

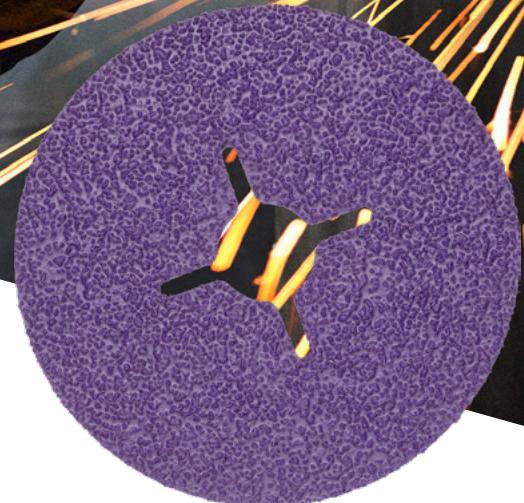
3M

CUBITRON™ II

Industrial Abrasives

**982CX
Pro**

**Fast and safe
grinding solution**



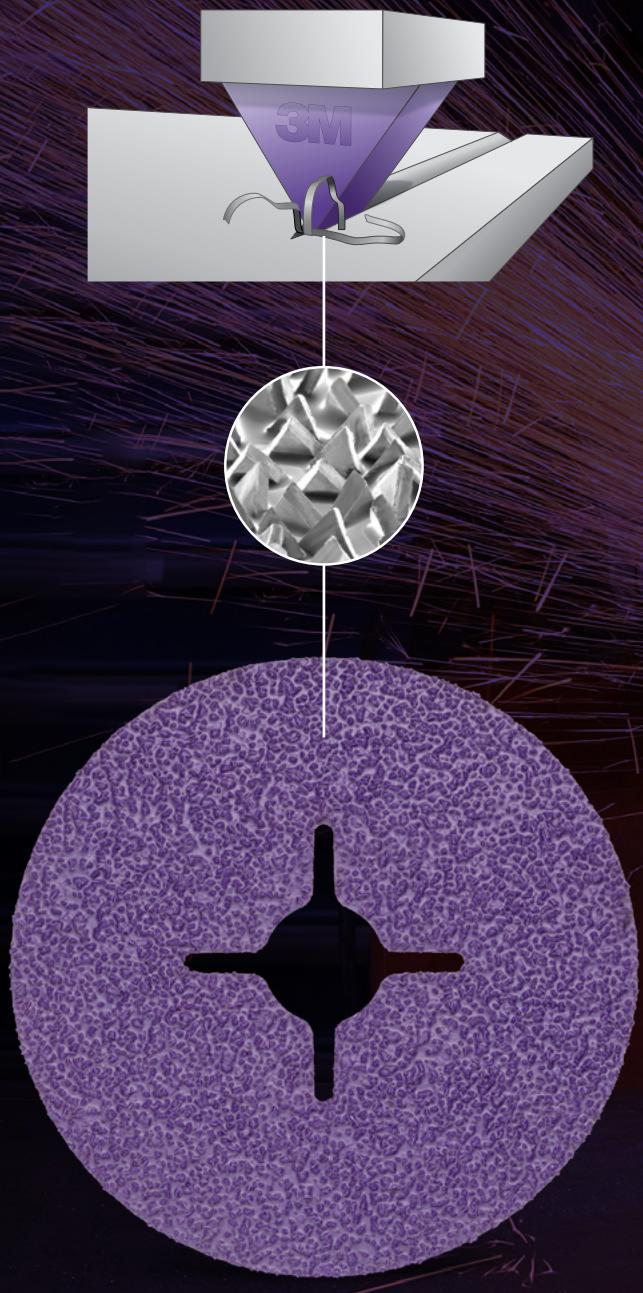
3M™ Cubitron™ II Fibre Discs 982CX Pro

3M™ Cubitron™ II Fibre Disc 982CX Pro

3M Precision-Shaped Grain technology can help improve productivity and reduce risks from exposure to hazards in the workplace.

This abrasive technology continuously fractures to form sharp points and edges — slicing cleaner and faster, staying cooler and lasting longer than conventional abrasives.

As a result, 3M™ Cubitron™ II Abrasives require less force, helping to minimise operator fatigue. They also cut faster, reducing the time that the operator spends holding the tool and being exposed to vibration.



