

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 dark and industrial.

Engineered Perfection. Epic Performance.



CUBITRON II

3M

The Future is Now.



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

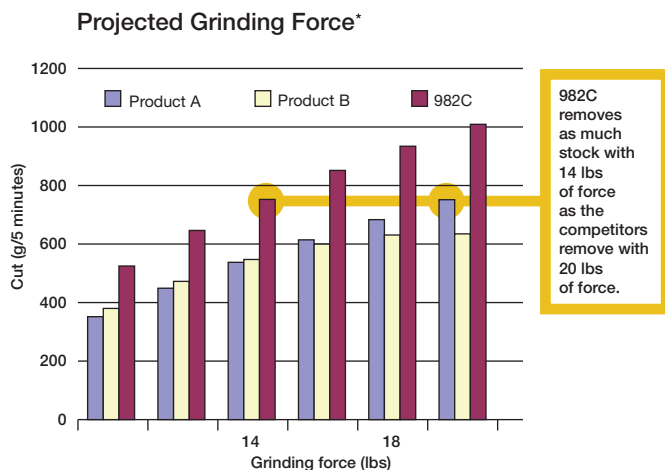
- Disc 982C: Your complete **mild steel** solution
- Disc 987C: Your complete **stainless steel** solution

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.

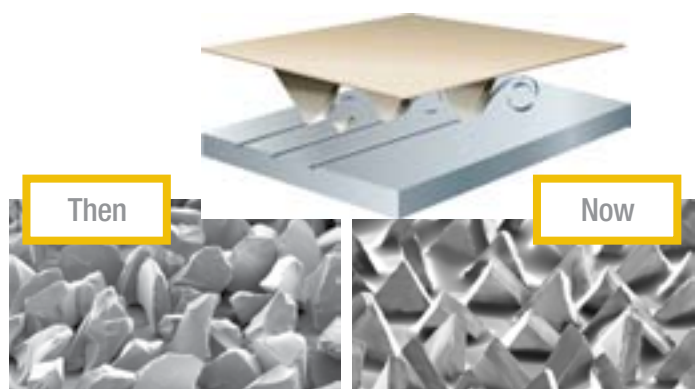
Get More

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

For Less



*Projected due to standardisation of the data based on actual internal grinding force tests.
1 Lbs = 0.45 Kgs



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

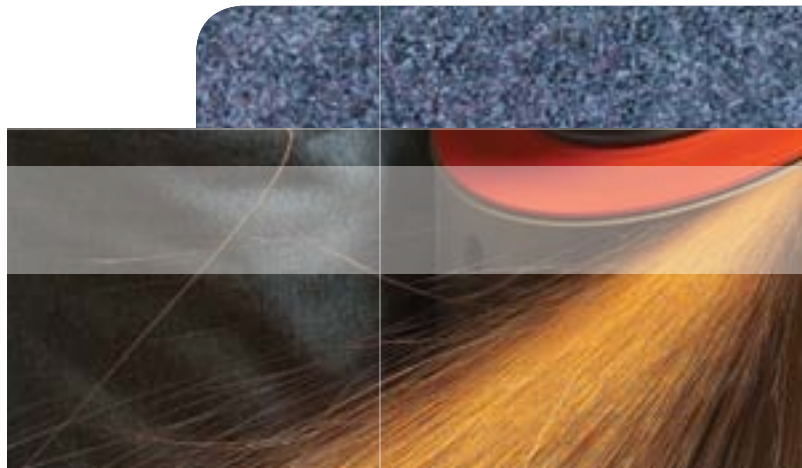
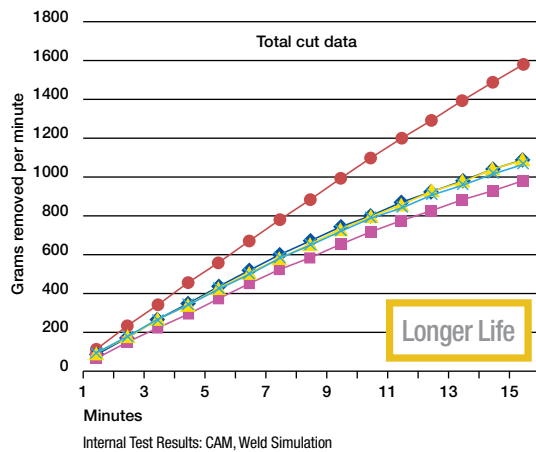
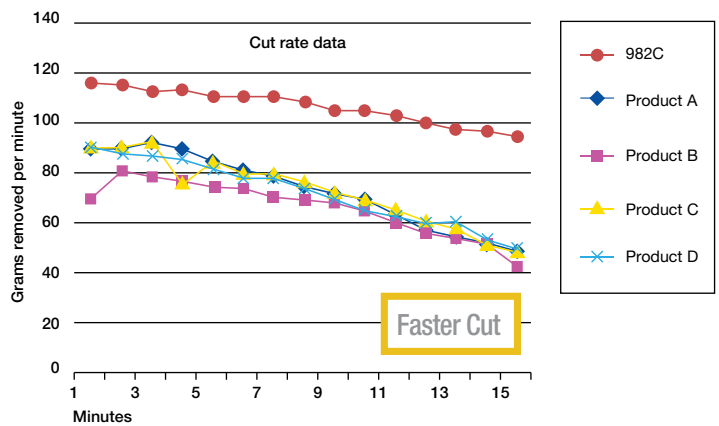


You have too much to do to settle for a disc that can't keep up. With the 982C, you get a disc that cuts faster, lasts longer and requires less grinding pressure than conventional abrasives. In fact, 982C works harder so you don't have to. Without increasing the grinding force you currently use, 3M guarantees you'll get longer life and more parts with a Cubitron™ II fibre disc.

