

A close-up photograph of a worker wearing a blue hard hat, a clear face shield, a blue long-sleeved shirt, orange leather apron, and orange and white work gloves. The worker is using a black right angle tool to grind a metal surface, creating a large spray of bright orange sparks. A name tag on the worker's apron reads "CAM CENT 3M".

**3M**

**CUBITRON™ II**

**Scotch-Brite™**

# 3M™ Abrasives for Right Angle Tools Field Guide

Featuring the new  
**ADVANCED SERIES**

Meet the

# PREMIUM SERIES

of right angle abrasives for unparalleled power and performance!

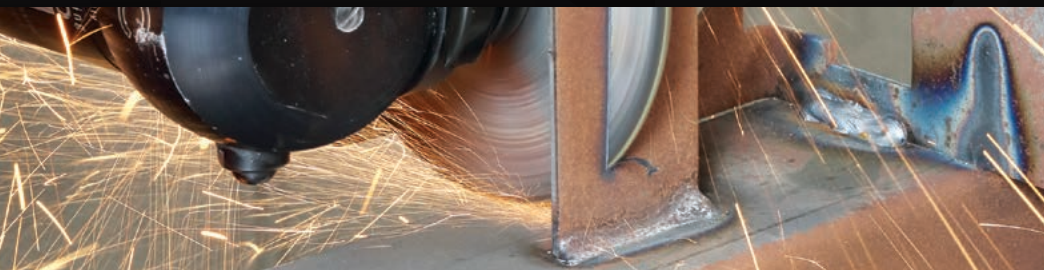


Featuring 3M™ Cubitron™ II Abrasives for an unbeatable combination of speed and long life, and Scotch-Brite™ Abrasives for ease of use and consistent quality finishes.

Introducing the

# ADVANCED SERIES

of right angle abrasives designed for value-priced performance!



The next-best thing to our Premium Series of 3M™ Cubitron™ II Abrasives, our new Advanced Series harnesses the power of 3M Precision-Shaped Grain and helps minimize your abrasive spend.

# Key Application: Beveling

Lead with:

## Depressed Center Grinding Wheels

For heavy grinding and aggressive applications when abrasive life is critical.

## Flap Discs

Not as fast as fibre discs, but more user-friendly. Delivers a finer finish, with less chance of gouging.

## Fibre Discs

The fastest way to achieve a bevel. Use 982C or 782C for carbon steel, 987C or 787C for stainless steel and other heat sensitive metals.

## PREMIUM SERIES

## TOP PERFORMANCE



**3M™ Cubitron™ II  
Depressed Center  
Grinding Wheels**



**3M™ Cubitron™ II  
Flap Discs**



**3M™ Cubitron™ II  
Fibre Discs 982C/987C**

## ADVANCED SERIES

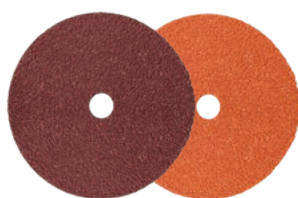
## VALUE-PRICED PERFORMANCE



**3M™ Silver  
Depressed Center  
Grinding Wheels**



**3M™ Flap Discs  
769F**



**3M™ Fibre Discs  
782C/787C**

Key Application:

# Heavy Deburring, Slag Removal

Lead with:

## Depressed Center Grinding Wheels

For heavy-duty jobs and large burrs that will shred most coated abrasive products.

## Flap Discs

When removing an occasional large burr, flap discs will handle the job, without the necessity of changing discs.

## Fibre Discs

Fastest cutting on smoother surfaces.

## PREMIUM SERIES

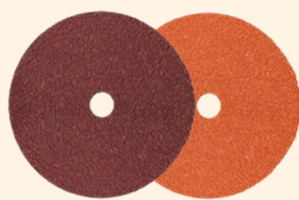
TOP PERFORMANCE



**3M™ Cubitron™ II  
Depressed Center  
Grinding Wheels**



**3M™ Cubitron™ II  
Flap Discs**



**3M™ Cubitron™ II  
Fibre Discs 982C/987C**

## ADVANCED SERIES

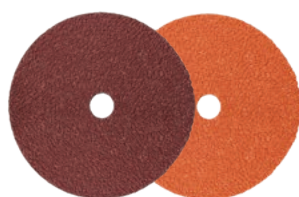
VALUE-PRICED PERFORMANCE



**3M™ Silver  
Depressed Center  
Grinding Wheels**



**3M™ Flap Discs  
769F**



**3M™ Fibre Discs  
782C/787C**



## Key Application: Weld Prep



Lead with:

### Clean & Strip Discs

Remove epoxy, protective paint, mill scale, oils, rust, oxide coatings and primers/paints to clean and prepare the surface for welding.