Improve productivity

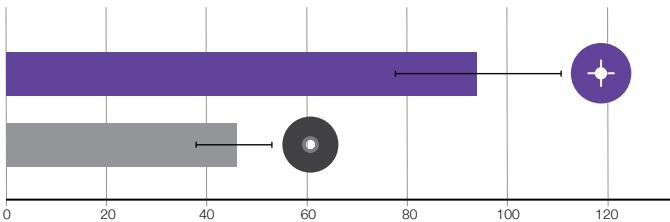
Get more done, faster.

982CX Pro Fibre disc vs. high-quality grinding wheels

Material removal rate, grams/minute.¹

■ 3M™ Cubitron™ II Fibre Disc 982CX Pro

■ High-quality bonded wheels²



faster cut rate
than high-quality
grinding wheels*



3M Precision-Shaped Grain slices
through metal faster, generating less
heat than conventional abrasives

*Performance testing in a typical weld preparation process; fibre disc 982CX Pro 36+ average compared to the average result of the high-quality bonded wheels tested, according to testing by Fraunhofer Institute.

¹Error bars shows a range of likely values for the mean with a confidence level of 95%

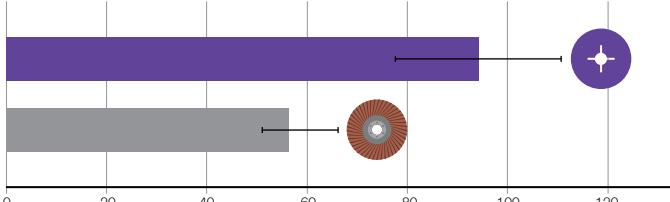
²Average result of 5 high-quality bonded wheels

982CX Pro Fibre disc vs. high-quality flap discs

Material removal rate, (grams/minute).¹

■ 3M™ Cubitron™ II Fibre Disc 982CX Pro

■ High-quality flap discs, 125mm²²



faster cut rate
than high-quality flap
discs*

*Performance testing in a typical weld preparation process; fibre disc 982CX Pro 36+ average compared to the average result of the high-quality flap discs tested, according to testing by Fraunhofer Institute.

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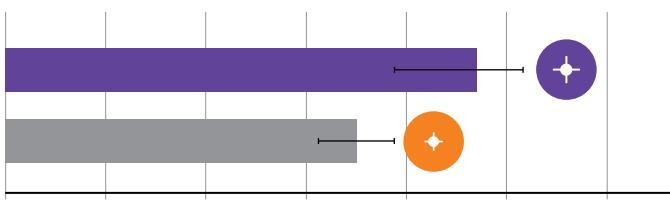
²Average result of 3 high-quality flap discs.

982CX Pro Fibre disc vs. competitive ceramic grain fibre discs

Material removal rate, (grams/minute).¹

■ 3M™ Cubitron™ II Fibre Disc 982CX Pro

■ Competitive ceramic grain fibre discs, 125mm²²



faster cut rate
than high-quality competitive
ceramic grain fibre discs*

*Performance testing in a typical weld preparation process; fibre disc 982CX Pro 36+ average compared to the average result of the high-quality competitive ceramic grain fibre discs tested, according to Fraunhofer Institute.

¹Error bars shows a range of likely values for the mean with a confidence level of 95%

²Average result of 3 high-quality competitive ceramic grain fibre discs.



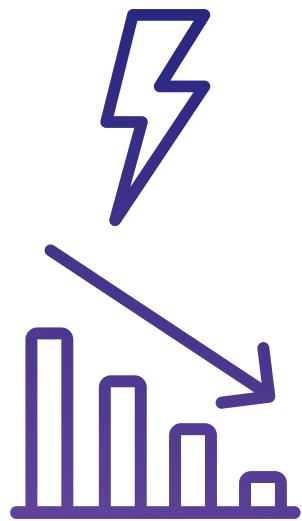
The independent Fraunhofer Institute made tests on various applications to find the ideal abrasive products in terms of performance and safety. The graphs show the results of the tests.

Get the job done faster, reduce energy consumption

How to save energy?

3M™ Cubitron™ II Fibre Disc 982CX Pro grinds faster which means less time and energy is used to complete the same job.

