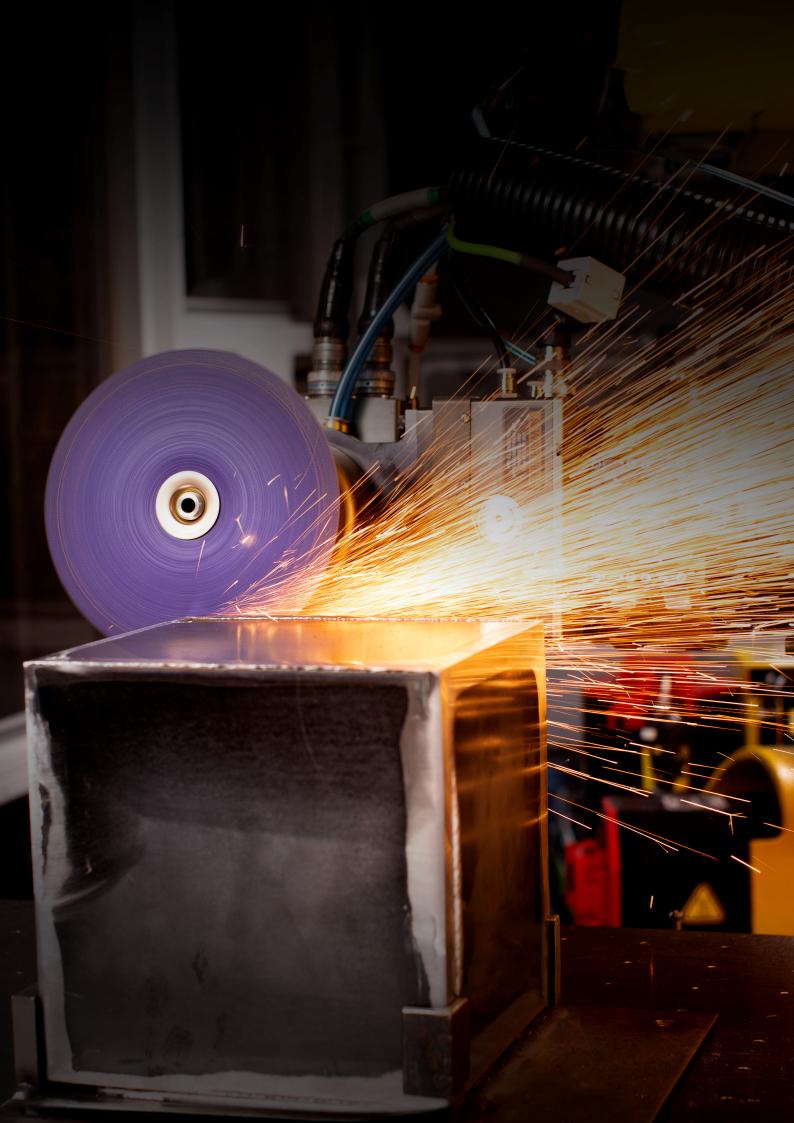


Now 36+, 60+ and 80+ grades available!

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 prioritises operator safety, maximises sustainability and amplifies time and labour efficiency.

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

Up to

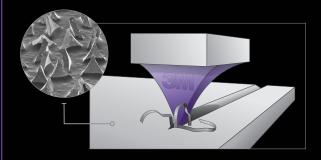
60%

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

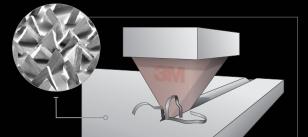
vs. 3M™ Cubitron™ II Fibre Disc 982C, 36+

Enhanced mineral orientation

Re-shaping the way work gets done.

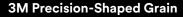




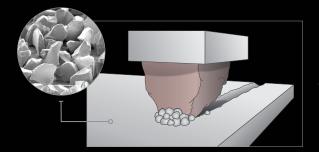


Our latest 3M Precision-Shaped Grain

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



3M 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 plough 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 minimise abrasive changeover to save money over time. A 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 minimise rework.











