

Pros Put Safety First!

WARNING: IMPROPERLY USED GRINDING WHEELS ARE DANGEROUS!

The following safety information should only be used as a guide. All grinding and cut-off wheels should be used in a method that complies with OSHA rules and the ANSI B7.1 Safety Code.

Do's

1. Wear protective clothing, safety glasses and a face shield when grinding and cutting. *Also be sure to use a dust mask or respirator and proper ventilation. Breathing excessive dust may be dangerous.*
2. Handle and store wheels in a careful manner and inspect them thoroughly for cracks or chips before using.
3. Ensure machine operating speed does not exceed the wheel speed.
4. Check mounting flanges for equal and correct diameter.
5. Use mounting blotters when supplied with wheels.
6. Ensure work rest is properly adjusted; center of wheel or above, no more than 1/8" away from wheel.
7. Always use a properly designed safety guard that covers at least 1/2 of the grinding or cut-off wheel.
8. Allow wheel to run at operating speed for one full minute with guard in place before using. Stand to the side while waiting.
9. Turn off coolant before stopping wheels to avoid creating an out-of-balance condition.
10. Follow common sense safety practices.

Don'ts

1. Don't use a wheel that has been dropped, cracked or chipped.
2. Don't force a wheel onto the machine or alter the size of the arbor hole. Don't use a wheel that fits the arbor too loosely. If the wheel doesn't fit the machine, get one that does.
3. Don't exceed maximum operating speed established for the wheel.
4. Don't use mounting flanges that are warped, nicked, sprung, or are not clean, flat and of unequal sizes
5. Don't tighten the mounting nut excessively.
6. Don't grind on the side of the wheel, unless the wheel is specifically designed for that purpose.
7. Don't start the machine until the safety guard is in place.
8. Don't jam work into the wheel.
9. Don't stand directly in front of a grinding wheel when grinder is started.
10. Don't grind material for which the wheel is not designed.

Think you Know? Test yourself!

- Name four types of protective gear every professional operator should use:
 -
 -
 -
 -
- It is usually okay for the wheel speed to be faster than the machine speed.
 True False
- How much of the wheel should be covered by the safety guard??
 1/3 1/2 2/3
- How many second should you let a wheel run at operating speed before you start using it?
 15 30 60
- What is the maximum recommended distance between the wheel and the work rest?
 1/16" 1/8" 1/4"
- Is it okay to use a wheel that has been dropped, cracked or chipped?
 No Yes
- If the arbor hole is too small for the machine, you should:
 - Carefully enlarge the arbor hole
 - Get a different wheel with the correct size arbor
 - Reduce the size of the arbor
 - Force the wheel onto the arbor
- When you check a wheel's mounting flanges, you're look for equal and correct::
 - diameter
 - width
 - height
- When is it okay to grind on the side (the flat surface) of a grinding wheel?
- Is it okay to start a wheel before the guard is in place?
 Yes No

ANSWERS

- Protective clothing: safety glasses; face shield; dust mask or respirator.
- TRUE - The wheel rpm is found on the wheel.
- 1/2.
- 60 seconds.
- 1/8".
- No.
- B.
- height
- width
- diameter
- When you check a wheel's mounting flanges, you're look for equal and correct::
- When is it okay to grind on the side (the flat surface) of a grinding wheel?
- Is it okay to start a wheel before the guard is in place?
 Yes No
- 15 30 60
- How many second should you let a wheel run at operating speed before you start using it?
 15 30 60
- How much of the wheel should be covered by the safety guard??
 1/3 1/2 2/3
- It is usually okay for the wheel speed to be faster than the machine speed.
 True False
- Name four types of protective gear every professional operator should use:
 -
 -
 -
 -

8) Diameter

9) Only when the wheel is

designed for that purpose.

10) No.