

3M[®]Abrasive Belts

- Our expanded lineup gives you more choices of grades, sizes and constructions
- The same world-class performance you expect from 3M
- Applications range from high pressure automated grinding to low and medium pressure offhand applications.
- Featuring 3M[™] Cubitron[™] II Belts and Trizact[™] Belts

3M[™] abrasive technologies.

The science of speed.



The precision-shaped grain found in 3M[™] Cubitron[™] II Abrasives combines the advanced material properties of our original Cubitron grain with the precise microreplicated structures pioneered in 3M[™] Trizact[™] Abrasives. As the triangular shaped grain wears, it continuously fractures to form sharp points and edges.

Conventional ceramic abrasive grain is irregular and blocky in shape. Instead of a clean, machining action, the grain tends to "plow" through the metal, causing heat to build up in the workpiece and the abrasive — resulting in a slower cut, shorter belt life and undesirable effects, such as burnishing.



ecision-shaped Grain



The science of consistent finishes.

Trizact™

Derived from patented 3M microreplication technology, 3M[™] Trizact[™] Abrasives consist of precisely-shaped three-dimensional structures distributed uniformly over the substrate. Unlike conventional abrasives, which are constructed from randomly-spaced and irregular-shaped minerals, the uniform configuration of Trizact abrasives helps deliver consistent performance.





Conventional abrasives start out sharp, but dull quickly.

The three-dimensional structures of $3M^{\text{``}}$ Trizact'' Abrasives contain multiple layers of mineral. As these structures wear, fresh, sharp mineral is constantly exposed to the workpiece, resulting in faster, more consistent cutting throughout the life of the belt.

Meet the belts.

3M[™] Cubitron[™] II Abrasive Belts



3M[™] Cubitron[™] II 984F Abrasive Belt

AKA: MVP

- Excellent in medium/high pressure stainless steel, carbon steel and cobalt chrome
- Long belt life, producing more parts per belt with fewer belt changes
- Durable polyester cloth backing
- Available in grades 36+, 50+, 60+, 80+ and 120+.



3M[™] Cubitron[™] II 784F Abrasive Belt

AKA: Mr. Versatility

- Excellent in medium pressure applications in a variety of different metals
- Strong value for medium pressure grinding and dimensioning
- Polyester waterproof backing
- Available in grades 36+ to 180+



3M[™] Cubitron[™] II 947A Abrasive Belt

AKA: Mr. Universal

- Optimized for medium/low pressure applications on stainless, mild steel and aluminum
- X-weight poly-cotton backing provides flexibility and durability
- Use in dry applications
- Available in grades 40+ to 120+



3M[™] Cubitron[™] II 723D Abrasive Belt

AKA: **Mr. Flexible**

- Strong value without sacrificing performance
- Very flexible and conformable J-weight backing
- Available in grades 100+ to 220+



3M[™] Cubitron[™] II 967F Abrasive Belt

AKA: Terminator

- Go-to product for titanium and high nickel alloys
- Grinding aid enables rough grinding on heat-sensitive alloys
- Heavy duty YF-weight cloth backing stands up to high pressure applications
- Available in grades 24+ to 80+



3M[™] Cubitron[™] II 966F Abrasive Belt

AKA: The Crusher

- Constructed of durable waterproof polyester cloth backing
- Designed for heavy wet grinding of titanium, plate and slab, and other heat sensitive alloys
- •Available in grades 20+ to 80+

3M[™] Cubitron[™] II Abrasive Belts



3M[™] Cubitron[™] II 997F Abrasive Belt

AKA: Mr. Durability

- Engineered for stainless steel and high nickel alloys
- Belt can be run wet or dry
- ZF-weight polyester cloth backing ideal for high pressure applications
- Available in grade 36+



3M[™] Cubitron[™] II 994F Abrasive Belt

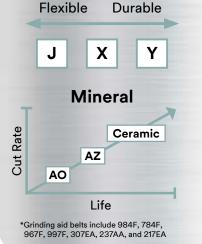
AKA: The Carbonator

- Optimal for high pressure carbon steel and cast iron applications
- Suitable for wet and dry applications
- Durable ZF-weight polyester backing
- Available in grade 36+

Tech Tip

Keep things cool – When working on heat sensitive alloys, like stainless steel, nickel alloys and cobalt alloys, choose a product with a grinding aid^{*}.

