

3M[™] Cubitron[™] 3 Fibre Discs 1182C, 36+ and 1187C, 36+

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.

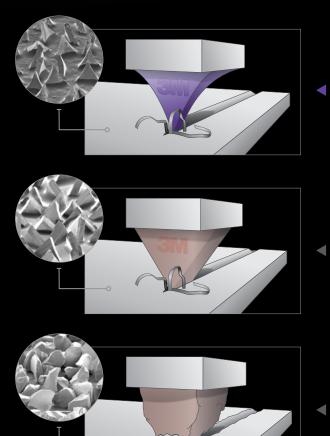
3M[™] Cubitron[™] 3 Fibre Disc 1182C, 36+

^{Up to}

→ 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.



Cubitr ↑n[™] 3 Performance Abrasives

Our latest 3M Precision-Shaped Grain

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

3M Precision-Shaped Grain

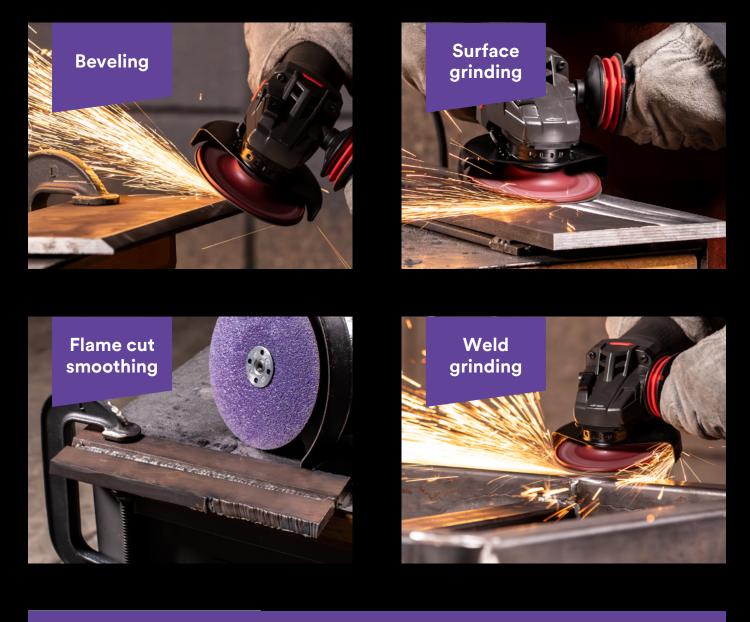
3M pioneered the first precision-shaped grain using 3M microreplication technology to form consistent sharp peaks that easily "slice" through metal—cutting cooler, faster, and lasting longer than conventional abrasive grain.

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 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



3M[™] Cubitron[™] 3 Fibre Disc 1182C, 36+

Faster cut rate

Long lasting and faster cutting fibre discs help increase productivity and your bottom line

Total material removed

Fewer changeouts needed and less downtime

Less operator fatigue

Designed to cut with less pressure

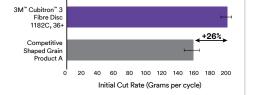




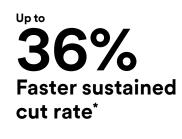


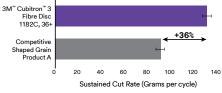
Mild steel grinding

26% Faster initial cut rate^{*}

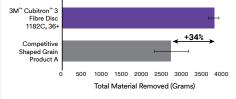


Mild Steel: the 'initial cut rate' claim is determined from averaging the cut/cycle from cycles 1–2 (first two minutes of grinding). Each cycle on the test method is 1 minute of grinding time. Error bars represent the results with a 95% confidence level.





Mild Steel: the 'sustained cut rate' claim is determined from averaging the cut/cycle from cycles 7–20 (which is 14 minutes of grinding). Error bars represent the results with a 95% confidence level. **34%** More total material removed^{*}



Mild Steel: the 'total material removed' claim is determined by averaging the amount of metal ground over the entire test method (30 cycles or 30 minutes of grinding). Error bars represent the results with a 95% confidence level.

3M[™] Cubitron[™] 3 Fibre Disc 1187C, 36+

Faster cut rate

Long lasting and faster cutting fibre discs help increase productivity and your bottom line

Total material removed

Fewer changeouts needed and less downtime

Less operator fatigue

Designed to cut with less pressure

Grinding aid

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

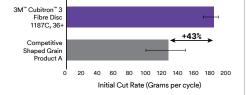




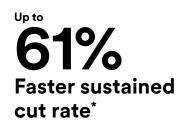


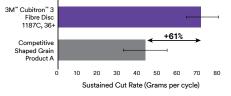
Stainless steel grinding

43% Faster initial cut rate^{*}



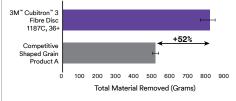
Stainless Steel: the 'initial cut rate' claim is determined from averaging the cut/cycle from cycles 1–2 (first two minutes of grinding). Each cycle on the test method is 1 minute of grinding time. Error bars represent the results with a 95% confidence level.