The charts on the next page show that utilising the new 982CX Pro fibre disc for a set task reduces the amount of time needed to use the electric grinder, which results in less electricity being consumed, saving both time and money.



A new era of abrasive performance is here.

The first time you use 3M™ Cubitron™ II Discs 982CX Pro with the newly re-engineered, Precision-Shaped Grains, you'll instantly notice the difference. We've taken the legendary cutting speed and life of 3M™ Cubitron™ II abrasives to a new level—outperforming our original precision-shaped grain.



Improve productivity

Get more done, faster.

982CX Pro Fibre disc vs. high-quality grinding wheels

Processing time to remove 1kg of mild steel (minutes).¹

■ 3M™ Cubitron™ II Fibre Disc 982CX Pro

■ High-quality bonded wheels²



 **57%** less processing time than high-quality grinding wheels.*

*Performance testing in a typical weld preparation process; fibre disc 982CX Pro 36+ average compared to the average result of the high-quality bonded wheels tested, according to testing by Fraunhofer Institute.

¹Error bars shows a range of likely values for the mean with a confidence level of 95%

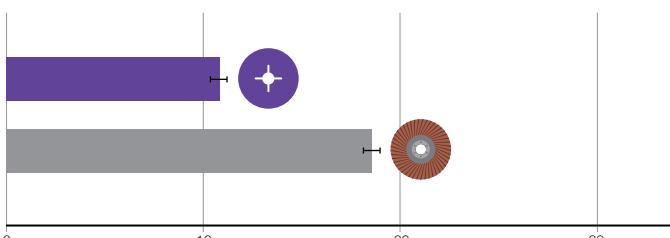
²Average result of 5 high-quality bonded wheels

982CX Pro Fibre disc vs. high-quality flap discs

Processing time to remove 1kg of mild steel (minutes).¹

■ 3M™ Cubitron™ II Fibre Disc 982CX Pro

■ High-quality flap discs, 125mm²



 **42%** less processing time than high-quality flap discs.*

*Performance testing in a typical weld preparation process; fibre disc 982CX Pro 36+ average compared to the average result of the high-quality flap discs tested, according to independent testing by Fraunhofer Institute.

¹Error bars shows a range of likely values for the mean with a confidence level of 95%

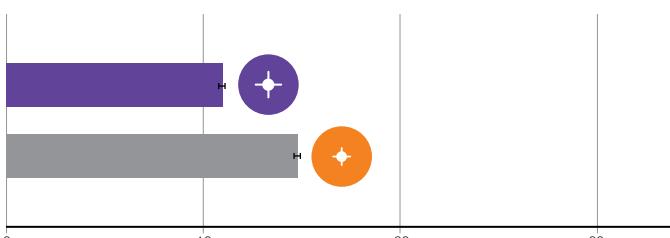
²Average result of 3 high-quality flap discs.

982CX Pro Fibre disc vs. competitive ceramic grain fibre discs

Processing time to remove 1kg of mild steel (minutes).¹

■ 3M™ Cubitron™ II Fibre Disc 982CX Pro

■ Competitive ceramic grain fibre discs, 125mm²



 **26%** less processing time than high-quality competitive ceramic grain fibre discs.*

*Performance testing in a typical weld preparation process; fibre disc 982CX Pro 36+ average compared to the average result of the high-quality competitive ceramic grain fibre discs tested, according to independent testing by Fraunhofer Institute.

¹Error bars shows a range of likely values for the mean with a confidence level of 95%

²Average result of 3 high-quality competitive ceramic grain fibre discs.



Contact your local 3M Sales Representative and request a demo to see how 3M can help you improving your metalworking processes in your applications.

Abrasive Safety

Abrasive applications such as cutting, grinding and sanding can involve a multitude of hazards, and identifying those hazards and the best safety solutions to address these is not always easy. The high speeds, temperatures and forces involved with the use of abrasives can create immediate safety hazards such as cuts and burns. If not properly managed, the routine use of the abrasive can also create longer-term health risks from vibration and noise.