982C Customer test results

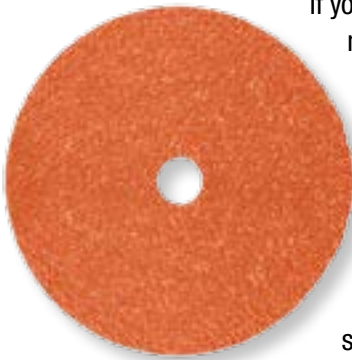
Application	Material	Previous Disc Type	982C Results	Operator Comments
Weld (edge & flat)	Mild Steel	Ceramic, Grade 36	2 - 3 times more life experienced by ALL operators	"Much better cut"
Flame cut	Mild Steel	Ceramic, Grade 24	2 times life	"A lot better; cuts faster longer"
Weld prep (flat)	Mild Steel	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.

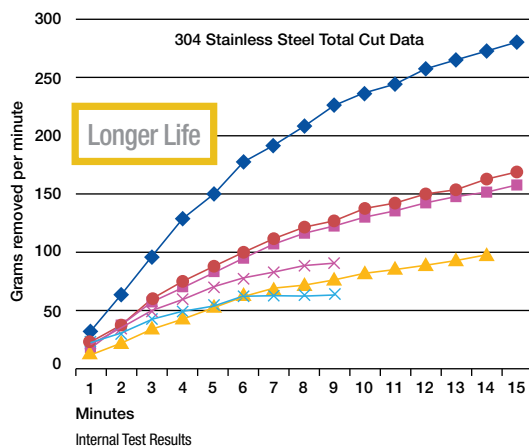
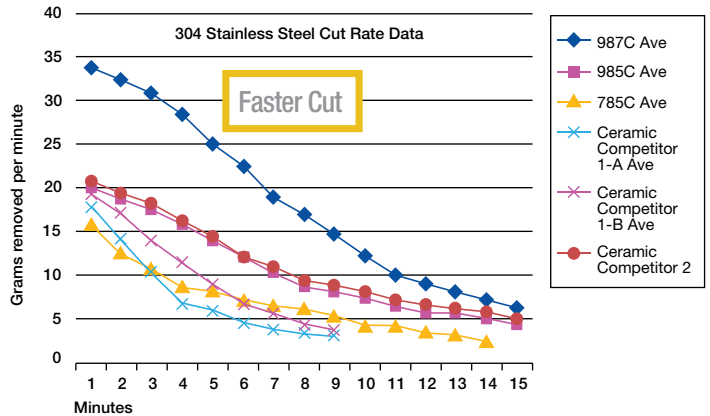
Try 987C for yourself and we'll guarantee you'll see improvement over your existing fibre disc.

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

Diameter (mm)	Grade	Ordering Code	Max Operating Speed	Carton QTY
100	36+	60000143929	13,300rpm	100
	60+	60440230039		
	80+	60440230047		
115	36+	60440227001	13,300rpm	100
	60+	60440229353		
	80+	60440229395		
125	36+	60440227019	12,000rpm	100
	60+	60440229361		
	80+	60440229403		
180	36+	60440227027	8,600rpm	100
	60+	60440229379		
	80+	60440229411		

3M™ Cubitron™ II Fibre Disc 987C

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		

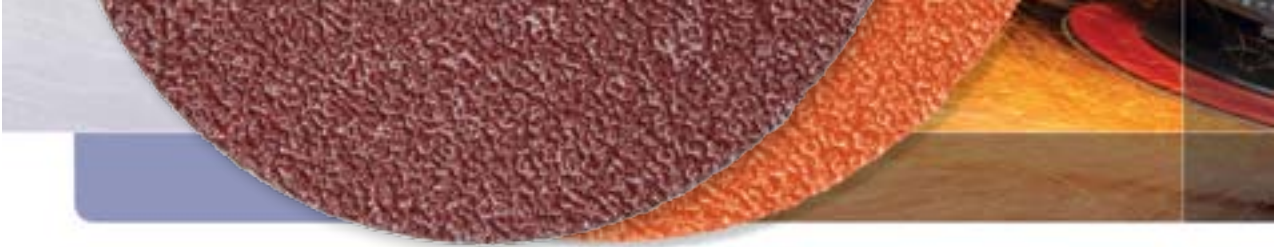


Accessories

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.



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"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)



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