3M[™] Cubitron[™] II Abrasive Discs

For grinding, weld removal, deburring & more







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





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

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



- 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!

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

*Quick Change Attachments. Other sizes available upon request.

3M[™] Cubitron[™] II Fibre Disc 987C

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

Faster Cut!



Longer Life!



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 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.

• Carbon steel

3M[™] Cubitron[™] II Fibre Disc 982C

*Quick Change Attachments. Other sizes available upon request.

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

Faster Cut!







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.

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 | UPC (051115-) | Max. RPM | Min/Case |
|----------|------------|-----------------|---------------|-------------|----------|
| | 36+ | TR | 66778-7 | | |
| | 501 | TSM | 66781-7 | | |
| 2" | 60+ | TR | 66783-1 | 25,000 | 50/500 |
| 2 | 00+ | TSM | 66786-2 | | 50/500 |
| | 80+ | TR | 66788-6 | | |
| | 00+ | TSM | 66791-6 | | |
| | 36+ | TR | 66779-4 | | |
| | | TSM | 66782-4 | | |
| 3" | <u> </u> | TR | 66784-8 | | 50/000 |
| 3 | 60+ | TSM | 66787-9 | 20,000 | 50/200 |
| | 00. | TR | 66789-3 | | |
| | 80+ | TSM | 66792-3 | | |
| | 36+ | TR | 66780-0 | | |
| 4" | 60+ 80+ | TR | 66785-5 | 12,000 | 25/100 |
| | | TR | 66790-9 | | |

Grinding Force



Did you know...?

NEW

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.



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.

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

Optimized for:

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

| | Size | Grade | Attachment Type | UPC (051141-) | Max. RPM | Discs/Box |
|--|--------------------|----------|-----------------|---------------|-------------|-----------|
| | | 36+ | TR | 27700-4 | | |
| | | 30+ | TSM | 27704-2 | | |
| | 1 ¹ /2" | 60+ | TR | 27708-0 | 30,000 | 50/200 |
| | 1 72 | 00+ | TSM | 27712-7 | 30,000 | 30/200 |
| | | 80+ | TR | 27716-5 | | |
| | | 00+ | TSM | 27720-2 | | |
| | | 36+ | TR | 27701-1 | | |
| | | 50+ | TSM | 27705-9 | 25,000 | 50/200 |
| | 2" | 60+ | TR | 27709-7 | | |
| | 2 | | TSM | 27713-4 | | |
| | | 00. | TR | 27717-2 | | |
| | | 80+ | TSM | 27721-9 | | |
| | | 36+ | TR | 27702-8 | | |
| | | 30+ | TSM | 27706-6 | | |
| | 3" | 60+ | TR | 27710-3 | 20.000 | 50/200 |
| | 3 | 00+ | TSM | 27714-1 | 20,000 | 50/200 |
| | | 80+ | TR | 27718-9 | | |
| | | 00+ | TSM | 27722-6 | | |
| | | 36+ | TR | 27703-5 | | |
| | 411 | 30+ | TSM | 27707-3 | | |
| | | <u> </u> | TR | 27711-0 | 12,000 | 05/100 |
| | 4" | 60+ | TSM | 27715-8 | | 25/100 |
| | | 00. | TR | 27719-6 | | |
| | | 80+ | 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!



Time

Longer Life!

- SM[™] Cubitron II[™] Roloc[™] Durable Edge Disc 984F
 Competitor A – Ceramic Quick Change Discs, 80 Grade 3"
 - Competitor B Ceramic Quick Change Discs, 80 Grade 3"







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

$\mathbf{3M}^{\scriptscriptstyle \mathsf{TM}} \, \mathbf{Disc} \, \mathbf{Sanders}$

| | | Model No. | Tool Dia. inch (mm) | Motor HP (W) | Max RPM | Length inch (mm) | Height inch (mm) | Air Inlet Thread | UPC (051141-) |
|---|------|--------------|------------------------|-----------------|-----------------------|-------------------------|---------------------|----------------------|------------------|
| | AT X | 28328 | 2 (51) | .3 | 12,000 | 5.91 | 2.5 | 1⁄4 NPT | 20238-9 |
| 4 | | 28341 | 2 (31) | (224) | 20,000 | (150.2) | (63.5) | 74 NP I | 28341-8 |
| | | 28329 | 2 (51) | .5 (372) | 12,000 | 6.75 | 2.75 | 1⁄4 NPT | 20239-6 |
| | | 20231 | 2 (51) | · | 20,000 | (171.5) | (69.9) | 74 NP I | 20231-0 |
| - | | 20232 | 3(76) | 1 (744) | 15,000 | 8.25 (209.6) | 3.25 (82.6) | 1⁄4 NPT | 20232-7 |
| 4 | | 28408 | 4-5 (100-127) | 1 (744) | 12,000 | 8.25 (209.6) | 4.23 (107.4) | ³ ∕8 NPT* | 28408-8 |
| | | 28622 | 4-5 (100-127) | 1 (744) | 12,000 | 11.5 (292) | 4.70 (119) | ³ ⁄8 NPT* | 28622-8 |
| 1 | | | | *Include | s ³ /8" to | ¹ /4" reduce | er. | | |

Accessories for Fibre Discs

3M[™] Disc Pad Face Plates

| | Diameter inch | Face Type | Hardness | UPC (051115-) | Max RPM | Min/Case |
|---|------------------|--------------|----------------|------------------|---------|----------|
| | 4 1/2 | Smooth | Hard-Black | 14270-5 | 13,300 | |
| | 4 72 | Ribbed | Extra Hard-Red | 28443-9 | 13,300 | 1/10 |
| | 5 | Ribbed | Hard-Black | 81733-7 | 10.000 | |
| 1 | | | Extra Hard-Red | 81732-0 | 12,000 | |
| | 7 | Ribbed | Hard-Black | 80515-0 | 0.000 | |
| | 7 | | Extra Hard-Red | 80514-3 | 8,600 | |
| | 0 | Dillo | Hard-Black | 81729-0 | 0.000 | |
| | 9 | Ribbed | Extra Hard-Red | 81728-3 | 6,600 | |

3M[™] Disc Retainer Nuts

| 0 | Depth inch | Description | UPC (051115-) | Min/Case | |
|-------|-----------------|---------------------------|------------------|----------|--|
| 09 | ³ /8 | Long tool shaft lengths | 05622-4 | | |
| Geral | 1/2 | Medium tool shaft lengths | 05621-7 | 1/10 | |
| | 5/8 | Short tool shaft lengths | 05620-0 | | |

3M[™] Disc Pad Hub

| | Diameter inch | Description | UPC (051115-) | Min/Case | |
|---|-------------------|---|------------------|----------|--|
| | 2 ¹ /2 | Use with all size face plates | 45205-7 | | |
| 0 | 4 1/2 | Use with 7" and 9" face plates only | 45190-6 | 1/10 | |
| | 2 1/2 | Use with all size face plates, tool shaft length 1/2" or less | 88743-9 | | |

3M[™] Roloc[™] Disc Pads

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

3M[™] Disc Pad Hub For Short Shaft Tool

| Diameter inch | Description | Thread | UPC (051115-) | Min/Case | |
|------------------|--|--|------------------|----------|--|
| 2 1/2 | Can be used with all face plates (4 $1/2-9$ "). External thread compatible with 3M retainer nuts or TN Fibre Discs | ³ /8"-24 internal ⁵ /8"-11 external | 28442-2 | 1/10 | |

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