

# Safety Guide for Use of Coated Abrasives and Cutting and Grinding Discs

**IMPORTANT:** Deliver this leaflet with cutting/grinding disc to operator. Read before mounting the disc.

Bonded abrasive products are breakable and shall therefore be handled with utmost care. The use of damaged, improperly mounted or improperly used abrasive products is dangerous and can cause serious injuries.

## Deliver, Handling and Storage

Abrasive products shall be handled and transported with care. Abrasive products shall be stored in such a manner that they are not subjected to mechanical damage and/or a high level of humidity.

## Selection of the Abrasive Product

Information on the label of the abrasive product, as well as restriction of use, safety indications or any other instruction, shall be followed.

Wheels used on any machine shall only be of a type for which the machine is designed.

## Inspection

Prior to mounting, all abrasive wheels shall be visually inspected. Wheels which show evidence of cracks, abusive handling or abusive storage must not be mounted.

## Operating Speed

Machine shall be set and measured to make sure that it does not exceed the maximum operating speed designated for the abrasive wheel.

## Mounting

The mounting of abrasive wheels shall be carried out according to the instructions provided by both the wheel and the machine manufacturers.

Mounting of abrasive products shall be carried out by a qualified trained person.

Flanges and adaptors shall be checked for flatness of bearing surface. Spring or warped flanges or adaptors, or those which are not clean and free of burrs, must not be used.

The spindle end nut shall be tightened only enough to drive the wheel and prevent slippage.

All newly mounted wheels shall be run at operating speed for at least ten seconds before applying to workpiece. During this time no one shall stand in front of or in line with the wheel, and the maximum safe operating speed must not be exceeded.

In the case of strong vibrations during the test run, the machine shall be stopped, the tightened nut released, the wheel remounted, and the machine restarted. If the strong vibrations persist, the wheel must not be used.

Arbor size hole: Abrasive wheels shall fit freely but not loosely on the machine spindle. The size of the arbor hole must not be altered to fit the spindle.

At the completion of wheel mounting, a safety guard covering at least one half of the wheel shall be in place. All safety guard fasteners shall be in place and properly tightened. Grinding wheels must not be operated on any machine which has had its safety guard removed.

## Personal Protection

Safety goggles or safety spectacles shall be worn by all personnel exposed to grinding operations.

Where necessary, additional personal protective equipment shall be used, such as face protection, ear protection, respiratory devices, aprons, protective footwear, and protective gloves.

## Operation


Care shall be taken not to apply excessive pressure between the abrasive wheel and the workpiece, and to prevent the machine from slowing noticeably or the workpiece from becoming overheated.

Grinding must not be performed at the side of the wheel.

## Stopping the Machine

When shutting down a wet grinding operation, the coolant must first be shut off and the wheel allowed to rotate until the coolant has been spun out.

Before placing the hand-held grinding machine on the workbench or floor it shall be ensured that the abrasive wheel has come to a complete stop.

 **WARNING:** This product can expose you to chemicals including glass wool fibers (inhale and biopersistent), crystalline silica (airborne particles of respirable size) and formaldehyde, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).