3M™ Green Corps™ Flexible Grinding Disc

Increased performance – durability with faster cut and a better finish – low vibration and low noise with less dust







3M[™] Green Corps[™] Flexible Grinding Discs

The newly developed Green Corps Flexible Grinding Discs contain 3M patented Cubitron[™] Abrasive Grain, the latest technology in ceramic mineral.

These discs enable you to improve your production standards for grinding and blending on a wide selection of metals.



Benefits

Faster Cut Rate - light weight disc

The high performance Cubitron Mineral works harder than regular minerals, giving a much higher rate of cut when compared to standard grinding discs, increasing the efficiency of your operation.

Operator Friendly - low vibration and low noise

The flexible construction of the product means minimal vibration. This makes it easier to use and considerably reduces operator fatigue.

Long Performance Life

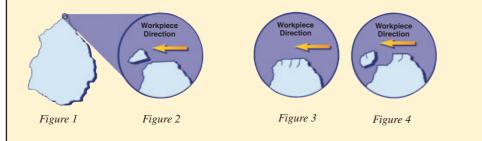
The flexible construction and durability of the Cubitron Mineral gives the product consistent performance over a longer period of time, when compared to conventional grinding discs. This makes Green Corps a more cost-effective option.

Improved Finish

The flexibility of the product gives a better finish than with conventional grinding discs. This means fewer abrasive steps could be required for your application, therefore increasing your productivity.



When you see the Cubitron mark, you're getting a sol gel mineral (fig.1) that sharpens as it wears. Initial grinding breaks away small edges of the grain (fig.2). As grinding continues, micro-fractures form (fig.3) which break off to create fresh sharp edges for continued fast cutting (fig.4). This process repeats throughout grinding for long-term efficiency and full value for your abrasive investment.







Applications

Green Corps Flexible Grinding Discs are used in many industries, on a variety of metals. These industries include maintenance & repair, metal fabrication and shipbuilding, working with materials like steel, stainless steel and aluminium.

The main applications are:

- Weld removal
- Weld Spatter removal
- Heavy deburring, including flame cut parts
- Removing and cleaning casting gates
- Scale removal
- MRO applications



Product Line

Green Corps Flexible Grinding Disc

Part No.	Size (mm)	Grade	Kit Qty	MOQ Kits	MOS *
60105	100 x 3 x 16	P36		10	15,200
60630	115 x 3 x 22	P36	20 discs	10	13,300
60633	115 x 3 x 22	P80	+	10	13,300
60634	125 x 3 x 22	P36	2 BUP's	10	12,200
A60638	180 x 3 x 22	P36		5	8,500



Backup Pads (BUP's)

Part No.	Sizes (mm)	For Use With	Pack Qty
60642	86 x 22	115/125 mm discs	20 x 5
60643	117 x 22	180 mm discs	20 x 5



*Maximum Operating Speed

Do You Know Enough About Hand-Arm Vibration?

What is Hand-Arm Vibration Syndrome?

- Hand-Arm Vibration Syndrome (HAVS) is a general term for a group of medical conditions caused by the transfer of vibration from powered tools and equipment to an operator's hand and arm.
- The most well known form of HAVS is a Vibration White Finger (VWF), a whitening of the fingers that can lead to circulatory, joint, muscle and nerve problems.
- VWF is amongst the most common reasons for occupational ill health claims against UK employers.

Does it affect many?

- Over 4.5 million employees in the UK are exposed to hand-arm vibration in the workplace. More than a million of these are exposed to vibration levels above the current UK Health & Safety Executive (HSE) Action Limit of 2.8m/s2.
- The HSE estimates that around 36,000 people in the UK exhibit advanced symptoms of VWF.

What causes the problem?

- Hand-arm vibration is potentially a likely occurrence in industries such as foundries, heavy engineering and metal products manufacturing, where regular use of grinding equipment and other common tools may expose operators to higher levels of vibration.
- The risk of developing symptoms of HAVS depends on a number of factors, including the amount and length of exposure to vibration, and working conditions such as operator posture and environmental temperature.

Put simply, an operator may be at risk if they experience tingling or numbness in their fingers during, or immediately after, use of a vibrating tool or machine.

What does the new law require employers to do about the risk of hand-arm vibration?

- When it comes into force in the UK in July 2005, the Physical Agents (Vibration) Directive 2002/44/EC will significantly reduce the acceptable level of exposure to vibration in the workplace from 2.8m/s2 to 2.5m/s2.
- This reduction in acceptable exposure level will impact industry by reducing "safe" working times of hand-held power tools by up to 60%, with obvious impact on productivity unless new ways of working are adopted.
- The Directive has been implemented by Regulations under the Health & Safety at Work Act (1974), and states that employers are required to:
 - Protect workers from the health risks resulting from exposure to vibration
 - Assess all risk to their employees from vibration and offer alternative working methods that reduce exposure where necessary
 - Reduce employees' exposure to vibration to a minimum by selecting appropriate work equipment designed to produce the lowest possible level of vibration

How can 3M help?

• A number of 3M's abrasive products, including the 3M[™] Green Corps[™] Flexible Grinding Disc, have increased flexibility and better balance characteristics, and can contribute to a reduction in the level of vibration generated to hand and arm.

In addition they can help reduce operator fatigue, improve the workplace environment and even improve surface finish.



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