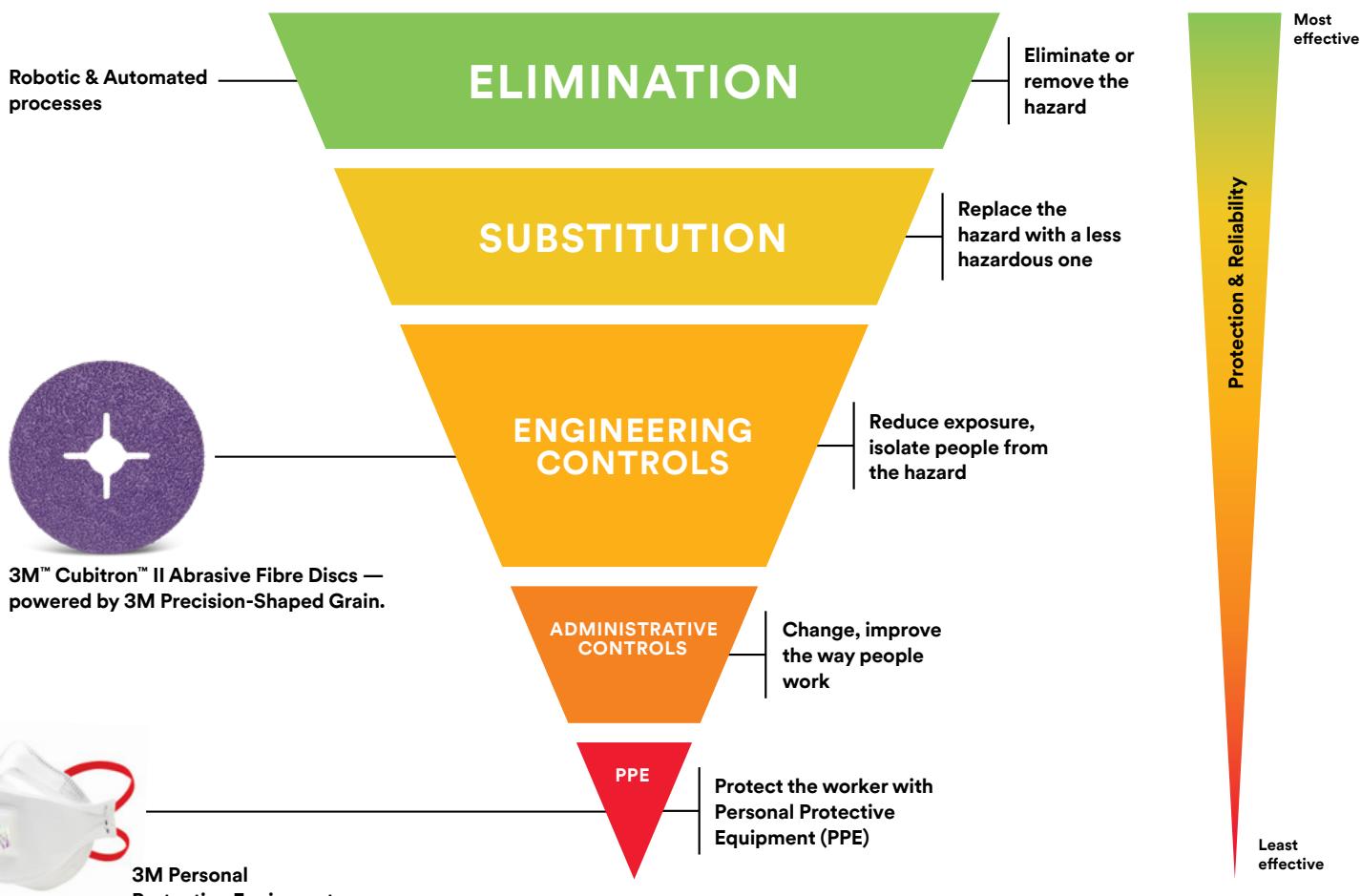
Abrasive Workplace Hazards



Best practice in health and safety management begins with a thorough risk assessment. Once hazards have been identified and categorized for risk, the next step is to implement preventative measures and appropriate controls, such as the Hierarchy of Controls framework.



Hierarchy of Controls*



* Content source: Hierarchy of Controls (National Institute for Occupational Safety and Health) www.cdc.gov/NIOSH

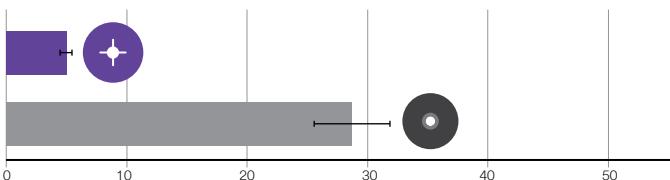
Improve personal safety

Reduce hand-arm vibration.

