

How-to

Optimizing Productivity in Weld Grinding

Brought To You by 3M Abrasives | Jan 04, 2021

What you need to know

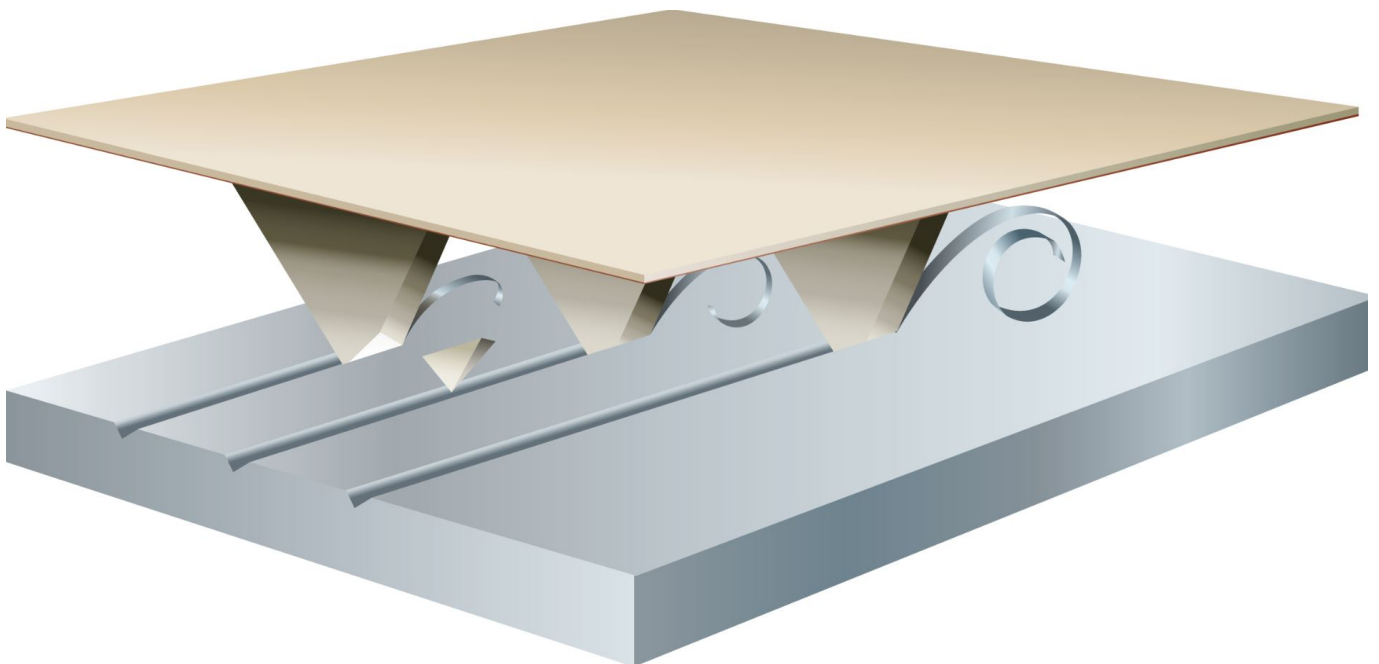
3M's breakthrough technology re-writes the rules for speed, consistency and abrasive life.

