

3M™ Cubitron™ II Fibre Disc 982C and 987C



*Winner of the 2010  
R&D 100 Award &  
The Editor's Choice Award*

A composite image showing a close-up of a grinding wheel in operation, with sparks flying. The wheel is orange and red. The background is a dark, industrial setting.

# Engineered Perfection. Epic Performance.



**CUBITRON<sup>II</sup>**

**3M**

# The Future is Now.



## Leave conventional abrasives in the past and do more than you thought possible with Cubitron™ II Fibre Discs.

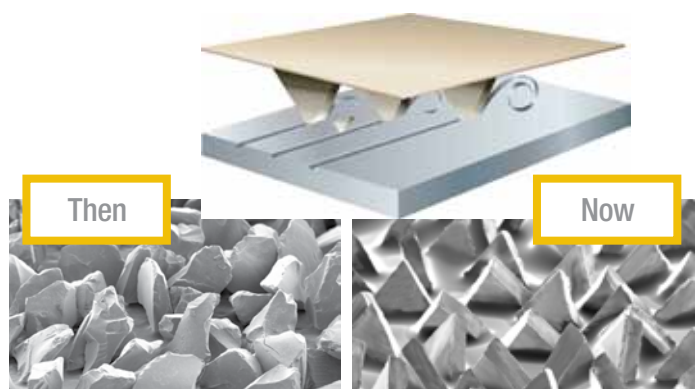
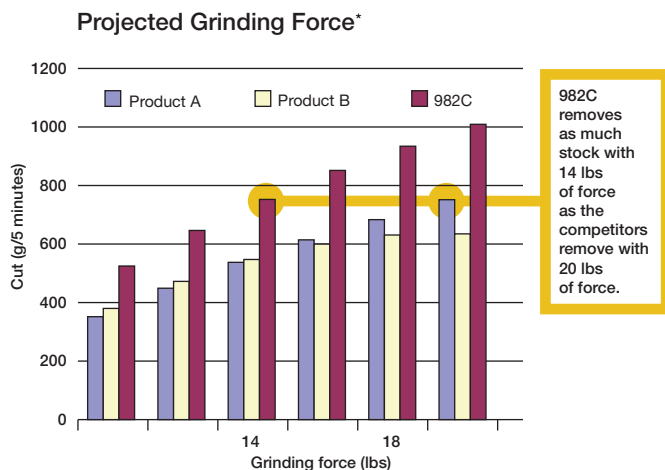
- Disc 982C: Your complete **mild steel** solution
- Disc 987C: Your complete **stainless steel** solution

Cubitron™ II Fibre Discs are made with revolutionary 3M precision-shaped ceramic grain technology, engineered with ultra-sharp, fast-cutting points that wear evenly, run cool and optimise mineral breakdown to maximise disc life.

## Get More

- More productivity
- More throughput
- More disc life
- More comfort
- More grinding speed

## For Less



Triangular-shaped grain (right image) is electrostatically oriented to form sharp peaks, each acting like individual cutting tools that slice through metal, wear evenly and provide super-long life and consistency at any grinding pressure.

## Unique + Grades for revolutionary products

Multiple grading systems have been created as mineral technology evolves, and Cubitron™ II abrasives are no exception.

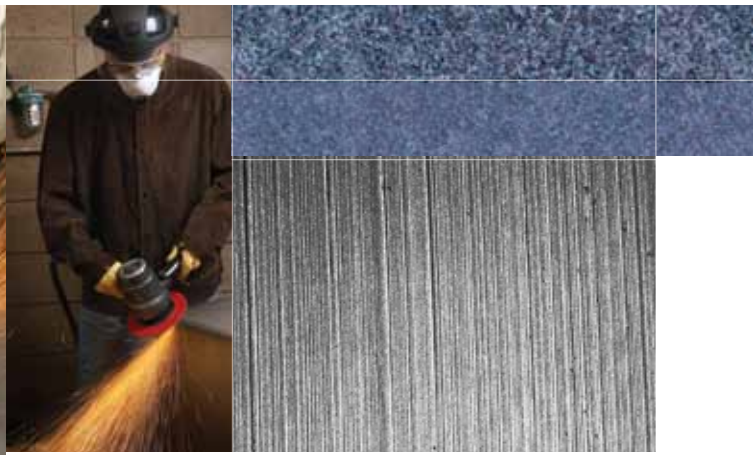
Engineered triangular shapes can't be boxed into the screens used for grading today. Precision-shaped grain is bigger, better, faster and longer lasting than ANSI-graded abrasives thanks to the clean cut provided by the sharp minerals that cut through metal.

