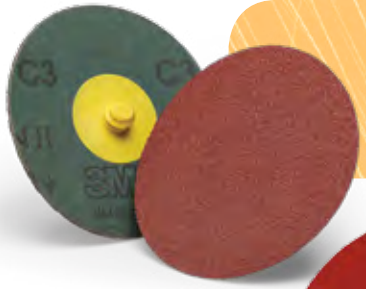
3M™ Cubitron™ II Abrasive Discs

For grinding, weld removal, deburring & more



New! 3M™ Cubitron™ II Fibre Disc 982C, with 3M™ Roloc™ Quick Change Attachment System

Power Up

For speed, comfort and long life, nothing else comes close to the power of 3M™ Cubitron™ II Abrasive Discs!

CUBITRON™ II

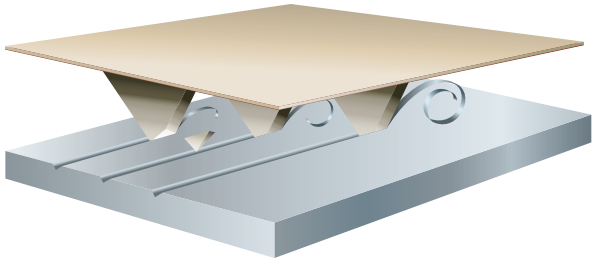
3M

3M™ Cubitron™ II Abrasive Discs

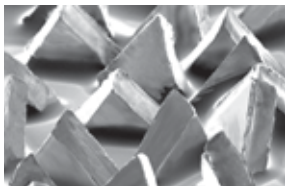
Now you have

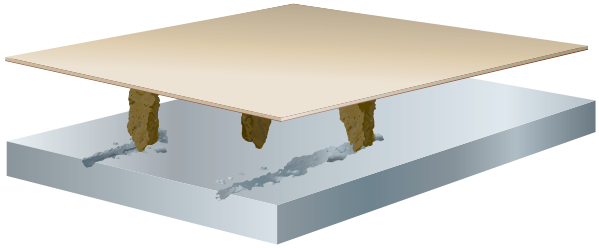
Engineered to help you do more

For grinding, weld blending, deburring and other tough metal finishing jobs, 3M™ Cubitron™ II Abrasive Discs deliver outstanding performance – thanks to a breakthrough 3M technology that re-writes the rules for speed, consistency and disc life.

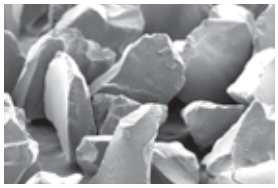


3M precision-shaped grains are electronically oriented to form sharp peaks that easily "slice" through metal. They stay cooler, cut faster and last longer.





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, shorter disc life and undesirable effects, such as burnishing.



A new era in abrasive performance

The first time you try Cubitron II discs, you'll quickly see that they cut faster, run cooler and last longer than other abrasive discs in your shop.

The secret lies in the revolutionary precision-shaped ceramic grain technology pioneered by 3M. As the triangular shaped grain wears, it continuously fractures to form sharp points and edges that slice through metal, wear evenly and provide super-long life and consistency at any grinding pressure.

Optimized for applications including:

- Grinding
- Weld & mill scale removal
- Removing pits and surface imperfections
- Deburring
- Beveling
- Edge chamfering

the power!

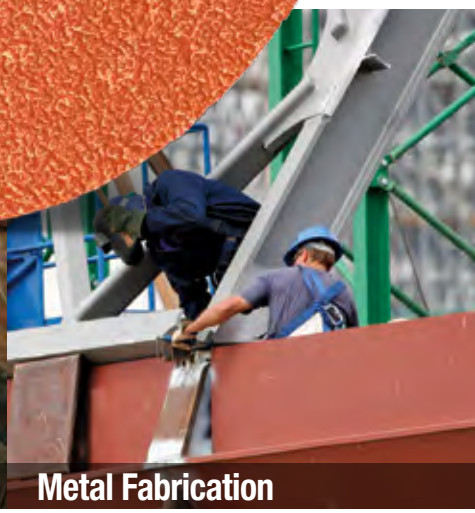
Wherever the job takes you, pack the added power of **3M™ Cubitron™ II Abrasive Discs**

Machinery Manufacturing

- Farm & construction
- Industrial
- Food processing
- Oil & gas

Transportation

- Ship and boat building
- Automotive
- Aerospace



Metal Fabrication

- Structural steel
- Sheet metal
- Machining

3M™ Cubitron™ II Fibre Discs

Cubitron II fibre discs are engineered to cut faster, cooler and with less grinding pressure than conventional abrasives. Plus they last up to 5 times longer, for increased productivity!

