

# SAFETY INFORMATION

Deliver this insert to operator. Keep for reference.

NOT TRIMMABLE

## 3M™ Type 27 and 29 Flap Discs and Scotch-Brite™ Discs



**Read this insert before mounting or using product.** Follow tool's instructions, employer's safety rules, ANSI B7.7 re: "Safety Requirements for Abrading materials with Coated Abrasive Systems", 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 (SDS) 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, backup pad, and disc. Replace if damaged or worn out (e.g. cracks or chips). **Damaged or worn out backup pads or discs can break apart during use and cause serious injury.**
2. **Do NOT alter or trim the plastic/fiberglass backing of the disc in any way.**
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. Use correct attachment system. Ensure the backup pad shaft is fully seated to the tool per manufacturer recommendation.



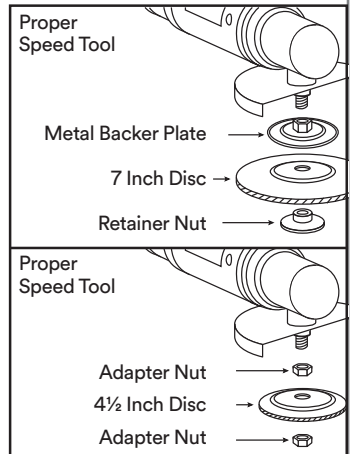
Check disc retainer nut for thread wear, snug fit and full three thread contact with grinder spindle.



#### Operation:

1. Direct disc away from your body and bring it up to operating speed before grinding.
2. Stop immediately if vibration or wobbling occurs during use. Determine cause and correct before continuing.
3. Follow good grinding practices:

- Secure workpiece.
- Keep all body parts and objects clear of grinding path.
- Begin grinding by gradually engaging workpiece.
- Do not jam the disc into sharp edges or tight places.
- 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.
- Grind depressions, moldings and lips with the grinder moving away from the workpiece.



**Storage:** Incorrect storage could affect safety as well as product performance. Protect disc when not in use. Never rest tool on disc. Store products at temperatures between 60-80°F (15-27°C) and between 35-50% relative humidity.

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