3M | 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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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%

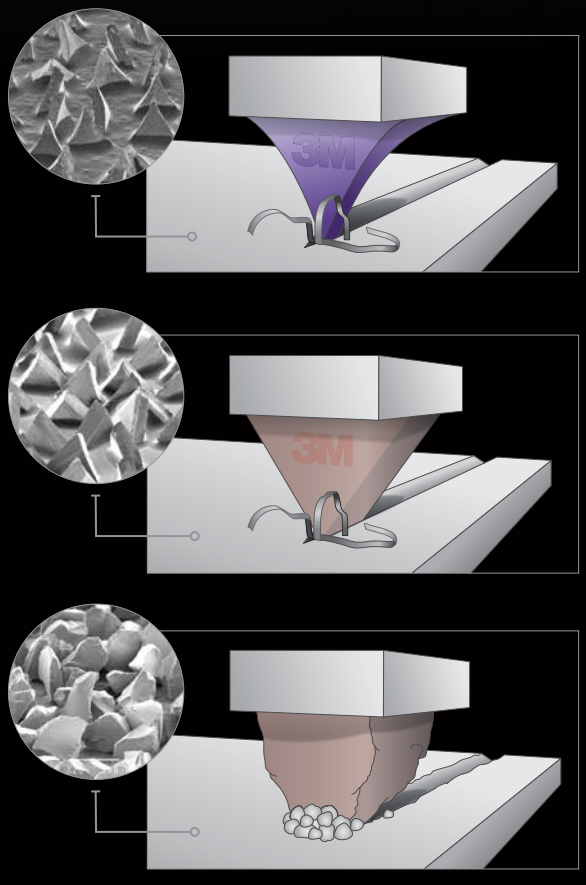
→ **Faster sustained cut rate**
→ **More total material removed**

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

Enhanced mineral orientation

Re-shaping the way work gets done.

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

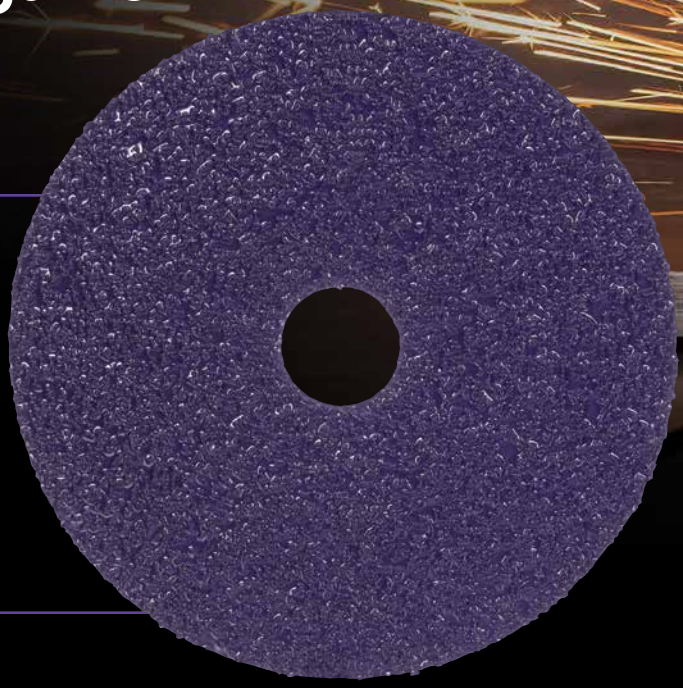


Proven to change the game for your process.

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.

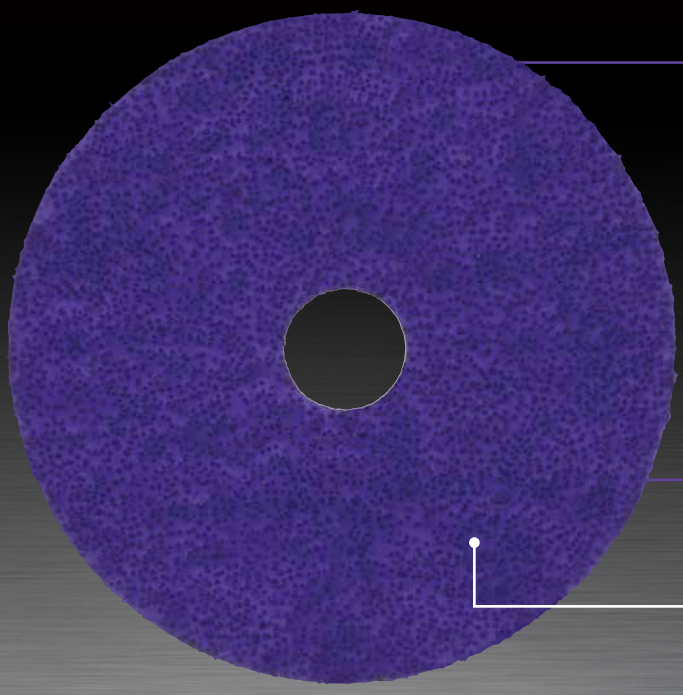
Less operator fatigue
Prioritize workplace wellbeing and motivation with less pressure required on the tool.

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.