Backing



3M[™] Trizact[™] Abrasive Belts



3M[™] Trizact[™] 307EA Abrasive Belt

- Resin-bonded Aluminum oxide mineral on a JE-weight rayon backing for long lasting performance.
- Aimed at higher nickel alloys, stainless steel
- Available in grades A100 to A6



3M[™] Trizact[™] 237AA Abrasive Belt

- Robust aluminum oxide mineral on a semi-flexible X-weight backing
- Available in grades A160 to A6



3M[™] Trizact[™] 217EA Abrasive Belt

- Aluminum oxide mineral on very flexible J-weight backing.
- Used on aluminum or brass (softer alloys)
- Available in grades A100 to A6

3M[™] Agglomerate Abrasive Belts



3M[™] Cubitron[™] II 399F Abrasive Belt

AKA: The Agglomonator

- Little or no break-in period
- Extended belt life
- Fewer rejects, less rework higher productivity
- Up to 2x life against competitive engineered abrasives
- Water resistant polyester backing
- Grades 180 to 600



Newly designed 3M precision shaped agglomerate belt for deburring, centerless grinding, cylindrical grinding and flat finishing offers you unprecedented performance on a wide range of metals including carbon steel, stainless steel and other alloys - for outstanding quality, throughput and cost savings. Long lasting abrasive technology helps you achieve desired dimensions and finishes right from the start!

How cool is this?

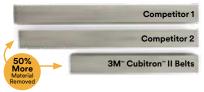
3M[™] Cubitron II[™] Belts are engineered to run cooler eliminating metal discoloration/oxidation and reducing the chances of heat-related stress cracks.



3M Cubitron" II Competitive Competitive Bet 3 984 364 Bet 1 Bet 2 Bet 3 This photo shows four identical 304 stainless steel bars after nine grading cycles of ten seconds each. While the three bars were ground using conventional ceramic abrasive betts show varying degrees of oxidation, the bar ground with a Cubitron II belt is free of burnishing.

No contest.

Cubitron II vs. Conventional Grain Competitors



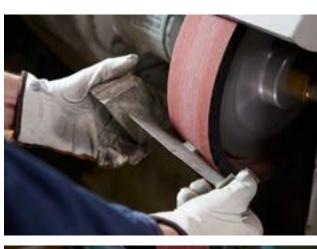
This photo shows three identical 304 stainless steel bars after nine grading cycles of ten seconds per cycle using equal pressure. In that time, the Cubitron II belt removed 50% more metal than the so-called "next generation" ceramic grain abrasive.

3M[™] General Purpose Abrasive Belt



The Workhorse

- Workhorse for general purpose metalworking applications
- Consistent performance on all metals at a great value
- Waterproof X-weight polyester backing
- Available in grades 36+ to 240+; P320-400





Stainless Steel & Cobalt Chrome

Recommended Product	Heavy Grinding	Dimensioning/ Deburring	Blending / Finishing	Polishing
984F	•	The Market	19/10	
784F		•		
947A	and the	10ph	•	
723D			•	•
Trizact				•





