



CAMEL GRINDING WHEELS

Metal Fabrication & Industrial Products Catalog 2014

Includes
PASCO
Abrasives



youtube.com/CGWCamel

CLASS C COMPONENTS

6825 SUNWOOD DRIVE N.W. RAMSEY, MN 55303
PH 763-535-0400 FAX 763-535-1400



ISO 9001 Certified Company
www.classccomponents.com
Quality • Service • Versatility

PASCO

New Products for 2014



Trimmable Flap Discs - C3, Z3®, Z-PC

Page 12



CGW TV
Scan the QR code with your smart phone to visit our video channel



Premium Resin Fibre Discs

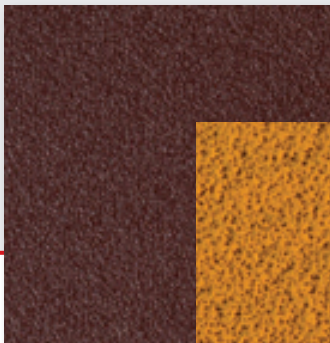
Pages 30

Heavy Duty Quick Change Surface Conditioning Discs

Pages 59



Cloth Belts Pages 81-83



PAOJ
Aluminum Oxide

Wide Belts

Pages 84-85



PCERY
Ceramic



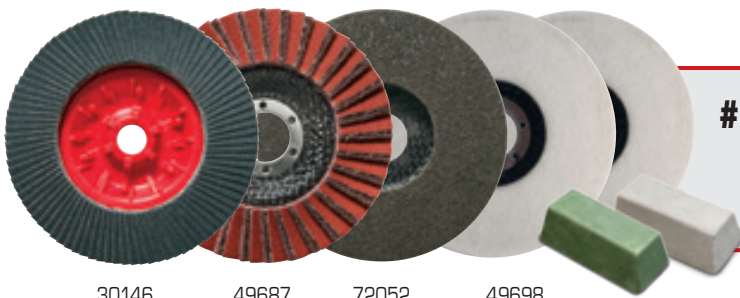
April 2013 - CGW Acquires PASCO

Specializing in Narrow & Wide Belts, PSA & Cloth Discs.
Contact CGW for further details.

PASCO Sanding Discs

Pages 38-54

*Red & Bold items are kept in stock
in Niles, IL and Buena Park, CA*



30146

49687

72052

49698

8 Mirror Finishing Kit

5 Steps in 1 Box • 7 Pieces in Total

Page 27

9 x 11 Sanding Sheets

Pages 71-73

Sheet Rolls Page 74



**NOTE: Dispenser
Not Included*



Cartridge Rolls Pages 77

Spiral Bands Page 79

Cross Pads Page 80



WHEEL SPECIFICATIONS

Analysis of Typical Wheel Specifications



**MAXIMUM
OPERATING
SPEED**

4 1/2 x 1/4 x 7/8 A 24R

WIDTH

THICKNESS

ARBOR

WHEEL SIZE

ABRASIVE

GRAIN SIZE

GRADE

CGW Resin Bond Abrasive Types

A – Dark Aluminum Oxide: The most common of all grains. This grain is used for heavy-duty general purpose work.

C – Silicon Carbide: Aggressive cutting and grinding of stone, concrete, marble, and other non-metallic materials.

WA – White Aluminum Oxide: The high friability of this grain gives it the characteristic of fast and cool cutting used for light grinding of steels of all kinds, particularly on tool and stainless steel.

ZA – Zirconia Aluminum Oxide: An improvement over basic aluminum oxide grain. Zirconia grain is sharper and easily fractures for faster cutting and longer life.



CGW Coated Abrasive Types

C3 – Ceramic: Self-sharpening ceramic grain. Grain lasts longer than zirconia for aggressive cutting action on hard-to-grind materials.



Z3® – Zirconia Alumina: Premium grain for heavy duty applications and longer working life. Contains an active grinding agent for cool cutting. Contaminant-free results; stainless steel won't rust.



A3 – Aluminum Oxide: Premium blue fired grain for quick stock removal. Contains an active grinding agent for cool cutting.

