

**3M** Science.  
Applied to Life.™

# 3M™ Cut & Grind Wheels

Digital Toolkit

United States



# Introducing 3M™ Cut & Grind Wheels

Fast-cutting and Competitively Priced

3M™ Cut & Grind Wheels are the latest addition to our Advanced Series of abrasives, offering high performance at an affordable price for everyday use. Powered by fast-cutting and long-lasting 3M Precision-Shaped Grain, these versatile wheels can be used as both depressed center grinding wheels and cut-off wheels – with fewer changeouts.







# Cut & Grind: Value and Versatility



## Advanced Series vs. Premium Abrasives

### Cut & Grind Wheel product comparison

Speed and durability rated on a scale of 1 to 5, with 5 stars being the best.

Attributes	Aluminum oxide	Alumina zirconia	Advanced Series	Premium Series
			3M™ Cut & Grind Wheels	3M™ Cubitron™ II Cut & Grind Wheels
Durability / life	★★	★★★	★★★★★	★★★★★
Speed of cut	★	★★	★★★★	★★★★★
Feel: smooth	★★	★★★	★★★★	★★★★★
Contaminant-free*	varies	varies	yes	yes
Mineral	aluminum oxide	aluminum zirconia	3M Precision-Shaped Grain	3M Precision-Shaped Grain
Total abrasive spend per job	\$\$\$\$	\$\$	\$	\$\$
Total cost of job (abrasive, labor, processes)	\$\$\$\$	\$\$\$	\$\$	\$

#### What's the bottom line?

For customers who can see the value in productivity and shop savings, always lead with 3M™ Cubitron™ II Cut & Grind Wheels.

- ✓ Highest productivity
- ✓ Lowest overall production cost

For customers who are cost-driven, suggest 3M™ Cut & Grind Wheels a competitively-priced alternative with high performance.

- ✓ Lowest overall abrasive spend
- ✓ High productivity – long life

\*Contains less than 0.1% Fe, S and Cl.

# Portable Bonded Portfolio

## 3M™ Premium Series Wheels:

Cubitron II™ Depressed Center Grinding Wheel



Cubitron II™ Cut-Off Wheel



Cubitron II™ Cut and Grind Wheel



## 3M™ Advanced Series Wheels:

3M™ Silver Depressed Center Grinding Wheel



3M™ Silver Cut-Off Wheel



**NEW!** 3M™ Cut and Grind Wheel



# Value Proposition by End User

## Metal Fabricator/Grinder

- ✓ **Cuts fast:** Stays sharp longer than conventional grinding wheels
- ✓ **Long life:** Even in a fast-cutting wheel
- ✓ **Versatile:** Ideal for cutting, grinding and gouging on mild stainless steel
- ✓ **Grinds with less pressure:** Can help reduce operator fatigue
- ✓ **Easy & Safe to Use**
- ✓ **3M Brand & Expertise:** Abrasives process expertise improves customer outcomes; brand recognition.

## Procurement/Buyer

- ✓ **Long life:** Lowers overall abrasives spend, lower abrasive COGs
- ✓ **One Supplier:** Ease of doing business
- ✓ **Reliable Service:** Consistent on time delivery.
- ✓ **Total COGS:** Cost of abrasives – affecting overall production costs
- ✓ **3M Portfolio:** Broad range of high-performing abrasives and safety products

## Operations Manager

- ✓ **3M Portfolio:** Broad range of high-performing abrasives and safety products
- ✓ **Cuts fast:** Improves operator productivity
- ✓ **Employee Retention:** Providing their employees with safe, ergonomic, and efficient abrasives.
- ✓ **Safety:** Keeping employees safe
- ✓ **Productivity**
- ✓ **3M Expertise:** Abrasives process expertise improves customer outcomes.

# Contents

## Product List

- Data Package
- Stocking order guidance
  - Cut & Grind Wheels
  - Complementary Product

## Training and Technical Materials

- Technical data sheets
- Complementary product training videos

## Collateral

- Catalog
- Brochure
- Product Flyer
- Complementary Literature

## Marketing and Advertising Assets

- Application photography
- Product photography
- Web banners
- Social Images
- Always on marketing tools

If your team would like to co-brand any of the assets within this toolkit, please reach out to your channel representative.