Industrial

Processor vessels, Mixer vessels, Silo tanks, Storage vessels

Medical

Orthopedic implants and surgical instrument manufacturing

Stainless steel home goods

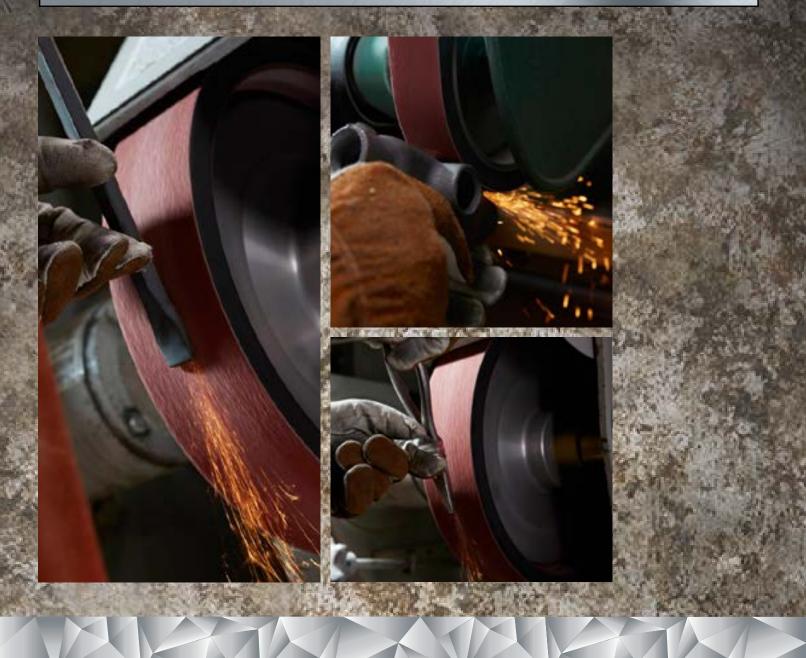
Appliances, cutlery, pots and pans, light fixtures, commercial kitchen equipment

Plumbing fixtures

Faucets, sinks

Carbon Steel & Cast Iron

Recommended Product	Heavy Grinding	Dimensioning/ Deburring	Blending / Finishing	Polishing
984F	•			
784F		•		
947A			•	
723D			•	•
Trizact				•



Castings & Forgings

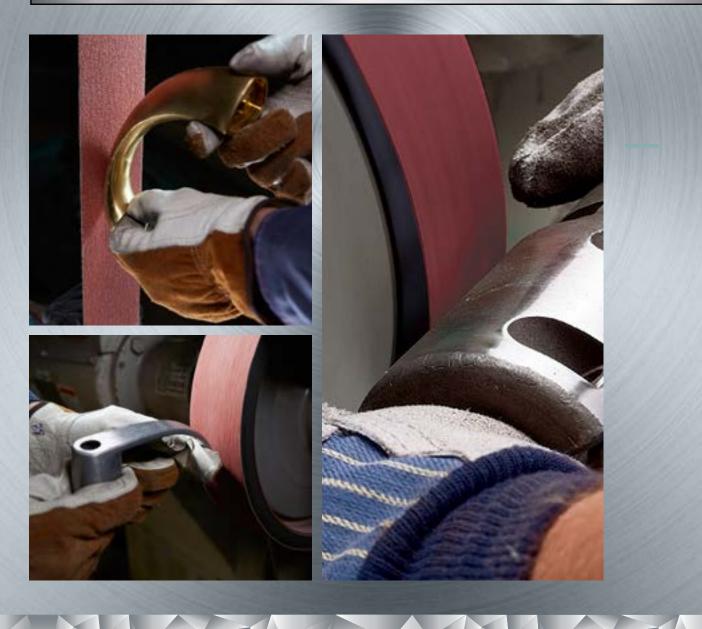
Automotive powertrain, electrical enclosures, plumbing fixtures, cast iron pans, agriculture equipment

Hand tools

Hammers, wrenches, pliers, screw drivers, chisels

Aluminum & Soft Substrates

Recommended Product	Heavy Grinding	Dimensioning/ Deburring	Blending / Finishing	Polishing
994F	•			
784F		•		
947A			•	
723D			•	•
Trizact	-			•



Foundry

Automotive powertrain, electrical enclosures, plumbing fixtures, agriculture equipment

Builder's hardware

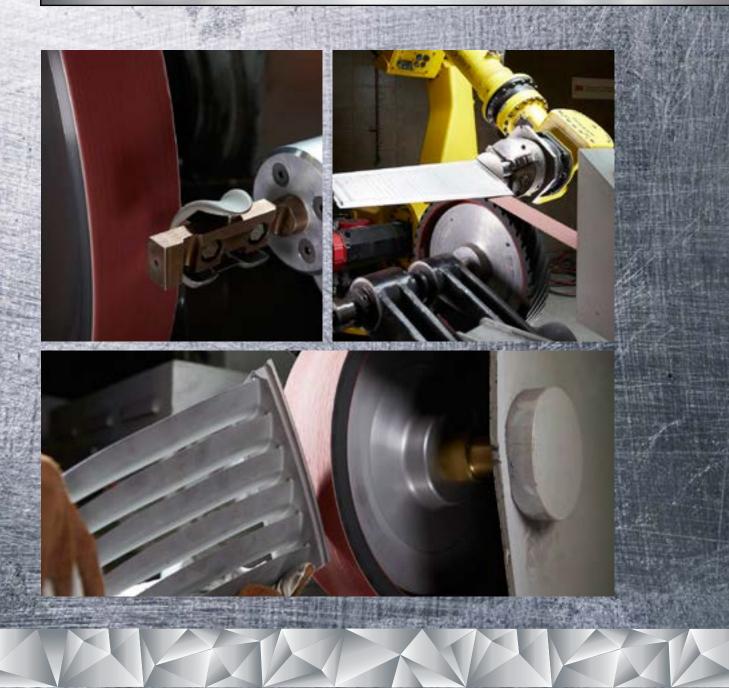
Residential and commercial door handles and knobs

