



Grinding reinvented.

3M™ Cubitron™ II abrasives are revolutionising the cutting and grinding process. They're faster cutting and longer lasting than conventional abrasives wheels. With 3M precision-shaped grain technology that transforms the process of cutting and grinding metal, 3M Cubitron II abrasives:

- Cut faster
- Stay sharp longer
- Require less pressure
- Help reduce operator fatigue
- Increase productivity









Conventional ceramic abrasive grain is irregular in shape. Instead of a clean, machining action, the grain "ploughs" through the metal, causing heat build-up, slower cutting and shorter life.

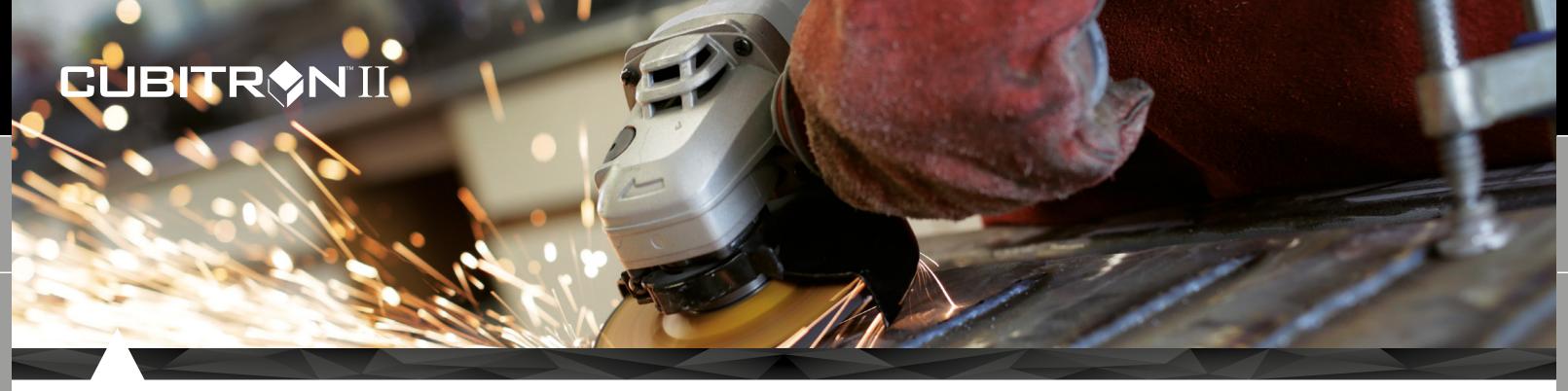
3M precision-shaped grain in Cubitron II abrasives continuously fracture to form sharp points and edges – slicing cleaner and faster, staying cooler and lasting many

A new category of performance.

3M precision-shaped grain technology in Cubitron II abrasives takes productivity to a new level. When compared to traditional products made with aluminium oxide, zirconia or ceramic grain, 3M Cubitron II abrasives cut faster and last longer.

3 reasons why it's better:

- Cuts faster helps improve productivity and throughput
- Lasts longer helps save money
- Easier to use good for your workers, good for your business





Cut-Off Wheel



Depressed Centre Grinding Wheel



Cut and Grind Wheel



Fibre Disc



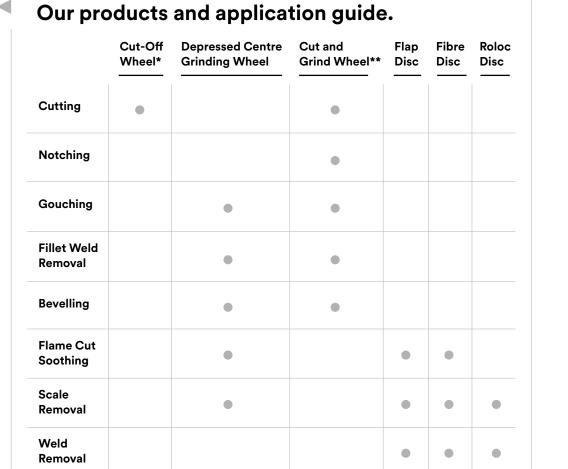
Flap Disc



Contoured

Areas

Roloc



suitable product for your application. *Cut Off Wheels **Depressed Centre Grinding Wheels

The benefits.