Grain Size

Coarse: 8, 10, 12, 14, 16, 20, 24

Med: 30, 36, 46, 54, 60

Fine: 80, 100, 120, 150, 180

Very Fine: 220, 240, 280, 320, 400, 600

Grade

Soft: B, D, E, F, G, H

Med: I, J, K, L, M, N, O, P

Hard: Q, R, S, T, U, V, W, X

TABLE OF CONTENTS

Analysis Of Typical Wheel Specifications **4**
 Table Of Contents **5**

Product Information **4 - 10**

Coated Products

Flap Discs **11 - 26**
New 5/8-11 Trimmable Flap Discs **12**
 Z3® & C3 Trimmable Flap Discs **13**
 C3 Ceramic Flap Discs **14 - 15**
 Z3® Premium Flap Discs **16 - 20**
 Z-Poly Cotton (PC) **22**
 Semi-Flex Discs **28 - 29**
New Premium Resin Fibre Discs **30**
 Backup Pads **37**
New PASCO Sanding Discs **38 - 54**
 Quick Change Laminated Discs -
 Roll On & Turn On **55 - 59**
 Flap Wheels **60 - 64**
 Flap Wheel Drums **65 - 68**
 Shop Rolls **70**
New 9 x 11 Sanding Sheets **71 - 73**
New Cartridge Rolls **77 - 78**
New Spiral Bands **79**
New Premium Material Belts **81 - 83**
New Wide Belts **84 - 85**
 Abrasive Belts – AO, ZA **86 - 89**

Surface Conditioning

Felt/Wool Discs - Buffing **93**
 Surface Conditioning Belts **91**
 Deburring Wheels **94**
 Type 27 Surface Preparation
 Wheels & Discs **97**
 EZ Strip Wheels **98 - 99**
 Surface Prep Hook & Loop Discs **100**
 Cotton Fiber Wheels, Discs, Mt Points **104 - 105**
 Hand Pads **106**

Resin Bonded

Quickie Cut Cut-Off Wheels **110 - 116**
 Premium Quickie Cut Wheels **110**
 Contaminant Free
 Quickie Cut Wheels **113, 115**
 Combination Wheels –
 3-in-1 and Cut/Grind **117**
 Depressed Center Wheels **118 - 122**
 1/8" Cutting/Notching **118**
 1/8" Pipeline **119**
 1/4" Grinding **120 - 121**
 Green Grind Grinding Wheels **122**
 1/8" FGF Wheels - Flex, Grind, Finish **123**
 2-5/16" Mini Grinding Wheels **126**
 High-Speed Cut-Off Wheels **126 - 127**
 Circular Saw Wheels **128**
 Stationary Saw Wheels **128 - 129**
 Chop Saw Wheels **130 - 131**
 12" – 16" High Speed Cut-Off Wheels **132 - 134**
 Resin Bonded Cups,
 Cones & Plugs, Wheels **136 - 137**
 Carbide Burs **138 - 143**
 Wire Brush **144 - 153**
 Bulk Wire Brush **154 - 155**

Vitrified Wheels

Surface Grinding Wheels **164 - 168**
 Porous Surface Grinding Wheels **167**
 Bench & Pedestal Wheels **170 - 173**
 Tool & Cutter Wheels **174 - 176**
 Mounted Points **177**
 Mattison-Thompson Wheels **180 - 182**
 Segments **183**
 Centerless & Cylindrical Wheels **184 - 190**
 Index **192 - 205**



*Products released since January 2012 are categorized as NEW.

USA MADE FLAP DISCS

USA MADE FLAP DISCS

CGW - USA Flap Disc Market Leader



CGW Offers the **Most Extensive Line** of Flap Discs in the Marketplace

CGW flap discs blend and finish in one operation which replaces the traditional two-step grinding process of T27 grinding wheels and sanding discs.

Flap discs provide a more consistent finish.

CGW flap discs reduce processing time which increases productivity for lower parts finishing costs and provides an overall cost savings.

CGW flap discs are engineered for full use of the coated abrasive material. Layering the abrasive cloth flaps allows the discs to wear evenly which constantly exposes new sharp grain.

CGW's flap disc program contains fully consumable fiberglass and rigid aluminum backings.

CGW Program Features

Bonding system: CGW uses a resin bond developed especially for flap disc applications which withstands the high temperatures that develop when a flap disc is in action - on average 16,000 SFPM (surface feet per minute). This strong bond provides for longer grain retention and leads to better stock removal and longer life.

Backing system: The water resistant polyester-cloth (C3, A3, Z-Stainless, Aluminum) or poly-cotton (Z3®, Z-PC, Z-THRU) backing provides greater strength for grain retention, low stretch, and is tougher than typical cotton cloths. CGW also offers the cotton backed Z-Flex for applications that require maximum flexibility.

Backing Plate: Fiberglass, trimmable (see pg 12).

Multiple Grains: CGW offers multiple grain options; the right grain for the work at hand.