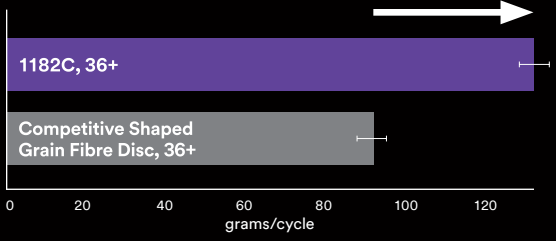


Grade 36+

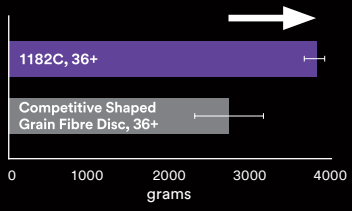
We tested 3M™ Cubitron™ 3 Fibre Disc 1182C, 36+ and here are the results:

Productivity Delivered

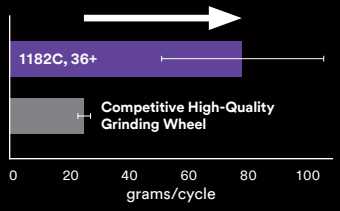
Up to **36%** **Faster sustained cut rate**[1]



Up to **34%** **More total material removed**[1]



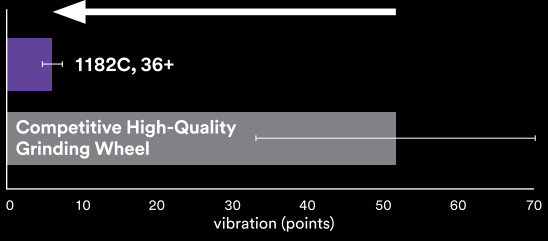
Up to **3X** **Faster initial cut rate**[2, 5]



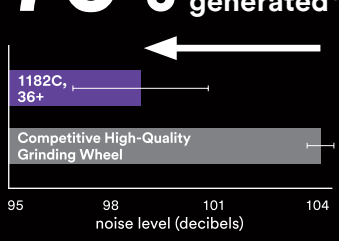
Helps improve workplace safety without compromising productivity.

Safety Built In

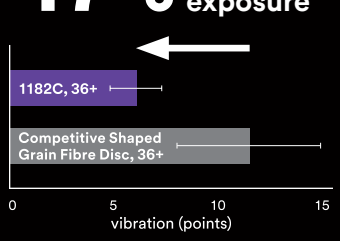
Up to **88%** **Less vibration exposure**[2, 5]



Up to **70%** **Less noise energy generated**[3, 5]



Up to **47%** **Less vibration exposure**[4]



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%.

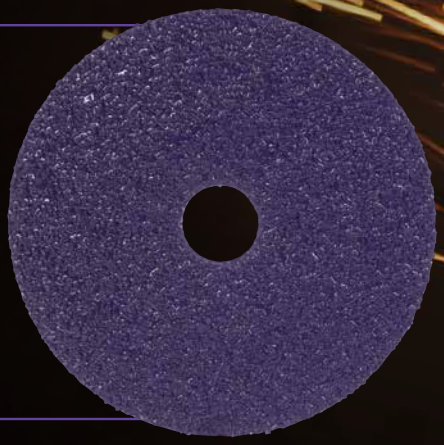
Independent hazards testing performed by:

Fraunhofer

3M™ Cubitron™ 3 Fibre Disc 1182C

Carbon steel grinding

Grades 60+ & 80+

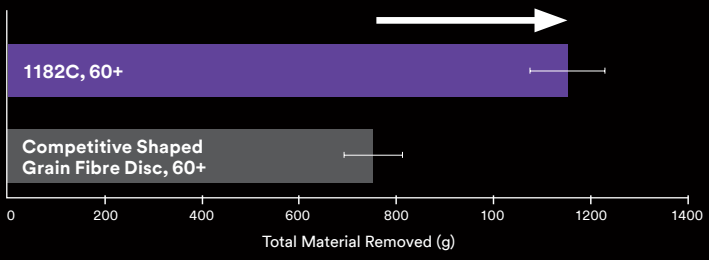


We tested 3M™ Cubitron™ 3 Fibre Disc 1182C 60+ and 80+, and here are the results:

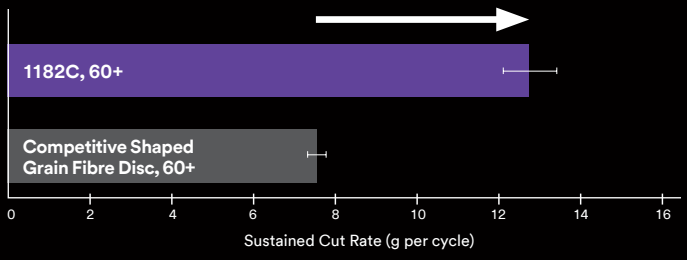
Productivity Delivered

Grade 60+

Up to **53%** More total material removed[1]

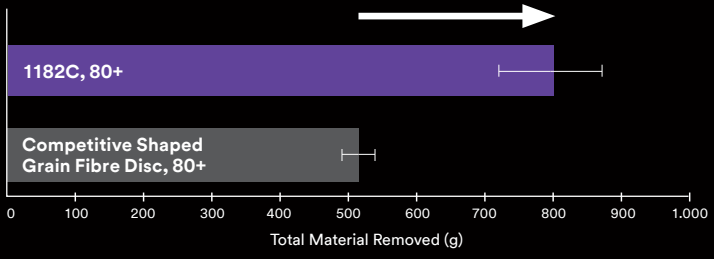


Up to **69%** Faster sustained cut rate[2]