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

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



Cool cutting

Helps to reduce metal discolouration and stress cracks - ultimately minimising re-work



Faster cut rate

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



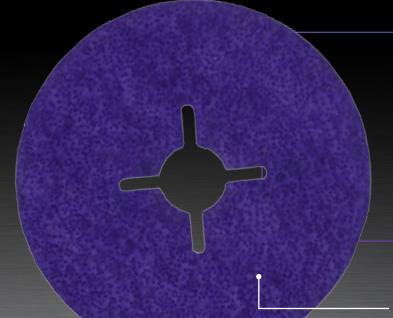
Less vibration exposure

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

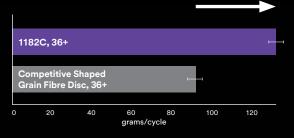
Reduces the risk of discoloration from thermal damage in heat sensitive metals

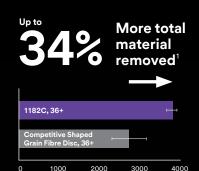


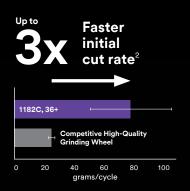
We tested 3M™ Cubitron™ 3 Fibre Disc 1182C, 36+ and here are the results:



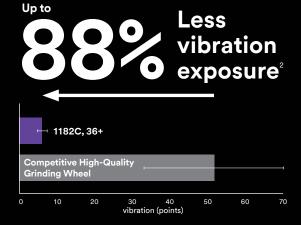




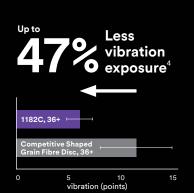




Helps improve workplace safety without compromising productivity.



Less noise generated⁶ noise level (decibels)



Safety

Built Ín

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

Independent hazards testing performed by:



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 nean with a confidence level of 95%.

3M[™] Cubitron[™] 3 Fibre Disc 1182C

Carbon steel grinding

Grades

60+ & 80+

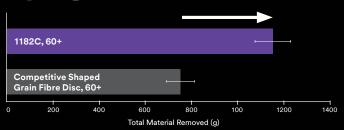
NEW!

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



Grade 60+

More total material removed



Faster sustained cut rate²

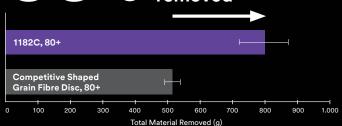
1182C, 60+

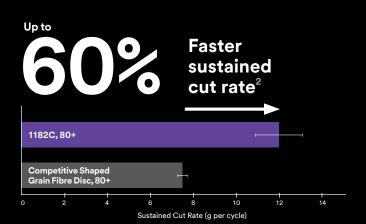
Competitive Shaped Grain Fibre Disc, 60+

Sustained Cut Rate (g per cycle)

Grade 80+

More 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

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+ and 80+ Carbon Steel: The 'sustain



Stainless steel grinding

Grades 60+ and 80+

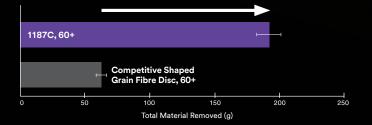
NEW!

