3M | Cubitron™ 3
Performance Abrasives

Scotch-Brite FINISHING STRONG SINCE 1958

A new era in heavy grinding:

3M performance abrasives for pipeline construction

Addressing the growing demands for oil production.

As you work to meet ever-increasing demands for oil production around the world, 3M is by your side. Pipeline construction requires not only the highest-quality materials but the most skilled welders on your team. Your pipeliner crew deserves the best abrasives to meet your production goals with precision, speed, and safety.

Reshaping the way work gets done.

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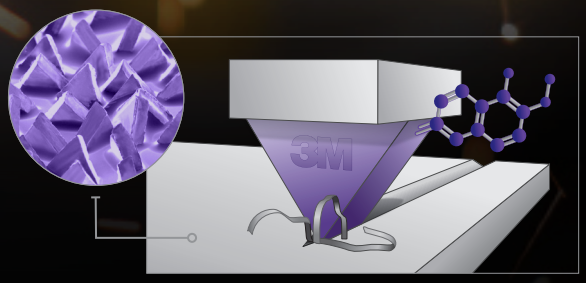
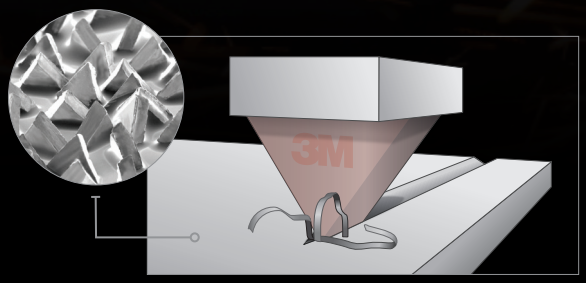


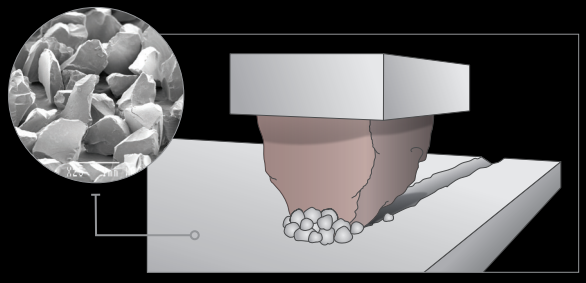
Our latest 3M Precision-Shaped Grain

We've re-engineered precision-shaped ceramic grain using proprietary breakthroughs in **molecular bonding technology**.



3M Precision-Shaped Grain

3M pioneered the first precision-shaped grain using 3M microreplication technology to form consistent sharp peaks that easily "slice" through metal — cutting cooler, faster, and lasting longer than conventional abrasive grain.



Conventional ceramic abrasive

Conventional ceramic abrasive grain tends to "plow" through metal, causing heat to build up in the workpiece and abrasive, resulting in a slower cut and shorter abrasive life compared to our latest precision-shaped grain.

3M™ Cubitron™ 3 Depressed Center Grinding Wheels

Designed for exceptional life and great speed, with better application versatility in heavy-duty grinding. Ideal for carbon, stainless steel, mild steel, and other specialized alloys.

3M™ Cubitron™ 3 Depressed Center Grinding Wheels vs. leading competition.

Performance

Speed

Up to **22%** **faster cut rate**

compared to leading depressed center grinding wheel competitors.[3]

Life

Up to **2x** **more material removed**

compared to leading depressed center grinding wheel competitors.[3]

Hand-arm vibration

Designed to help **reduce hand vibration by 33%** over high-quality 115mm type 27 grinding wheels.[1]

Noise level

Designed to help **minimize noise by 45%** over high-quality 115mm type 27 grinding wheels.[2]

For abrasives that get the job done faster, last longer, and enhance safety on the construction site, 3M grinding and cut-off wheels have you covered.

For tougher applications, nothing beats the speed and long life of 3M™ Silver Grinders and Cut-Off Wheels.

When top quality and speed are priorities, choose 3M™ Cubitron™ 3 Grinders and Cut-Off Wheels.

3M™ Grinding and Cut-Off Wheel product performance comparisons

Attributes	Aluminum oxide	Alumina zirconia	3M™ Silver	3M™ Cubitron™ 3
Durability/life	★★	★★★	★★★★	★★★★★
Speed of cut	★	★★	★★★	★★★★★
Smooth feel	★★	★★★	★★★★★	★★★★★
Contaminant-free[1] (for stainless/inox)	varies	varies	yes	yes
Mineral	aluminum oxide	alumina zirconia	blend of precision-shaped ceramic grain	precision-shaped ceramic grain

3M™ Silver Depressed Center Grinding Wheels

With their blend of precision-shaped ceramic grains, these products are a good choice for harder, tougher wheels. Here are go-to products for quick-change attachments.

