



## HANDLE GRINDING WHEELS SAFELY

Safety is everyone's business in both the application and care of grinding wheels. Wheels improperly used may not only be breakable - they can be dangerous. Grinding wheel operation must always be in strict compliance with the American National Standards Institute (ANSI) B7.1 Safety Requirements and the Occupational Safety and Health Act which regulates speed; safety guards; flanges; mounting procedures; general operating rules; handling, storage and inspection; and general machine conditions.



### 1. WARNING!!!

**IMPROPER USE MAY CAUSE GRINDING WHEEL BREAKAGE AND SERIOUS INJURY.**



CAUTION: Comply with American National Standards Institute Code B7.7, Occupational Safety and Health Act and Safety Guide with Packaging.

DON'T OVERSPEED, ABUSE, OR DROP WHEEL ALWAYS USE A GUARD, PERSONAL PROTECTIVE EQUIPMENT AND PROPER MOUNTING PROCEDURES.



### 2. WARNING!!!

**AIRBORNE PARTICULATES AND FUMES GENERATED BY THE GRINDING PROCESS MAY CAUSE INJURY TO THE EYES AND SKIN AND SERIOUS RESPIRATORY ILLNESS.**



These airborne concentrations are produced by the material being ground, the coolant and the grinding wheel. Consult the MATERIAL SAFETY DATA SHEETS for each material involved in the process. Always use adequate ventilation, dust control and NIOSH and MSHA approved personal protective equipment appropriate for the grinding process involved.

#### DO:

1. DO always HANDLE AND STORE wheels in a careful manner.
2. DO VISUALLY INSPECT all wheels for possible damage before mounting.
3. DO MAKE SURE MACHINE SPEED does not exceed MAXIMUM OPERATING SPEED marked on wheel or its container.
4. DO CHECK MOUNTING FLANGES for equal size, relieved as required and correct diameter. (Should be at least 1/3 diameter of the wheel.)
5. DO USE MOUNTING BLOTTERS supplied with wheels.
6. DO be sure WORK REST is properly adjusted on bench and floor stand grinders. (Should be center of wheel or above and no more than 1/8" away from wheel.)
7. DO always USE A PROPERLY DESIGNED SAFETY GUARD covering at least on half of the grinding wheel.
8. DO allow WHEELS to run at operating speed, with guard in place, for at least one minute before grinding.
9. DO always WEAR SAFETY GLASSES or equivalent proper eye protection when grinding.
10. DO TURN OFF COOLANT before stopping wheel to avoid creating an out-of-balance condition.
11. DO make sure work is held FIRMLY in place. CLAMP work when using non-reinforced cut-off wheels.
12. DO CHECK THE SPEED OF THE GRINDER as recommended in ANSI B7.1 Safety Requirements.

#### DON'T:

1. DON'T use a wheel that HAS BEEN DROPPED or DAMAGED or appears to have been abused.
2. DON'T FORCE a wheel onto the machine OR ALTER the size of the mounting hole - if wheel won't fit the machine, get one that will.
3. DON'T ever EXCEED MAXIMUM OPERATING SPEED established for the wheel.
4. DON'T use mounting flanges on which the bearing surfaces ARE NOT CLEAN, FLAT AND FREE FROM BURRS.
5. DON'T TIGHTEN the mounting nut EXCESSIVELY.
6. DON'T grind on the SIDE OF THE WHEEL unless wheel is specifically designed for that purpose. (See the current ANSI B7.1 Safety Requirements for exceptions.)
7. DON'T start the machine until the WHEEL GUARD IS IN PLACE.
8. DON'T STAND DIRECTLY IN FRONT of a grinding wheel whenever a grinder is started.
9. DON'T grind without proper ventilation and personal protective equipment (See ANSI B7.1)
10. DON'T grind material for which the WHEEL IS NOT DESIGNED.
11. DON'T JAM work into the wheel. NEVER JAM, TWIST, BEND OR TILT a cut-off wheel when cutting.
12. DON'T GRIND with a machine that vibrates excessively.