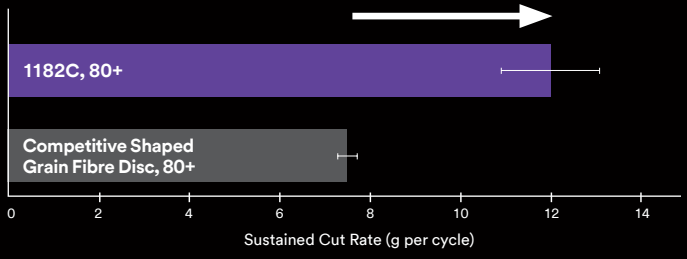


Grade 80+

Up to **55%** More total material removed[1]



Up to **60%** Faster sustained cut rate[2]



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+ & 120+

NOW AVAILABLE

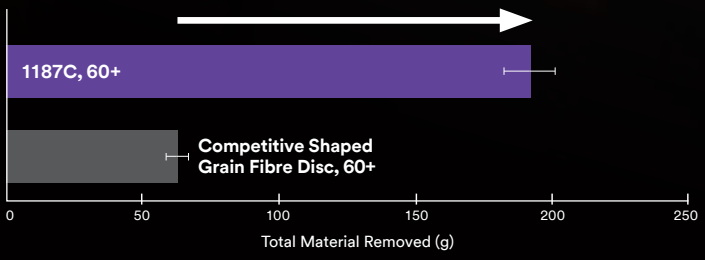


We tested 3M™ Cubitron™ 3 Fibre Disc 1187C 60+ and 80+, and here are the results:

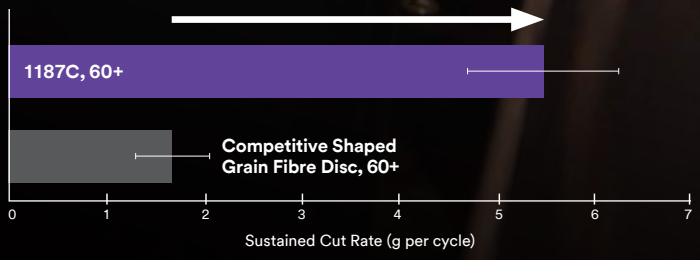
Productivity Delivered

Grade 60+

Up to **207%** More total material removed[1]

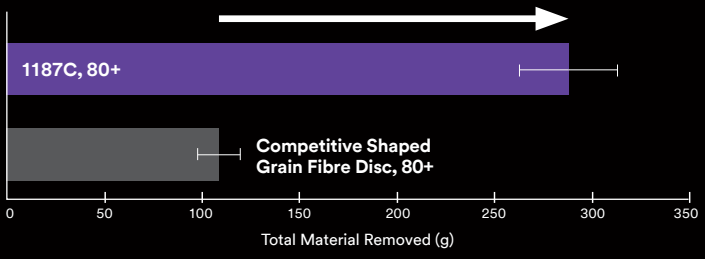


Up to **228%** Faster sustained cut rate[2]

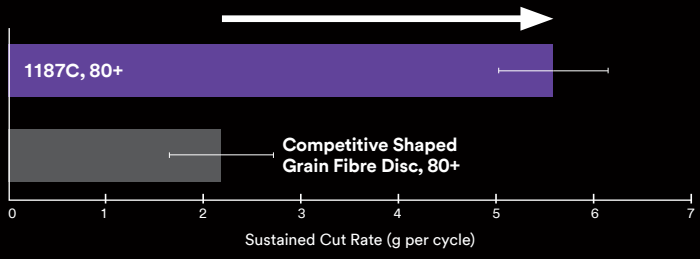


Grade 80+

Up to **166%** More total material removed[1]



Up to **155%** Faster sustained cut rate[2]



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)

Tools that take it to the next level.

The new 3M™ Pneumatic Angle Grinders and 3M™ Pneumatic Sanders are powerful tools that feature excellent performance and world-class ergonomic designs. They're built with robust components for durability and reliability in some of the harshest industrial conditions.

- 1.5HP (1100 W power)
- Wheel autobalancer
- Spindle lock
- Vibration-reducing side handle with added padding—interchangeable for right or left hand usage
- Available accessories provide maximum functionality and flexibility
- Rear exhaust directs exhaust and swarf away from the workpiece
- Adjustable guard (3M™ Pneumatic Angle Grinder)



Get the full system advantage.

3M™ Pneumatic Angle Grinder or 3M™ Pneumatic Sander



+

3M™ Disc Back-up Pads



Grade 36+



Grades 60+ 80+ 120+

TECH TIP:

Combine 3M™ Pneumatic Angle Grinder or Sander and 3M™ Disc Back-up Pad to maximize your productivity improvements. Each component of this system has been engineered to optimize abrasive life, cut rate and consistency—helping to improve productivity and lower overall costs.

Get more value from your automation investment.

