



SAFETY RECOMMENDATIONS FOR THE USE OF NEXUS ABRASIVE PRODUCTS

PASS ON THIS LEAFLET TO THOSE USING THE ABRASIVE PRODUCTS
The recommendations contained in this leaflet should be followed by
all users of abrasive products in the interests of their personal safety

GENERAL PRINCIPLES OF SAFETY

Nexus abrasive products are potentially dangerous if inappropriately used.

- Always follow the instructions provided by the Nexus abrasive product and machine supplier.
- Ensure that the Nexus abrasive product is correct for its intended use and examine for defects before mounting.
- Follow the correct procedures for handling and storage of Nexus abrasive products.

Be aware of the hazards likely during the use of Nexus abrasive products and observe the suggested precautions to be taken:

- Bodily contact with the abrasive product at operating speed.
- Injury resulting from product breakage during use.
- Grinding debris, sparks, fumes and dust generated by the grinding process.
- Noise.
- Vibration.

Use only abrasive products conforming to relevant EN standard number.

- EN12413 for Bonded Abrasives.
- EN13236 for Superabrasives.
- EN13743 for Specific Coated Abrasives (vulcanised fibre discs, flap wheels, flap discs and spindle-mounted flap wheels).

Never use a machine with substandard or worn parts.

Employers should carry out a risk assessment on all individual abrasive processes to determine the appropriate protective procedures necessary. They should ensure that their employees are suitably trained to carry out their duties.

This leaflet is only intended to provide basic safety recommendations. For more detailed information on the safe use of abrasive products, comprehensive Safety Codes are available from FEPA or your national Trade Association:

- FEPA Safety Code for Bonded Abrasives and Precision Superabrasives.
- FEPA Safety Code for Superabrasives for Stone and
- FEPA Safety Code for Coated Abrasives.



PRECAUTIONS AGAINST HAZARDS

Bodily contact with the abrasive product

- Always take great care and attention when using abrasive products. Tie back long hair and do not wear loose clothing, ties and jewellery.
- Isolate machines from their power source to prevent accidental start-up of the machine before changing an abrasive product.
- Never remove guards from machines where fitted and ensure they are in good condition and properly adjusted before starting the machine.
- Always use gloves with a minimum protection level of EN 388 Category 2 and protective clothing where the work piece or machine is hand-held.

Storage and Handling

- Always handle abrasives with great care, they are easily damaged. Examine all products for defects or damage before use.
- Store abrasives in dry, frost-free conditions avoiding wide variations in temperature. Ensure they are properly protected and supported to prevent damage and distortion.
- Coated abrasives should be stored at 18-20° C, 45-65% relative humidity.
- Never use an abrasive product beyond its marked expiry date. Otherwise observe the shelf life for the following specific products;
 - 3 years Resinoid and Shellac products,.
 - 5 years Rubber products.
 - 10 years Vitrified products.
- Check abrasive product or package for any warnings or other safety information and do not use if damaged.

Injury caused by product breakage

- Ensure that the correct abrasive product is selected. Never use a product if it cannot be properly identified.
- Follow the instructions provided by the abrasive product or machine supplier when mounting abrasive products. Observe any mounting indications marked on the product such as direction of run or mounting position.
- Never force the abrasive product onto the mounting fixture or modify it to fit.
- Never exceed the maximum operating speed where specified.
- Check that the correct mounting devices are used and that they are undistorted, clean and free from burrs.
- Do not excessively tighten the mounting device.
- After mounting or re-mounting an abrasive product, conduct a trial run at operating speed with the guard in place for at least 30 seconds, standing clear of the machine before use.
- Never remove guards from machines where fitted and ensure they are in good condition and properly adjusted.
- Ensure that the work piece is secure and properly supported. Ensure that work rests are properly adjusted and secure.
- Never start the machine with the work piece in contact with the abrasive product.
- Never apply excessive force or shock to the abrasive product or let it overheat.
- Do not grind on the part of the product that is not designed for the operation.
- Avoid clogging and uneven wear to ensure that the abrasive product is working efficiently. Dress frequently where appropriate.
- Let the abrasive product stop naturally, not by applying pressure to its surface.
- Turn off and spin out excess coolant before stopping the machine.
- Do not leave abrasive belts under tension when not in use.



Grinding debris - sparks, dust and fumes

- All dry grinding processes should be provided with satisfactory extraction facilities.
- Do not use abrasive products near combustible materials.
- The use of respirators complying with EN149 is recommended for dry grinding processes even if extraction systems are provided.
- Guards where provided should be adjusted to deflect sparks and debris away from the operator.
- Take additional measures to protect people working nearby.
- Eye protection is recommended for all machine applications for abrasives. For hand-held machines or work piece, goggles or full-face shields are recommended.
- Eye protection with a minimum protection of EN166 Grade B is recommended.
- Ensure that the right abrasive product is selected. An unsuitable product can produce excessive debris and dust.

PRECAUTIONS AGAINST LIKELY HAZARDS

Noise

- Ear protection complying with EN352 is recommended for all applications where the work piece or machine is hand-held, irrespective of the noise level.
- Ensure that the correct abrasive product is selected. An unsuitable product can produce unnecessary noise.

Vibration

- Processes where the work piece or machine is hand-held can cause vibration injury.
- Action needs to be taken if tingling, pins and needles or numbness is experienced after 10 minutes continuous use of the abrasive product.
- The effects of vibration are more pronounced in cold conditions so keep the hands warm and exercise hands and fingers regularly. Use modern equipment with low vibration levels.
- Maintain all equipment in good condition and checked if excessive vibration occurs.
- Use good quality abrasive products and keep them in good condition during their life.
- Maintain mounting flanges and back-up pads in good condition and replace if worn or distorted.
- Do not grip the work piece or machine too tightly and do not exert excessive pressure on the abrasive product.
- Avoid continuous use of abrasive products.
- Use the correct product. An unsuitable product can produce excessive vibration.
- Don't ignore the physical symptoms of vibration - seek medical advice.

DISPOSAL OF ABRASIVES

- Used or defective abrasives should be disposed in accordance with local or national regulations.
- Further information can be obtained from material safety data sheets provided.
- Be aware that the abrasive product may be contaminated with material from the work piece or process after use.
- Disposed abrasive products should be spoilt to prevent them from being re-used.

Please ensure that this MSDS is received by the appropriate person



Disc Information and Warnings



Main dimensions and Specification

Speed stripe

Pictograms on disc



Mild steel and Stainless steel



Use ear protection



Wear gloves



Wear dust mask



No side grinding



Read instructions



Use eye protection