### Flap Discs

For more aggressive rust, paint and scale removal, or when material removal/dimensioning is necessary.

### Light Grinding & Blending Discs

For light-duty scale removal and surface prep where a finer finish is desired.

## PREMIUM SERIES

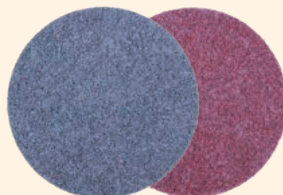
## TOP PERFORMANCE



Scotch-Brite™ Clean & Strip  
XT Pro Extra Cut Discs



3M™ Cubitron™ II  
Flap Discs



Scotch-Brite™ Light  
Grinding & Blending Discs

## ADVANCED SERIES

## VALUE-PRICED PERFORMANCE



3M™ Flap Discs  
769F

### TIP 1:

Scotch-Brite™ Light Grinding and Blending Discs achieve a high cut-rate in mild-steel applications, to effectively blend and refine a grade 36 scratch or finer.

Key Application:

# Back Gouging

Lead with:

## Cut & Grind Wheels

Fast, smooth cutting, with less chatter on back gouging and root pass grinding. Very long life.

PREMIUM SERIES

TOP PERFORMANCE



3M™ Cubitron™ II  
Cut & Grind Wheels

## FIELD GUIDE TECH TIPS

### TIP 2:

Need a fibre disc for **carbon steel**? Use 3M™ Cubitron™ II Fibre Discs 982C or 3M™ Fibre Discs 782C. For **stainless steel**, try 3M™ Cubitron™ II Fibre Discs 987C or 3M™ Fibre Discs 787C.

### TIP 3:

Flap Discs will often produce a finish equivalent to the next-finer grade of a fibre disc (i.e., a 60-grit flap disc will usually leave a finish similar to an 80-grit fibre disc) – saving you time and finishing steps!

### TIP 4:

For even longer life, grind with less pressure when using Cubitron II products.

# GENERAL GUIDELINES

## Which portfolio is best for your customer?

Choose 3M™ Cubitron™ II Abrasives for their legendary speed and long life, or Advanced Series discs and wheels for value-priced performance. Scotch-Brite™ Abrasives deliver consistent, reproducible results, making it easy to ensure quality finishes.

What's most important?	Choose this family of 3M Abrasives
Speed and long life – to improve productivity and lower <u>overall</u> production costs	<b>Premium Series – 3M™ Cubitron™ II Abrasives</b>
Consistency and ease of use – to improve surfaces without significantly changing the workpiece	<b>Premium Series – Scotch-Brite™ Abrasives</b>
Value-priced performance – to minimize abrasive spend while getting the job done efficiently	<b>Advanced Series – 3M™ Abrasives</b>

## Which right angle product is best for your customer?

These general guidelines are a good starting point. Refer to the rest of the field guide for recommended products in specific applications.

What's most important?	Choose this type of abrasive product
Speed	<b>Fibre Discs</b>
Life	<b>Depressed Center Grinding Wheels</b>
Ease of Use	<b>Flap Discs</b>

## Key Application: **Cutting**

Lead with:

### **Cut-Off Wheels**

Fast, smooth cutting with exceptional life. Slices through all metals, including stainless, mild steel and aerospace alloys.

### **Cut & Grind Wheels**

For especially heavy cutting. Designed to be used as both a DCGW and a cut-off wheel for outstanding versatility.

## **PREMIUM SERIES**

## **TOP PERFORMANCE**



**3M™ Cubitron™ II  
Cut-Off Wheels**



**3M™ Cubitron™ II  
Cut & Grind Wheels**

## **ADVANCED SERIES**

## **VALUE-PRICED PERFORMANCE**



**3M™ Silver  
Cut-Off Wheels**

### **TIP 6:**

Cut-off wheels perform better the faster they run, so having a tool able to maintain speed is crucial.