Automation Ready

There are many reasons to invest in automating your abrasive processes: gains in productivity, improved consistency, enhanced quality and safety, and a solution to labor shortages. And to provide maximized ROI (Return On Investment) 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.

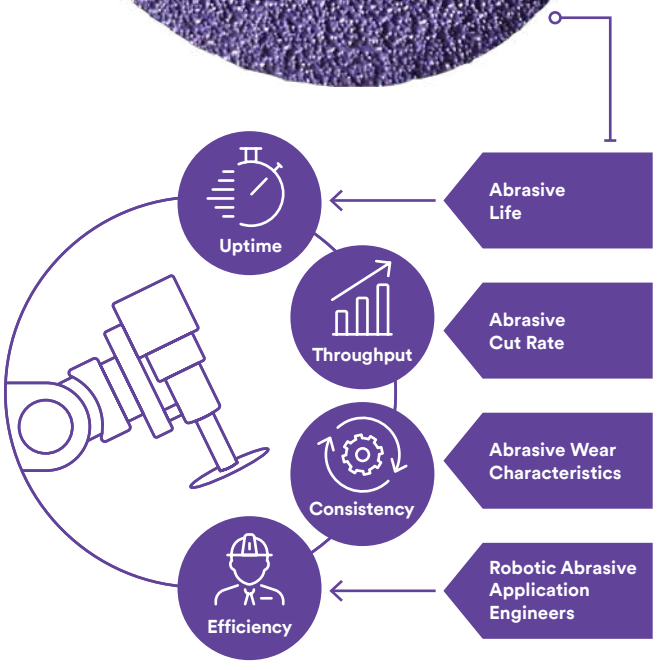


The vital importance of the right abrasives and process parameters in automation.

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 help you meet the needs of your process.

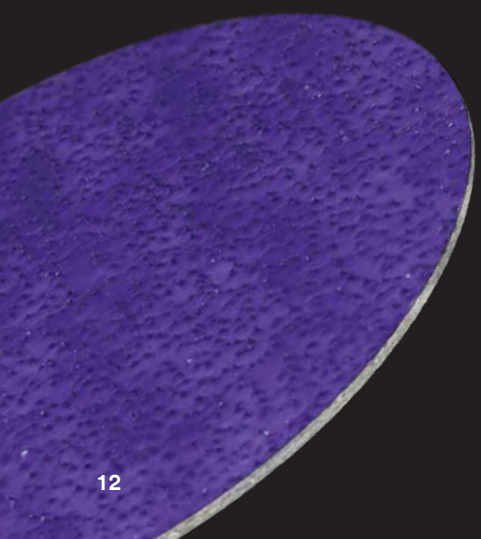
3M™ Cubitron™ 3 Roloc™ Fibre and Cloth Discs

The benefits of the Roloc™ attachment

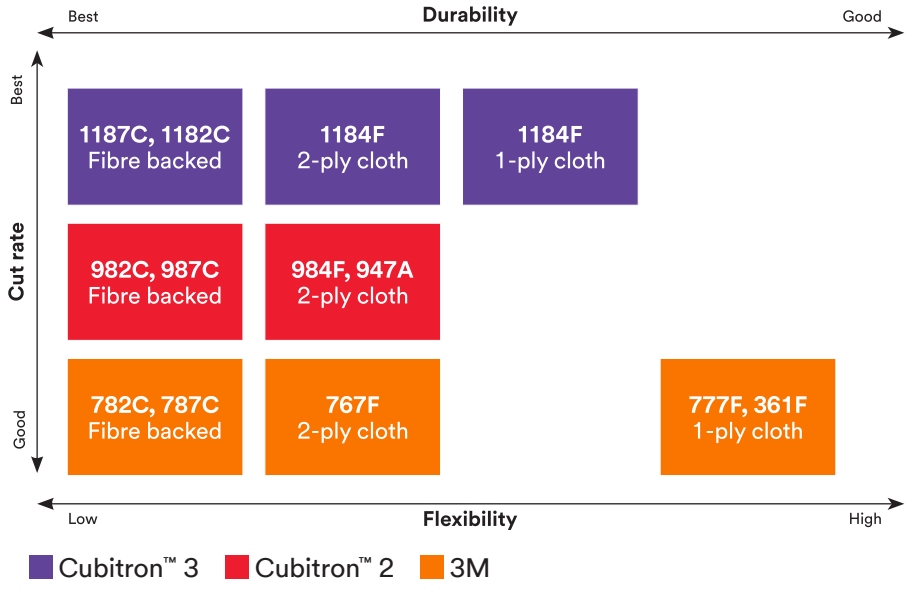
3M™ Roloc™ Abrasive Discs are smaller discs that quickly attach onto a Roloc™ disc pad so that you can conveniently and rapidly change discs as needed. Our system provides a secure attachment even for heavy-duty applications. Easy grade selection (product family name and grade are printed at the back of each Roloc™ disc) to facilitate the right choice 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+

