



Science.  
Applied to Life.™

NEW! 3M™ Silver Cut-off Wheels

# Cut to the chase.

Get the long-life and fast cutting action of 3M Precision Shaped Ceramic Grain – now in a cut-off wheel designed to give you great performance and value.





## NEW! 3M™ Silver Cut-off Wheels

# A cut above the rest



3M™ Silver Cut-off Wheels are designed for long life and be affordable for everyday use.



Lasts longer



Cuts faster



Cuts cooler

Featuring 3M Precision Shaped Ceramic Grain technology, 3M™ Silver Wheels cut faster, cleaner, lasting longer than competitive aluminium oxide and alumina zirconia wheels.

This means fewer wheel changes and more finished parts per wheel.

Optimised for use on carbon steel and stainless steel.



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



### Ideal for industries such as:

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

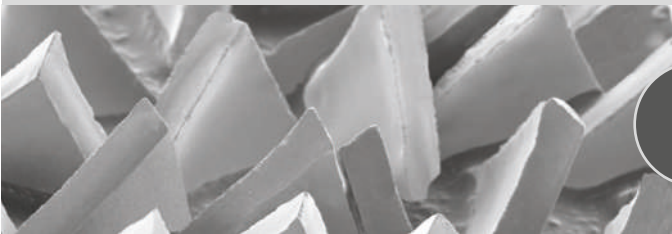

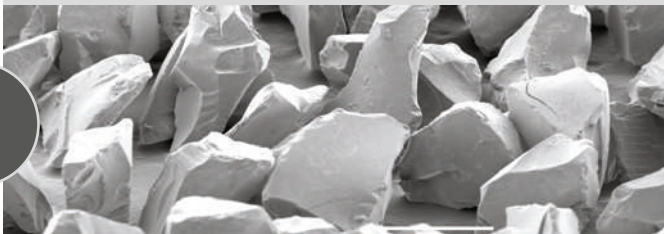

### Tech tips – size matters



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

## 3M's Precision Shaped Ceramic Grain technology.

It acts like a cutting tool, slicing through metal like a knife. The material is continuously self-sharpening, as points break off during use to expose new sharp edges – slicing cleaner and faster, staying cooler and lasting many times longer than conventional grain types.

<p>Precision Shaped Ceramic Grain slices cleaner and faster.</p>  <div style="text-align: center; border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; line-height: 40px; margin: 10px auto;">VS</div>  <ul style="list-style-type: none"> <li>✓ Cooler operation</li> <li>✓ Clean cut</li> <li>✓ Lasts much longer</li> </ul>	<p>Conventional ceramic grain is irregular and “ploughs” through the metal.</p>   <ul style="list-style-type: none"> <li>✗ Heat build-up</li> <li>✗ Slower cutting</li> <li>✗ Shorter life</li> </ul>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 3M™ Cut-off Wheel product performance comparisons

Attributes	Aluminium oxide	Alumina zirconia	3M™ Silver	3M™ Cubitron™ II
Durability/life	**	***	*****	*****
Speed of cut	*	**	***	*****
Feel: smooth	**	***	****	*****
Contaminate free* (for stainless/inox)	Varies	Varies	Yes	Yes
Mineral	Aluminium oxide	Alumina zirconia	Blend of Precision Shaped Ceramic Grain	Precision Shaped Ceramic Grain
Abrasive cost per job	£££	££	£	££
Total cost of the job (abrasive, labour, processes)	££££	£££	££	£

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

Choose: **3M™ Silver Wheels** for a longer life, helping to lower your abrasive spend.



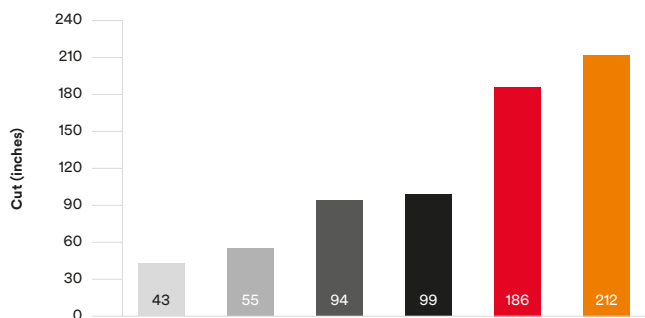
Choose: **3M™ Cubitron™ II** for a longer life and faster cut, helping to increase your productivity and lower your overall grinding costs.



