Deliver this insert to operator. Keep for reference. 3M[™] Flexible Grinding Wheels. Depressed Center Wheels, Cutting and Grinding Wheels



Read this insert before mounting or using product. Follow tool's instructions, employer's safety rules, ANSI B7.1 re: Depressed Center Grinding Wheels, and any other local standards. Operator must be properly trained.





WARNING Improper operation can cause serious injury or death to operators and bystanders. If a wheel breaks, fragments can fly off with deadly force. Sparks, heat, and dust generated while grinding can create fire, explosion, and respiratory hazards.

Planning and Preparation

Prepare a safe work area

Check workpiece materials Use only on Carbon Steel, Stainless Steel, Cast Iron, or Alloys of: Titanium, Copper, Zinc, Chromium/Nickel, or Aluminum to reduce the risk of wheel breaking, fire, explosion, or health hazards.

SAFETY

INFORMATION

Read the Safety Data Sheets (SDSs) for the workpiece materials.

Respiratory hazard

Exposure to dust generated from workpiece and/or abrasive materials can result in serious, permanent lung damage or other injury. To reduce this risk:

- · Use dust capture or local exhaust as appropriate.
- Wear all recommended protective equipment.

Fire and explosion hazard

Grinding produces sparks and heat. Keep away from anything that can ignite or explode. Do not allow dust to accumulate.

Do not allow bystanders



SDS

Keep bystanders out of the work area. Broken wheel fragments can be thrown a long distance, and bystanders may also be exposed to respiratory, fire, and explosion hazards. If other people must be nearby, ensure that they wear proper personal protective equipment (PPE).

Wear proper personal protective equipment

Always wear proper PPE as identified by your risk assessment to help protect against dust, grinding sparks and debris, noise, and some wheel fragments:



See www.3M.com/abrasives-safety for additional safety information and video. *See ANSI standard B7.1.

Safe Operating Procedures

Broken wheel hazard Follow these precautions to reduce the risk of injury or death from a wheel breaking.

Tool selection:

- Use only on tools designed for grinding wheels.
- Check tool RPM rating. Never use a tool that runs faster than the Max. 2. RPM of the wheel. Exceeding the wheel's Max. RPM can cause it to break apart.
- з. Use only with proper guard. The guard helps direct fragments away from you if the wheel breaks.
- 4. Use only with flanges which are clean, matching, and at least one-third the wheel diameter.

Mounting:

- Inspect the wheel. Never use damaged wheels. Replace if damaged (e.g., cracks or chips).
- Follow tool manufacturer's mounting instructions. 2.
- Never force wheel onto tool spindle or alter wheel center hole size. Do 3. not alter wheel in any way.
- 4 Use correct attachment system. Tighten nut only enough to firmly hold wheel. Ensure full 3 thread contact with spindle.



- Direct wheel away from your body and bring it up to operating speed before grinding.
- 2. If vibration or wobbling occurs, stop immediately. Determine the cause and correct before continuing. Vibration or wobbling can be caused by:
 - · Forcing a wheel onto a spindle that is too large.
 - Over-tightening the mounting nut.
 - Improperly mounted wheel.
 - A damaged center hole.
- 3. Follow good grinding practices:
 - Secure workpiece. · Keep all body parts and objects clear of
 - grinding path. Grind with product at least 30 degrees from
 - workpiece. Begin grinding by gradually engaging workpiece
 - Never bump or force wheel so that tool motor
 - slows or stalls.
 - Direct sparks away from face and body.
 - Type 28 Wheels shall not be used for cutting-off or notching operations.*

Storage: Protect wheel when not in use. Never rest tool on

wheel. Store wheels in dry environment above 32°F (0°C).



34-8719-3050-8