Automotive

Trim, powertrain, suspension and more

Titanium & High Nickel

Recommended Product	Heavy Grinding	Dimensioning/ Deburring	Blending / Finishing	Polishing
967F	•			
784F		•		
947A			•	
723D			•	•
Trizact	-			•



Medical

Orthopedic implants and surgical instrument manufacturing

Land-based Turbine

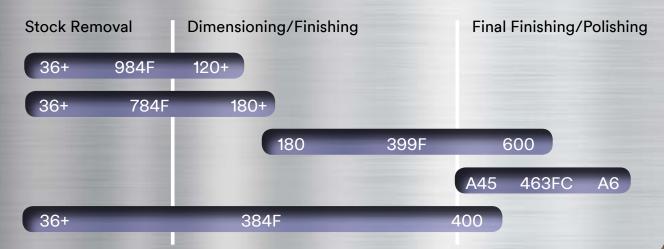
Turbine engine components

Aerospace Turbine

Turbine engine components

Centerless Grinding, Cylindrical Grinding & Flat Finishing

Grinding/Finishing Capabilities



3M[™] Cubitron[™] II 399F Abrasive Belt

3M[™] Cubitron[™] II 784F Abrasive Belt 3M[™] Cubitron[™] II 984F Abrasive Belt

3M[™] 384F Abrasive Belt 3M[™] Trizact[™] 463FC Abrasive Belt

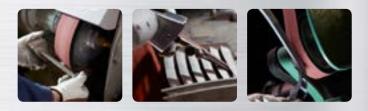
Food Industry

Oven and refrigerator door handles, various restaurant equipment, gussets and hardware Automotive Mirror brackets, grab bars, fender brackets, pick up truck bed rails, brush guards, luggage racks

> Medical Hospital bed rails, handicap railing, iv poles, surgical trays

> > and more

3M[™] 384F A/O Metalworking Belt



It's the workhorse of the shop.

Whatever low pressure applications come its way, you'll get consistent performance. Still want more? It does it all while being an excellent value, too.

- Excellent on Aluminum, Mild and Stainless Steel
- X-weight polyester backing
- Available in Grades: 36+,50+, 60+, 80+, 120+,150+, 180+, 220+, 240+, P320, & P400
- Can be used wet or dry

What the CAM Center Can Do For You

The Customer Abrasive Methods (CAM) Center is where 3M's dedicated engineering staff use their expertise to help customers solve surface modification challenges. CAM Center engineers focus on specific process requirements within a variety of key industries and areas, including:

- Metal Fabrication
- Castings and Forgings
- Woodworking
- Solid Surface Materials
- Transportation
- Cylindrical Grinding
- Flat Finishing
- CNC Grinding
- Primary Metals
- Centerless Grinding
- Microfinishing

eng

Optimize Your Finishing Processes

Want to Lower Costs? The CAM Center Can Help

Buying the lowest priced abrasives doesn't necessarily save money. When you work with 3M your company can benefit from the industry's foremost technical experts on surface modification solutions who can help reduce your overall costs.

Here's how:

- The CAM Center is a 30,000 sq. foot facility that houses over 80 grinding and finishing machines as well as portable tools for any application. The facility is dedicated to developing surface modification solutions that improve customer processes.
- CAM Center engineers can help you spec in new equipment to optimize your processes. Only the machine builders themselves may know more than the CAM engineers about abrasive machinery, and they put that knowledge to work for 3M customers.
- Methods development Bring or send your parts to the CAM Center and a CAM engineer will work with you to develop a new or improved finishing method.