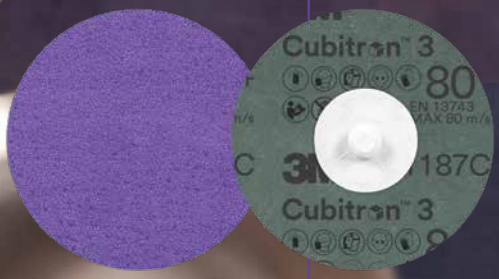


3M™ Cubitron™ 3 Roloc™ Fibre Disc 1182C

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+ & 120+

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

Disc size	Substrate			
	Carbon Steel	Stainless Steel	Titanium	Aluminum
1-1/2 in	30,000 RPM	20,000 RPM	9,000 RPM	30,000 RPM
2 in	20,000 RPM	15,000 RPM	7,000 RPM	20,000 RPM
3 in	15,000 RPM	10,000 RPM	4,500 RPM	15,000 RPM
4 in	9,000 RPM	8,000 RPM	3,000 RPM	9,000 RPM

3M™ Roloc™ Attachment System

3M™ Cubitron™ 3 Disc	Size (in.)	TR	TSM	TS
1184F	1-1/2	●	●	
	2	●	●	
	3	●	●	
	4	●		●
1182C	2	●	●	
	3	●	●	
	4	●		●
1187C	1-1/2	●	●	
	2	●		
	3	●	●	
	4	●		●

Ask for other dimensions availability.



3M™ Cubitron™ 3 Flap Discs 1169F

Grades

40+, 60+ & 80+



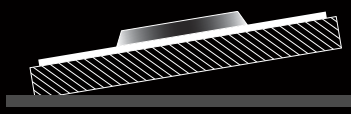
Maximizing productivity and flexibility

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.

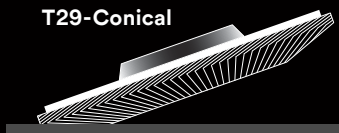
There are two styles of flap disc shape, conical and flat, that can work in your application. Choose the one that contacts the workpiece with the full width of the flap material to maximize flap disc service.