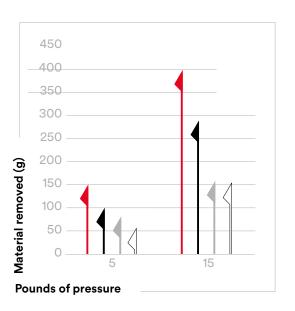
- Less wear and tear on your operators
- More material removed by the same amount of effort
- Improved productivity

Less pressure required, more material removed.

Competitive products require up to three times the amount of pressure to match the cut of 3M Cubitron II abrasives.

Used in industries such as:

Ship Building | Structural Steel | General Met Fab Oil and Gas | Agriculture | Industrial and **Construction Machinery**



- 3M Cubitron II
- 3M High Performance
- Comp A Tier
- O Comp B Tier

3M™ Cubitron™ II products perform across a variety of applications and substrates. This table demonstrates the most

CUBITR Premium performance • 3M™ precision-shaped grain for ultra fast cut and long life Specially formulated for use on stainless and mild steel Cool cutting for a higher quality and faster cut • Fast, cool cutting helps extend the life of the tool

Cuts faster into metal.

3M™ Cubitron™ II **Cut-Off Wheels**

- 3M Cubitron II Cut-Off Wheels with precisionshaped grain are engineered to cut faster than competitive ceramic products, offering significant productivity gains.
- Triangular shaped ceramic grain wears evenly, runs cool, and optimizes mineral breakdown, for extra long life.
- Rigid, reinforced resin-bonded wheel slices through almost all materials including stainless steel, mild steel, and aerospace alloys.
- Wheel must have a maximum operating speed greater than or equal to the maximum speed of the power tool used.



Optimised performance for:

Cutting

2N/ Cubitron	II Cut-Off Wheels
	II Cut-Off whiteels

Part Nº	Size	Max RPM	Туре
65450	76mm x 1.0mm x 6.35mm	25,450	
65452	76mm x 1.0mm x 9.53mm	25,450	
65501	100mm x 2.0mm x 15.88mm	15,300	
65513	115mm x 1.0mm x 22.23mm	13,300	
65454	115mm x 1.6mm x 22.23mm	13,300	
65512	125mm x 1.0mm x 22.23mm		
65455	125mm x 1.6mm x 22.23mm	12,200	41
65461	125mm x 2.0mm x 22.23mm		
65456	180mm x 1.6mm x 22.23mm	8,500	
65462	180mm x 2.0mm x 22.23mm	8,300	
65463	230mm x 2.0mm x 22.23mm		
65471	230mm x 2.5mm x 22.23mm	6,650	
65487	230mm x 3.0mm x 22.23mm		
65472	115mm x 2.5mm x 22.23mm	13,300	
65477	125mm x 2.5mm x 22.23mm	12,200	40
65479	180mm x 2.5mm x 22.23mm	8,500	42
65481	230mm x 2.5mm x 22.23mm	6,650	

May DDM Tune

Changing the way you grind.

3M™ Cubitron™ II Depressed **Centre Grinding Wheels**

- Redesigned to last longer while still providing the fast cut rate you expect from 3M Cubitron II products.
- The resin bond has been reformulated and, at the same time, the mineral blended. This means the wheel will do more work before the bond breaks down and releases the used mineral - increasing the life of the wheel.
- Cool cutting wheels require less pressure for great results, making them easier to use.

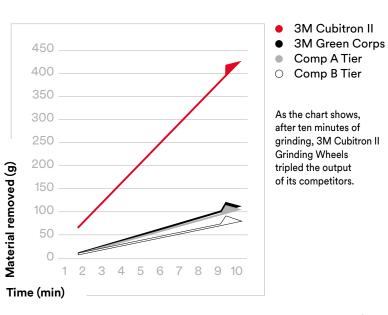
3M Cubitron II Depressed Centre	
Grinding Wheel T27	

Part N°	Size	Max RPM
94003-Q	115mm x 7.0mm x 22.3mm	13,300
94002-Q	125mm x 7.0mm x 22.3mm	12,200
94001-Q	150mm x 7.0mm x 22.3mm	10,200
94000-Q	180mm x 7.0mm x 22.3mm	8,500
93999-Q	230mm x 7.0mm x 22.3mm	6,650



Optimised performance for:

- Gouging
- Fillet weld removal
- Bevelling
- Flame cut soothing
- Scale removal



As the chart shows,

Comp A Tier

after ten minutes of grinding, 3M Cubitron II **Grinding Wheels** tripled the output of its competitors.



