

# 3M Application Profile

**Market:** MRO

**Application Description:** Cleaning and deburring large areas with portable hand tools



4.5" bristle disc (grade 50) cleaning mill scale



4.5" bristle disc (grade 80) removing weld burn

## Key Application Requirements

- Removal of rust, corrosion, mill scale, paint, adhesive, heavy oxides and surface contaminants on all metals
- Clean and prepare surface before and after welding, removal of weld burn and discoloration
- Scuff surfaces prior to painting
- Remove burrs from cut steel and aluminum

## Products Replaced

Wire cup discs, surface conditioning discs, scrapers and chemicals.

## Advantages/Benefits To Customers

*Safe* — Easy to use. No flying wires or fibers.

*Conformable* — Very conformable. Require less manipulation for operator on parts.

*Long Life* — Long lasting quality throughout the life of product.

*Non-Loading* — Bristles do not load up from debris, rubber or plastic residues from metal surfaces.

*Cool Running* — Resists heat build-up to help reduce potential for tempering or damaging the work surface.

## PRODUCT

Scotch-Brite™ Bristle Disc,  
4 ½" diameter  
Grades 50, 80 and 120

## Accessories

No additional hardware is required. The integrated threaded cores spin quickly onto 5/8"-11 threaded shafts on electric or pneumatic right angle grinders.

## Tools

To be used with small portable tools with maximum operating speed of 10,000 rpm, such as:

- Right Angle Pneumatic Grinders (Aro, Dynabrade, Ingersoll Rand and Suhner)
- Right Angle Electric Grinders (Makita, Black & Decker, Porter Cable, Bosch and Suhner)

## Tech Tips

- Do not use excessive downward pressure on the tool, let the tool and bristle tips do the work.
- Bristle discs perform the best when slightly angled 2-4 degrees.
- Do not work bristle over sharp edges, when finishing edges on flat surface; position the tool so that the bristle run off the edge and not into the edge.
- Do not dwell on a localized area to avoid excessive heat build up.

---

## Safety Information

Always read and follow all safety information included with the product. Do not exceed maximum operating RPM's. Use guards provided with machine. Follow safety operation procedures posted in work areas.

---

## For Additional Information

To request additional product information or to arrange for sales assistance, call 1-800-362-3550. Address correspondence to: 3M Industrial Business Customer Response Center, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55106. Our fax number is 651-733-9175. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

---

## Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

## Warranty and Limited Remedy

Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective within the warranty period, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to replace the product or refund the purchase price.

---

## Limitation of Liability

Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence, or strict liability.



Industrial Business

Building 21-1W-10, 900 Bush Avenue  
St. Paul, MN 55106

Printed in U.S.A.  
MROsbhdtool.pdf  
© 3M 2004 IBD391