You can count on 3M to meet or beat your current grinding process time.

## Target applications

- Weld removal
- Mill scale removal
- Removing pits and surface imperfections
- Beveling
- Edge chamfering





## Cubitron™ II Fibre Disc 982C: Works harder so you don't have to



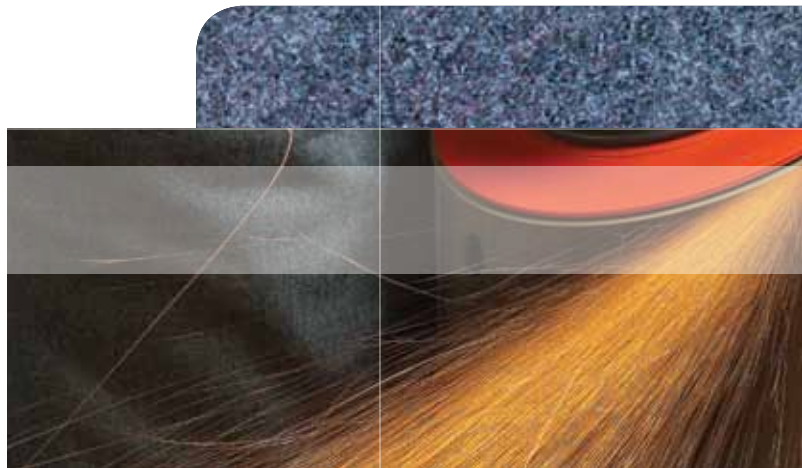
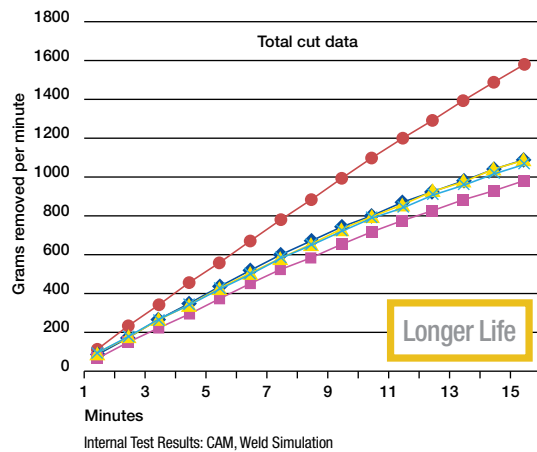
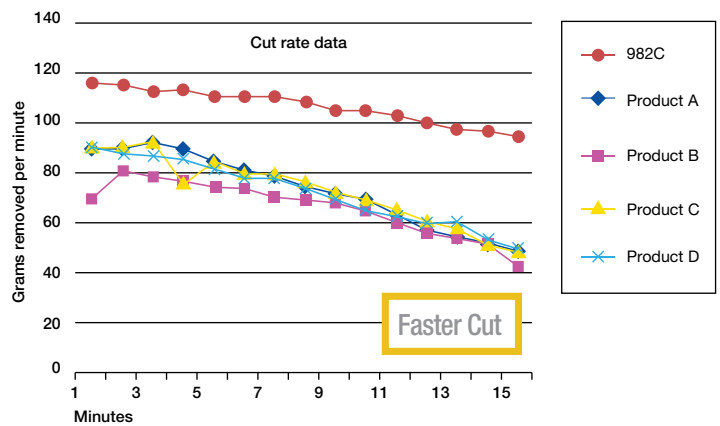
You have too much to do to settle for a disc that can't keep up. With the 982C, you get a disc that cuts faster, lasts longer and requires less grinding pressure than conventional abrasives. In fact, 982C works harder so you don't

have to. Without increasing the grinding force you currently use, 3M guarantees you'll get longer life and more parts with a Cubitron™ II fibre disc.