By considering all variables including equipment, abrasives and operating parameters 3M's technical specialists can help you reduce process steps, reduce rework and scrap, reduce abrasive costs, improve throughput, improve quality and your overall results.

Employee Training and Development

Keeping up with the latest techniques and training takes resources that many manufacturers may not have available. 3M Abrasive's customers, however, have access to the training facilities at the CAM Center where 3M can offer customized training based on customer needs. This state-ofthe-art training facility also hosts leading industry association events where customers and noncustomers alike learn from CAM experts. Here are a few examples:

- Speeds, feeds and pressure training; factors that impact performance
- Off-hand, portable power tool grinding and finishing systems
- Automation, Woodworking and Metalworking Seminars
- Safety Seminars
- Customized training to customer requirements



Learn From Industry Leading Experts

Take Your Profits and Results to The Next Level

Issues with hard to grind materials?	WE CAN HELP.
Abrasive change outs chipping away at your profits?	WE CAN HELP.
Issues with achieving your desired finish?	WE CAN HELP.
Belt splice chatter, smearing or other process issues marring your finish?	WE CAN HELP.
Looking for automation in your grinding/finishing operations?	WE CAN HELP.
Dusty environment hampering your productivity?	WE CAN HELP.
Quality issues?	WE CAN HELP.
Need to do more with less?	WE CAN HELP.
Throughput or bottleneck issues?	WE CAN HELP.

For help with these problems and many more, work with your local 3M Representative to connect you to the CAM Center today

Or call 651-733-4643 opt. 4







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 teir 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, we can provide any size belt that you might need!

Abrasive Speed Recommendations for Off-Hand Applications

Alloy	Belt Speed (surface feet per minute)	Application Belt Grades		
Cast Iron	7,000	24-120		
Carbon Steel	6,500	24-120		
Stainless Steel	6,500-7,000	36-120		
Nickel Alloys	6,000	36-120		
Titanium	2,500-3,000	36-180		
	7,500-8,500	24-120		
Aluminum	6,500-7,000	Fine Grades		
Brass	7,000-8,000	36-180		
Rubber	4,500	36-180		
	2,500-5,000	00,400		
Glass	6,000-8,000	80-400		
Stone	7,000	36-180		

3M™ T Abrasive	
Trizact Abrasive Grade	FEPA (P-Grade)
A5	P3000
A6	P2000
A10	P1500
A16	1.00
A20	P1200
A30	30.00
A35	P600
A45	P400
11/ 2	P320
A60	1.
A65	111.12
11/10/	P240
A80	1
A90	P220
A100	1
A110	P180
A130	P150
A160	P120

3M[™] Coated Belt Availability Guide

ЗМ ID	Mineral	Backing	Grinding Aid	Use Dry/ Wet	20	24	36	40	50	60	80	100	120	150	180	220	240	320	400	600	
399F	A/O Agglomerate	YF		Dry/ Wet	P	20						1			Р	1	Р	Р	Р	Р	
384F	A/O Ceramic Blend	XF		Dry/ Wet			+		+	+	+	+	+	+	+	+	+	+	+		
461F	Silicon Carbide	XF	1920	Dry/ Wet			Р	Р	8	Р	Р	Р	Ρ	Р	Ρ	Р	Р	Р	Р	Р	
784F	alla anti-	YF/XF	Yes	Dry/ Wet			+		+	+	+		+	+	+		1	/			
723D		J	1821	Dry			1ª	K.		1		+	+	+	+	+			2		
947A		x	Yes	Dry				+		+	+		+		1		1				
966F	3M Precision	YF		Dry/ Wet	+	+	+		+	+	+		4						1		
967F	Shaped Grain	YF	Yes	Dry/ Wet	11- 1	+	+		+	+	+										
984F		YF	Yes	Dry/ Wet		64.	+		+	+	+	114/2	+				1/2				
994F		ZF	11.1.1.1.1	Dry/ Wet			+		111							14	6				
997F		ZF	Yes	Dry/ Wet			+								19/1	9			ale a		