Versatile and tough, design to last longer.

3M[™] Cubitron[™] II Cut and Grind Wheels

Now you can cut AND grind without changing wheels! 3M Cubitron II presents the new Cut and Grind Wheel, giving you the excellent durability and toughness of the Depressed Centre Grinding Wheel combined with the ultra fast and cool cutting of the 3M Cubitron II Cut-Off Wheels.

Using 3M Cubitron II Cut and Grind Wheels could save you up to 57% in cost in your grinding operations.

4		oitron II Cut and Vheel T27	
	Part N°	Size	Max RPM
	81155	100mm x 4.2mm x 9.53mm	15,300
	81153	100mm x 4.2mm x 15.88mm	15,300
	81157	115mm x 4.2mm x 22.2mm	13,300
	81149	125mm x 4.2mm x 22.2mm	12,200
	81152	150mm x 4.2mm x 22.2mm	10,200
	81148	180mm x 4.2mm x 22.2mm	8,500
	81154	230mm x 4.2mm x 22.2mm	6,650

Optimised performance for:

- Cutting
- Notchin
- Gouging
- Fillet weld removal
- Bevelling

The coolest way to increase productivity.

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

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.

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 3M Cubitron II Fibre Disc.

+	+	

Optimised performance for:

- Flame cut soothing
- Scale removal
- Weld removal Contoured areas
- For optimum results use 3M Cubitron™ II Ribbed Back Up Pads.

. 115mm 64860, 127mm 64861, 180mm 64862.

Part N°	Size	Grade	Max RPM	MOQ
27772		36+		
27773	100mm x 16mm	60+	15,200	
27774		80+		
27619		36+		
27645	115mm x 22mm	60+	13,200	
27649		80+	400	
27618		36+		100
27646	127mm x 22mm	60+	12,000	
27650		80+		
27744		36+		
27742	180mm x 22mm	60+	8,500	
27743		80+		

3M Cubitron II Fibre Disc 987C

3M Cubitron II Fibre Disc 982C

	Size	Grade	Max RPM	MOQ
	36+			
10	0mm x 16mm	60+	15,200	
		+08		
		36+		
115	115mm x 22mm	60+	13,200	
	+08		400	
		36+		100
12	7mm x 22mm	60+	12,000	
		+08		
	36+ 180mm x 22mm 60+	36+		
18		60+	8,500	
		80+		

Now you can enjoy the awesome cutting power of 3M precision-shaped grain technology – in a versatile long-lasting flap disc construction! 3M Cubitron II Flap Discs 967A let you breeze through a wide range of tough jobs around the shop, including grinding, weld temoval, deburring and more. Grinding and blending in a single step! Plus, they cut with less pressure, for greater operator comfort.

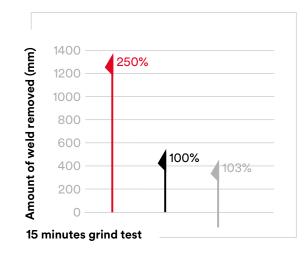
The benchmark of flexible grinding.

3M[™] Cubitron[™] II Flap Disc 967A

3M Cubitron II Flap Discs are flexible, so they easily follow curves and contours. They are less prone to gouging, and include a grinding aid, to help keep the disc cool on heat-sensitive metals. And, because their unique construction allows more abrasive material to be loaded on, they keep on cutting – long after other discs have called it quits!

Use it on stainless steel, carbon steel, aluminium and non-ferrous metals. Grinding aid helps keep product cool on heat-sensitive metals.

- 3M Cubitron II 967A 40+
- Competitive Ceramic 36 Grit
- Competitive Ceramic 40 Grit



CUBITRENII CO

Optimised performance for:

- Flame cut soothing
- Scale removal
- Weld removal

3M Cubitron II Flap Disc 967A (All discs have Y-weight poly-cotton backing.) Flat: Conical:

Part N°	Size	Grade	Max RPM
65066		40+	
65067	115mm	60+	13,300
65068		80+	
65069	9 40	40+	
65070	125mm	60+	12,200
65071		80+	
65072		40+	
65073	3 180mm 60	60+	8,600
65074		80+	

Part Nº	Size	Grade	Max RPM
65051		40+	
65052	115mm	60+	13,300
65053		80+	
65054		40+	
65055	125mm	60+	12,200
65056		80+	
65060		40+	
65061	180mm	60+	8,600
65062		80+	

Don't fear the edge.