Diameters: Available in 2" - 7"

Grits: 24 - 120

Design Type (Shape): Type 27, Type 29 and Compact (see illustrations on page 7)

4-1/2" Z3® has five disc densities: Regular, Compact, Ultimate, XL, and XXL (see page 8).

Compact and Ultimate have 20-25% more material than regular. XL and XXL have 35-80% more material than regular.

5/8-11 hub available for 4-1/2" - 7" flap discs. 4" has 3/8-24 available.

FEATURES & BENEFITS

CGW's Dual Label Same Material & Flap Configuration



Baked on label

#42342 Flap Disc with **7/8 ARBOR**



#42352 Flap Disc with **5/8-11 HUB**



CGW's Dual Label

One label with two UPC numbers. When a 5/8-11 hub is on the product, the UPC number and barcode listed on right hand side is the number of the product.

XL40 Grit - The Production Grinding Workhorse

TASK APPLICATION	RECOMMENDED FLAP DISC MATERIAL	SIZES AVAILABLE
Metal/Weld Removal	Z3 [®] / C3	4, 4-1/2, 5, 6, 7
Stainless Steel	Z-Stainless / Z3 [®] / C3	Z3 [®] - 4, 4-1/2, 5, 6, 7 Z-Stainless - 4 1/2, 5, 7
Precise Welds	Z-THRU [®]	4-1/2, 5
Aluminum	Aluminum / A3	A3 - 4, 4-1/2, 5, 7 Aluminum - 4-1/2, 5, 7
Non Ferrous Metals/Soft Metals	A3	4, 4-1/2, 5, 7

What Type (Shape) Of CGW Flap Disc To Use



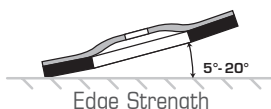
Smooth Finishing

T-27/Flat - For working on flat grinding surfaces. Most efficient when used between 0° - 15° angle. The best choice for smooth finishing.



Most Aggressive

T-29/Conical - For working on contoured and edge work. Flaps are angled at 8 degrees for greater surface contact and aggressive use. Best used at 15° - 25° angle.



Edge Strength

Hybrid/Compact - For working on rough edge work. Flaps are compressed at a 4 degree angle for flap edge strength. **All items marked compact in name use this backing plate.** Best used at 5° - 20° angle.

USA MADE FLAP DISCS

USA MADE FLAP DISCS



**CGW XXL Z3® Flap Discs
Outgrind the Competition***

**Z3® is the best
Flap Disc material
in the world!**

CGW XXL Z3® Flap Disc



Top Competitor Flap Disc
1/3 less life

* Each 40 grit flap disc was tested on carbon steel for one 5-minute cycle.

**5 Material
Configurations**

CGW 4-1/2 Z3® T27 Flap Disc Comparison

Flap Disc Type



Regular (pg 16-17) - Fast removal rate for aggressive use and heavy duty applications.



Compact (pg 19) - Hybrid compact disc design - Flaps are compressed and compacted at a 4 degree angle. **20% more material** than regular Z3® flap discs.



Ultimate (pg 18) - Z3® Ultimate flap discs have fewer flaps than Z3® XL flap discs which allows the material to further spread out **reducing heat generation** for easier break down compared to XL discs.



XL (pg 16-17) - Approximately **35-55% more material** than regular Z3® flap discs.



XXL (pg 19) - **10-20% more material** than XL flap discs. Extra wide flaps for longer working life.

Note: 40 grit discs shown

Samples Available for Testing - Contact CGW for Details

FEATURES & BENEFITS

Flap discs are used for rough grinding and finishing in one step.

- Replaces the combined work of grinding wheels and fiber discs.

**Fastest Growing
Abrasive Category**

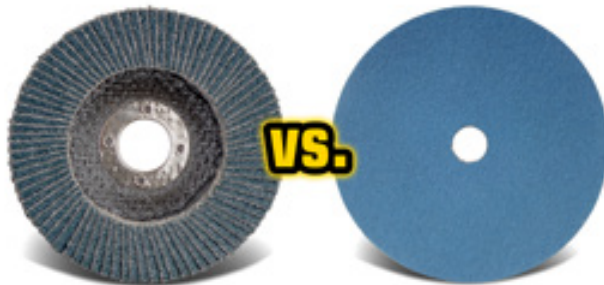
CGW Flap Discs vs. Grinding Wheels

- Faster Stock Removal - No gouging and smooth finish.
- Cooler Performance - Less glazing and loading. Less re-work.
- Consistent Finishing - Easier to control for better quality and no discoloration.
- Easier Operation - Lightweight, layered design has a cushioning effect for reduced operator fatigue and reduced noise and vibration.