T27-Flat

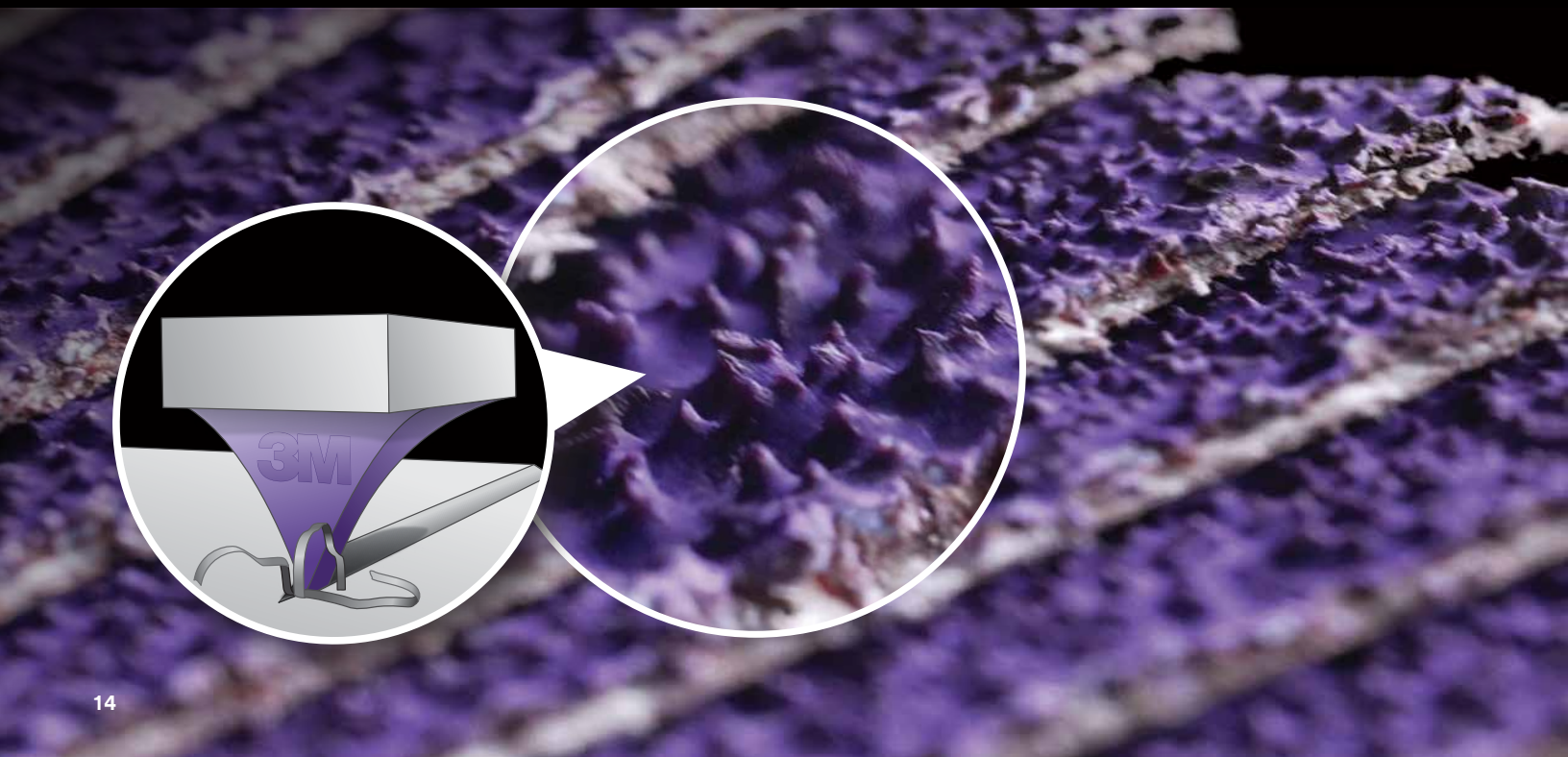


For use at flatter angles: 0° – 15°

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

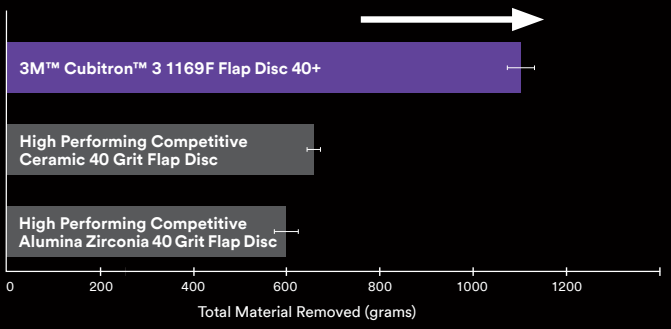
3M™ Cubitron™ 3 Flap Disc 1169F

Carbon steel grinding Grade 40+

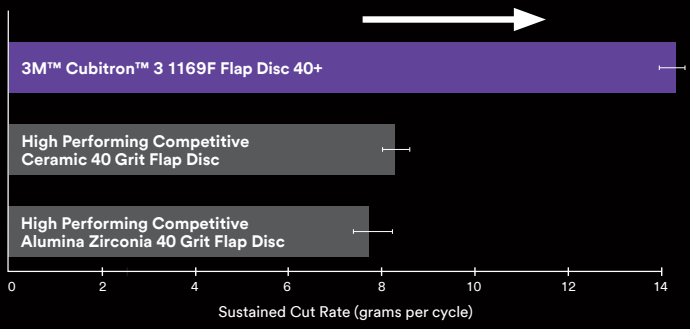
We tested 3M™ Cubitron™ 3 Flap disc 1169F grade 40+ on carbon steel and here are the results:

3M™ Cubitron™ 3 Flap Disc 1169F against some leading competitors:

Up to **69%** More material removed

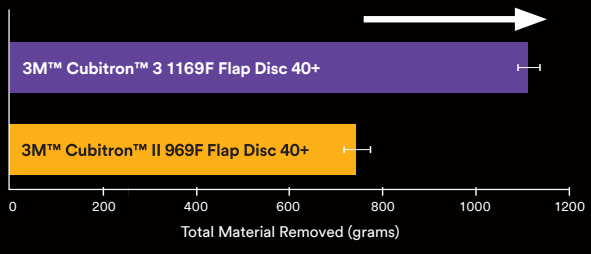


Up to **75%** Faster sustained cut rate

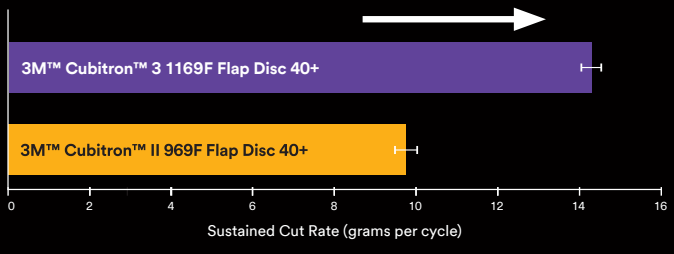


3M™ Cubitron™ 3 Flap Disc 1169F against other 3M products:

Up to **49%** More material removed



Up to **46%** Faster sustained cut rate





Upgrade now from the 3M™ Cubitron™ II Flap Disc 969F!

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.



Product Ordering Information



3M™ Cubitron™ 3 Fibre Disc 1182C

3M ID	Grade	Diameter (in.)	Max RPM	Unit/Case
Standard Round Hole				
7100309791	36+	4 × 5/8	15,000	25/100
7100309797	36+	4 × 7/8	15,000	25/100
7100309799	36+	4-1/2 × 7/8	13,300	25/100
7100309793	36+	5 × 7/8	12,000	25/100
7100309903	36+	6 × 7/8	10,000	25/100
7100309904	36+	7 × 7/8	8,600	25/100
7100310797	36+	9-1/8 × 7/8	6,600	25/100
7100349591	60+	4-1/2 × 7/8	13,300	25/100
7100349588	60+	5 × 7/8	12,000	25/100
7100349577	60+	6 × 7/8	10,000	25/100
7100349579	60+	7 × 7/8	8,600	25/100
7100349565	60+	9-1/8 × 7/8	6,600	25/100
7100349584	80+	4-1/2 × 7/8	13,300	25/100
7100349603	80+	5 × 7/8	12,000	25/100
7100349578	80+	7 × 7/8	8,600	25/100
7100349575	80+	9-1/8 × 7/8	6,600	25/100
TN Quick Change				
7100331481	36+	4	15,000	25/100
7100310727	36+	4-1/2	13,300	25/100
7100310728	36+	5	12,000	25/100
7100310729	36+	7	8,600	25/100
7100413211	60+	4	15,000	25/100
7100349673	60+	4-1/2	13,300	25/100
7100349678	60+	5	12,000	25/100
7100349568	60+	7	8,600	25/100
7100413212	80+	4	15,000	25/100
7100349669	80+	4-1/2	13,300	25/100
7100349675	80+	5	12,000	25/100
7100349580	80+	7	8,600	25/100
GL Quick Change				
7100310730	36+	4-1/2	13,300	25/100
7100310795	36+	5	12,000	25/100
7100309796	36+	7	8,600	25/100
7100349574	60+	5	12,000	25/100
7100349674	60+	7	8,600	25/100
7100349576	80+	5	12,000	25/100
7100349677	80+	7	8,600	25/100