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

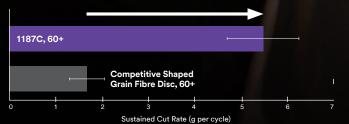
Productivity Delivered

Grade 60+

207 More total material removed material



Property of the second second

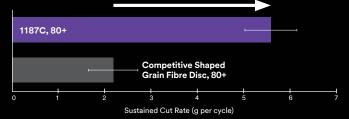


Grade 80+

166 More total material removed



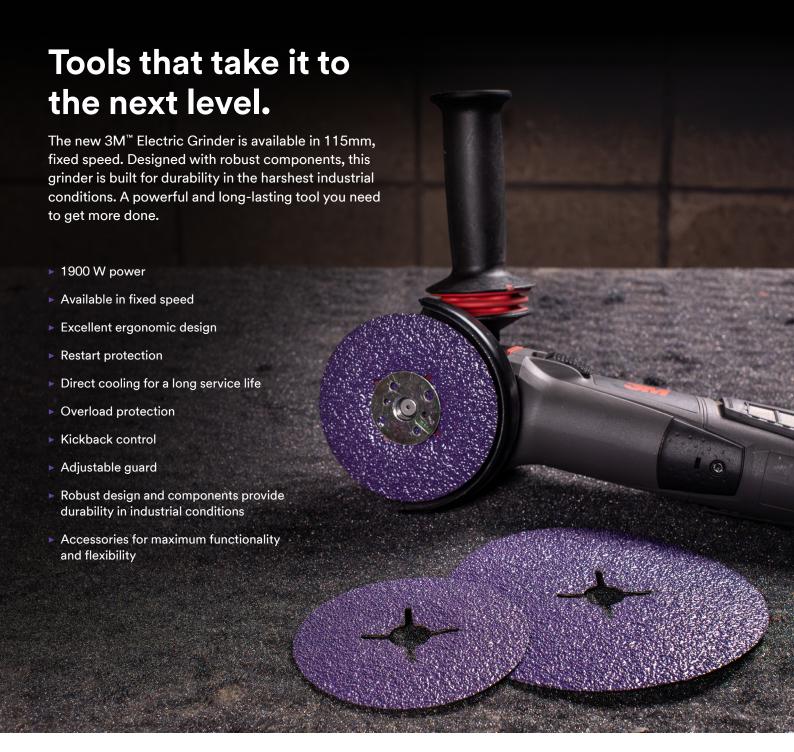
Faster sustained cut rate²



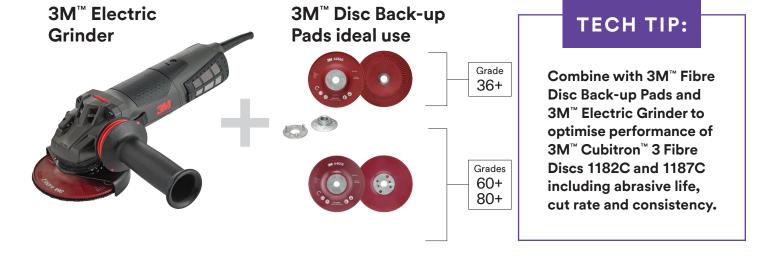
10tal material removed: 60+ Stainless Steel: The 'total material removed' claim is determined by averaging the amount of metal ground over 40 cycles, approximately 8.5 minutes of grinding

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+ and 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 grindin.
Inits for stainless steel will be (Grams/cycle)



Get the full system advantage.



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; and an answer to your labour shortage. To ensure maximised 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 optimised 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 realise the full ROI on your automation investment, you want to optimise your abrasive products and parameters for these four key elements:

- ▶ **Uptime**: Determined by abrasive life and full utilisation 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 utilises 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



Abrasive Life Abrasive Cut Rate Abrasive Cut Rate Abrasive Characteristics Robotic Abrasive Application Engineers

Efficiency

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.

3M[™] Cubitron[™] 3 Roloc[™] Fibre Discs

The benefits of the Roloc™ attachment

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

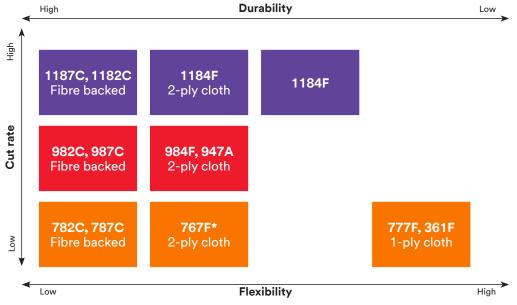
even for heavy-duty applications. Disc buttons are also colour-coded when needed to identify its grade, making it easy to select the grade required for different applications.

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



Productivity Delivered

Grinding and stock removal





3M™ Roloc™ Disc button colour/grade guide

CB3 Fibre Disc	Colour	Grade
1184F Durable edge	O White	All*
	Brown	36+
1182C 1187C	Orange	60+
11070	Yellow	80+

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

	Substrate					
Disc size	Carbon steel	Stainless steel	Titanium	Aluminium		
25-38mm	30.000rpms	20.000rpms	9.000rpms	30.000rpms		
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
	25-38	•
1184F	50	•
	75	•
11000	50	•
1182C	75	•
1187C	50	•
110/0	75	•

^{*}Ask for other dimensions availability.