CGW Flap Discs vs. Resin Fibre Discs

- **20 Times Longer Life** - Longer working life for great cost savings.
- Self-Sharpener Action - More consistent finishes.
- Easier Storage - No problems with humidity.
- No Back-Up Pad Needed - Reinforced phenolic fiberglass backing wears away with the flaps. No marring, unlike plastic or aluminum backings.



CGW Flap Discs Only vs. Grinding Wheels + Resin Fibre Discs

- Faster stock removal, less gouging, reduced operator fatigue, and longer life.
- Intermediate and finishing of welds.
- All ferrous and non-ferrous materials.
- Deburring, deflashing, rust removal and snagging.
- Surface finishing, blending *and* stock removal.
- Cleaning and finishing.



USA MADE FLAP DISCS

LABORATORY RESULTS

Flap Disc Performance Comparatives

Flap Disc Specimens

- Disc #1: CGW A3 Material 7"x7/8" 40 Grit (A/O material), Type 29, Regular Density
- Disc #2: CGW Z3® Material 7"x7/8" 40 Grit (A/Z material), Type 29, Regular Density
- Disc #3: CGW Z-Stainless Material 7"x7/8" 40 Grit (A/Z material), Type 29, Regular Density
- Disc #4: Competitor's Material 7"x7/8" 40 Grit (A/Z material), Type 29, Regular Density

Power Tool Source

Bosch GWS 20-80, 2KW, 8,500 RPM Right Angle Grinder

Test Parameters

- Engagement load of power tool: 11 lbs. vertical force
- Angle of disc contact: 10 degrees (disc automatically changes its tilt, left to right, 5 times/minute)
- Rotation and speed of material: Clockwise @ 21 RPM
- Measurement criteria: Each disc was tested for six 5-minute grinding cycles, totalling 30 minutes. After each 5-minute cycle the disc and material was weighed to determine weight loss during cycle.

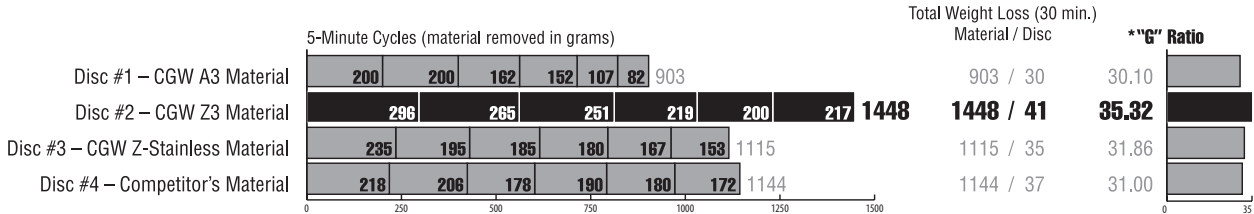
"G" Ratio

The "G" Ratio is the number of grams removed (material) per gram of abrasive cloth (disc) lost during test.

Carbon Steel Test

Test Material

1010 Carbon Steel Tubing – 5/16" wall thickness



*Note: The "G" Ratio is the number of grams (material) per gram of abrasive cloth (disc) lost during test.

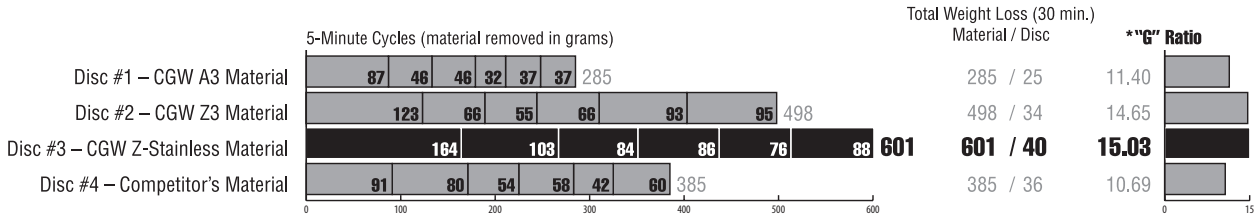
Conclusion

CGW Z3® flap discs have a 36.6% stock removal advantage and a +13.9% "G" ratio compared to competitor's material. Having a superior stock removal rate coupled with a cost of labor savings make the CGW Z3® flap disc the top choice for carbon steel applications.

Stainless Steel Test

Test Material

316 Stainless Steel Tubing – 3/16" wall thickness



*Note: The "G" Ratio is the number of grams (material) per gram of abrasive cloth (disc) lost during test.

