3M Science. Applied to Life.™

New!

3M™ Silver Depressed Center Grinding Wheel

When simple job is bigger than expected, save your time, energy and resources with new 3M™ Silver Grinding Wheels. 3M Precision-Shaped Grain technology with self-sharpening ceramic grains, offers better effectiveness.

NEW! 3M™ Silver Depressed Center Grinding Wheel

Grind more with greater effect!

Ideal for industries such as:

- Agricultural, industrial and construction machinery
- General metal fabrication
- Oil and gas infrastructure
- Rail
- Ship building
- Stainless steel fabrication
- Structural steel
- Tank and vessel

Don't you hate when a grinding wheel needs to be replaced just as the work seemed to have begun? Now you can experience the durability and speed of 3M Precision-Shaped Grain technology – in an innovative bonded wheel construction designed for everyday high performance.

New 3M™ Silver Depressed Center Grinding Wheels. Discover a new class of right angle abrasives. Triangular ceramic grains have self-sharpening ability to retain their sharpness in three steps. During grinding, the surface heats up slower, producing less smoke and leftovers. It also needs less pressure to perform the task, allowing the operator to finish the task with less fatigue. 3M™ Silver wheels are an ideal choice for applications like weld removal, beveling, edge chamfering and more – offering a faster cut and longer life than aluminum oxide and alumina zirconia wheels.

The "silver bullet" for a wide range of tough metalworking jobs, including:

- ✓ Weld Removal
- ✓ Beveling
- ✓ Edge chamfering
- ✓ Gate & flash removal
- ✓ Gouging
- ✓ Deburring

Optimized for use on carbon steel and stainless steel.

Bonded wheel product comparisons

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

Attributes	Aluminum oxide	Alumina zirconia	Silver
Durability / life	★★	★★★	★★★★★
Speed of cut	★	★★	★★★
Contaminant-free* (for stainless/inox)	varies	varies	yes
Mineral	aluminum oxide	alumina zirconia	ceramic blend precision-shaped grain
Total abrasive spend per job**	$ $ $	$ $	$

* Contains less than 0.1% Fe, S and Cl ** Longer wheel durability (with the same conditions) drives effectiveness.

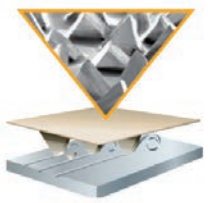
Get the best of both worlds

With most competitive wheels, you have to choose between a softer construction that tends to cut fast, or a hard construction that tends to last longer. Now, with 3M Precision-Shaped Grain technology in the new 3M™ Silver Depressed Center Grinding Wheel, you get an optimal balance of fast cutting and long life – all in a single, smooth-running wheel offering a faster cut and longer life than aluminum oxide and alumina zirconia wheels.

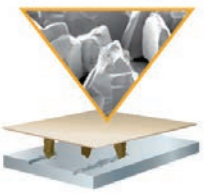
3M™ Silver Depressed Center Grinding Wheel

Diameter x thickness x arbor hole (mm)	Part number	Max. RPM	Quantity (inner/case)
100 × 7 × 16	51746	15,300	10/20
115 × 7 × 22.23	51747	13,300	10/20
125 × 7 × 22.23	51748	12,250	10/20
150 × 7 × 22.23	51749	10,200	10/20
180 × 7 × 22.23	51750	8,500	10/20
230 × 7 × 22.23	51751	6,650	10/20

The science of precision-shaped grain



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 abrasive grain.



Conventional ceramic abrasive 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 wheel life.

3M Science. Applied to Life.™

New!

3M™ Silver Cut-off Wheel

Do you know how to make your work more effective? Use new 3M™ Silver Cut-off Wheels. Unique 3M Precision-Shaped Grain technology with self-sharpening ceramic grains offers faster cutting and longer life.

NEW! 3M™ Silver Cut-off Wheel

More durability for more effective work

Ideal for industries such as:

- Agricultural, industrial and construction machinery
- General metal fabrication
- Oil and gas infrastructure
- Rail
- Ship building
- Stainless steel fabrication
- Structural steel
- Tank and vessel

Does your cut-off wheel give up before the job is done? Does it heat up and slow to a crawl after a few cuts? Does it give you a rough, ragged kerf? Well, if your cut-off wheel just can't cut it, here's great news:

New 3M™ Silver Cut-off Wheels are a new kind of premium performance wheel designed for everyday use. Featuring 3M Precision-Shaped Grain technology, these innovative wheels cut cool, to deliver fast, smooth cutting action on all types of ferrous metals, stainless steels and alloy steels. And customers report that they last longer than competitive aluminum oxide and alumina zirconia wheels.