Tech Tip

Use 3M™ Disc Pad Face Plates – Red Ribbed to optimize product life of Cubitron II Fibre Discs – grades 36+, 60+ and 80+.

3M™ 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. Some customers have seen up to 5 times the life. Try 987C for yourself and you'll see improvement over your existing fibre disc. Saves time on applications including edge chamfering, beveling, weld removal and more!

Optimized for:

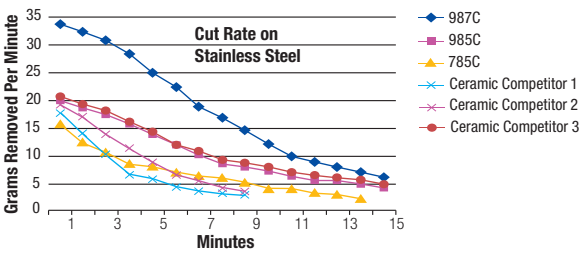
- Stainless steel
- High nickel alloys
- Superalloys
- Carbon steel

3M™ Cubitron™ II Fibre Disc 987C

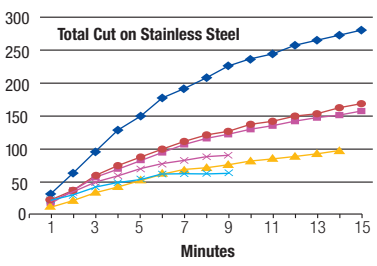
*Quick Change Attachments. Other sizes available upon request.

Diameter	Grade	UPC (051141-)	Max RPM	Min./Case
4 1/2" x 7/8"	36+	27447-8	13,300	25/100
	60+	27653-3		
	80+	27657-1		
4 1/2" x TN*	36+	27469-0	13,300	25/100
	60+	27653-3		
	80+	27664-9		
5" x 7/8"	36+	27448-5	12,000	25/100
	60+	27654-0		
	80+	27658-8		
5" x TN*	36+	27467-6	12,000	25/100
	60+	27662-5		
	80+	27665-6		
7" x 7/8"	36+	27449-2	8,600	25/100
	60+	27655-7		
	80+	27659-5		
7" x TN*	36+	27468-3	8,600	25/100
	60+	27663-2		
	80+	27666-3		
9 1/8" x 7/8"	36+	27450-8	6,600	25/100
	60+	27656-4		
	80+	27660-1		

Faster Cut!



Longer Life!



3M™ Cubitron™ II Fibre Disc 982C

Dare to wear it out

With the 982C, you get a disc that cuts faster, lasts longer and requires less grinding pressure than conventional abrasives. Without increasing the grinding force you currently use, you'll get longer life and more parts with a Cubitron II fibre disc. Ideal for applications including weld grinding, beveling, flame-cut edge cleanup and deburring.

Optimized for:

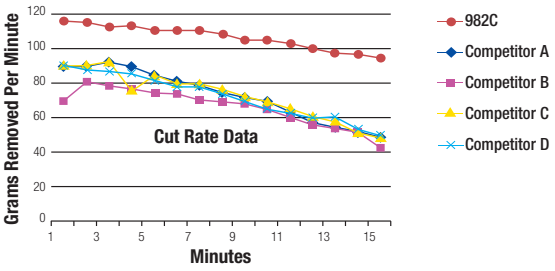
- Carbon steel

3M™ Cubitron™ II Fibre Disc 982C

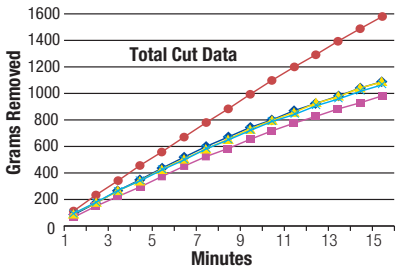
*Quick Change Attachments. Other sizes available upon request.

Diameter	Grade	UPC (051141-)	Max RPM	Min./Case
4 1/2" × 7/8"	36+	27400-3	13,300	25/100
	60+	27631-1		
	80+	27635-9		
4 1/2" x TN*	36+	27425-6	13,300	25/100
	60+	27639-7		
	80+	27642-7		
5" x 7/8"	36+	27401-0	12,000	25/100
	60+	27632-8		
	80+	27636-6		
5" x TN*	36+	27404-1	12,000	25/100
	60+	27640-3		
	80+	27643-4		
5" x GL*	36+	27406-5	12,000	25/100
7" x 7/8"	36+	27402-7	8,600	25/100
	60+	27633-5		
	80+	27637-3		
7" x TN*	36+	27405-8	8,600	25/100
	60+	27641-0		
	80+	27644-1		
7" x GL*	36+	27407-2	8,600	25/100
9 1/8" x 7/8"	36+	27403-4	6,600	25/100
	60+	27634-2		
	80+	27638-0		

Faster Cut!