982CX Pro Fibre disc vs. high-quality grinding wheels

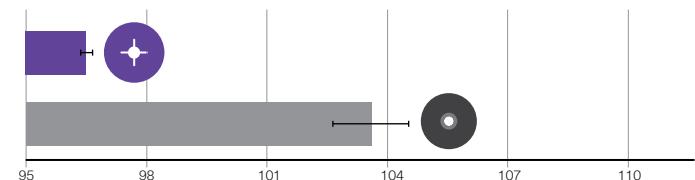
Operator exposure to vibration from grinding (points).¹

■ 3M™ Cubitron™ II Fibre Disc 982CX Pro
■ High-quality bonded wheels²



Noise level during grinding decibels dB(A).¹

■ 3M™ Cubitron™ II Fibre Disc 982CX Pro
■ High-quality bonded wheels²



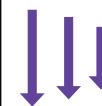
A quieter way to grind.



83% Less vibration exposure than high-quality grinding wheels*



61% Less noise energy generated than high-quality grinding wheels*



Less force required: helps minimise operator fatigue



Reduce the risk to those in the immediate vicinity

*Hand-arm vibration operator exposure testing in a typical weld preparation process; fibre disc 982CX Pro 36+ average compared to the average result of the high-quality bonded wheels tested, according to testing by Fraunhofer Institute.

¹Error bars shows a range of likely values for the mean with a confidence level of 95%

²Average result of 5 high-quality bonded wheels

*Noise level operator exposure testing in a typical weld preparation process; fibre disc 982CX Pro 36+ average compared to the average result of the high-quality bonded wheels tested, according to Fraunhofer Institute.

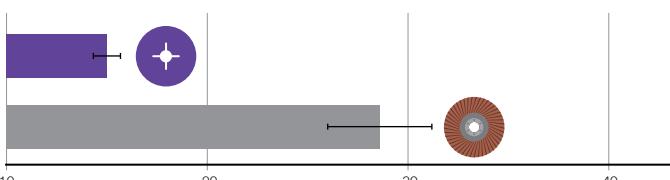
¹Error bars shows a range of likely values for the mean with a confidence level of 95%

²Average result of 5 high-quality bonded wheels

982CX Pro Fibre disc vs. high-quality flap discs

Operator exposure to vibration from grinding (points).¹

■ 3M™ Cubitron™ II Fibre Disc 982CX Pro
■ High-quality flap discs, 125mm²



73% Less vibration exposure than high-quality flap discs*

*Hand-arm vibration operator exposure testing in a typical weld preparation process; fibre disc 982CX Pro 36+ average compared to the average result of the high-quality flap discs tested, according to Fraunhofer Institute.

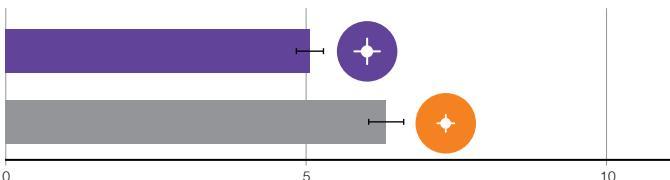
¹Error bars shows a range of likely values for the mean with a confidence level of 95%

²Average result of 3 high-quality flap discs.

982CX Pro Fibre disc vs. competitive ceramic grain fibre discs

Operator exposure to vibration from grinding (points).¹

■ 3M™ Cubitron™ II Fibre Disc 982CX Pro
■ Competitive ceramic grain fibre discs, 125mm²



20% Less vibration exposure than high-quality competitive ceramic grain fibre discs*

*Hand-arm vibration operator exposure testing in a typical weld preparation process; fibre disc 982CX Pro 36+ average compared to the average result of the high-quality competitive ceramic grain fibre discs tested, according to independent testing by Fraunhofer Institute.

¹Error bars shows a range of likely values for the mean with a confidence level of 95%

²Average result of 3 high-quality competitive ceramic grain fibre discs.

A system of success.

The system advantage.