3M Fibre Discs represent a new class of high-performance right angle abrasives

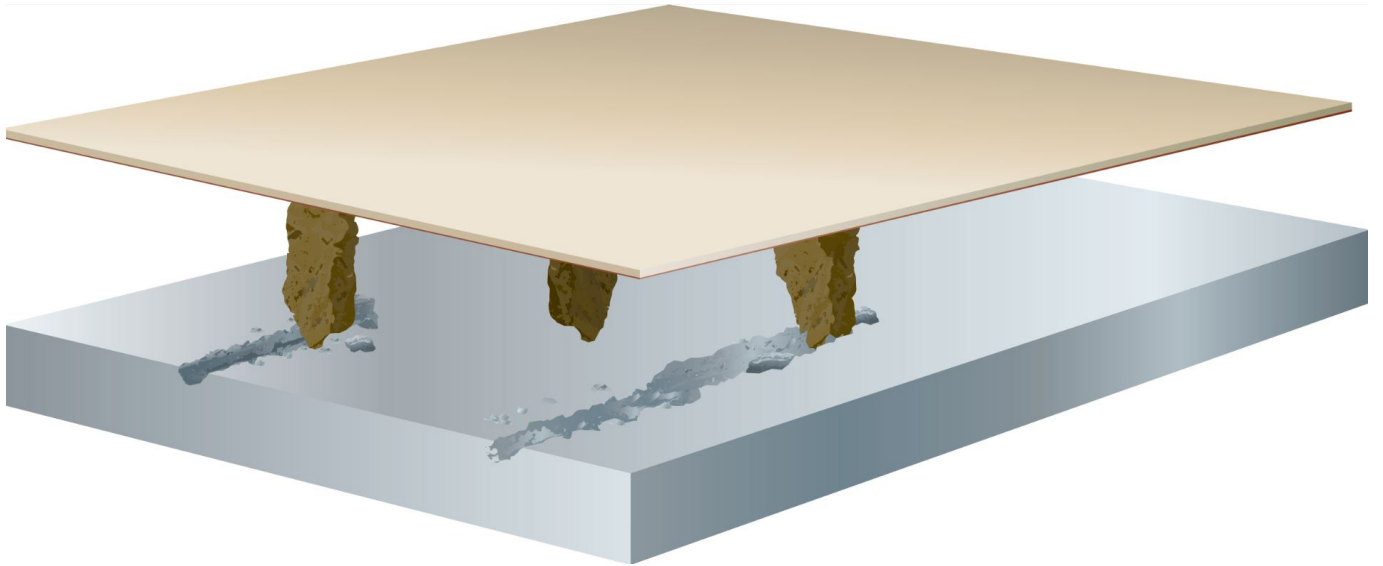
Constructed with a poly-cotton backing that exposes fresh mineral as it wears, for a fast, Cubitron II Depressed Center Grinding Wheels are fast cutting, long lasting and require

For speed, long life and ease of use, nothing comes close to the power of Cubitron II abrasives.

For grinding, weld blending, deburring and other tough metal finishing jobs, 3M™ Cubitron™ II Abrasives outperform other discs in their class – thanks to a breakthrough 3M technology that re-writes the rules for speed, consistency and abrasive life. 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, and provide a fast cut, long life and smooth-running feel.



3M precision-shaped grain uses 3M microreplication technology to form sharp peaks that easily "slice" through metal - cutting cooler, faster and lasting longer than conventional grain.



Conventional ceramic abrasives grain tends to "plow" through the metal, causing heat to build up in the workpiece and the abrasive - resulting in a slower cut and shorter disc life.