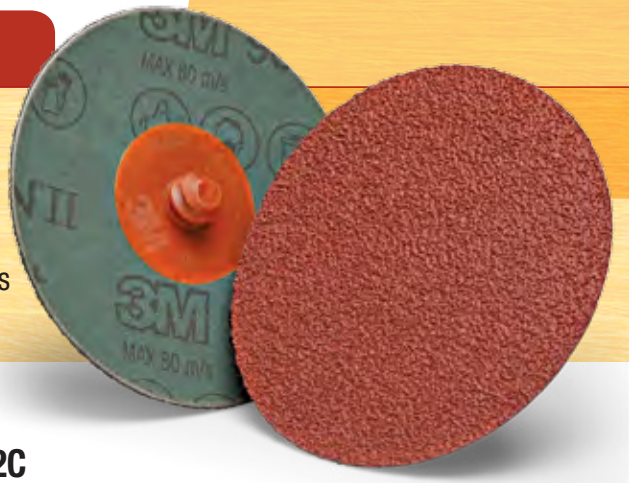


Longer Life!



3M™ Cubitron™ II Roloc™ Fibre Discs

Now you can enjoy the power and performance of Cubitron II abrasives – with the convenience and time savings of the 3M™ Roloc™ Quick Change Attachment System. Discs screw securely into the threaded mandrel without tools. Ideal for applications requiring frequent grade or disc size changes.



Did you know…?

While edges on the workpiece may cause premature edge wear on other discs, they can actually help precision-shaped grains fracture and extend the life of a Cubitron II Roloc Fibre Disc.

NEW 3M™ Cubitron™ II Roloc™ Fibre Discs 982C

Cubitron II technology requires less grinding pressure than conventional abrasives – so you can remove more material with less "push." Rigid fibre backing is tough and durable, enabling faster, more aggressive cuts.

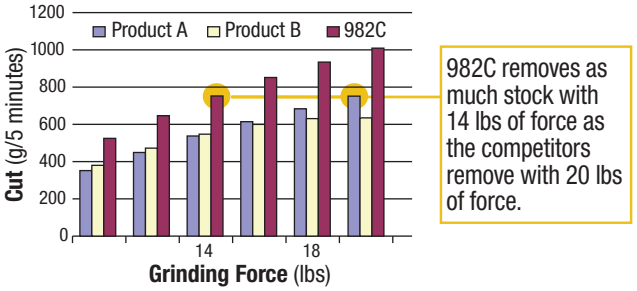
Optimized for:

- Carbon steel

3M™ Cubitron™ II Roloc™ Fibre Discs 982C

Diameter	Grade	Attachment Type (TR–Plastic Button, TSM–Metal Button)	UPC (051115-)	Max. RPM	Min/Case
2"	36+	TR	66778-7	25,000	50/500
		TSM	66781-7		
	60+	TR	66783-1		
		TSM	66786-2		
	80+	TR	66788-6		
		TSM	66791-6		
3"	36+	TR	66779-4	20,000	50/200
		TSM	66782-4		
	60+	TR	66784-8		
		TSM	66787-9		
	80+	TR	66789-3		
		TSM	66792-3		
4"	36+	TR	66780-0	12,000	25/100
	60+	TR	66785-5		
	80+	TR	66790-9		

Grinding Force



982C removes as much stock with 14 lbs of force as the competitors remove with 20 lbs of force.

3M™ Cubitron™ II Roloc™ Durable Edge Disc 984F

Featuring durable edge backing – for longer edge retention. With the 984F disc, these edges actually help the precision-shaped grains fracture, extending disc life. Features a flexible, durable cloth backing that stands up to aggressive grinding applications.

Optimized for:

- Stainless steel
- High nickel alloys
- Superalloys
- Carbon steel

3M™ Cubitron™ II Roloc™ Durable Edge Disc 984F

Size	Grade	Attachment Type (TR–Plastic Button, TSM–Metal Button)	UPC (051141-)	Max. RPM	Discs/Box
1 1/2"	36+	TR	27700-4	30,000	50/200
		TSM	27704-2		
	60+	TR	27708-0		
		TSM	27712-7		
	80+	TR	27716-5		
		TSM	27720-2		
2"	36+	TR	27701-1	25,000	50/200
		TSM	27705-9		
	60+	TR	27709-7		
		TSM	27713-4		
	80+	TR	27717-2		
		TSM	27721-9		
3"	36+	TR	27702-8	20,000	50/200
		TSM	27706-6		
	60+	TR	27710-3		
		TSM	27714-1		
	80+	TR	27718-9		
		TSM	27722-6		
4"	36+	TR	27703-5	12,000	25/100
		TSM	27707-3		
	60+	TR	27711-0		
		TSM	27715-8		
	80+	TR	27719-6		
		TSM	27723-3		

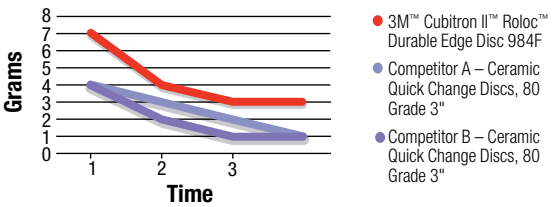
Tips for Best Results

For best results use Roloc™ Discs with 3M™ Power Tools. You'll maximize the benefits of 3M precision-shaped grains by using 3M Tools with the ideal horsepower and operating speeds.