**Learn more about 3M Metalworking Solutions**  
here: [3M.com/Metalworking](https://3M.com/Metalworking)



# Product List

# Product List

## Prioritized Products | Data Package

UPC	SAP ID	Part Number	Marketplace Formal Name
638060064597	7100214075	06459	3M™ Cut & Grind Wheel, 06459, Type 1, 4 in x 1/8 in x 3/8 in, 10 per inner, 20 per case
638060064603	7100213972	06460	3M™ Cut & Grind Wheel, 06460, Type 27, 4 in x 1/8 in x 3/8 in, 10 per inner, 20 per case
638060064610	7100212647	06461	3M™ Cut & Grind Wheel, 06461, Type 27, 4 in x 1/8 in x 5/8 in, 10 per inner, 20 per case
638060064627	7100214084	06462	3M™ Cut & Grind Wheel, 06462, Type 27, 4-1/2 in x 1/8 in x 7/8 in, 10 per inner, 20 per case
638060064634	7100214086	06463	3M™ Cut & Grind Wheel, 06463, Type 27, 5 in x 1/8 in x 7/8 in, 10 per inner, 20 per case
638060064696	7100219761	06469	3M™ Cut & Grind Wheel, 06469, Type 27, 6 in x 1/8 in x 7/8 in, 10 per inner, 20 per case
638060064702	7100219187	06470	3M™ Cut & Grind Wheel, 06470, Type 27, 7 in x 1/8 in x 7/8 in, 10 per inner, 20 per case
638060064719	7100219186	06471	3M™ Cut & Grind Wheel, 06471, Type 27, 9 in x 1/8 in x 7/8 in, 10 per inner, 20 per case
638060064641	7100218279	06464	3M™ Cut & Grind Wheel, 06464, Type 27, 4-1/2 in x 1/8 in x 5/8"-11, Quick Change, 10 per inner, 20 per case
638060064658	7100218280	06465	3M™ Cut & Grind Wheel, 06465, Type 27, 5 in x 1/8 in x 5/8"-11, Quick Change, 10 per inner, 20 per case
638060064665	7100218055	06466	3M™ Cut & Grind Wheel, 06466, Type 27, 6 in x 1/8 in x 5/8"-11, Quick Change, 10 per inner, 20 per case
638060064672	7100218056	06467	3M™ Cut & Grind Wheel, 06467, Type 27, 7 in x 1/8 in x 5/8"-11, Quick Change, 10 per inner, 20 per case
638060064689	7100218043	06468	3M™ Cut & Grind Wheel, 06468, Type 27, 9 in x 1/8 in x 5/8"-11, Quick Change, 10 per inner, 20 per case
638060758199	7100221307	75819	3M™ Cut & Grind Wheel, 75819, Type 27, 4.5 in x 1/8 in x 5/8"-11, 1 per inner, 10 per case, Single Pack



Download data package for *NEW* 3M™ Cut & Grind Wheels and complementary Bonded and Scotch-Brite™ Products

