



3M Science.
Applied to Life.™

3M Automotive Aftermarket
3MCollision.com

**3M Leading Advances
in Abrasive Technology
for Over a Century.**

3M is the *innovation* company.

100,000+ patents

11,000+ technical employees

85 laboratories globally

46 technology platforms

In 1925, 3M invents masking tape to make the creation of two-tone car paint easier.



First masking tape introduced

3M ranks 6th as the most innovative company (PwC 2014)



The first disposable face masks and respiratory protection products are developed by 3M in the 1960s.



First disposable products for respiratory protection

In 2000, 3M introduces the PPS™ Paint Preparation System, enabling painters to mix less paint, reduce solvent, and speed cleanup.



3M™ Panel Bonding Adhesive has been trusted by technicians in replacement of outer body panels for over 15 years.



In the 1960s, 3M introduces Scotchcal™ High Performance Graphic Films, used extensively on the “muscle cars” of the 1970s.



3M's first paint preparation system

3M's first panel bonding adhesive

First films for custom car appearance

3M technologies applied to improve abrasives.

3M technologies applied to Cubitron™ II abrasives

Ce
Ceramics

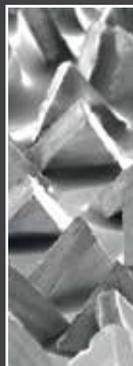
3M has decades of experience creating minerals that match hardness and toughness of the mineral to the application.

Mr
Micro-replication

Microreplication allows the same mineral structure to be repeated for all 3M™ Precision Shaped Grains.

Pp
Precision Processing

Precision processing deposits uniform mineral structures on the right locations, regardless of the product substrate.



3M technologies applied to automotive abrasive products

Mf
Mechanical Fasteners

Relevant abrasive products: Hookit™ connections

Nw
Nonwoven Materials

Relevant abrasive products: Scotch-Brite™ hand pads

Fi
Films

Relevant abrasive products: Flexible abrasives



For 100+ years, 3M has led advances in abrasives.

3M begins to manufacture sandpaper. 3M has over a century of abrasives experience.



Three-M-ite™ abrasive cloth is 3M's first exclusive product. Man-made aluminum oxide is first used.



3M introduces Wetordry™ waterproof sandpaper. First product to not load when wet.



1904

3M has over 110 years of abrasive experience

1910s

1921

Abrasives trial highlights difficulty with two-tone paint, 3M invents masking tape to solve the issue.



3M develops standard processes for auto abrasive repair products, attending to customer needs.



Auto sales halt for World War II, 3M branches into household products.



1925

3M has 90 years of automotive innovations

1930s

1940s

3M introduces Scotch-Brite™ nonwoven abrasives, advancing user experience and uniform finish.



3M files patent for Roloc™. 3M's abrasive technology has become the industry standard.



3M introduces Stikit™ products, an extensive line of abrasive discs with adhesive backing.



1958

1969

3M introduces game changing products

1972

3M™ Green Corps™ is released by 3M, the first automotive abrasives to use ceramic grain.



3M introduces the Trizact™ line, microreplicated grains create product with uniform finish.



3M™ Cubitron™ II and leading 3M™ Precision Shaped Grain technology are used across 3M automotive abrasive portfolio.



1988

3M has used ceramic grain in automotive abrasives since the 80s

1995

Today

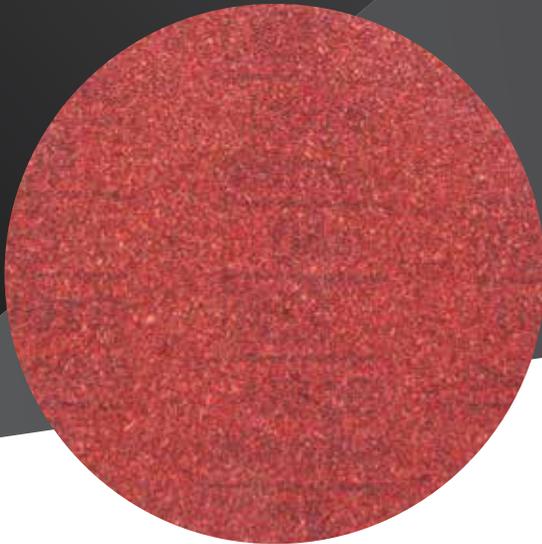
3M is Leading Advancement

Continuous abrasive grain innovation to meet

Red

AO

Comprehensive line of economical abrasives. Best in class performance. Made with Aluminum Oxide.

