



Science.  
Applied to Life.™

NEW! 3M™ Fibre Discs 782C & 787C

# Rock on!

An outstanding value, featuring the legendary speed and long life of 3M precision-shaped grain.

## An unbeatable combination of performance and value!

Engineered for fast cutting and long life in applications including:

- Grinding
- Weld Removal
- Beveling
- Edge chamfering

**A new class of fibre discs designed to make conventional ceramic abrasives obsolete.**

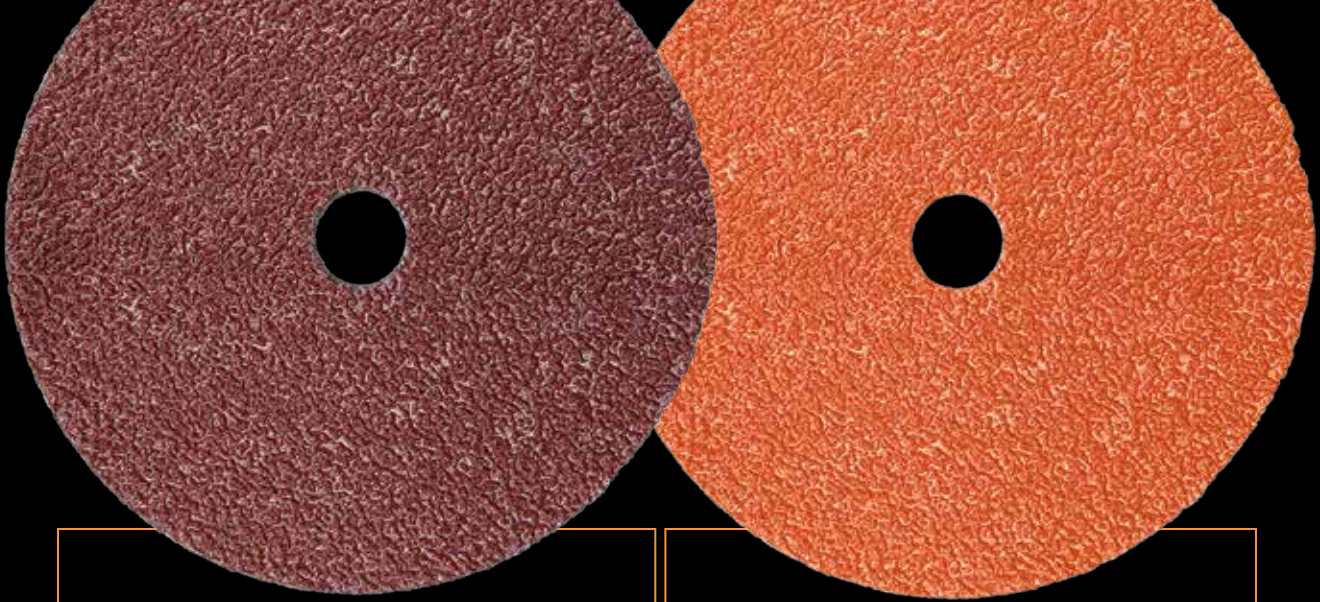
In 2009, 3M set a new benchmark for abrasive speed and long life with the introduction of **Precision-Shaped Grain**. Since then, 3M abrasive products incorporating this breakthrough technology have been helping to improve productivity and performance for customers around the world, in a wide range of applications.

Now you can get your operation up to speed, with our two newest value-priced fibre discs – powered by the unmatched performance of 3M precision-shaped grain technology.



### Tech Tip:

- ▶ Use the finest grade of abrasive that gets the job done. Finer grind lines are easier to remove. Align the grind line scratches with the grain line direction. Perpendicular scratches are more difficult to blend; parallel scratches blend easily during finishing.



### 3M™ Fibre Disc 782C

For carbon steel

Your ideal choice for carbon steel – offering a faster cut and longer life than alumina zirconia (AZ) and conventional ceramic abrasives. These discs also require less grinding pressure for easier operation.

### 3M™ Fibre Disc 787C

For stainless steel and more

Optimized for stainless steel and non-ferrous metals like aluminum and titanium. Cuts cooler, faster and lasts longer than conventional ceramic discs in applications like weld removal, beveling, edge chamfering and more.

**What's the secret?** 3M's revolutionary precision-shaped ceramic grain technology – an advanced abrasive construction featuring microreplicated shapes that slice through metal, to cut faster and last longer than conventional abrasives.

### What 3M precision-shaped grain technology means for you:

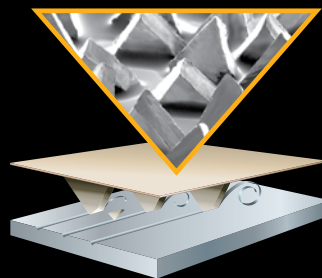
- **Faster cut** – lets you produce more parts per hour
- **Longer life** – for a lower cost per grind
- **Requires less pressure** – allows the abrasive to do more of the hard work for you
- **Smooth running** – easy to use



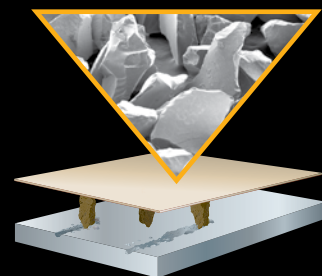
#### Tech Tip:

- ▶ 3M precision-shaped grain allows these discs to cut *fast*. When removing stainless steel welds, consider using 787C discs one grade finer than you usually use. This may save you time in the subsequent grain setting step.

### How 3M precision-shaped grain technology works:



3M precision-shaped grain uses 3M microreplication technology to form sharp peaks that easily “slice” through metal – cutting cooler, faster and lasting longer than conventional abrasive grain.