3M™ Silver Depressed Center Grinding Wheels

UPC (051125-)	Type	Diameter x Thickness x Arbor Hole (in)	Max RPM	Box/ Case
87397-0	T27	4½ x ¼ x ⅝–11	13,300	10/20
87446-5	T27	5 x ¼ x ⅝–11	12,250	10/20
87447-2	T27	6 x ¼ x ⅝–11	10,200	10/20
87448-9	T27	7 x ¼ x ⅝-11	8,500	10/20
87449-6	T27	9 x ¼ x ⅝-11	6,650	10/20

3M™ Cubitron™ 3 Depressed Center Grinding Wheels

For fast-cutting, long-lasting wheels that require less pressure for heavy grinding and weld removal, choose these go-to products for quick-change attachments.

3M™ Cubitron™ 3 Depressed Center Grinding Wheels

Part Number	3M ID	Type	Diameter (in)	Thickness (in)	Center Hole (in)
90002	7100312968	T27	4.5	¼	⅝–11
90004	7100312967	T27	5	¼	⅝–11
90006	7100312966	T27	6	¼	⅝–11
90009	7100312965	T27	7	¼	⅝–11
90011	7100312964	T27	9	¼	⅝–11

Scan for more options and detailed product ordering information.

3M™ Cubitron™ 3 Cut-Off Wheels

For ultra-fast cutting through carbon and stainless steel sheet metal, metal tubing, and more. Cut costs while delivering high cut rates.

3M™ Cubitron™ 3 Cut-Off Wheels vs. leading competition.

Performance

Speed

Up to **15% faster cut rate**

compared to leading cut-off wheel competition.[4]

Life

Up to **2x more material cut**

compared to leading cut-off wheel competition.[4]

Hand-arm vibration

Designed to help **reduce hand-arm vibration by 33%**

over high-quality 125mm type 41 cut-off wheels.[5]

3M™ Cubitron™ 3 Cut-Off Wheels

Choose these go-to products for quick-change attachments.

3M™ Cubitron™ 3 Cut-Off Wheels

Part Number	3M ID	Type	Diameter (in)	Thickness (in)	Center Hole (in)
90043	7100313187	T27	4.5	0.125	⅞–11
90042	7100313200	T27	4.5	0.09	⅞–11
90040	7100313192	T27	4.5	0.045	⅞–11
90047	7100313188	T27	6	0.045	⅞–11
90049	7100312963	T27	7	0.09	⅞–11

Scan for more options and detailed product ordering information.

3M™ Cubitron™ 3 Cut & Grind Wheels

Versatile wheels designed as both depressed center grinding wheels and as cut-off wheels — making them ideal for cutting, grinding, gouging, and more. With smooth action, great balance, and best-in-class performance, this two-in-one solution can help make your pipeliner's job easier.

Performance

Speed

Up to **29%** **faster cut rate**

compared to leading cut & grind wheel competition.[6]

Life

Up to **2x** **more material removed**

compared to leading cut & grind wheel competition.[6]

3M™ Cubitron™ 3 Cut & Grind Wheels

Choose these go-to products for quick-change attachments.

3M™ Cubitron™ 3 Cut & Grind Wheels					
Part Number	3M ID	Type	Diameter (in)	Thickness (in)	Center Hole (in)
Quick-Change Attachment					
89158	7100313760	T27 thin	4.5	⅛	⅝–11
88990	7100313204	T27 thin	5	⅛	⅝–11
88991	7100313205	T27 thin	6	⅛	⅝–11
88992	7100313195	T27 thin	7	⅛	⅝–11
88993	7100313197	T27 thin	9	⅛	⅝–11
90016	7100313194	T27	4.5	5⁄32	⅝–11
90017	7100313550	T27	5	5⁄32	⅝–11
90020	7100313196	T27	6	5⁄32	⅝–11
90022	7100313551	T27	7	5⁄32	⅝–11
90024	7100313203	T27	9	5⁄32	⅝–11
Single Packs — Quick-Change Attachment					
66200	7100316747	T27	6	5⁄32	⅝–11
66201	7100317773	T27thin	6	⅛	⅝–11

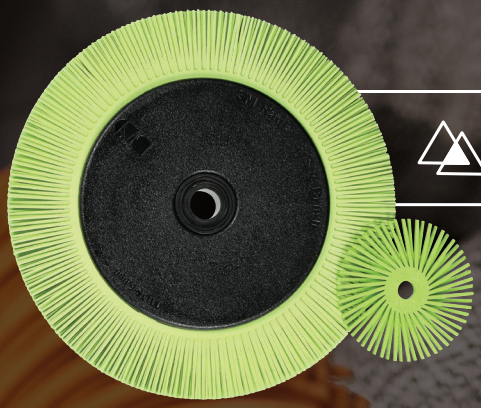
Range Expansion

We have a 4.2mm option and we've added a 3.2mm option for applications requiring a thinner cutting profile. A thinner wheel makes it cut faster, too.