3M™ Pneumatic Angle Grinder

3M ID	Diameter (in.)	Max RPM	Unit/Case
7100250449	4.5-5	11,500	1/1
3M™ Electric Angle Grinder			
7100336788	6, Paddle Switch	9,300	1/1
7100337004	4.5-5, Slide Switch	11,500	1/1
7100336685	4.5-5, Paddle Switch	11,500	1/1
3M™ Pneumatic Sander			
7100250448	4.5-5	11,500	1/1

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

3M™ Cubitron™ 3 Fibre Disc 1187C

3M ID	Grade	Diameter (in.)	Max RPM	Unit/Case
Standard Round Hole				
7100309792	36+	4 × 5/8	15,000	25/100
7100309788	36+	4-1/2 × 7/8	13,300	25/100
7100308532	36+	5 × 7/8	12,000	25/100
7100309906	36+	7 × 7/8	8,600	25/100
7100310792	36+	9-1/8 × 7/8	6,600	25/100
7100349589	60+	4-1/2 × 7/8	13,300	25/100
7100349499	60+	5 × 7/8	12,000	25/100
7100349566	60+	7 × 7/8	8,600	25/100
7100349569	60+	9-1/8 × 7/8	6,600	25/100
7100349592	80+	4-1/2 × 7/8	13,300	25/100
7100349604	80+	5 × 7/8	13,300	25/100
7100349567	80+	7 × 7/8	8,600	25/100
7100349501	80+	9-1/8 × 7/8	6,600	25/100
7100415415	120+	4 × 5/8	15,000	25/100
7100415405	120+	4-1/2 × 7/8	13,300	25/100
7100415241	120+	5 × 7/8	12,000	25/100
7100415251	120+	7 × 7/8	8,600	25/100
7100415435	120+	9-1/8 × 7/8	6,600	25/100
TN Quick Change				
7100331892	36+	4	15,000	25/100
7100310793	36+	4-1/2	13,300	25/100
7100310731	36+	5	12,000	25/100
7100310732	36+	7	8,600	25/100
7100413410	60+	4	15,000	25/100
7100349670	60+	4-1/2	13,300	25/100
7100349680	60+	5	12,000	25/100
7100349582	60+	7	8,600	25/100
7100413351	80+	4	15,000	25/100
7100349671	80+	4-1/2	13,300	25/100
7100349682	80+	5	12,000	25/100
7100415242	120+	4-1/2	13,300	25/100
7100415402	120+	7	8,600	25/100
GL Quick Change				
7100310796	36+	4-1/2	13,300	25/100
7100310803	36+	5	12,000	25/100

3M™ Disc Back-up Pad – One piece

3M ID	Hardness	Diameter (in.)	Max RPM	Unit/Case
7100363168	Extra Hard - Red	4	15,000	10/10
7100258731	Extra Hard - Red	4-1/2	13,300	10/10
7100258733	Extra Hard - Red	5	12,000	10/10
7100362486	Extra Hard - Red	6	10,000	10/10
7100258730	Extra Hard - Red	7	8,600	10/10
7100363075	Hard - Black	4	15,000	10/10
7100363248	Hard - Black	4-1/2	13,300	10/10
7100362591	Hard - Black	5	12,000	10/10
7100362609	Hard - Black	6	10,000	10/10
7100360002	Hard - Black	7	8,600	10/10
7100363273	Medium - Gray	4	15,000	10/10
7100362772	Medium - Gray	4-1/2	13,300	10/10
7100362610	Medium - Gray	5	12,000	10/10
7100362920	Medium - Gray	6	10,000	10/10
7100362838	Medium - Gray	7	8,600	10/10

3M™ Disc Back-up Pad Mounting Kit
(Not required for use with 3M™ Pneumatic Angle Grinder or Sander)

3M ID	Description	Unit/Case
7100265315	3M™ Retainer Nut PN 02618, 3/16" PG Wheel Spacer and 1/8" Spacer	1/1