Conventional ceramic abrasive grain tends to “plow” through the metal, causing heat to build up in the workpiece and the abrasive – resulting in a slower cut and shorter disc life.

**3M™ Fibre Disc 782C**  
for carbon steel

Pkg: 25 per inner,  
100 per case



Diameter (inches)	Grade	UPC (76308-)	Max RPM
4-1/2 x 7/8	36+	89589-1	13,300
	60+	89598-3	13,300
	80+	89607-2	13,300
5 x 7/8	36+	89590-7	12,000
	60+	89599-0	12,000
	80+	89608-9	12,000
7 x 7/8	36+	89591-4	8,600
	60+	89600-3	8,600
	80+	89609-6	8,600
9-1/8 x 7/8	36+	89592-1	6,600
	60+	89601-0	6,600
	80+	89610-2	6,600
<b>TN Quick Change</b>			
4-1/2 x 5/8-11*	36+	89595-2	13,300
	60+	89604-1	13,300
	80+	89613-3	13,300
5 x 5/8-11*	36+	89596-9	12,000
	60+	89605-8	12,000
	80+	89614-0	12,000
7 x 5/8-11*	36+	89597-6	8,600
	60+	89606-5	8,600
	80+	89615-7	8,600

**3M™ Fibre Disc 787C**  
for stainless steel

Pkg: 25 per inner,  
100 per case



Diameter (inches)	Grade	UPC (76308-)	Max RPM
4-1/2 x 7/8	36+	89627-0	13,300
	60+	89636-2	13,300
	80+	89645-4	13,300
	120+	89654-6	13,300
5 x 7/8	36+	89628-7	12,000
	60+	89637-9	12,000
	80+	89646-1	12,000
	120+	89655-3	12,000
7 x 7/8	36+	89629-4	8,600
	60+	89638-6	8,600
	80+	89647-8	8,600
	120+	89656-0	8,600
9-1/8 x 7/8	36+	89630-0	6,600
	60+	89639-3	6,600
	80+	89648-5	6,600
	120+	89657-7	6,600
<b>TN Quick Change</b>			
4-1/2 x 5/8-11*	36+	89633-1	13,000
	60+	89642-3	13,000
	80+	89651-5	13,000
	120+	89658-4	13,000
5 x 5/8-11*	36+	89634-8	12,000
	60+	89643-0	12,000
	80+	89652-2	12,000
	120+	89659-1	12,000
7 x 5/8-11*	36+	89635-5	8,600
	60+	89644-7	8,600
	80+	89653-9	8,600
	120+	89660-7	8,600

Other sizes available upon request. \*Quick Change Tinneman Nut Attachment

**Accessories for 3M™ Fibre Discs**

Product Name	UPC	Description	Max RPM	For Use With	Min/Case
<b>3M™ Disc Pad Hub</b> 	051144-88743-9	2 1/2" dia., 5/8-11" Metal Insert	N/A	3M™ Disc Pad Face Plates (all sizes, tool shaft length 1/2" or less)	10
<b>3M™ Disc Pad Hub</b> 	00051144-45190-6	For 7/8" center hole discs	N/A	For Use With: 3M™ Disc Pad Face Plates	10
<b>3M™ Disc Pad Face Plates</b> 	051141-28443-9	4 1/2" dia., Red, Ribbed, Extra Hard	13,300	Fibre Discs and Scotch-Brite™ Surface Conditioning Discs	10
	051141-14270-5	4 1/2" dia., Black, Smooth, Hard	13,300	Fibre Discs and Scotch-Brite™ Surface Conditioning Discs	10
	051144-81732-0	5" dia., Red, Ribbed, Extra Hard	12,000	Fibre Discs and Scotch-Brite™ Surface Conditioning Discs	10
	051144-81733-7	5" dia., Black, Ribbed, Hard	12,000	Fibre Discs and Scotch-Brite™ Surface Conditioning Discs	10
	051144-80514-3	7" dia., Red, Ribbed, Extra Hard	8,600	Fibre Discs and Scotch-Brite™ Surface Conditioning Discs	10
	051144-80515-0	7" dia., Black, Ribbed, Hard	8,600	Fibre Discs and Scotch-Brite™ Surface Conditioning Discs	10
	051111-51047-5	5/16" Depth; 5/8-11" Thread	N/A	3M™ Disc Pad Face Plates and Disc Pad Hubs	N/A
	051144-05622-4	3/8" Depth; 5/8-11" Thread	N/A	3M™ Disc Pad Face Plates and Disc Pad Hubs	N/A
	051144-05621-7	1/2" Depth; 5/8-11" Thread	N/A	3M™ Disc Pad Face Plates and Disc Pad Hubs	N/A
	051144-05620-0	5/8" Depth; 5/8-11" Thread	N/A	3M™ Disc Pad Face Plates and Disc Pad Hubs	N/A
<b>3M™ TN Quick Change Disc Backup Pad</b> 	051111-56573-5	4 1/2" dia., 5/8-11" INT	13,300	4 1/2" TN Discs	5

**Warranty, Limited Remedy, and Disclaimer:** 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. User is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application. Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



**Abrasive Systems Division**  
3M Center, Building 223-6S-03  
St. Paul, MN 55144-1000  
1-866-279-1235  
www.3M.com/abrasives

Please recycle. Printed in USA.  
© 3M 2016. All rights reserved.  
Issued: 8/16 11678HB  
61-5002-8423-9

3M and Scotch-Brite are trademarks of 3M Company.  
Used under license by 3M subsidiaries and affiliates.