Stainless Steel: the 'sustained cut rate' claim is determined from averaging the cut/cycle from cycles 3–6 (which is 4 minutes of grinding). Error bars represent the results with a 95% confidence level.

52% More total material removed^{*}



Stainless Steel: the 'total material removed' claim is determined by averaging the amount of metal ground over the entire test method (10 cycles or 10 minutes of grinding). Error bars represent the results with a 95% confidence level.

Get more value from your automation investment.



There are many reasons to invest in automating your abrasive processes: improvement gains in productivity; increase in consistency, quality and safety; an answer to your labor shortage. And to ensure maximized ROI from your investment, the best path comes from automating correctly from the start. That's where 3M products and engineering expertise come in.

The limitations of manual operation.

Manual operators are constrained by the amount of force they can apply and the angles they can hold a tool. Automation removes many of these constraints, working consistently and repeatedly at targeted angles and an optimized level of force and speed. A robot however, is still constrained by the abrasives it's running.



The vital importance of the right abrasives and process parameters in automation.

To realize the full ROI on your automation investment, you want to optimize your abrasive products and parameters for these four key elements:

- Uptime: Determined by abrasive life and full utilization of abrasive, change-over frequency is a key factor here.
- Throughput: Determined by abrasive performance, faster processing leads to more part throughput.
- Consistency: Determined by performance through the life of the abrasive product, resulting in increased finished good quality and less change over.
- Efficiency: 3M Robotic Application Engineers can help design a process that utilizes the full width of the abrasive. Reducing abrasive waste and cost.

At 3M, we have a deep understanding of the factors that affect an automated abrasive process. Our 100+ years of abrasive experience and 35+ years of abrasive automation experience is accessible through our Technical Experts, our 17 Global Proof of Concept automation labs, and deployed into how we engineer our products.

Products engineered with automation in mind.

3M[™] Cubitron[™] 3 Performance Abrasives elevate product life, cut rate, and wear consistency. This enhances processes that are already automated or increases the appeal of automating current manual ones.

Start your journey with 3M.

We know abrasive automation. We start with your part requirements in mind and offer consultation on the entire cell system; including recommendations on hardware and software, connections to partners in our 3M System Integrator Network, and running proof of concept projects in our labs; to meet the needs of your process.

Product Ordering Information

3M [™] Cubitron [™] 3 Fibre Disc 1182C, Grade 36+					
Product	Product ID	Diameter (mm)	Max RPM	Box/Case	
X	60440613077	100 × 16	15,000	25/100	
	60440613085	115 × 22	13,300	25/100	
	60440613093	125 × 22	12,250	25/100	
	60440613119	180 × 22	8,500	25/100	

3M [™] Cubitron [™] 3 Fibre Disc 1187C, Grade 36+					
Product	Product ID	Diameter (mm)	Max RPM	Box/Case	
X	60440613234	100 × 16	15,300	25/100	
	60440613242	115 × 22	13,300	25/100	
	60440613259	125 × 22	12,250	25/100	
	60440613275	180 × 22	8,500	25/100	

3M [™] High Pressure Fibre Disc Back Up Pads (Red)					
Product	Product ID	Diameter (mm)	Part Number	Max RPM	Density Rating
	DE272923777	125	64861	12,000	Extra Hard
	DE272923785	180	64862	8,500	Extra Hard

3M [™] Fibre Disc Back Up	Pads (Black)				
Product	Product ID	Diameter (mm)	Part Number	Max RPM	Density Rating
	XC003410104	100	07312	15,200	Hard
	XC003410039	115	09583	13,200	Hard
	XC003410047	125	09584	12,000	Hard
	DC272921404	180	09921	8,500	Hard

TECH TIP:

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

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.



Find out more at www.seam.earth



Get the discs that get more done at go.3M.com/FibreDiscsAU



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Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (eg., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injuny, sickness, death, and/or harm to properly. Disclaimer: 3M industrial and occupational products are intended, labeled, or packaged for sale to ruse by consumers (e.g., for home, personal, primary or secondary school, recreational/ sporting, or other uses not described in the applicable product packaging or literature, is and ruse in atomated, labeled, use (JSC) SHA, ANSI, sevell as all product therature, user instructions, warnings, and other limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injuny, sickness, death, or property damage. For help with product Selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com. Warranty and Limited Remedy: Unless a different warranty is specifically stated on the applicable SM product packaging or product life 3M product does not conform to his warranty, then the sole advolusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. Limitation of Libibiity: Except for the limited ackulsive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. Limitation of Libibiity: Except for the limited advolus, are used ackulsive, enserit, including, but not lim

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