Our new abrasives and tools are designed to maximize performance when used together. Each component of this unique system has been engineered to optimise life, cut rate and consistency—helping to improve productivity and lower overall costs.

► Performance

Start strong with new 3M™ Cubitron™ II Fibre Discs 982CX Pro that provide faster, cooler and consistent cutting with longer life.

► Power

The new 3M™ Electric Grinders help optimize the cut and life of our new 3M Cubitron II Fibre Discs.

► Productivity

A faster material removal and longer lasting abrasives with fewer disc changes results in increased productivity.



3M™ Electric Grinders

The new electric grinder is available in 115mm and 125mm and fixed or variable speed.

Designed with robust components, these grinders are built for durability in the harshest industrial conditions. They're the powerful and long-lasting tools you need to get more done.

- ▶ 1900 W power
- ▶ Available in fixed or variable speeds
- ▶ World class ergonomic design
- ▶ Robust design and components provide durability in industrial conditions
- ▶ Accessories for maximum functionality and flexibility
- ▶ Mesh guard to increase motor protection from grinding debris.
- ▶ Direct cooling for a long service life
- ▶ Restart protection
- ▶ Adjustable guard
- ▶ Overload protection
- ▶ Kickback control



3M™ High Performance Ribbed Back-up Pad

3M™ Fibre Disc Back-up Pads provide firm support required for grinding applications. Recommended for best performance with 3M™ Cubitron™ II Fibre Discs 982CX Pro and the new 3M™ Electric Grinder.



Use with 3M™ Fibre Disc Back-up Pads to optimize product life and performance of 3M™ Cubitron™ II Fibre Discs 982CX Pro.

Let's get started.

Choose the right kit for your needs.



3M™ Cubitron™ II Fibre Disc 982CX Pro Kit

The kit includes three 3M™ Cubitron™ II Fibre Discs 982CX Pro and one 3M™ High Performance Ribbed Back-Up Pad.

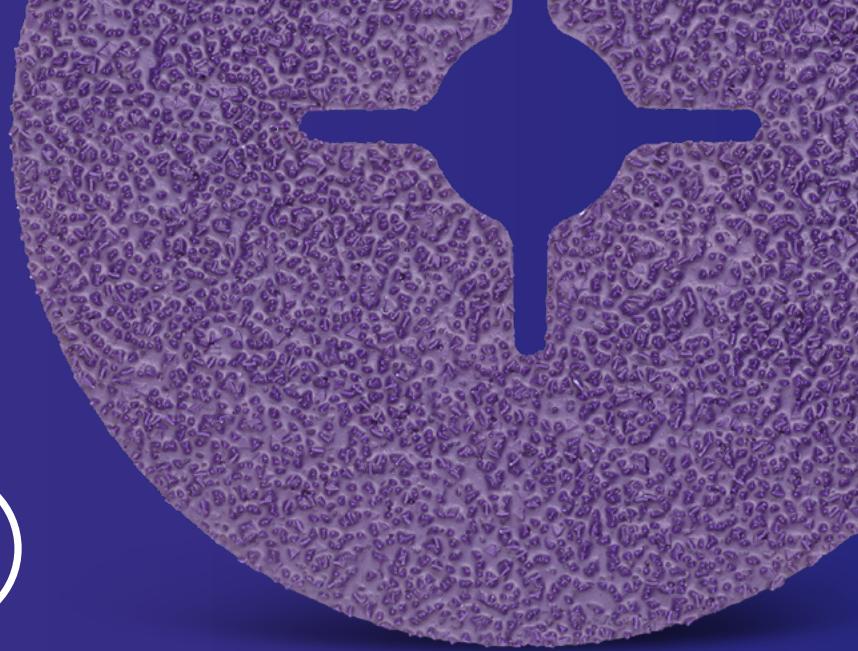
3M™ Electric Grinder Kit

These 3M abrasives and tools are designed to be used together as a complete system to maximise heavy-duty grinding performance. Each component of this system has been engineered to optimise life, cut-rate, finish consistency and operator comfort compared to depressed center grinding wheels in the right applications. The system improves productivity, lowers overall costs and minimises noise, dust and vibration.