### 982C Customer test results

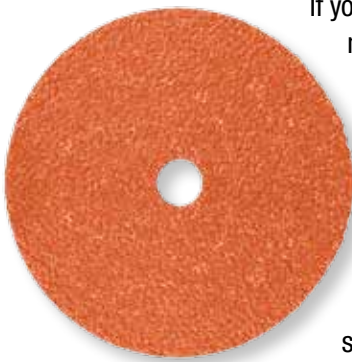
| Application        | Material   | Previous Disc Type | 982C Results                                       | Operator Comments   |
|--------------------|------------|--------------------|--|---|
| Weld (edge & flat) | Mild Steel | Ceramic, Grade 36  | 2 - 3 times more life experienced by ALL operators | "Much better cut"   |
| Flame cut          | Mild Steel | Ceramic, Grade 24  | 2 times life                                       | "A lot better; cuts faster longer"                          |
| Weld prep (flat)   | Mild Steel | Ceramic, Grade 36  | 2 times life                                       | "Don't have to push as hard; tougher material"              |
| Weld removal       | Mild Steel | Ceramic, Grade 36  | 4 hot welds/disc                                   | "Cuts into a hot weld where other discs won't"              |
| Edge work          | Mild Steel | Ceramic, Grade 36  | 2 - 3 times life                                   | "Got life from disc without having to push hard at the end" |

Actual results will vary based on end user manufacturing processes.





## Cubitron™ II Fibre Disc 987C: The coolest way to increase productivity



If you work with heat-sensitive materials like stainless steel, you'll appreciate the way the 987C disc digs in and cuts faster, lasts longer and requires less grinding pressure than conventional abrasives.

When you've doubled your standard part count with a single disc, you'll be tempted to get a new disc. But keep grinding. Some customers have seen up to 5 times the life.

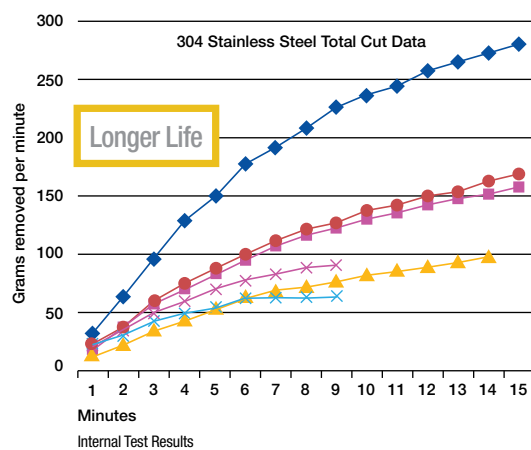
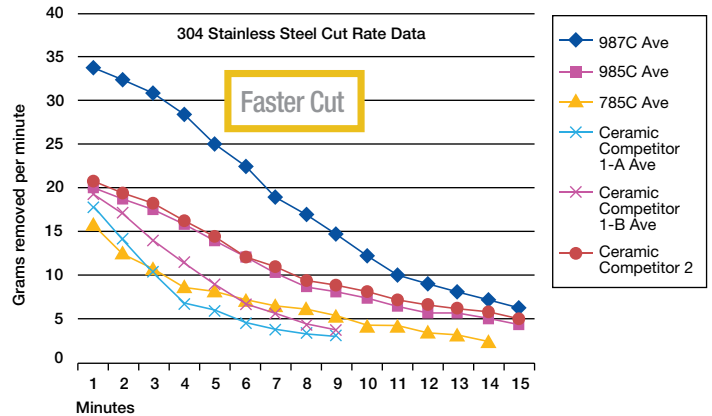
Try 987C for yourself and we'll guarantee you'll see improvement over your existing fibre disc.

