



Science.
Applied to Life.™



3M™ Fibre Discs 782C and 787C

An outstanding value,
featuring the 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 class of fibre discs designed to outperform alumina zirconia and conventional ceramic abrasives.

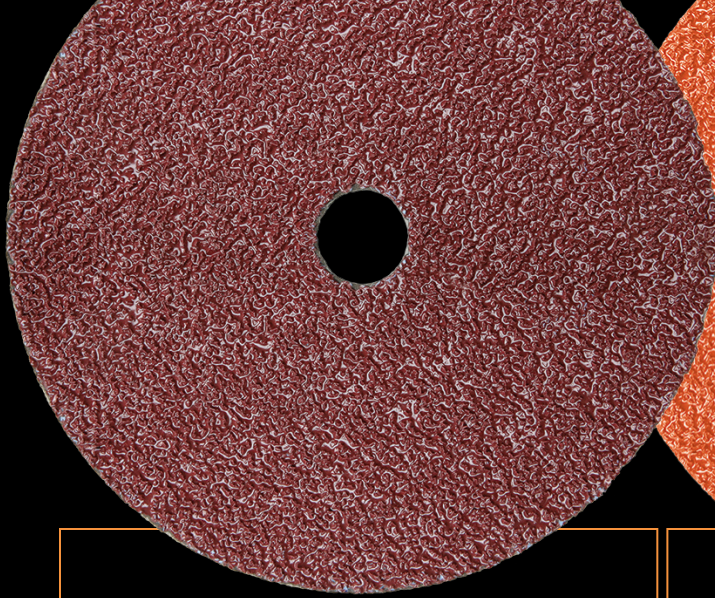
In 2009, 3M set a new benchmark for abrasive speed and long life with the introduction of **Precision-Shaped Grain**. Since then, 3M abrasive products incorporating this breakthrough technology have been helping to improve productivity and performance for customers around the world, in a wide range of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

Now you can get your operation up to speed, with our two newest value-priced fibre discs — powered by the performance of 3M Precision-Shaped Grain technology.



Tech Tip:

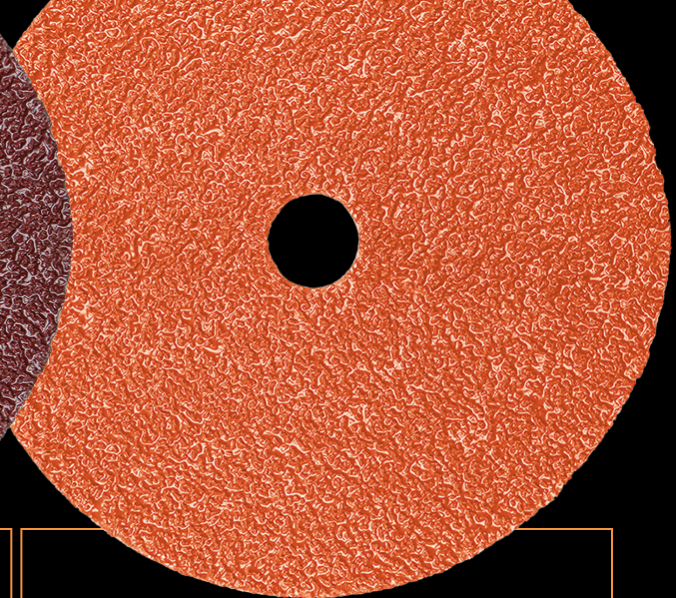
- Use the finest grade of abrasive that gets the job done. Finer grind lines are easier to remove. Align the grind line scratches with the grain line direction. Perpendicular scratches are more difficult to blend; parallel scratches blend easily during finishing.



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:

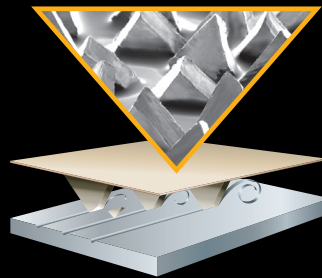
- **Faster cut** — lets you produce more parts per hour
- **Longer life** — for a lower cost per grind
- **Requires less pressure** — allows the abrasive to do more of the hard work for you
- **Smooth running** — easy to use



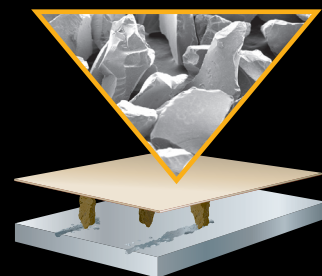
Tech Tip:

- ▶ 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

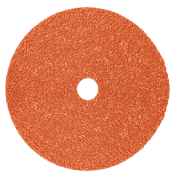
100 per case



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

100 per case



| Diameter (inches) | Grade | UPC (76308-) | Max RPM |
|-------------------|-------|--------------|---------|
| 4-1/2 × 7/8 | 36+ | 89627-0 | 13,300 |
| | 60+ | 89636-2 | 13,300 |
| | 80+ | 89645-4 | 13,300 |
| | 120+ | 89654-6 | 13,300 |
| 5 × 7/8 | 36+ | 89628-7 | 12,000 |
| | 60+ | 89637-9 | 12,000 |
| | 80+ | 89646-1 | 12,000 |
| | 120+ | 89655-3 | 12,000 |
| 7 × 7/8 | 36+ | 89629-4 | 8,600 |
| | 60+ | 89638-6 | 8,600 |
| | 80+ | 89647-8 | 8,600 |
| | 120+ | 89656-0 | 8,600 |
| TN Quick Change | | | |
| 4-1/2 × 5/8-11* | 36+ | 89633-1 | 13,000 |
| | 60+ | 89642-3 | 13,000 |
| | 80+ | 89651-5 | 13,000 |
| | 120+ | 89658-4 | 13,000 |
| 5 × 5/8-11* | 36+ | 89634-8 | 12,000 |
| | 60+ | 89643-0 | 12,000 |
| | 80+ | 89652-2 | 12,000 |
| | 120+ | 89659-1 | 12,000 |
| 7 × 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 Tinnerman Nut Attachment

Accessories for 3M™ Fibre Discs

| Product Name | UPC | Description | Max RPM | For Use With | Case |
|-------------------------------------|----------------|--------------------------------------|---------|--|------|
| 3M™ Disc Pad Hub | 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 |
| | | | | | |
| 3M™ Disc Pad Hub | 051144-45190-6 | For 7/8" center hole discs | N/A | For Use With: 3M™ Disc Pad Face Plates | 10 |
| | | | | | |
| 3M™ Disc Pad Face Plates | 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 | 5/8" Depth; 5/8-11" Thread | N/A | 3M™ Disc Pad Face Plates and Disc Pad Hubs | 10 |
| | 051144-05622-4 | 5/8" Depth; 5/8-11" Thread | N/A | 3M™ Disc Pad Face Plates and Disc Pad Hubs | 10 |
| 3M™ Disc Retainer Nuts | 051144-05621-7 | 1/2" Depth; 5/8-11" Thread | N/A | 3M™ Disc Pad Face Plates and Disc Pad Hubs | 10 |
| | 051144-05620-0 | 5/8" Depth; 5/8-11" Thread | N/A | 3M™ Disc Pad Face Plates and Disc Pad Hubs | 10 |
| 3M™ TN Quick Change Disc Backup Pad | 051111-56573-5 | 4 1/2" dia., 5/8-11" INT | 13,300 | 4 1/2" TN Discs | 5 |

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