

## What makes 3M™ Cubitron II™ abrasives so special??

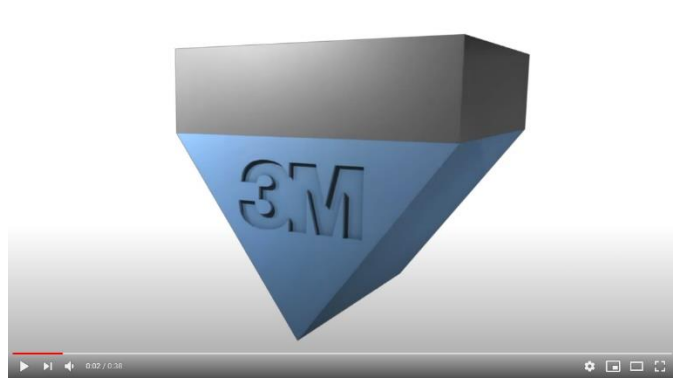
The secret behind the revolutionary performance of Cubitron™ II abrasives lies in their Precision-Shaped Grain (PSG) Technology — the result of decades of technological advances in ceramic abrasive and microreplication technologies. These precision-shaped grains are uniformly sized triangular structures that are super-sharp and evenly distributed onto the backing, allowing them to slice through material like a knife through butter rather than gouging or plowing as other abrasives. These triangular shaped grains are electrostatically oriented on the backing with their cutting edges facing the work surface for the most efficient cut and even wear. As the triangular shaped grain wears, the cutting edge continuously fractures to form new, sharp points and edges that continue to slice through material, wear evenly, provide super-long life and produce a consistent finish. This allows 3M Cubitron II™ belts and discs to run cooler and keep on working—long after conventional abrasives have dulled, shelled, glazed over and been thrown out. Conventional abrasives tend to be irregular and blocky in shape. So, instead of a clean, machining action, conventional grain tends to “plow” through material, causing heat to build up both in the workpiece and the abrasive — resulting in a slower cut, shorter abrasive life and a lower quality finish. Cubitron II™ abrasive discs are available resin-bonded to a stiff, super-tough, tear-resistant film backing offering greater tear resistance than paper discs providing greater durability and edge retention. Cubitron II™ discs and belts lasts significantly longer than conventional abrasive allowing more parts to be sanded per disc with fewer disc changes.



### Save time. Save money.

As the saying goes, “time is money” and your abrasive product should last long to reduce changeouts and increase productivity. In a head-to-head comparison, it’s a no-brainer; Precision-Shaped Grain cuts faster, lasts longer, and helps reduce costs.

Click icon to see Cubitron™ II in action:



## Awards

3M has multiple patents with the United States Patents and Trademark Office on its Cubitron™ II technology. *R&D Magazine* recognized this technology with its R&D 100 Award, recognizing it as one of the most technologically significant products introduced into the marketplace. Also, the Minnesota High Tech Association named Cubitron™ II technology a winner of a Tekne Award for innovative development in the advanced manufacturing category.

## About 3M

3M™ (Minnesota Mining and Manufacturing) was founded in 1902 as a mining operation and then moved to Duluth, MN in 1905 to focus on sandpaper manufacturing. Over the past 100+ years, the ongoing spirit of innovation and collaboration has produced numerous scientific, technical and marketing innovations making 3M™ a household name and leader in producing more than 60,000 ingenious products used in homes, businesses, schools, hospitals and other industries. One third of their sales come from products invented within the past five years, thanks to innovations from the thousands of researchers and scientists employed around the world. With corporate locations in 70 countries and sales in 200, 3M™ is committed creating the technology and products that advance every company, enhance every home and improve every life.