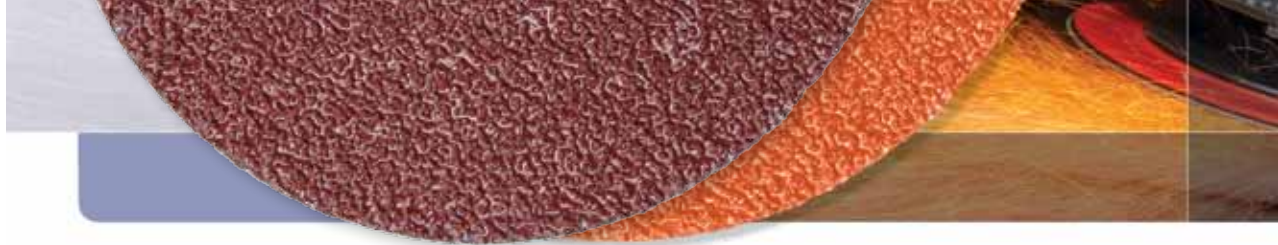
### 987C Customer Test Results

| Application         | Material          | Previous Disc Type | Grade Replaced | Results        |
|---------------------|-------------------|--------------------|----------------|----------------|
| Plate grinding      | High Nickel Alloy | Ceramic            | 24             | 2.5 times life |
| Plate grinding      | Stainless Steel   | Ceramic            | 24             | 2 times life   |
| Removing Mill Scale | Mild Steel        | Ceramic            | 36             | 2-4 times life |
| Gate removal        | 718 Inconel       | Ceramic blend      | 24             | 2-3 times life |
| Weld removal        | Stainless Steel   | Aluminium oxide    | 36             | 5 times life   |

Actual results will vary based on end user manufacturing processes.

Internal Test Results





## Speed Up The Entire Grinding Process.

Start with Cubitron™ II fibre discs for heavy stock removal and use the same tool/accessories to quickly change over to Scotch-Brite™ Light Grinding and Blending Discs for your finishing needs. Designed to easily blend and refine a grade 36 scratch, LGB discs can prepare surfaces for finishing (where greater than a 3 mil / 75 micron paint thickness is being applied) and eliminate the final DA sanding step.

### Grinding

#### 3M™ Cubitron™ II Fibre Disc 982C - Mild Steel

| Diameter (mm) | Grade | Ordering Code | Max Operating Speed | Carton QTY |
|---------------|-------|---------------|---------------------|------------|
| 100           | 36+   | 60440230021   | 13,300rpm           | 100        |
|               | 60+   | 60440230039   |                     |            |
|               | 80+   | 60440230047   |                     |            |
| 115           | 36+   | 60440229288   | 13,300rpm           | 100        |
|               | 60+   | 60440229353   |                     |            |
|               | 80+   | 60440229395   |                     |            |
| 125           | 36+   | 60440229270   | 12,000rpm           | 100        |
|               | 60+   | 60440229361   |                     |            |
|               | 80+   | 60440229403   |                     |            |
| 180           | 36+   | 60440229262   | 8,600rpm            | 100        |
|               | 60+   | 60440229379   |                     |            |
|               | 80+   | 60440229411   |                     |            |



#### 3M™ Cubitron™ II Fibre Disc 987C - Stainless Steel

| Diameter (mm) | Grade | Ordering Code | Max Operating Speed | Carton QTY |
|---------------|-------|---------------|---------------------|------------|
| 100           | 36+   | 60440230054   | 13,300rpm           | 100        |
|               | 60+   | 60440230062   |                     |            |
|               | 80+   | 60440230070   |                     |            |
| 115           | 36+   | 60440229312   | 13,300rpm           | 100        |
|               | 60+   | 60440229577   |                     |            |
|               | 80+   | 60440229619   |                     |            |
| 125           | 36+   | 60440229304   | 12,000rpm           | 100        |
|               | 60+   | 60440229585   |                     |            |
|               | 80+   | 60440229627   |                     |            |
| 180           | 36+   | 60440229296   | 8,600rpm            | 100        |
|               | 60+   | 60440229593   |                     |            |
|               | 80+   | 60440229635   |                     |            |