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

	A		-	<u>⊙ ≚ (</u>			Øç	6		
Recommended Starting Point	High Pressure Hand Low-Med		Stroke Sander	Bench Top Belt Sander	Slack of Belt Sander		ess and Roll nding	Flat and Wide Belt Finishing		
Starting Foint	Den	Grinding	Pressure	essure		Sander	Dry	Wet	Dry	Wet
		Carbo	on Steel and Cast Iro	on (984F, 7	784F, 947A, 7	23D, Trizact)				
Recommended	784F	984F	784F	384F	784F	947A	784F	984F	784F	784F
Alternative	947A	994F	984F	784F	947F	723D	384F	784F	577F	577F
Finishing/	384F	-	947A	947A	384F	784F	347FC	363FC	384F	384F
Polishing		-	-	-	-	-	399F	399F	399F	399F
		Stainless Stainless	Steel and Cobalt Cl	nrome (98	4F, 784F, 94	7A, 723D, Triza	ict)			
Recommended	784F	984F	784F	784F	784F	947A	784F	984F	784F	784F
Alternative	947A	997F	984F	947A	947A	784F	384F	784F	577F	577F
Finishing/	384F		947A	384F	384F	-	347FC	363FC	461F	461F
Polishing	-	-	-	-		-	399F	399F	399F	399F
and the second se	and the second sec	Alumir	num & Soft Substrat	es (994F,	784F, 947A,	723D, Trizact)				
Recommended	947A	994F	784F	784F	784F	947A	784F	784F	384F	384F
Alternative	784F	784F	984F	947A	947A	784F	384F	384F	361F	361F
Finishing/	384F	-		384F	384F	384F	Trizact	Trizact	461F	461F
Polishing	-	-	-	_	_	-	327AA	253FA	-	-
Concession in the local division of the loca		-	Titanium (967F,	784F, 947	A, 723D, Triz	act)				
Recommended	967F	967F	461F	-	967F	947A	N/A	966F	N/A	966F
Alternative	784F	-	784F	-	784F	784F	N/A	784F	N/A	461F
Finishing/	947A	-	461F	_	947A	_	N/A	-	N/A	_
Polishing	_		-	-	-	-	N/A	Trizact	N/A	463F

'Go-To is the potential best starting point based on the application. 2nd option and other option are alternatives based either on a different flexibility and durability need, or a possible lower initial belt cost. Value shown in belt process can be viewd as an increase in throughput, lower overall belt cost, and faster sanding or grinding time.



Note:

• Applicable Substrates: stainless steel, cobalt chrome, carbon and cast iron steels