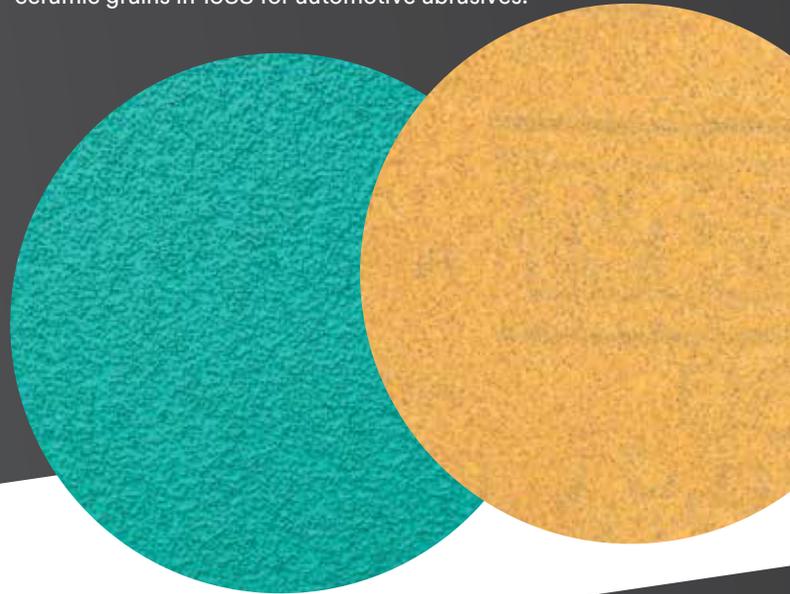


3M™ Green Corps™, Gold

AO+

CC

Full line of standard and coarse grade abrasives that mix quality minerals and precision coating to deliver quality performance and improved life. Made with Premium Aluminum Oxide and Crushed Ceramic. 3M first used ceramic grains in 1988 for automotive abrasives.



Faster Cut. Better

Aluminum Oxide

AO

General purpose grain. Hardness and toughness properties align with paint stripping and finishing grades. Will not fracture, instead wears down over time.

Premium Aluminum Oxide

AO+

Filtered for more uniform shape and better toughness. Leads to faster mass removal and longer life than standard Aluminum Oxide.

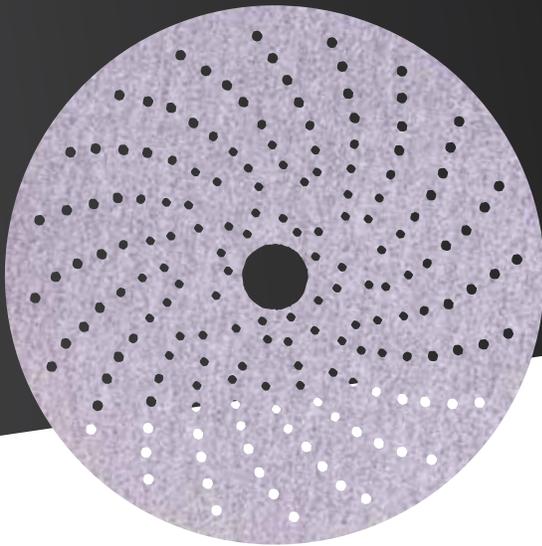
ent in Automotive Abrasives

every customer need.

Purple Clean Sand

CC AO+

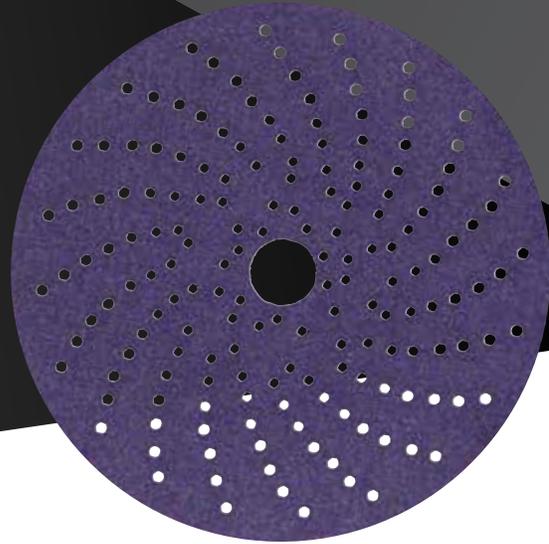
3M's full purple line uses ceramic grains for next level performance. Sand faster and deliver a more consistent finish.