**WARNING:** Do not exceed the specified maximum RPM.



Key Application:

# Finishing/Surface Prep

Lead with:

## Light Grinding & Blending Discs

Ideal for refining grind marks and removing imperfections. Leaves a smooth, paintable finish.

## Flap Discs

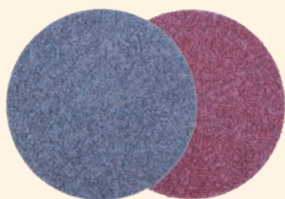
For finish/scratch refinement, deburring and paint prep applications that require a more aggressive cut.

## Clean & Strip Discs

For cleaning and polishing stainless steel welds, removing weld burn discoloration, and cleaning/prepping mild steel prior to paint.

## PREMIUM SERIES

## TOP PERFORMANCE



Scotch-Brite™ Light Grinding & Blending Discs



3M™ Cubitron™ II Flap Discs



Scotch-Brite™ Clean & Strip XT Pro Discs

## ADVANCED SERIES

## VALUE-PRICED PERFORMANCE

### TIP 5:

For highest productivity, choose 3M™ Cubitron™ II Flap Discs 967A for medium-duty or 969F for heavy-duty work. 3M™ Flap Discs 769F offer a value-priced alternative for great performance across a variety of medium- to heavy-duty applications.



3M™ Flap Discs 769F

## Key Application: **Blending**



Lead with:

### **Flap Discs**

Produce a fine finish, for blending and refining. User friendly. For an even finer finish, try Scotch-Brite™ Light Grinding & Blending Discs.

### **Light Grinding & Blending Discs**

Ideal for refining grind marks and removing imperfections. Leaves a smooth, paintable finish.

### **Fibre Discs**

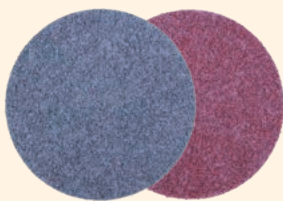
Faster cutting, but may be trickier for inexperienced operators to control. Use grades 80+ and 120+ for blending.

## **PREMIUM SERIES**

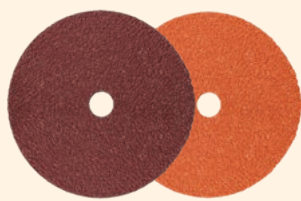
### **TOP PERFORMANCE**



**3M™ Cubitron™ II  
Flap Discs**



**Scotch-Brite™ Light  
Grinding & Blending Discs**



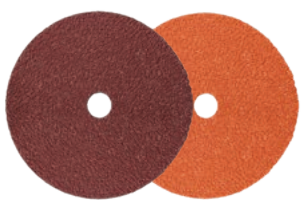
**3M™ Cubitron™ II  
Fibre Discs 82C/987C**

## **ADVANCED SERIES**

### **VALUE-PRICED PERFORMANCE**



**3M™ Flap Discs  
769F**



**3M™ Fibre Discs  
782C/787C**

## Key Application: Weld Grinding

Lead with:

### Fibre Discs

When speed is key. For longer life and/or higher-pressure applications, try Cubitron II Depressed Center Grinding Wheels.

### Flap Discs

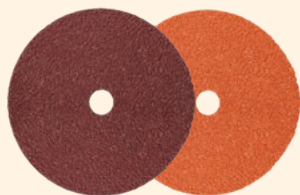
Not as fast as fibre discs, but more user-friendly. Delivers a finer finish, with less chance of gouging.

### Depressed Center Grinding Wheels

For heavy-duty weld grinding and other heavy grinding operations. Very long lasting.

## PREMIUM SERIES

## TOP PERFORMANCE



**3M™ Cubitron™ II  
Fibre Discs 982C/987C**



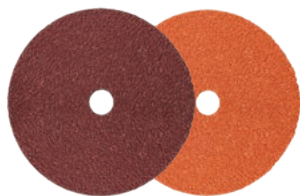
**3M™ Cubitron™ II  
Flap Discs**



**3M™ Cubitron™ II  
Depressed Center  
Grinding Wheels**

## ADVANCED SERIES

## VALUE-PRICED PERFORMANCE



**3M™ Fibre Discs  
782C/787C**



**3M™ Flap Discs  
769F**



**3M™ Silver  
Depressed Center  
Grinding Wheels**