### Cut-off 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.

	Competitor A		Competitor D
	Competitor B		3M Silver
	Competitor C		3M™ Cubitron™ II





## 3M™ Silver Cut-off Wheel T41

Part no	Diameter × thickness × arbor hole	Max. RPM	Quantity (inner/case)
51765	75 mm × 0.9 mm × 6 mm	20,000	25/50
51767	75 mm × 0.9 mm × 10 mm	20,000	25/50
51769	75 mm × 1.6 mm × 10 mm	20,000	25/50
51771	100 mm × 0.9 mm × 6 mm	15,300	25/50
51774	100 mm × 1 mm × 10 mm	15,300	25/50
51775	100 mm × 1 mm × 16 mm	15,300	25/50
51776	100 mm × 1.3 mm × 16 mm	15,300	25/50
51777	105 mm × 1 mm × 10 mm	14,500	25/50
51778	105 mm × 1 mm × 16 mm	14,500	25/50
51783	105 mm × 2 mm × 16 mm	14,500	25/50
51785	115 mm × 1 mm × 22.23 mm	13,300	25/50
51787	115 mm × 1.6 mm × 22.23 mm	13,300	25/50
51790	125 mm × 1 mm × 22.23 mm	12,250	25/50
51792	125 mm × 1.6 mm × 22.23 mm	12,250	25/50
51795	125 mm × 2 mm × 22.23 mm	12,250	25/50
51814	150 mm × 1.6 mm × 22.23 mm	10,200	25/50
51796	180 mm × 1.6 mm × 22.23 mm	8,500	25/50
51797	180 mm × 2 mm × 22.23 mm	8,500	25/50
51803	180 mm × 3 mm × 22.23 mm	8,500	25/50
51804	230 mm × 2 mm × 22.23 mm	6,650	25/50
51806	230 mm × 3 mm × 22.23 mm	6,650	25/50

## 3M™ Silver Cut-off Wheel T42

Part no	Diameter × thickness × arbor hole	Max. RPM	Quantity (inner/case)
51800	115 mm × 2.5 mm × 22.23 mm	13,300	25/50
51801	125 mm × 2.5 mm × 22.23 mm	12,250	25/50
51802	180 mm × 2.5 mm × 22.23 mm	8,500	25/50
51805	230 mm × 2.5 mm × 22.23 mm	6,650	25/50

### Got a need for speed?



For even faster cut rate,  
try 3M™ Cubitron™ II  
abrasives.



## Stay safe on the job with 3M™ PPE



### 3M™ Headgear G500

The 3M™ Headgear G500 provides a versatile and comfortable solution for wearers who require both face and hearing protection.



### 3M™ PELTOR™ X4 Ear Defender Helmet Mounted

The 3M PELTOR X4 Ear Defenders are designed to offer protection against high noise levels, whilst maintaining a sleek, low profile, aesthetically pleasing design.



### 3M™ GoggleGear™ 500 Series

The 3M™ Goggle Gear, 500-Series is a low-profile design with an adjustable strap and indirect ventilation. These splash goggles with 3M™ Scotchgard™ Anti-Fog Coating help keep lenses clear in, steamy and wet environments.



### 3M™ Aura™ 9332+ Valved Respirator

A 3 panel flat fold design allows workers to move and speak more freely and provides an effective filtration of hazardous particles.



### 3M™ E-A-R™ Ultrafit™ Earplugs

Flexible tri-flange design conforms to most ear canals. Soft and durable material improves comfort and wear ability. No need to handle the plug tip making them more hygienically acceptable.

*\*Please read and follow all 3M instruction for proper use.*



For more information please contact your local  
3M Representative or 3M Distributor  
Visit [3M.co.uk/silverabrasives](http://3M.co.uk/silverabrasives)

### Abrasive Systems Division

3M United Kingdom PLC  
4th Floor, Building 8  
Exchange Quay, Salford Quays  
Greater Manchester M5 3EJ  
Tel: 0845 504 8772  
[abrasives.uk@mmm.com](mailto:abrasives.uk@mmm.com)  
[www.3M.co.uk/abrasives](http://www.3M.co.uk/abrasives)

3M Ireland Limited  
The Iveagh Building  
The Park, Carrickmines  
Dublin 18, Ireland  
Tel: 1800 320 500

Please recycle. Printed in the UK. © 3M 2018. 3M, Aura, Cubitron, E-A-R, GoggleGear, PELTOR, Scotchgard and Ultrafit are trademarks of the 3M company. All rights reserved. J421222

