

3M™ Roloc™ Systems

3M™ Roloc™ Discs

3M™ Roloc™ Discs provide a fast, efficient method for grinding, blending, leveling and finishing on all types of metal. They lock securely in place with just a half twist... another half twist and they're off. Each disc is color coded by grade. (This does not include 3M™ Roloc™ TSM products.)

3M™ Roloc™ Cloth Disc Selection Guide

Product	Mineral Type	Features	Metal Type	Perform.	Grinding	Light Grinding	Blending	Deburring
984F	Precision-Shaped Grain	Durable 2-ply backing; Grinding aid; Fastest cutting	All Metals	Premium	●	●	●	●
947A	Precision-Shaped Grain	Durable 2-ply backing; Grinding aid	Stainless Steel and Aluminum	Premium	●	●	●	●
361F	Aluminum Oxide	Durable YF wt Polyester backing; General purpose grinding, light grinding, blending and deburring on all metals	All Metals	Good	●	●	●	●

3M™ Roloc™ Fibre Disc Selection Guide

Product	Mineral Type	Features	Metal Type	Perform.	Grinding	Light Grinding	Blending	Deburring
982C	Precision-Shaped Grain	Fastest cutting; Longest life	Carbon Steel	Premium	●	●		●
987C	Precision-Shaped Grain	Best in class performance; Grinding aid	Stainless Steel	Premium	●	●		●
787C	Precision-Shaped Grain	Grinding aid	Stainless Steel and Aluminum	Advanced	●	●		●
782C	Precision-Shaped Grain	Performance and value	Carbon Steel	Advanced	●	●		●

3M™ Roloc™ Discs

3M™ Roloc™ Attachment System Guide

Product ID	Attachment Type		
	TR	TSM	TS
361F	●	●	
777F	●	●	●
947A	●	●	
984F	●	●	
782C	●	●	
787C	●	●	
982C	●	●	
987C	●	●	

Diameter	Attachment Type		
	TR	TSM	TS
1"	●	●	●
1-1/2"	●	●	●
2"	●	●	●
3"	●	●	●
4"	●		●

TR (Plastic Button)	
TSM (Metal Button)	
TS (Plastic Button)	

3M™ Roloc™ Disc Button Color/Grade Chart

● 24/Black	● 80/Yellow	● 150/Black
● 36/Brown	● 100/Blue	● 180/Brown
● 50/Green	○ 120/White	● 240/Green
● 60/Orange		

Optimum Tool Speeds to Maximize 3M™ Roloc™ Disc Cut Rates and Life

Disc Size	Material			
	Stainless	Aluminum	Steel	Titanium
1-1/2"	20,000 RPM	30,000 RPM	30,000 RPM	9,000 RPM
2"	15,000 RPM	20,000 RPM	20,000 RPM	7,000 RPM
3"	10,000 RPM	15,000 RPM	15,000 RPM	4,500 RPM
4"	8,000 RPM	9,000 RPM	9,000 RPM	3,000 RPM

3M™ Cubitron™ II Roloc™ Fibre Disc 982C ■

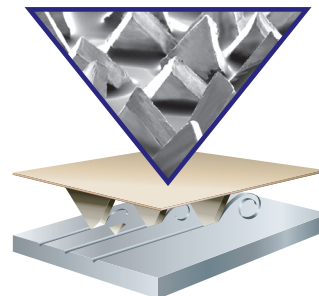
- Made with revolutionary 3M precision-shaped grain technology
- Provides long life and fast cut
- Rigid fiber backing enables fast, more aggressive cutting
- Optimized for use on carbon steel



UPC	Diameter	Grade	Min/Case
Roloc™ TR (Plastic Button) 			
051115-66778-7	2"	36+	50/200
051115-66783-1	2"	60+	50/200
051115-66788-6	2"	80+	50/200
051115-66779-4	3"	36+	50/200
051115-66784-8	3"	60+	50/200
051115-66789-3	3"	80+	50/200
051115-66780-0	4"	36+	25/100
051115-66785-5	4"	60+	25/100
051115-66790-9	4"	80+	25/100
Roloc™ TSM (Metal Button) 			
051115-66781-7	2"	36+	50/200
051115-66786-2	2"	60+	50/200
051115-66791-6	2"	80+	50/200
051115-66782-4	3"	36+	50/200
051115-66787-9	3"	60+	50/200
051115-66792-3	3"	80+	50/200
Roloc™ TS (Plastic Button) 			
051125-86755-9	4"	36+	25/100
051125-86760-3	4"	60+	25/100
051125-86761-0	4"	80+	25/100

■ Mild Steel ■ Stainless Steel

3M Precision-Shaped Grain



3M precision-shaped grain uses 3M microreplication technology to form sharp peaks that easily "slice" through metal — cutting cooler, faster and lasting longer than conventional abrasive grain.