CUBITRON II

PSG

Revolutionary 3M™ Precision Shaped Grain fractures evenly to continually slice through material, wear evenly, and provide extra-long life and superior consistency.



Finish. Longer Life.

3M has been using ceramics in automotive abrasives for over 25 years.

Crushed Ceramic

CC

Synthetic material is tougher than Aluminum Oxide. Ceramic grains remove material faster and more uniformly than naturally occurring minerals.

3M is the only one offering abrasives with patented 3M™ Precision Shaped Grain.

3M™ Precision Shaped Grain

PSG

Shaped ceramics match the toughness of synthetic products and add superior triangular shape. Triangular peaks slice through material and wear evenly for fastest removal and longest life.

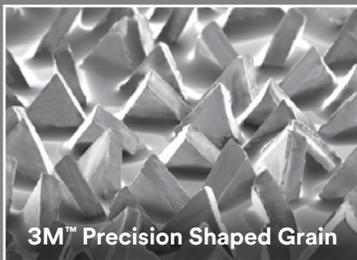
The latest abrasive innovations from 3M.

3M™ Cubitron™ II DA Discs

Part No.	Grade	Discs/Box	Size (diam.)
Use with 3M™ Hookit™ Disc Pads			
31375	40+	25	8"
31376	80+	25	
31370	40+	25	
31371	80+	50	6"
31372	120+	50	
31373	150+	50	
31374	180+	50	
31481	220+	50	
31366	80+	50	5"
31367	120+	50	
31368	150+	50	
31369	180+	50	
31471	220+	50	
31361	80+	50	3"
31362	120+	50	
31363	150+	50	
31364	180+	50	
31461	220+	50	

CUBITRON™ II

- 3M™ Precision Shaped Grain
- Runs cooler
- Lasts 2X longer
- Cuts 30% faster
- Finer finish



3M™ Precision Shaped Grain

3M precision shaped grain in the Cubitron™ II DA Discs continuously fractures to form sharp points and edges — slicing cleaner, faster, staying cooler and lasting many times longer.

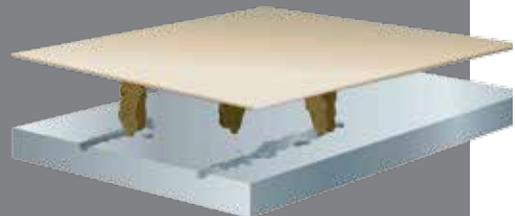


vs.



Conventional Grain

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



3M™ Trizact™ Discs

- Provides a consistent, reliable high-quality finish efficiently
- Highly engineered for paint finishing applications
- Consistent performance with microreplication technology

Part No.	Grade	Size (diam.)	Desc.	Case Qty.
02091	P1000	3"	Foam	15 discs/box
02090	P1000	6"		4 boxes/case
02094	P1500	3"	Film	25 discs/box
02095	P1500	5"		4 boxes/case
02088	P1500	6"		
02087	3000	3"	Foam	15 discs/box
02096	3000	5"		4 boxes/case
02085	3000	6"		
30362	5000	3"		
30562	5000	5"	Foam	15 discs/box
30662	5000	6"		4 boxes/case



3M™ Flexible Abrasive Hookit™ Hand Sheets and Discs

- Clear grade differentiation via color coding and face-side printing
- Long cut life and durable with special tear resistant backing
- Enables precise texture matching
- Does not tear or crack when folded

Part No.	Grade	Size	Format	Case Qty.
34337	P400	5.5" x 6.75"	Sheet	25 sheets/box
34339	P600			5 boxes/case
34340	P800			
34341	P1000			
34342	P1200			
34343	P1500	6" diam.	Disc	25 discs/box
34403	P400			5 boxes/case
34405	P600			
34406	P800			
34407	P1000			
34408	P1200			
34409	P1500			



For more information, visit: 3MCollision.com/Abrasives



For videos and more, visit:
3MCollision.com/Abrasives

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