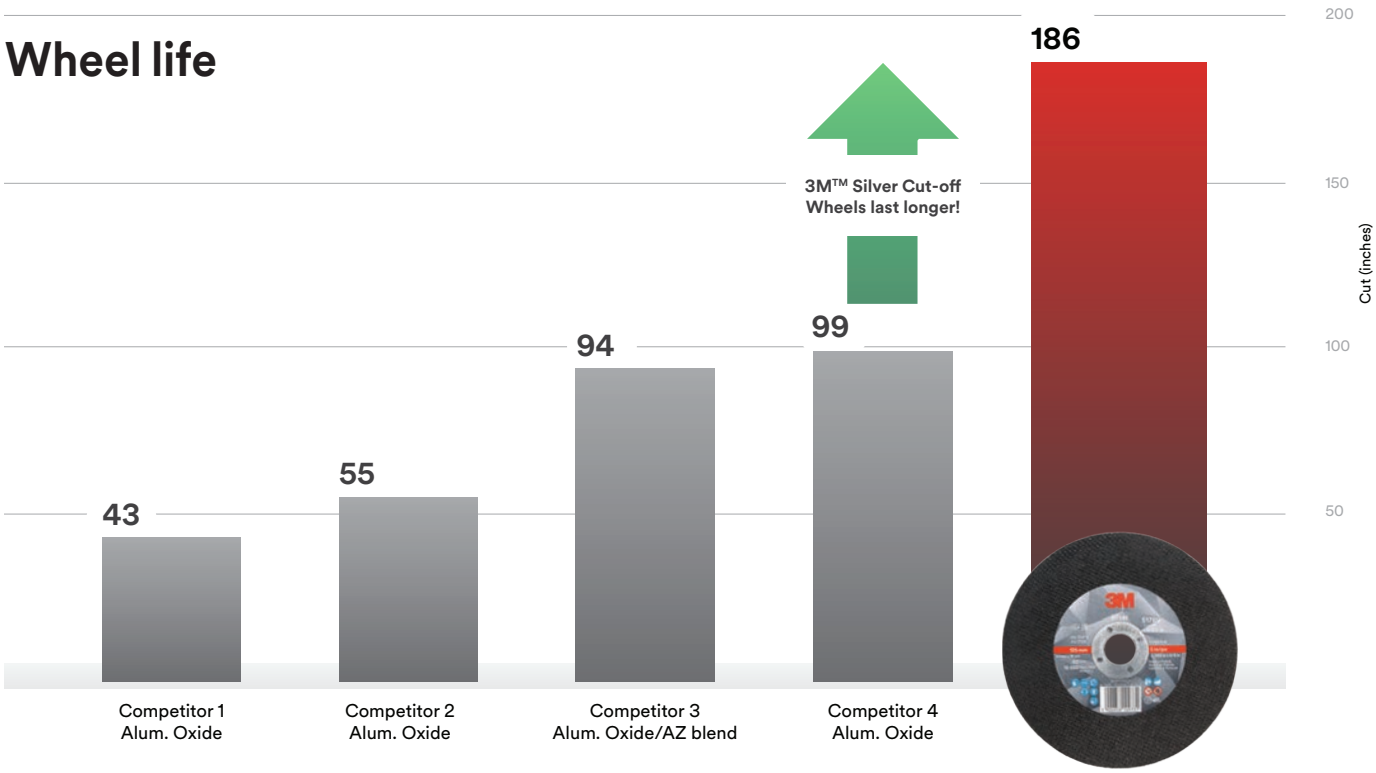
Make short work of cutting pipes, tubes, flat sheets and more.

Optimized for use on carbon steel and stainless steel.

Tech tip – Size matters

Wheel thickness affects wheel performance. The thicker the wheel, the longer the life and the slower the cut rate. When cutting thicker material, use a thicker and larger diameter wheel to maximize wheel life. Thinner wheels cut faster and wear faster. They also work better on thin gauge materials.

Wheel life

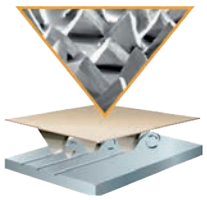


Internal 3M testing on 304L stainless steel sheet (11 gauge) using a 13 amp electric tool. Wheels are tested to end of life.

3M™ Silver Cut-Off Wheel

Diameter × thickness × arbor hole (mm)	Part number	Max. RPM	Quantity (inner/case)
75 × 0.9 × 6	51765	20,000	25/50
75 × 0.9 × 10	51767	20,000	25/50
75 × 1.6 × 10	51769	20,000	25/50
100 × 0.9 × 6	51771	15,300	25/50
100 × 1 × 10	51774	15,300	25/50
100 × 1 × 16	51775	15,300	25/50
100 × 1.3 × 16	51776	15,300	25/50
105 × 1 × 10	51777	14,550	25/50
105 × 1 × 16	51778	14,550	25/50
105 × 2 × 16	51783	14,550	25/50
115 × 1 × 22.23	51785	13,300	25/50
115 × 1.6 × 22.23	51787	13,300	25/50
125 × 1 × 22.23	51790	12,250	25/50
125 × 1.6 × 22.23	51792	12,250	25/50
150 × 1.6 × 22.23	51814	10,200	25/50
125 × 2 × 22.23	51795	12,250	25/50
180 × 1.6 × 22.23	51796	8,500	25/50
180 × 2 × 22.23	51797	8,500	25/50
115 × 2.5 × 22.23	51800	13,300	25/50
125 × 2.5 × 22.23	51801	12,250	25/50
180 × 2.5 × 22.23	51802	8,500	25/50
180 × 3 × 22.23	51803	8,500	25/50
230 × 2 × 22.23	51804	6,650	25/50
230 × 2.5 × 22.23	51805	6,650	25/50
230 × 3 × 22.23	51806	6,650	25/50

The science of precision-shaped grain



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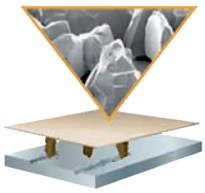

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