3M
CUBITRON™ II
 Industrial Abrasives

3M™ Roloc™ Discs

3M™ Cubitron™ II Roloc™ Durable Edge Disc 984F (cont)

UPC	Diameter	Grade	Max RPM	Min/Case
Roloc™ TSM (Metal Button) 				
051141-27706-6	3"	36+	20,000	50/200
051141-27714-1	3"	60+	20,000	50/200
051141-27707-3	4"	36+	12,000	25/100
051141-27715-8	4"	60+	12,000	25/100
051141-27723-3	4"	80+	12,000	25/100

*Made-to-Order

3M™ Fibre Disc 782C ■ for Carbon Steel

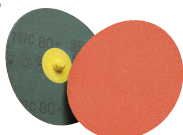
- Ideal choice for carbon steel
- Offer a faster cut and longer life than alumina zirconia (AZ) and conventional ceramic abrasives
- These discs require less grinding pressure for easier operation



UPC	Diameter	Grade	Qty/Case
Roloc™ TR (Plastic Button) 			
076308-89665-2	2"	36+	50/200
076308-89670-6	2"	60+	50/200
076308-89675-1	2"	80+	50/200
076308-89666-9	3"	36+	50/200
076308-89671-3	3"	60+	50/200
076308-89676-8	3"	80+	50/200
076308-89667-6	4"	36+	25/100
076308-89672-0	4"	60+	25/100
076308-89677-5	4"	80+	25/100
Roloc™ TS (Plastic Button) 			
076308-89685-0	4"	36+	25/100
076308-89686-7	4"	60+	25/100
076308-89687-4	4"	80+	25/100

3M™ Fibre Disc 787C ■ for stainless steel non-ferrous metals

- Optimized for stainless steel and non-ferrous metals like aluminum and titanium
- Cuts cooler, faster and lasts longer than alumina zirconia (AZ) and conventional ceramic discs in applications like weld removal, beveling, edge chamfering and more
- Made with 3M Precision-Shaped Grain, for outstanding speed and long life
- Great for grinding, weld removal, beveling and edge chamfering



UPC	Size	Grade	Qty
Roloc™ TR (Plastic Button) 			
076308-89689-8	2"	36+	50/200
076308-89694-2	2"	60+	50/200
076308-89699-7	2"	80+	50/200
076308-89704-8	2"	120+	50/200
076308-89690-4	3"	36+	50/200
076308-89695-9	3"	60+	50/200
076308-89700-0	3"	80+	50/200
076308-89705-5	3"	120+	50/200

■ Mild Steel ■ Stainless Steel

3M™ Fibre Disc 787C (cont)

UPC	Size	Grade	Qty
Roloc™ TR (Plastic Button) 			
076308-89691-1	4"	36+	25/100
076308-89696-6	4"	60+	25/100
076308-89701-7	4"	80+	25/100
076308-89706-2	4"	120+	25/100
Roloc™ TS (Plastic Button) 			
076308-89709-3	4"	36+	25/100
076308-89710-9	4"	60+	25/100
076308-89711-6	4"	80+	25/100
076308-89712-3	4"	120+	25/100

3M™ Roloc™ Disc 361F ■

- Aluminum oxide on a YF wt cloth backing
- General purpose grinding, blending and finishing on all metals