The kit includes:

- ▶ 3M™ Electric Angle Grinder (1 piece).
- ▶ 3M™ Cubitron™ II Fibre Disc 982CX Pro (25 pieces) – re-engineered 3M Precision-Shaped Grain cuts 33% faster than 3M™ Cubitron™ II Fibre Discs 982C and significantly faster than depressed center grinding wheels, helping boost productivity in your operation.
- ▶ 3M™ High Performance Ribbed Back-Up Pad (1 piece) – rigid construction of the ribbed back-up pad maintains maximum pressure between disc and workpiece so the Precision-Shaped Grains fracture and maintain sharp cutting points throughout the life of the disc.





3M™ Cubitron™ II Fibre Disc 982CX Pro-Slotted Grade 36+

Diameter (mm)	Product ID	Part number	Max RPM	Box/Case
100 x 16	7100242886	10390	15,000	25/100
115 x 22	7100242885	10349	13,300	25/100
125 x 22	7100246096	10023	12,000	25/100
150 x 22	7100242966	10242	10,000	25/100
180 x 22	7100242965	10074	8,600	25/100

3M™ High Performance Ribbed Back-Up Pad



Diameter (mm)	Product ID	Part number	Max RPM	Box/Case
115	7000032409	64860	13,300	10/10
125	7000032410	64861	12,000	10/10
150	7100242134	64829	10,200	15/15
180	7000032411	64862	8,500	15/15

Back-up pad must be purchased separately.

3M™ Electric Grinders – 1900W, 220-240V, 11,500 Max RPM, M14



Diameter (mm)	Product ID	Part number	Max RPM	Box/Case
115	7100249666	14253	Fixed	1/1
115	7100249667	14281	Variable	1/1
125	7100249665	14273	Fixed	1/1
125	7100249668	14291	Variable	1/1

3M™ Electric Angle Grinder Kit, 1900W, Variable Speed



Diameter (mm)	Product ID	Part number	Box/Case
115	7100289510	73846	1/1
125	7100289436	73981	1/1

3M™ Cubitron™ II Fibre Disc 982CX Pro, 36+, Slotted Disc with Ribbed Back-up Pad kit



Diameter (mm)	Product ID	Part number	Box/Case
115	7100263628	07065	1/10
125	7100263629	07096	1/10

Choosing the Right Abrasives

Selecting the most appropriate abrasive product — powered by 3M Precision-Shaped Grain — can have a positive impact on safety in the workplace, mitigating risk against hand-arm vibration and noise hazards.



3M™ Cubitron™ II Fibre Disc 982CX Pro

Out-grind the competition with the fastest cutting, longest lasting fibre disc from 3M.



3M™ Cubitron™ II Depressed Center Grinding Wheels

For heavy duty general purpose grinding including fillet welds, where productivity is important.



3M™ Cubitron™ II Flap Discs 969F

Versatility and ease-of-use. Not as fast as fibre discs, but more user-friendly. Delivers a finer finish, with less chance of gouging.

Boost your safety and productivity with the complete solution by 3M.

3M™ Cubitron™ II Fibre Disc 982CX Pro System

Product	Description
	3M™ Cubitron™ II Fibre Disc 982CX Pro
	<i>Recommended for use with above.</i>
	3M™ High Performance Ribbed Back-Up Pad (Must be purchased separately)
	3M™ Electric Angle Grinders (fixed or variable speed)

3M™ Personal Protective Equipment (PPE)

Product	Description
①	3M™ SecureFit™ 400X Series Safety Glasses
③	3M™ GoggleGear™ 500 Series Goggle
	3M™ Headgear Combination, G500V5F11H51-GU (includes hearing protection)
①	3M™ Aura™ Particulate Respirator 9332+ Series
②	3M™ SecureClick™ Half Mask Reusable Respirator HF 800 Series
③	3M™ E-A-R™ Flexible Fit Earplug HA 328-1000 3M™ PELTOR™ Electronic Earplug, EEP-100
	3M™ PELTOR™ Earmuff X4

For a complete list of products visit 3M.co.uk/safety

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

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3M United Kingdom PLC
3M Centre
Cain Road
Bracknell
RG12 8HT
Tel: +44 8705 360036
abrasives.uk@mmm.com
www.3M.co.uk/abrasives

3M Ireland Limited
The Iveagh Building
The Park
Carrickmines
Dublin 18
Ireland
Tel: +353 1800 303 437

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