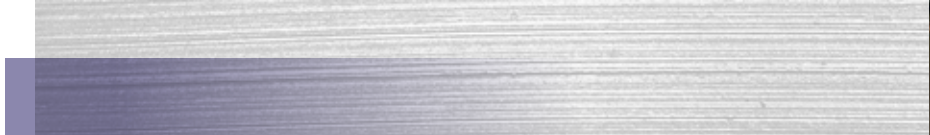
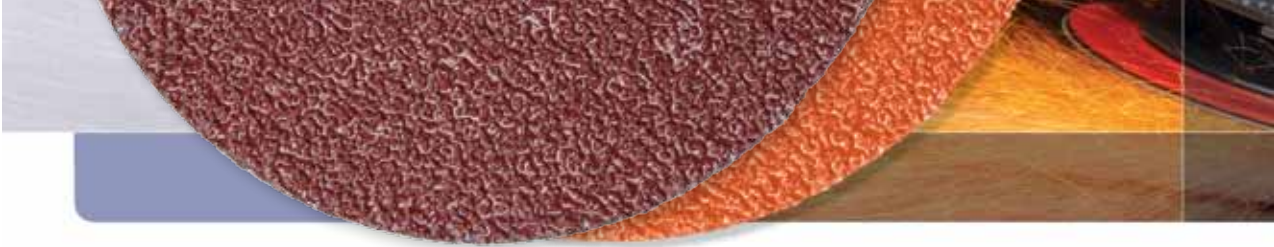
### Accessories

#### 3M™ Back-Up Pads

| Diameter (mm) | Face Type | Ordering Code | Max Operating Speed | Carton QTY |
|---------------|-----------|---------------|---------------------|------------|
| 100           | Flat      | XC003410104   | 15,300rpm           | 5          |
| 115           | Ribbed    | XC003410039   | 13,300rpm           | 10         |
| 125           | Ribbed    | XC003410047   | 12,200rpm           | 10         |
| 180           | Ribbed    | DC272921404   | 8,500 rpm           | 5          |

Everything you need for your toughest grinding applications on mild or stainless steel in grades 36+, 60+ and 80+. Join the Cubitron™ II abrasive revolution and take your productivity to the next level.





**Product Use:** All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

**Warranty:** Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. 3M makes no other warranties, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or any implied warranty arising out of a course of dealing, custom or usage of trade. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application.

**Limitation of Liability:** Except where prohibited by law, 3M and seller 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.



*"The annual R&D 100 Award identifies and celebrates the top technologies, products and processes of the year. The Awards, widely recognised as the "Oscars of Innovation", identifies and celebrates the top high technology products of the year." (www.rdmag.com)*



**3M Australia Pty Limited  
Abrasive Systems Division**  
Bldg A, 1 Rivett Road  
North Ryde NSW 2113 Australia  
Ph: 136 136  
Fax: (02) 9495 9247  
Email: [auindmkt@mmm.com](mailto:auindmkt@mmm.com)  
[www.3M.com.au](http://www.3M.com.au)

**3M New Zealand Ltd  
Abrasive Systems Division**  
94 Apollo Drive, Albany  
Auckland, New Zealand  
Phone: 0800 362 886  
Fax: 0800 362880  
Email: [3mnzib2@mmm.com](mailto:3mnzib2@mmm.com)  
[www.3M.com/abrasives](http://www.3M.com/abrasives)

3M and Cubitron are trademarks of 3M.

Please recycle. Printed in Australia  
© 3M 2011. All rights reserved.