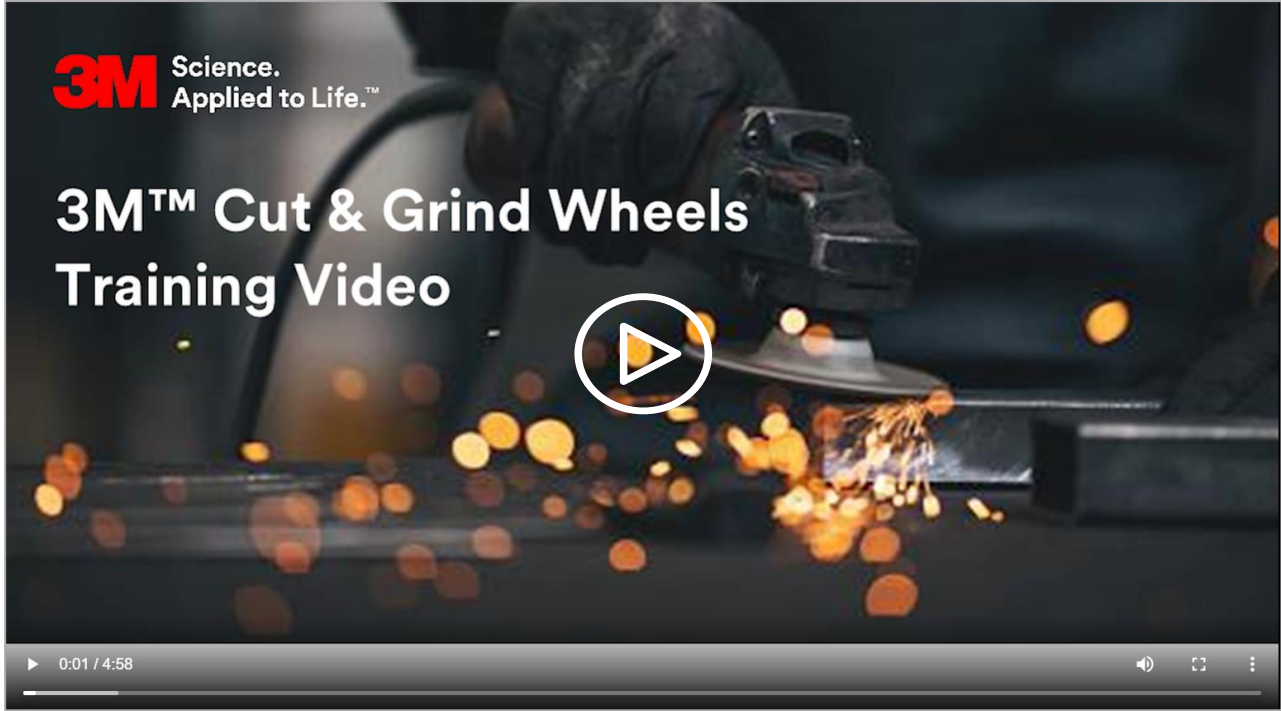




# **Training and Technical Materials**

# Training and Technical Materials

## 3M™ Cut & Grind Training Video



3M™ Cut & Grind Wheels Training

View more 3M Abrasive videos here:

[www.youtube.com/3MAbrasives](http://www.youtube.com/3MAbrasives)

# Training and Technical Materials

## Complementary Training Videos



Cutting with Cubitron™ II Cut-Off Wheels and Cut & Grind Wheels



Back Gouging & Root Pass Applications

View more 3M Abrasive videos here:

[www.youtube.com/3MAbrasives](https://www.youtube.com/3MAbrasives)

# Training and Technical Materials

## Complementary Training Videos



Proper Mounting of Abrasive Products on  
Type 27 Grinders and Type 1 Cut-Off Wheel  
Tools

View more 3M Abrasive videos here:  
[www.youtube.com/3MAbrasives](https://www.youtube.com/3MAbrasives)



Beveling Using 3M™ Cubitron™ II Wheels and  
Discs



# Training and Technical Materials

## Technical Data Sheet

<div><div>3M</div><div>Science. Applied to Life.™</div></div> <div>Technical Data Sheet</div> <div>Effective Date: April 1, 2020</div>	
3M™ Cut & Grind Wheels	
3M I.D. Number	3M™ Cut and Grind Wheels
Product Description	3M™ Cut & Grind Wheels are a Type 27, 1/8 inch thick reinforced resin-bonded wheels containing 3M-patented ceramic Precision-Shaped Grain (PSG) mineral. Ideal for mild steel, stainless steel, and nickel alloys.
Mineral	A blend of crushed aluminum oxide and ceramic Precision-Shaped Grain (PSG).
Construction	Resin bonded wheels with a triple reinforced construction for added safety and durability; INOX formulation (Fe < 0.1%, S < 0.1%, and Cl < 0.1%) for stainless steel applications.
Dimensions	4.5 in (115 mm), 5 in (125 mm), 6 in (150 mm), (7 in) 180 mm x 1/8 in (4.2mm) thick
Safety	<p>Always use appropriate PPE and follow safety precautions as instructed in the associated Product Safety Insert. Product Safety Inserts are included with shipped product.</p> <p>3M™ Cut and Grind wheels conform to the following safety and quality standards:</p> <ul style="list-style-type: none"><li>ISO 9001/14001</li><li>EN 12413:2007</li><li>ANSI Safety Code B7.1-2010</li><li>• Tool must not exceed the maximum operation speed (MOS) of the wheel</li><li>• Always use appropriate protective glasses, face shields, and body protection</li><li>• Appropriate tool guarding and mounting hardware must be used at all times as per ANSI B7.1</li><li>• If a wheel has been dropped or suspected of having been damaged, it should not be used; this includes out of balance and warped wheels</li><li>• The top and bottom face can be used for grinding, while the periphery can be used for cutting/notching</li><li>• The shelf life of all resin bonded wheels is 3 years from date of manufacture (FEPA standard)</li><li>• Store in a cool, dry place</li></ul>