Product Ordering Information



	3M [™] Cubitron [™] 3 Fibre Disc 1182C						
	Product ID	Grade	Diameter (mm)	Max RPM	Unit/case		
	7100309905	36+	100 × 16	15,000	25/100		
	7100308530	36+	115 × 22	13,300	25/100		
	7100308531	36+	125 × 22	12,250	25/100		
	7100309790	36+	150 × 22	10,200	25/100		
	7100309794	36+	180 × 22	8,500	25/100		
EW	7100349563	60+	100 × 16	15,000	25/100		
EW	7100349583	60+	115 × 22	13,300	25/100		
EW	7100349498	60+	125 × 22	12,250	25/100		
EW	7100349676	60+	150 × 22	10,200	25/100		
EW	7100349667	60+	180 × 22	8,500	25/100		
EW	7100349570	+08	100 × 16	15,000	25/100		
EW	7100349564	+08	115 × 22	13,300	25/100		
EW	7100349571	+08	125 × 22	12,250	25/100		
EW	7100348572	+08	150 × 22	10,200	25/100		
EW	7100349585	+08	180 × 22	8,500	25/100		



	3M™ Cubitron™ 3 Fibre Disc 1187C						
	3M [™] Cubitro	n‴ 3 Fi	bre Disc 118	7C			
	Product ID	Grade	Diameter (mm)	Max RPM	Unit/case		
	7100309798	36+	100 × 16	15,000	25/100		
	7100309789	36+	115 × 22	13,300	25/100		
	7100310794	36+	125 × 22	12,250	25/100		
	7100309787	36+	150 × 22	10,200	25/100		
	7100309795	36+	180 × 22	8,500	25/100		
NEW	7100349572	60+	100 × 16	15,000	25/100		
NEW	7100349586	60+	115 × 22	13,300	25/100		
NEW	7100349581	60+	125 × 22	12,250	25/100		
NEW	7100358917	60+	150 × 22	10,200	25/100		
NEW	7100349679	60+	180 × 22	8,500	25/100		
NEW	7100349573	80+	100 × 16	15,000	25/100		
NEW	7100349587	80+	115 × 22	13,300	25/100		
NEW	7100349590	80+	125 × 22	12,250	25/100		
NEW	7100349672	80+	150 × 22	10,200	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 [™] Fibre Disc Back-up Pad						
	Product ID	Diameter (mm)	Part number	Max RPM	Box/case		
	Hard Red Grade	36+					
	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		
	Semi-Flex Grade	60+ and 80+					
IEW	7000061711	115	64857	13,300	10/10		
IEW	7000061712	125	64858	12,000	10/10		
IEW	7000061713	180	64859	8,500	15/15		



3M™ Electric Grinders 1900W, 220-240V, 11,500 Max RPM, M14					
Product ID	Diameter (mm)	Part number	Max RPM	Box/case	
Plug Type E					
7100249666	115	14253	Fixed	1/1	
7100249667	115	14281	Variable	1/1	
7100249665	125	14273	Fixed	1/1	
7100249668	125	14291	Variable	1/1	
Plug Type J					
7100281561	125	14112	Variable	1/1	
Plug Type G					
7100281321	115	14144	Fixed	1/1	

UK Plug Type G.

PADS TECH TIP:

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

Product ordering information



	3M [™] Cubitron [™] 3 Roloc [™] Durable Edge Disc 1184F					
	Product ID	Diameter (mm)	Grade	Unit/case		
NEW	7100331411	25-38	36+	50/200		
NEW	7100332562	25-38	60+	50/200		
NEW	7100331726	25-38	80+	50/200		
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	7100332836	25-38	60+	50/500		
NEW	7100331754	50	36+	50/200		
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		
NEW	7100332089	100	80+	25/100		

^{*}Ask for other dimensions availability.

Pads for Roloc [™] discs					
Button TR	Size (mm)	Attachment thread	Grade	Hardness	
7000045286	25-38	1/4-20INT			
7000045284	50	1/4-20INT	36+	Extra Hard or Hard*	
7000045285	75	1/4-20INT			
7000045692	100	M14-2			
7000000441	50	1/4-20INT			
7100002305	75	1/4-20INT	60+	Hard	
7000028376	100	M14-2			
7000045280	25-38	1/4-20INT			
7000045282	50	1/4-20INT	80+ and 120+	Medium	
7000000602	75	1/4-20INT		or Hard*	
7000045695	100	M14-2			





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 3M.co.uk/abrasives

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 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 (e.g., 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 injury, sickness, death, and/or harm to property. Discialmer: 3M industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use 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), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, 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 injury, 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 3M product packaging or product fluerature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHERS, OR A NERINES OR CONDITIONS, EXPR

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