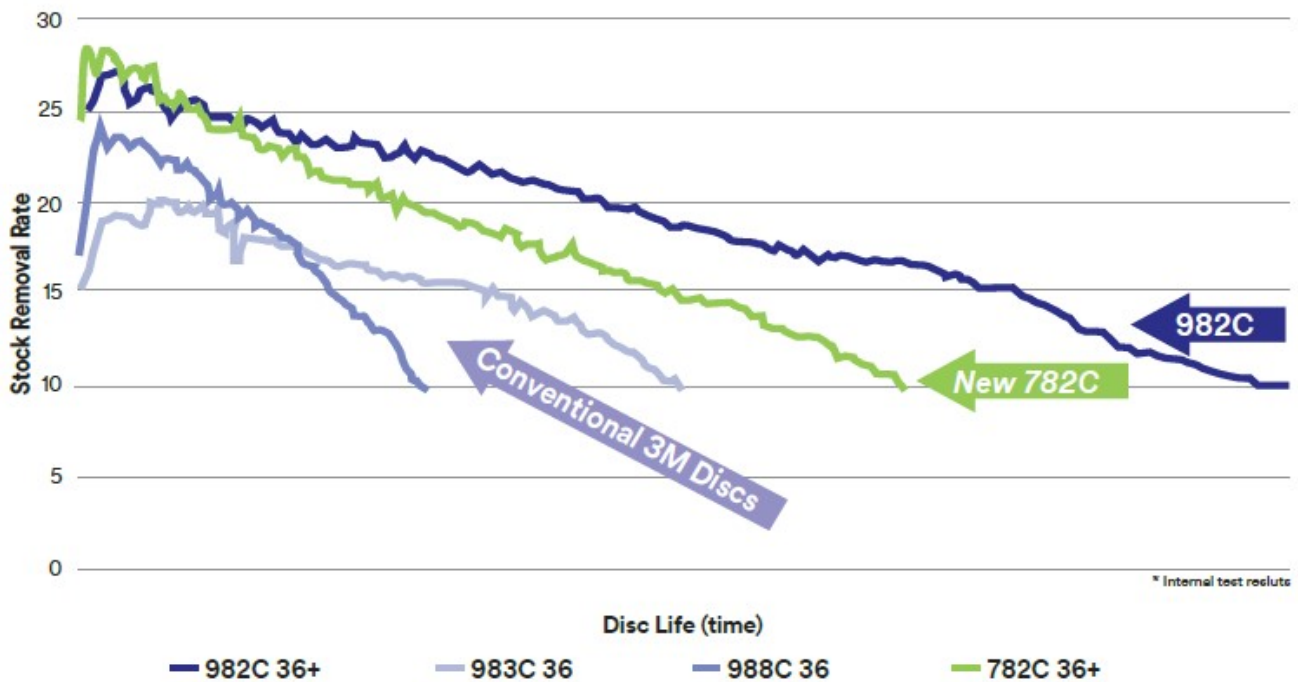
3M™ Fibre Discs 782C and 787C

An unbeatable combination of performance and value

3M Fibre Discs 782C and 787C represent a new class of high-performance right angle abrasives – powered by the legendary speed and long life of 3M Precision-Shaped Grain. They are an ideal choice for applications like weld removal, beveling, edge chamfering and more – offering a faster cut and longer life than alumina zirconia (AZ) and conventional ceramic abrasives. 3M™ Fibre Disc 782C is an ideal choice for carbon steel.

Choosing the best fibre disc for the job

What's the difference between 3M™ Cubitron™ II Fibre Discs and 3M™ Fibre Discs with Precision-Shaped Grain?



3M Cubitron II fibre discs provide a fast cut and very long life, making them an ideal choice for heavy volume production applications.

If your customer still wants a very fast cut but is price sensitive, or doesn't need the extreme long life of a Cubitron II disc, 3M Fibre Discs 782C or 787C are ideal alternatives that outlast conventional ceramic fibre discs.*

3M™ Cubitron™ II Flap Discs 967A

Constructed with a poly-cotton backing that exposes fresh mineral as it wears, for a fast, forgiving cut. Performs well on many common applications, offering a great balance of fast cut and long life.

3M™ Cubitron™ II Depressed Center Grinding Wheels

Cubitron II Depressed Center Grinding Wheels are fast cutting, long lasting and require less pressure. These cool cutting wheels are ideal for heavy grinding and weld removal. Specially formulated for use on stainless and mild steel. Available with quick change attachment. DO NOT USE ON TOOLS WITHOUT GUARDS.

Choose the right disc for the job.



	Fibre Discs	Cut & Grind Wheels	Flap Discs	Cut-Off Wheels	Depressed Center Grinding Wheels
Cutting		●		●	
Notching		●			
Gouging		●			●
Fillet Weld Removal		●			●
Beveling	●	●	●		●
Flame Cut Smoothing	●	●	●		●
Scale Removal	●	●	●		●
Weld Removal	●	●	●		●
Contoured Areas	●		●		

● Recommended application
● Additional application

Key takeaways

- For speed, long life and ease of use, nothing comes close to the power of Cubitron II abrasives.
- 3M's Cubitron II technology lies in the revolutionary precision-shaped ceramic grain technology.
- For weld grinding 3M's Cubitron II abrasives outperform other discs and wheels in their class.