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

When you're using a disc sander, you're relying on the edge of your abrasive disc to grind, blend and finish. If you've been frustrated by edge failures, make the switch to 3M Cubitron II Roloc 984F. It's durable edge backing – combined with 3M precision-shaped grain – make this one tough disc that lasts longer and performs stronger.

- Features a durable edge backing for extended edge retention.
- Precision-shaped grain and grinding aid allow discs to run cooler.
- Precision-shaped grain self-sharpens for consistent and continuous cutting power with less pressure.
- Quality 3M Roloc buttons for an easy on/off attachment that stays in place.
- For grinding, blending, finishing and deburring applications on virtually all metal types.



3M Cubitron II Roloc Durable Edge Disc 984F

Part N°	Size ——	Grade	MOS
27700	38mm	36+	
27701		36+	
27709	50mm	60+	
27717		80+	20,000
27702		36+	
27710	75mm	60+	
27718		80+	

3M Roloc Accessories

Part N°	Size	Grade	Max RPM
45095	50 01 1	Medium	25,000
A45096		Hard	25,000
45092	50mm x 6 thread	Medium	18,000
45091		Hard	20,000
84998	75mm x M14-2.0	Hard	20,000

Optimised performance for:

- Flame cut soothing
- Scale removal
- Weld removal
- Contoured areas

• 3M Cubitron II belts Ceramic Grain

Alumina-Zirconia

Aluminum Oxide

3M™ Cubitron™ II Abrasive Belts have raised the bar for grinding performance and productivity - thanks to breakthrough 3M technology that re-writes the rules for speed, consistency and belt life.

Our abrasive belts cut faster and last longer.

3M™ Cubitron™ II Belts

- Average up to 30% faster cutting on hard-to-grind metals than the next-best competitive belt.
- Cuts cooler diverts heat from the workpiece and belt to the swarf. Helps eliminate burnishing and heat stress.
- Significantly longer than conventional ceramic aluminium oxide belts.



How cool is this?

3M Cubitron II Belts are engineered to run cooler, eliminating metal discoloration/ oxidation and reducing the chance of heat-related stress cracks.

The photo on the right shows four identical 304 stainless steel bars after nine grinding cycles of ten seconds each. While the three bars that were ground using conventional ceramic abrasive belts show varying degrees of oxidation, the bar ground with a 3M Cubitron II Belt is free of burnishing.

■ Belt guide selection. Conventional Recommended

Product Grade	Replacement	Improvements	
		Faster Cut Longer Life	Reduced Sequence Steps
24	36+	•	
36			
	60+		
40	36+	•	
	40+		
	60+	•	
50	36+	•	
	40+		
	60+	•	
	80+		
60	60+		
	80+		
80			
100			
	120+		
120			

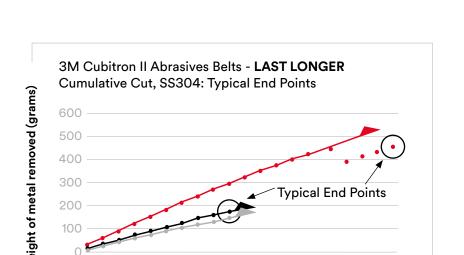
Because of the enhanced efficiency and durability of 3M Cubitron II Belts, you can use a similar or finer grade than your current belt. And in many cases, by switching to a 3M Cubitron II Belt, you can reduce the number of steps in your sequence, without sacrificing surface finish.



3M Cubitron II belts

Potential

- Competitor 1
- Competitor 2 O Competitor 3



10 12

3M Cubitron II Abrasives Belts - CUT FASTER

Cycle

Time

- 3M Cubitron II belts
- Competitor 1
- Competitor 2

3M surveys indicate that most operators stop using a belt when performance drops to 2/3 of its initial cut rate. As this graph shows, 3M Cubitron II Belts take twice as long to reach that end point as conventional ceramic abrasive belts. In addition, 3M Cubitron II Belts cut faster throughout their entire life. Bottom line?

Not only is more work done per unit of time, but also much more total work





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ASD14A007
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