UPC	Diameter	Grade	Max RPM	Min/Case
Roloc™ TR (Plastic Button) 				
051144-11412-2	1"	36	30,000	50/500
051144-11411-5	1"	50	30,000	50/500
051144-11417-7	1"	60	30,000	50/500
051144-11416-0	1"	80	30,000	50/500
051144-11415-3	1"	P100	30,000	50/500
051144-11414-6	1"	P120	30,000	50/500
051144-11452-8†	1-1/2"	24	30,000	50/500
051144-22396-1	1-1/2"	36	30,000	50/500
051144-11137-4	1-1/2"	50	30,000	50/500
051144-22397-8	1-1/2"	60	30,000	50/500
051144-22407-4	1-1/2"	80	30,000	50/500
051144-22408-1	1-1/2"	P100	30,000	50/500
051144-22409-8	1-1/2"	P120	30,000	50/500
051144-11000-1	2"	24	25,000	50/200
051144-22398-5	2"	36	25,000	50/200
051144-22399-2	2"	50	25,000	50/200
051144-22400-5	2"	60	25,000	50/200
051144-22401-2	2"	80	25,000	50/200
051144-22402-9	2"	P100	25,000	50/200
051144-22403-6	2"	P120	25,000	50/200
051144-14559-1	2"	P150	25,000	50/200
051144-13873-9	2"	P180	25,000	50/200
051144-11419-1	2"	P240	25,000	50/200
051144-22392-3	3"	24	20,000	50/200
051144-22393-0	3"	36	20,000	50/200
051144-22394-7	3"	50	20,000	50/200
051144-22395-4	3"	60	20,000	50/200
051144-22404-3	3"	80	20,000	50/200
051144-22405-0	3"	P100	20,000	50/200
051144-22406-7	3"	P120	20,000	50/200
051144-82244-7	3"	P150	20,000	50/200
051144-11418-4	3"	P240	20,000	50/200
051144-76429-7	4"	36	12,000	25/100
051144-11421-4	4"	60	12,000	25/100
051144-11420-7	4"	80	12,000	25/100

*Made-to-Order

Chart continued on next page

Abrasive Belt Systems

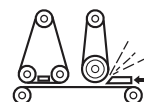
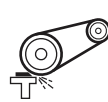
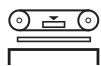
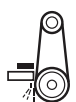
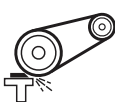
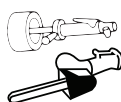
3M™ Belts

3M is the one-stop shop for all your coated abrasive metalworking belt needs! We offer a product tailored to nearly every application and performance level. To select the best product for your application, check out our easy-to-use Belt Selection Guide. Each tier of product offers best-in-class performance at various price points. Once you have selected the product, use the Availability Guide to select your grade. The following section includes our most popular belt items, but remember, other custom sizes are available.

How to Use the Coated Abrasive Belt Selection Guide

1. Find the machine type that you will run this belt on.
2. Move down to the metal type that is being worked on.
3. Select the product from the list of Recommended — Alternative — Finishing/Polishing belts.*
4. Check the Availability Guide for the grade.
5. Find the product on the following pages for available sizes.
6. If your size is not listed, contact your 3M distributor or 3M representative for ordering instructions.

3M™ Coated Abrasive Belt Selection Guide



Recommended Starting Point	Portable File Belt	Coarse Grade High Pressure Grinding	Backstand/ Off Hand Low-Med Pressure	Stroke Sander	Bench Top Belt Sander	Slack of Belt Sander	Centerless and Roll Grinding		Flat and Wide Belt Finishing	
							Dry	Wet	Dry	Wet
Carbon Steel and Cast Iron										
Recommended	784F	984F	784F	384F	784F	947A	784F	984F	784F	784F
Alternative	947A	994F	984F	784F	947A	723D	384F	784F	577F	577F
Finishing/Polishing	384F	—	947A	947A	384F	784F	347FC	363FC	384F	384F
	—	—	—	—	—	—	399F	399F	399F	399F
Stainless Steel and Cobalt Chrome										
Recommended	784F	984F	784F	784F	784F	947A	784F	984F	784F	784F
Alternative	947A	997F	984F	947A	947A	784F	384F	784F	577F	577F
Finishing/Polishing	384F	—	947A	384F	384F	—	347FC	363FC	461F	461F
	—	—	—	—	—	—	399F	399F	399F	399F
Aluminum and Soft Substrates										
Recommended	981F	984F	981F	981F	981F	947A	784F	784F	384F	384F
Alternative	784F	784F	784F	784F	784F	784F	384F	384F	361F	361F
Finishing/Polishing	384F	—	384F	384F	384F	384F	237AA	253FA	461F	461F
Titanium										
Recommended	967F	967F	967F	—	967F	947A	N/A	966F	N/A	966F
Alternative	784F	984F	784F	—	784F	784F	N/A	784F	N/A	461F
Finishing/Polishing	947A	—	461F	—	947A	—	N/A	—	N/A	—
	—	—	—	—	—	—	N/A	463FC	N/A	463FC

*Recommended is the potential best starting point based on the application. Alternative is another option based either on a different flexibility and durability need, or a possible lower initial belt cost. Value shown in belt process can be viewed as an increase in throughput, lower overall belt cost, and faster sanding or grinding time.