Conclusion

CGW Z-Stainless flap discs have a significant +56.1% stock removal rate and a +40.6% "G" ratio compared to competitor's material. Utilizing a grinding aid that reduces heat and lubricates the grain during operation, the CGW Z-stainless flap disc is the superior choice for stainless steel applications.

USA MADE FLAP DISCS



USA MADE FLAP DISCS



 Scan the QR code with your smart phone to visit our video channel



Samples Available for Testing - Contact CGW for Details

TRIMMABLE FLAP DISCS

USA MADE FLAP DISCS

New **Compact C3, Z3® & Z-PC 5/8-11 Trimmable Flap Discs**
USA Made Flap Discs

- **C3 (Ceramic)** for aggressive cutting action. Self-sharpening ceramic grain and cool grinding aid. Ideal for hard-to-grind materials including steel and other heat sensitive materials.
 - 4-1/2" has 20% more material than 7/8" trimmable.
 - 5" has 10% more material than 7/8" trimmable.
- **Z3® (Zirconia)** for fast, long-lasting grinding. 20% more material than regular Z3® flap discs. Ideal for heavy-duty applications.
 - 6" Z3® is XL.
- **Z-PC** quality zirconia grain with a poly/cotton heat treated backing. The poly/cotton backing provides low stretch and strength.



30146



To trim down the backing simply grind the backing edge against a metal edge until the flaps are exposed to the level needed.

Compact C3, Z3® & Z-PC 5/8-11 Trimmable Flap Discs

SIZE	GRIT	RPM	CARTON QTY	C3 CERAMIC UPC#	Z3® ZIRCONIA UPC#	Z-PC UPC#	
						REGULAR	XL
4-1/2 x 5/8-11	40	13,300	10	30202	30142	30172	30262
4-1/2 x 5/8-11	60	13,300	10	30204	30144	30174	30264
4-1/2 x 5/8-11	80	13,300	10	30205	30145	30175	30265
4-1/2 x 5/8-11	120	13,300	10		30146	30176	30266
5 x 5/8-11	40	12,200	10	30212	30152		
5 x 5/8-11	60	12,200	10	30214	30154		
5 x 5/8-11	80	12,200	10	30215	30155		
5 x 5/8-11	120	12,200	10		30156		
6 x 5/8-11	40	10,200	10	30222	30162		XL
6 x 5/8-11	60	10,200	10	30224	30164		XL
6 x 5/8-11	80	10,200	10	30225	30165		XL
6 x 5/8-11	120	10,200	10		30166		XL

- Hybrid compact design (4-1/2", 5" and 6") - Flaps are compressed and compacted at a 4 degree angle for edge strength and longer life.



Side View



CGW TV
 Scan the QR code with your smart phone to visit our video channel



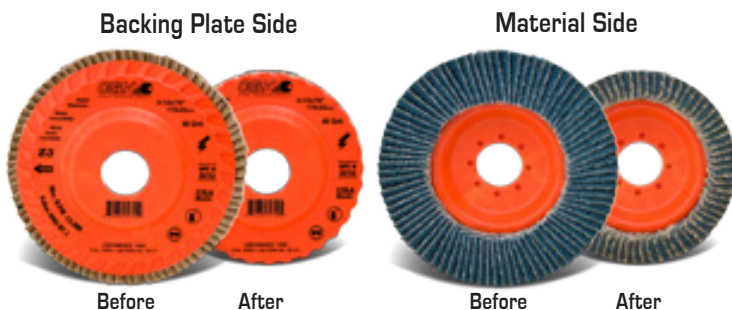
C3 & Z3[®] Trimable Flap Discs USA Made Flap Discs

- Time is Money. Trimming the backing allows for more of the disc to be used for fewer disc changes and better production rates.
- Easy Trimming. Simply angle the backing edge against a hard metal to expose more flap material.
- Easier Heavy Duty Jobs. Stiff backing construction paired with a **compact 4 degree flap angle** make grinding easier, quieter and with less vibration.
- C3 (Ceramic) for aggressive cutting action. Self-sharpening ceramic grain and cool grinding aid. Ideal for hard-to-grind materials including steel and other heat sensitive materials.
- Z3[®] (Zirconia) for fast, long-lasting grinding. 20% more material than regular Z3[®] flap discs. Ideal for heavy-duty applications.



