

A close-up photograph of a worker wearing a blue hard hat, safety glasses, a clear face shield, a blue long-sleeved shirt, a brown leather apron, and brown leather work gloves. The worker is using a right angle grinder on a metal surface, which is producing a large amount of bright orange sparks. A name tag on the worker's chest 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

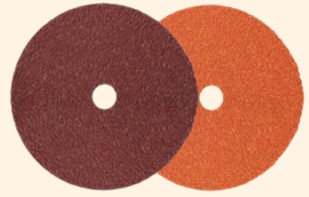
TOP PERFORMANCE



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



**3M™ Cubitron™ II
Flap Discs**



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

ADVANCED SERIES

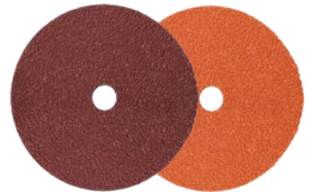
VALUE-PRICED PERFORMANCE



**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

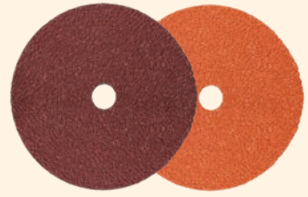
TOP PERFORMANCE



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



**3M™ Cubitron™ II
Flap Discs**



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

ADVANCED SERIES

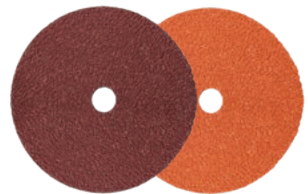
VALUE-PRICED PERFORMANCE



**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

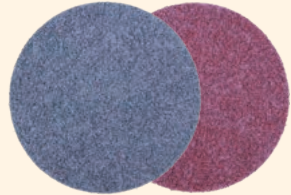
TOP PERFORMANCE



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	Premium Series – 3M™ Cubitron™ II Abrasives
Consistency and ease of use – to improve surfaces without significantly changing the workpiece	Premium Series – Scotch-Brite™ Abrasives
Value-priced performance – to minimize abrasive spend while getting the job done efficiently	Advanced Series – 3M™ Abrasives

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	Fibre Discs
Life	Depressed Center Grinding Wheels
Ease of Use	Flap Discs

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

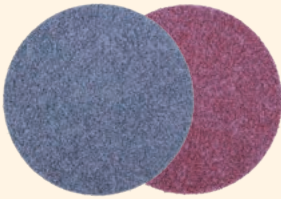
For finish/scratch refinement, deburring and paint prep applications that require a more aggressive cut.

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

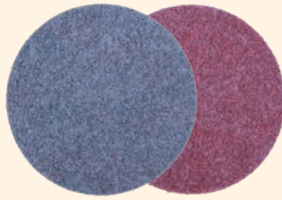
Faster cutting, but may be trickier for inexperienced operators to control. Use grades 80+ and 120+ for blending.

PREMIUM SERIES

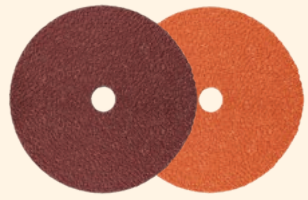
TOP PERFORMANCE



**3M™ Cubitron™ II
Flap Discs**



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



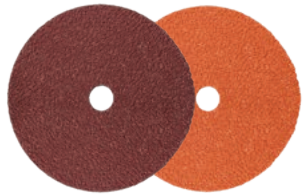
**3M™ Cubitron™ II
Fibre Discs 82C/987C**

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

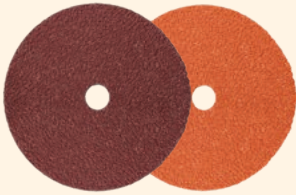
Not as fast as fibre discs, but more user-friendly. Delivers a finer finish, with less chance of gouging.

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**



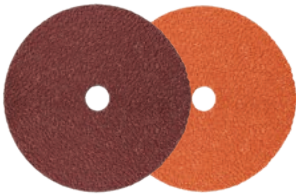
**3M™ Cubitron™ II
Flap Discs**



**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**