

SAFETY INFORMATION

Deliver this insert to operator. Keep for reference.

3M™ Scotch-Brite™ Surface Conditioning Discs Center hole mount with or without mandrel system



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



WARNING Improper operation can cause serious injury or death to operators and bystanders. 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 disc breaking, fire, explosion, or health hazards.

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 use on flammable or explosive materials.



Do not allow bystanders

Keep bystanders out of the work area. Disc 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).

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



- full face shield



- impact resistant protective eyewear marked as ANSI Z87.1 conformant
- hearing protection
- NIOSH approved respirator



- gloves



- body and skin protection

Do not alter or modify the disc in any way.

Safe Operating Procedures

Tool selection:

1. Use only on tools designed for discs.
2. Compare the maximum operating speed (RPM) rating of the tool with the maximum RPM rating of the backup pad and disc. Make sure the machine speed does not exceed the maximum operating speed marked on the product or package (see example on this page). **Exceeding product's Max. RPM can cause it to break apart and cause serious injury.**



Mounting:

1. Inspect the mounting system and disc. Replace if damaged or worn out (e.g., cracks or chips). **Damaged or worn out mandrels, backup pads, or discs can break apart during use and cause serious injury.**
2. Mandrel-mounted discs REQUIRE side washers at least 1/4 the outer diameter of the disc.
3. Follow tool manufacturer's mounting instructions. Always use proper backup pad with discs. Select a backup pad that is compatible with, and the same size as, disc being used.
4. Never force disc onto tool spindle or alter disc center hole size. Do not alter disc in any way.
5. Use correct attachment system. Ensure the backup pad shaft is fully seated to the tool per manufacturer recommendation.



Operation:

1. Direct disc 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:
 - Worn or damaged backup pad or disc
 - Stripped threads on mandrel
3. Follow good grinding practices:
 - Secure workpiece.
 - Keep all body parts and objects clear of grinding path.
 - Begin grinding by gradually engaging workpiece.
 - Never bump or force disc so that tool motor slows or stalls.
 - Direct sparks away from face and body.
 - Product that disengages from the backup pad may cause injury. Abruptly stopping tool off work piece can cause the product to disengage from the backup pad. Do not abruptly stop the product off the workpiece.
 - Do not use discs with abnormally curled or cupped shape.

Example:

Disc Backup Pad Max. RPM = 6,000 rpm

Product Max. RPM = 5,500 rpm

In this example, do not exceed 5,500 rpm

Storage: Incorrect storage could affect safety as well as product performance. Protect disc when not in use. Never rest tool on disc. Store discs in dry environment below 150°F (65°C) and limit exposure to water and high humidity.