Compact C3 & Z3[®] Trimable Flap Discs

SIZE	GRIT	RPM	CARTON QTY	C3 CERAMIC UPC#	Z3 [®] ZIRCONIA UPC#
4-1/2 x 7/8	40	13,300	10	42942	39722
4-1/2 x 7/8	60	13,300	10	42944	39724
4-1/2 x 7/8	80	13,300	10	42945	39725
4-1/2 x 7/8	120	13,300	10		39726
4-1/2 x 5/8-11	40	13,300	10	42962	39712
4-1/2 x 5/8-11	60	13,300	10	42964	39714
4-1/2 x 5/8-11	80	13,300	10	42965	39715
4-1/2 x 5/8-11	120	13,300	10		39716
5 x 7/8	40	12,200	10	42952	39742
5 x 7/8	60	12,200	10	42954	39744
5 x 7/8	80	12,200	10	42955	39745
5 x 7/8	120	12,200	10		39746
5 x 5/8-11	40	12,200	10	42972	39734
5 x 5/8-11	60	12,200	10	42974	39735
5 x 5/8-11	80	12,200	10	42975	39736
5 x 5/8-11	120	12,200	10		39737



To trim down the backing simply grind the backing edge against a metal edge until the flaps are exposed to the level needed.



CGW TV
Scan the QR code with your smart phone to visit our video channel



C3 CERAMIC FLAP DISCS

USA MADE FLAP DISCS

C3 Ceramic USA Made Flap Discs

- Self-sharpening ceramic grain and cool grinding aid for fast, aggressive cutting action on hard-to-grind materials.
- Ceramic flap discs are designed to last longer than zirconia flap discs.
- Polyester backing material for longer working life.
- Ceramic grain provides Contaminant-Free results; stainless steel won't rust.
- Hybrid Compact design (4-1/2" and 5") - Flaps are compressed and compacted at a 4 degree for edge strength.
- For steel and stainless and other heat sensitive materials.



42402

Flap Disc with Arbor



Aggressive Cutting



Side View

CERAMIC



C3 Ceramic Compact

SIZE	GRIT	RPM	CARTON QTY	COMPACT REGULAR UPC#	COMPACT XL UPC#
4-1/2 x 7/8	36	13,300	10	42401	42441
4-1/2 x 7/8	40	13,300	10	42402	42442
4-1/2 x 7/8	60	13,300	10	42404	42444
4-1/2 x 7/8	80	13,300	10	42405	42445
4-1/2 x 5/8-11	36	13,300	10	42411	42451
4-1/2 x 5/8-11	40	13,300	10	42412	42452
4-1/2 x 5/8-11	60	13,300	10	42414	42454
4-1/2 x 5/8-11	80	13,300	10	42415	42455
5 x 7/8	36	12,200	10	42601	42641
5 x 7/8	40	12,200	10	42602	42642
5 x 7/8	60	12,200	10	42604	42644
5 x 7/8	80	12,200	10	42605	42645
5 x 5/8-11	36	12,200	10	42611	42651
5 x 5/8-11	40	12,200	10	42612	42652
5 x 5/8-11	60	12,200	10	42614	42654
5 x 5/8-11	80	12,200	10	42615	42655

XL Requires high output angle grinders for best results.



42455

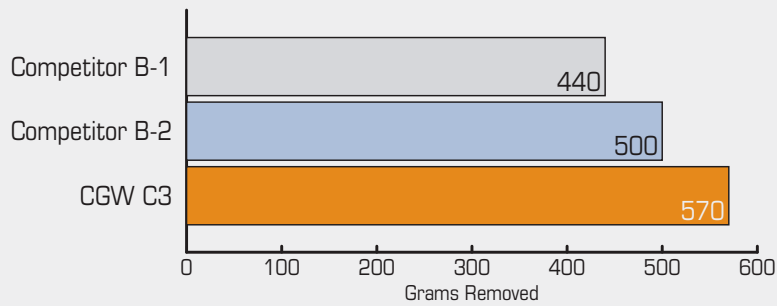
Flap Disc with Hub

Side View

C3 Ceramic

SIZE	GRIT	RPM	CARTON QTY	REGULAR T27 UPC#	REGULAR T29 UPC#
7 x 7/8	36	8,600	10	42801	42821
7 x 7/8	40	8,600	10	42802	42822
7 x 7/8	60	8,600	10	42804	42824
7 x 7/8	80	8,600	10	42805	42825
7 x 5/8-11	36	8,600	10	42811	42831
7 x 5/8-11	40	8,600	10	42812	42832
7 x 5/8-11	60	8,600	10	42814	42834
7 x 5/8-11	80	8,600	10	42815	42835

C3 Ceramic Flap Discs - Top in Removal



*Based off 3rd party testing over a 30 minute time period. Competitor B-1 scratched the material.