3M Disc Sanders HP	Recommended Operating Speed	Material Type
1.5"/.5HP	20,000	Stainless Steel
2.0"/.5HP	20,000	Carbon Steel/ Aluminum
2.0"/1.0HP	15,000	Stainless Steel
3.0"/1.0HP	15,000	Carbon Steel/ Aluminum

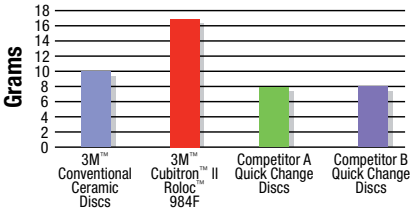
Faster Cut!

Weld Removal
Cubitron II Roloc 984F vs. Conventional Ceramic
(3", Grade 80/80+ equivalents)



Longer Life!

Total Cut
Cubitron II Roloc 984F vs. Conventional Ceramic
(3", Grade 80/80+ equivalents)



Tools and Accessories

Everything you'll need for your toughest grinding applications on carbon or stainless steel in grades 36+, 60+ and 80+. **Join the 3M™ Cubitron™ II abrasive revolution and take your productivity to the next level!**

Recommended Tools

3M™ Disc Sanders

	Model No.	Tool Dia. inch (mm)	Motor HP (W)	Max RPM	Length inch (mm)	Height inch (mm)	Air Inlet Thread	UPC (051141-)
	28328	2 (51)	.3 (224)	12,000	5.91 (150.2)	2.5 (63.5)	¼ NPT	20238-9
	28341			20,000				28341-8
	28329	2 (51)	.5 (372)	12,000	6.75 (171.5)	2.75 (69.9)	¼ NPT	20239-6
	20231			20,000				20231-0
	20232	3(76)	1 (744)	15,000	8.25 (209.6)	3.25 (82.6)	¼ NPT	20232-7
	28408	4-5 (100-127)	1 (744)	12,000	8.25 (209.6)	4.23 (107.4)	⅜ NPT*	28408-8
	28622	4-5 (100-127)	1 (744)	12,000	11.5 (292)	4.70 (119)	⅜ NPT*	28622-8

*Includes ⅜" to ¼" reducer.

3M™ Roloc™ Disc Pads

	Disc Pad Size inch	Hardness	TR UPC (051144-)	TSM UPC (051144-)	Max RPM
	1 ½	Hard	45100-5	77728-0	30,000
	2	Hard	45096-1	14212-5	25,000
	3	Hard	45091-6	14216-3	18,000
	4	Hard	83489-1	28578-8	12,000

Accessories for Fibre Discs

3M™ Disc Pad Face Plates

	Diameter inch	Face Type	Hardness	UPC (051115-)	Max RPM	Min/Case
	4 ½	Smooth	Hard-Black	14270-5	13,300	1/10
		Ribbed	Extra Hard-Red	28443-9		
	5	Ribbed	Hard-Black	81733-7	12,000	
			Extra Hard-Red	81732-0		
	7	Ribbed	Hard-Black	80515-0	8,600	
			Extra Hard-Red	80514-3		
	9	Ribbed	Hard-Black	81729-0	6,600	
			Extra Hard-Red	81728-3		

3M™ Disc Retainer Nuts

	Depth inch	Description	UPC (051115-)	Min/Case
	⅜	Long tool shaft lengths	05622-4	1/10
	½	Medium tool shaft lengths	05621-7	
	⅝	Short tool shaft lengths	05620-0	

3M™ Disc Pad Hub

	Diameter inch	Description	UPC (051115-)	Min/Case
	2 ½	Use with all size face plates	45205-7	1/10
	4 ½	Use with 7" and 9" face plates only	45190-6	
	2 ½	Use with all size face plates, tool shaft length ½" or less	88743-9	

3M™ Disc Pad Hub For Short Shaft Tool

	Diameter inch	Description	Thread	UPC (051115-)	Min/Case
	2 ½	Can be used with all face plates (4 ½–9"). External thread compatible with 3M retainer nuts or TN Fibre Discs	⅜"-24 internal ⅝"-11 external	28442-2	1/10

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3M

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

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