Belt Size, Grade and Quantity

384F				723D				784F				947A				
UPC	Size	Grade	Quantity	UPC	Size	Grade	Quantity	UPC	Size	Grade	Quantity	UPC	Size	Grade	Quantity	
76308-45587-3		60+		76308-45551-4	½ × 42	220+	200/600	76308-45559-0		60+		051125-94703-9		60+		
76308-45588-0	½ × 18	80+	50/200	76308-45550-7	2×72	120+	50/150	76308-45563-7	½ X 18	80+	50/200	051125-94704-6	½ × 18	80+	50/200	
76308-45586-6		120+		76308-45548-4		120+		76308-45567-5		120+		051125-94705-3		120+	1	
76308-45583-5		60+		76308-45549-1	2 × 132	150+	50/150	76308-45556-9		60+		051125-94706-0	0	60+		
76308-45584-2	3⁄4 × 18	80+	50/200	76308-45545-3		120+		76308-45565-1	½ X 24	80+	50/200	051125-94707-7	½ × 24	80+	50/200	
76308-45585-9		120+		76308-45546-0	3 × 132	150+	50/150	76308-45568-2		120+		051125-94708-4		120+		
76308-45579-8		80+		76308-45547-7	1	220+	1	76308-45555-2		60+		051125-94709-1		60+		
76308-45580-4	1×42	120+	200/600	*60-00035-6356		100+		76308-45562-0	¾ X 18 80+	50/200	051125-94710-7	³⁄₄ × 18	80+	50/200		
76308-45575-0		60+	50.450	*60-00035-5135	1	120+	1	76308-45572-9	1	120+	1	051125-94711-4		120+	1	
76308-45574-3	2 × 60	80+	50/150	*60-00035-4872	N/A	150+	Determined by size	76308-45554-5	1 X 132	50+	50/150	051125-94724-4	0	60+	05 (50	
76308-45581-1		60+		*60-00035-4898		180+	by size	76308-45570-5		60+		051125-94725-1	2 × 72	80+	25/50	
76308-45582-8	6 × 48	80+	20/60	*60-00035-4914		220+		76308-45571-2	2 X 48	80+	50/150	051125-94730-5		60+		
76308-45573-6	6×264	80+	20/60	Available in sizes 1	120+ to 20)0+		76308-45557-6	0.11.70	60+	50.450	051125-94731-2	3 × 132	80+	25	
76308-45577-4	07.00	80+	2/6	*3M ID - Custom	size made	to order		76308-45569-9	2 X 72	120+	50/150	051125-94732-9		120+	1	
76308-45576-7	- 37 × 60	120+	5/15	984F				76308-45552-1	0.1400	36+	50/150	Available in sizes	40+ to 120)+		
76308-45578-1	37 × 75	120+	5/15	UPC	Size	Grade	Quantity	76308-45561-3	2 X 132	60+	50/150	*3M ID - Custom	size made	to order		
*60-00035-4112		36+		051141-27511-6	1/2 × 18	36+	50/200	76308-45553-8		36+		966F				
*60-00035-4138	-	50+		051141-27512-3	½×24	36+	50/200	76308-45560-6	3 X 132	60+	50/150				1	
*60-00035-4146		60+		051141-27460-7	7224	36+	50	76308-45564-4		80+		UPC	Size	Grade	Quantity	
*60-00035-4153		80+		051141-55044-2	2 × 132	60+	25/50	76308-45558-3	6 V 49	60+	20/60	*60-00032-4008		20+		
*60-00035-4179		120+		051141-27461-4		36+	20/00	76308-45566-8	6 X 48	80+	20/60	00-00032-4000		20+		
*60-00035-4187	Custom	150+	Determined by size	051141-55043-5	3 × 132	60+	25	*60-00035-4732		36+	Determined by size	*60-00035-4997		24+		
*60-00035-4195	0.200	180+	57 0120	051141-55051-0	1	80+		*60-00035-4740		50+		*60-00035-5010	_	Custom		Determine
*60-00035-5168		220+		051141-27462-1	4 × 132	36+	25	*60-00035-4757		60+				sizes	36+	by size
*60-00035-4203		240+		*051141-55040-4	1/2×42	60+	200	*60-00035-4765	Custom	80+			-	50+		
*60-00035-4211		P320		*051141-				*60-00035-4773		120+] -,	*60-00035-5051		60+		
*60-00035-4229		P400		55050-3	1 × 11	80+	50/500	*60-00035-4781	1.000	150+		*60-00035-5077	1	80+		
Available in sizes	36+ to 400)+		*051141-	1×42	80+	25/200	*60-00035-4799		180+		*3M ID - Custom	size made	to order		
*3M ID - Custom	size made	to order		55060-2				Available in sizes	36+ to 180)+			-		-	
399F				*051141-55066-4	1½×132	36+	25/50	*3M ID - Custom	size made	to order		967F				
	1			*051141-55036-7	2×60	60+	25/50	Sec. 51. 1917				UPC	Size	Grade	Quantity	
UPC	Size	Grade	Quantity	*051141-27853-7	2½×60	60+	25/50	0.11.8254				*60-00035-5176	-	24+		
*60-00035-5291		P180		*051141- 55058-9	2/2~00	80+	23/30	allas a sta				*60-00035-5192		36+	-	
*60-00035-5317		P240		*051141-				11.120 00.1					Custom	-	Determine	
*60-00035-5333	Custom	P320	Determined	55059-6	6 × 48	80+	20					*60-00035-5218	sizes	50+	by size	
*60-00035-5358	sizes	P400	by size	*051141-	37×60	80+	2	Con Solling				*60-00035-5234		60+		
	-	_		55063-3				12 4/11/21				*60-00035-5481		80+		
*60-00035-5374		P600		*051141- 55062-6	37 × 75	80+	2	100 Mar 1 1				Available in sizes	24+ to 80	+		
*3M ID - Custon	n size made	to order		Available in sizes 3	1 36+ to 120)+		5-2011.0.11				*3M ID - Custom	-			

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