Product Ordering Information

3M™ Cubitron™ 3 Roloc™ Disc

3M ID (Button TR)	3M ID (Button TSM)	3M ID (Button TS)	Grade	Size (in.)	Unit/Case
3M™ Cubitron™ 3 Roloc™ Durable Edge Disc 1184F					
		7100412241	36+	3/4	50/200
		7100412624	36+	1	50/200
7100331411	7100331752	7100412422	36+	1-1/2	50/200
7100331727	7100331748		36+	2	50/200
7100331731	7100331744		36+	3	50/200
7100332084			36+	4	25/100
		7100412438	60+	3/4	50/200
		7100412567	60+	1	50/200
7100332562	7100331747	7100412011	60+	1-1/2	50/200
7100331410	7100331732		60+	2	50/200
7100331725	7100331750		60+	3	50/200
7100332083			60+	4	25/100
		7100412456	80+	3/4	50/200
		7100412430	80+	1	50/200
7100331726		7100412242	80+	1-1/2	50/200
7100332404	7100331743		80+	2	50/200
7100332405	7100331751		80+	3	50/200
3M™ Cubitron™ 3 Roloc™ Fibre Disc 1182C					
7100332086			36+	2	50/200
7100332346	7100332354		36+	3	50/200
7100332344			36+	4	25/100
7100332343	7100332352		60+	2	50/200
7100332232			60+	3	50/200
7100332350			60+	4	25/100
7100332356			80+	2	50/200
7100332357	7100332348		80+	3	50/200
3M™ Cubitron™ 3 Roloc™ Fibre Disc 1187C					
7100331754			36+	2	50/200
7100331749	7100332091		36+	3	50/200
7100332836	7100332837		60+	1-1/2	50/500
7100331745			60+	2	50/200
7100332087	7100332095		60+	3	50/200
7100412421			80+	1-1/2	50/200
7100331753			80+	2	50/200
7100332088	7100332092		80+	3	50/200
7100332089			80+	4	25/100
7100415464			120+	2	50/200
7100415367			120+	3	50/200
7100415419		7100418753	120+	4	25/100



Pads for Roloc™ Discs

3M ID (Button TR)	3M ID (Button TSM or TS)	Grade	Hardness	Size (in.)
7000045286*	7100132673*	36+	Extra Hard or Hard*	1-1/2
7000045284	7000119314*			2
7000045285	7000119315*			3
7010362517	7010362527*			4
7000000441	7000119314	60+	Hard	2
7100002305	7000119315			3
7000144108	7010362527			4
7000045280	7010308594	80+ & 120+	Medium or Hard*	1-1/2
7000045282	7000045283			2
7000000602	7000119310			3
7100007033	7010362527*			4

*Ask for other dimensions availability.



3M™ Roloc™ Sander

3M ID	Diameter (in.)	Max RPM	Box/Case
7100142325	3	15,000	1/1
7100075504	2	20,000	1/1



3M™ Cubitron™ 3 Flap Disc 1169F

3M ID	Shape	Grade	Diameter (in.) x Bore (in.)	Max RPM	Unit/Case
7100403690	T29	40+	4 × 3/8-24	15,000	10
7100380474	T27	40+	4-1/2 × 7/8	13,300	10
7100380484	T29	40+	4-1/2 × 7/8	13,300	10
7100380178	T27	40+	4-1/2 × 5/8-11	13,300	10
7100379929	T29	40+	4-1/2 × 5/8-11	13,300	10
7100380493	T27	40+	5 × 7/8	12,000	10
7100380494	T29	40+	5 × 7/8	12,000	10
7100412607	T27	40+	5 × 5/8-11	12,000	10
7100380207	T29	40+	5 × 5/8-11	12,000	10
7100380317	T27	40+	6 × 5/8-11	10,000	5
7100379978	T27	40+	7 × 7/8 in	8,600	5
7100380485	T27	40+	7 × 5/8-11	8,600	5
7100380208	T29	40+	7 × 7/8 in	8,600	5
7100380495	T29	40+	7 × 5/8-11	8,600	5
7100404345	T29	60+	4 × 3/8-24	15,000	10
7100380348	T27	60+	4-1/2 × 7/8	13,300	10
7100380209	T29	60+	4-1/2 × 7/8	13,300	10
7100380307	T27	60+	4-1/2 × 5/8-11	13,300	10
7100380349	T29	60+	4-1/2 × 5/8-11	13,300	10
7100380496	T29	60+	5 × 7/8	12,000	10
7100380168	T27	60+	5 × 7/8	12,000	10
7100412595	T27	60+	5 × 5/8-11	12,000	10
7100412568	T29	60+	5 × 5/8-11	12,000	10
7100380505	T27	60+	6 × 5/8-11	10,000	5
7100416619	T27	60+	7 × 7/8	8,600	5
7100416725	T27	60+	7 × 5/8-11	8,600	5
7100403601	T29	80+	4 × 3/8-24	15,000	10
7100380218	T27	80+	4-1/2 × 7/8	13,300	10
7100380288	T29	80+	4-1/2 × 7/8	13,300	10
7100380300	T27	80+	4-1/2 × 5/8-11	13,300	10
7100380219	T29	80+	4-1/2 × 5/8-11	13,300	10
7100380316	T29	80+	5 × 7/8	12,000	10
7100380309	T27	80+	5 × 7/8	12,000	10
7100412625	T27	80+	5 × 5/8-11	12,000	10
7100412608	T29	80+	5 × 5/8-11	12,000	10
7100380338	T27	80+	6 × 5/8-11	10,000	5
7100416638	T27	80+	7 × 7/8	8,600	5
7100416392	T29	80+	7 × 7/8	8,600	5
7100380504	T29	80+	7 × 5/8-11	8,600	5
7100416272	T27	80+	7 × 5/8-11	8,600	5



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