View and Download Technical Data Sheet



# Collateral

# Collateral

## Sales Guide | Flyer | Related Product Literature



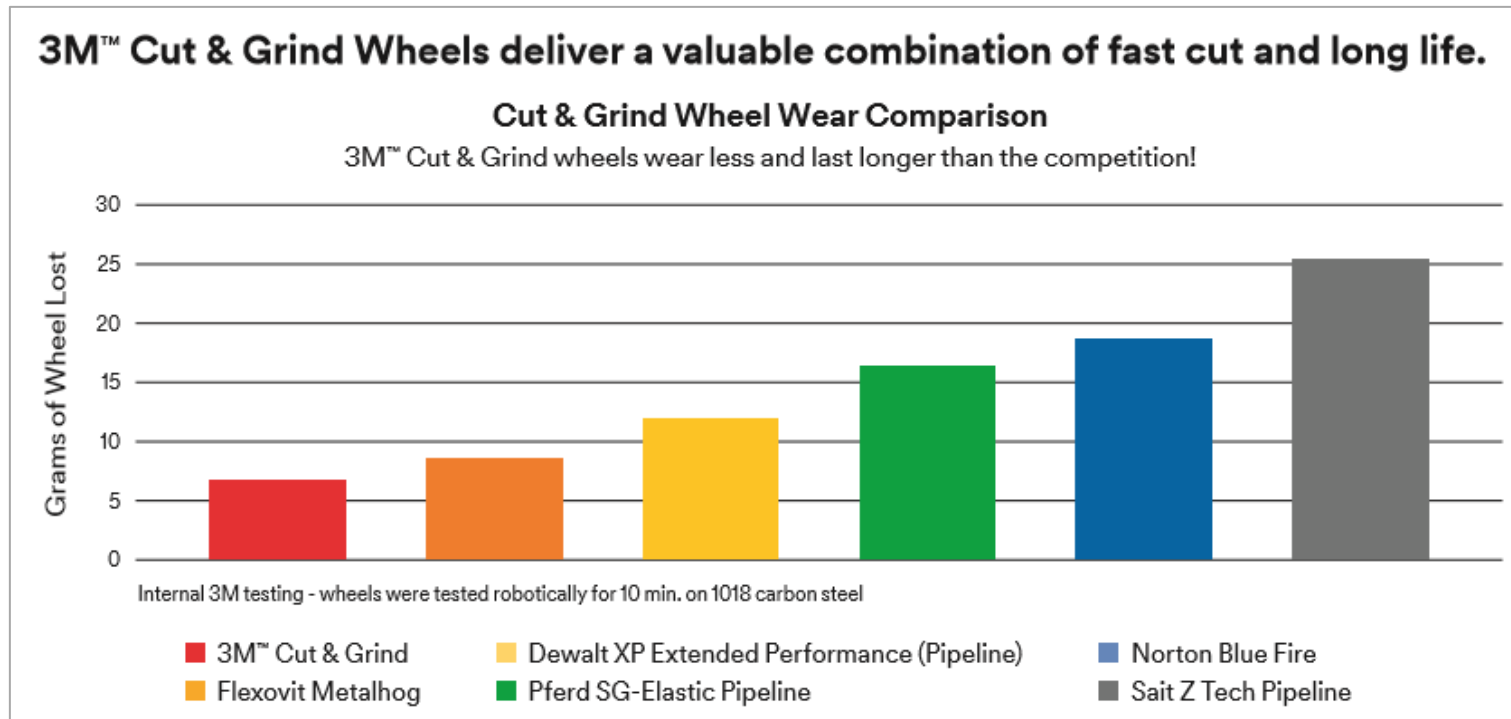
Asset Name	Link to asset
Right Choice Brochure	<a href="#">link</a>
Right Angle Field Guide	<a href="#">link</a>
Trial Pack Brochure	<a href="#">link</a>

Distributor Sales Guide

3M™ Cut & Grind Wheel Product Flyer

# Collateral

## Competitive Positioning



**3M™ Cut & Grind Wheels show 47% less wheel wear than Norton™ Blue Fire DCGW, 4.5D, 1.8Tm 7/8"**

\*Internal Testing – wheels were tested robotically for 10 min. on 1018 carbon steel.

**Tested for US only.**





# Marketing and Advertising Assets

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Product photography



View and Download Collection

# Marketing and Advertising Assets

Application photography



View and Download Collection

# Thank you