3.2mm | 4.2mm

Scan for more options and detailed product ordering information.

Trust 3M for products that help your pipeliners clean and prep areas quickly, easily, and safety.



With 3M Precision-Shaped Grain

Scotch-Brite™ Clean and Strip XT Pro Discs

- Quickly removes slag, spatter, or oxidation from metal.
- High conformability provides a larger contact patch for faster removal rates.
- Silicon carbide mineral cuts aggressively and leaves a fine finish.

Hand-arm vibration

Up to **90%** **less vibration** vs. Crimped Wire Cup Brushes.[7]

Speed

Up to **54%** **more speed** vs. Crimped Wire Cup Brushes.[7]

Scotch-Brite™ Bristle and Precision Bristle Discs and Brushes

- Long life with consistent performance.
- Conformability for more surface contact and less operator manipulation.
- Contains no wire filaments to help enhance user safety.
- Scotch-Brite™ Precision Bristle Discs merged 3M Precision-Shaped Grain with nonwoven web technology of our surface conditioning products.

Scotch-Brite™ Clean and Strip XT Pro Discs				
3M ID	**Diameter Thickness x Arbor Hole (in)**	**Grade**	**Max RPM**	**Min/ Case**
T27 Quick-Change				
7100175252	4½ x ⅝–11	S XCS	13,300	10
7100177482	5 x ⅝–11	S XCS	12,000	10
7100175474	7 x ⅝–11	S XCS	8,600	5
TN Quick-Change				
7100175464	4½ x ⅝–11	S XCS	13,300	10
7100175514	7 x ⅝–11	S XCS	8,600	5
For Scotch-Brite™ Bristle Discs, contact your 3M Abrasive Specialist for product offering.				

Scan for more options and detailed product ordering information.

Sustainability matters to 3M Abrasives.

When you buy from the SEAM value chain, you are helping to build a sustainable future for our industry, for people, and for the planet.

3M is a founding member of the SEAM abrasives manufacturers program and aligns to the world's highest standards of quality, safety, and performance in a sustainable environment. We commit to transparency, accountability, innovation, and progress.

When buying from the SEAM value chain, customers are helping to build themselves a sustainable future.

SEAM™
Sustainable European Abrasive Manufacturers

Find out more at seam.earth.

Talk to your 3M Abrasives representative about how 3M™ Cubitron™ 3 can help make your pipeline construction projects faster and more efficient.

Learn more at 3M.com/abrasives.

1. Performance testing in a typical weld preparation process or cutting operation; 3M™ Cubitron™ 3 Depressed Center Grinding Wheels average compared to the average results of the high-quality competitive ceramic grain wheels tested, according to independent testing, August 2023.
2. Noise level operator exposure testing in a typical weld preparation process; 3M™ Cubitron™ 3 Depressed Center Grinding Wheels average compared to the average result of the high-quality ceramic bonded wheels tested, according to independent testing, August 2023. Noise is measured in dB(A) and is a logarithmic number, a reduction of 3dB(A) is a halving of the noise intensity. Above 80dB(A) hearing protection should be provided. 105 decibels for high-quality grinding wheels, 102 decibels for 3M™ Cubitron™ 3 Depressed Center Grinding Wheels.
3. Results are based on an automated beveling of 1018 carbon steel bars. Grinding wheel geometry was 115mm outer diameter mounted on a servo motor with an applied force of 12 lbs. Cut speed was defined by metal removed after 10 minutes of testing life. End of life is assumed to be 50% of the initial wheel mass.
4. Results are based on an automated cutting of a 3mm thick 304 stainless steel sheet. Cut-off wheel geometry was T41 125 mm x 1.6 mm x 22 mm mounted on a 1.5 hp angle grinder with an applied force of 9 lbs. Cut speed was defined by time needed to cut 1 meter of stainless steel. The number of cuts was estimated by the amount of wheel that was used after cutting a distance of 1 meter. End of life is assumed to be 50% of initial wheel mass.
5. Performance testing in a typical weld preparation process or cutting operation; 3M™ Cubitron™ 3 Cut-Off Wheels average compared to the average results of the high-quality competitive ceramic grain competitive wheels tested, according to independent testing, August 2023.
6. Results are based on an automated beveling of 1018 carbon steel bars. Grinding wheel geometry was 115mm outer diameter mounted on a servo motor with an applied force of 12 lbs. Cut speed was defined by metal removed after 10 minutes of testing. The total material removal was estimated based on the amount of wheel that was used for 10 minutes of testing life. End of life is assumed to be 50% of the initial wheel mass.
7. Hand-arm vibration compared to listed competitor and Scotch-Brite™ Clean and Strip XT Pro Disc, Type 27, according to independent testing by Fraunhofer Institute on October 2021.

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