42812
Flap Disc with Hub



Work Side



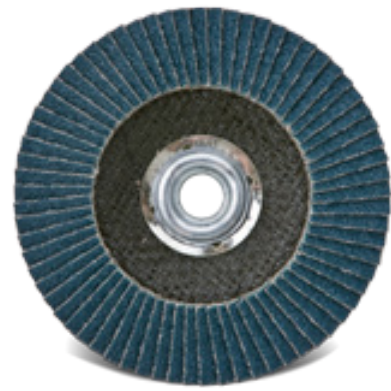
Side View

PREMIUM Z3® FLAP DISCS

USA MADE FLAP DISCS

Premium Z3® USA Made Flap Discs

- Fastest grain removal in the marketplace for carbon based steels (**26% more than the competition**) and second best after CGW Z-Stainless discs on stainless steels, while offering excellent life.
- Recommended for aggressive use and heavy duty applications.
- Active grinding agent provides cool cutting with light pressure.
- Special optimized resin bond offers maximum cutting capacity, strong edge stability and long life.
- Premium Zirconia Alumina grain with a poly/cotton heat treated backing. The poly/cotton combination provides low stretch and strength for the high Zirconia concentration that Z3 contains.



#1 PERFORMER ON CARBON
#2 PERFORMER ON STAINLESS

ZIRCONIA



Regular



XL

Premium Z3®



SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
4 x 5/8	24	15,300	10	42101	42120	NA	NA
4 x 5/8	36	15,300	10	42102	42121	SM	42161
4 x 5/8	40	15,300	10	42103	42122	42142	42162
4 x 5/8	60	15,300	10	42104	42124	42144	42164
4 x 5/8	80	15,300	10	42105	42125	42145	42165
4 x 5/8	120	15,300	10	42106	42126	42146	SM
4 x 3/8-24	36	15,300	10	42111	42131	SM	SM
4 x 3/8-24	40	15,300	10	42112	42132	42152	SM
4 x 3/8-24	60	15,300	10	42114	42134	42154	SM
4 x 3/8-24	80	15,300	10	42115	42135	42155	SM
4 x 3/8-24	120	15,300	10	42116	SM	42156	SM
4-1/2 x 7/8	24	13,300	10	42300	42320	SM	SM
4-1/2 x 7/8	36	13,300	10	42301	42321	42341	42361
4-1/2 x 7/8	40	13,300	10	42302	42322	42342	42362
4-1/2 x 7/8	60	13,300	10	42304	42324	42344	42364
4-1/2 x 7/8	80	13,300	10	42305	42325	42345	42365
4-1/2 x 7/8	120	13,300	10	42306	42326	42346	42366
4-1/2 x 5/8-11	24	13,300	10	42310	42330	SM	SM
4-1/2 x 5/8-11	36	13,300	10	42311	42331	42351	42371
4-1/2 x 5/8-11	40	13,300	10	42312	42332	42352	42372
4-1/2 x 5/8-11	60	13,300	10	42314	42334	42354	42374
4-1/2 x 5/8-11	80	13,300	10	42315	42335	42355	42375
4-1/2 x 5/8-11	120	13,300	10	42316	42336	42356	42376

SM: Size/specification available as special make wheel.
200 piece minimum order.

XL Requires high output angle grinders for best results.

Z3® - #1 SELLING MATERIAL

Premium Z3® (cont.)



SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
5 x 7/8	24	12,200	10	42500	42520	NA	NA
5 x 7/8	36	12,200	10	42501	42521	42541	42561
5 x 7/8	40	12,200	10	42502	42522	42542	42562
5 x 7/8	60	12,200	10	42504	42524	42544	42564
5 x 7/8	80	12,200	10	42505	42525	42545	42565
5 x 7/8	120	12,200	10	42506	42526	SM	42566
5 x 5/8-11	24	12,200	10	42510	SM	NA	NA
5 x 5/8-11	36	12,200	10	42511	42531	42551	42571
5 x 5/8-11	40	12,200	10	42512	42532	42552	42572
5 x 5/8-11	60	12,200	10	42514	42534	42554	42574
5 x 5/8-11	80	12,200	10	42515	42535	42555	42575
5 x 5/8-11	120	12,200	10	42516	SM	SM	SM
6 x 7/8	36	10,200	10	53001	53021	53041	53061
6 x 7/8	40	10,200	10	53002	53022	53042	53062
6 x 7/8	60	10,200	10	53004	53024	53044	53064
6 x 7/8	80	10,200	10	53005	53025	53045	53065
6 x 7/8	120	10,200	10	53006	53026	53046	53066
6 x 5/8-11	36	10,200	10	53011	53031	53051	53071
6 x 5/8-11	40	10,200	10	53012	53032	53052	53072
6 x 5/8-11	60	10,200	10	53014	53034	53054	53074
6 x 5/8-11	80	10,200	10	53015	53035	53055	53075
6 x 5/8-11	120	10,200	10	53016	53036	53056	53076
7 x 7/8	24	8,600	10	42700	42720	NA	NA
7 x 7/8	36	8,600	10	42701	42721	SM	SM
7 x 7/8	40	8,600	10	42702	42722	42742	42762
7 x 7/8	60	8,600	10	42704	42724	42744	42764
7 x 7/8	80	8,600	10	42705	42725	42745	42765
7 x 7/8	120	8,600	10	42706	42726	NA	NA
7 x 5/8-11	24	8,600	10	42710	42730	NA	NA
7 x 5/8-11	36	8,600	10	42711	42731	SM	SM
7 x 5/8-11	40	8,600	10	42712	42732	42752	42772
7 x 5/8-11	60	8,600	10	42714	42734	42754	42774
7 x 5/8-11	80	8,600	10	42715	42735	42755	42775
7 x 5/8-11	120	8,600	10	42716	42736	SM	SM

New

New

SM: Size/specification available as special make wheel.
200 piece minimum order.

XL Requires high output angle grinders
for best results.



USA MADE FLAP DISCS

Z3[®] ULTIMATE FLAP DISCS

USA MADE FLAP DISCS

Z3[®] Ultimate USA Made Flap Discs

- Z3[®] Ultimate flap discs have fewer flaps than Z3[®] XL flap discs which allows the material to further spread out reducing heat generation for easier break down compared to XL discs.
- Alumina grain with a poly/cotton heat treated backing. The poly/cotton combination provides low stretch and strength for the high Zirconia concentration that Z3[®] contains.
- Note: Z3[®] Ultimate discs are stocked only in 4-1/2" diameter. 5" available with a 300 piece minimum order quantity.



**Selling
Flap Disc
Material**



Z3[®] Ultimate XTRA Material

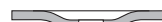
- 36 and 40 grit Z3[®] Ultimate flap discs offer 30% more material than regular Z3[®] flap discs.



Side View



XTRA Material



SIZE	GRIT	RPM	CARTON QTY	T27 UPC#	T29 UPC#
4-1/2 x 7/8	36	13,300	10	54001	54021
4-1/2 x 7/8	40	13,300	10	54002	54022
4-1/2 x 5/8-11	36	13,300	10	54011	54031
4-1/2 x 5/8-11	40	13,300	10	54012	54032

Z3[®] Ultimate WIDER & XTRA Material

- 60 and 80 grit Z3[®] Ultimate Flap Discs
 - Extra wide material width - 30% more material than regular Z3[®] flap discs
 - Unique flap design structure - cushion-like impact for more controlled stock removal and better finishing results.
 - We recommend 80 grit ultimate for best finishing applications.



Side View



WIDER & XTRA Material



SIZE	GRIT	RPM	CARTON QTY	COMPACT T27 UPC#	COMPACT T29 UPC#
4-1/2 x 7/8	60	13,300	10	54004	54024
4-1/2 x 7/8	80	13,300	10	54005	54025
4-1/2 x 5/8-11	60	13,300	10	54014	54034
4-1/2 x 5/8-11	80	13,300	10	54015	54035
5 x 7/8	60	12,200	10	SM	
5 x 7/8	80	12,200	10	SM	

*Items in gray are discontinued and only available while supplies last.

Z3[®] COMPACT & DOUBLE XXL

Z3[®] Compact USA Made Flap Discs

- Hybrid compact disc design - Flaps are compressed and compacted at a 4 degree angle for **more edge strength during rough grinding and edge work.**
- 20% more material than regular Z3[®] flap discs.



Side View



ZIRCONIA



Z3[®] Compact Flap Discs

SIZE	GRIT	RPM	CARTON QTY	COMPACT UPC#
4-1/2 x 7/8	40	13,300	10	36310
4-1/2 x 7/8	60	13,300	10	36311
4-1/2 x 7/8	80	13,300	10	36312
4-1/2 x 5/8-11	40	13,300	10	36313
4-1/2 x 5/8-11	60	13,300	10	36314
4-1/2 x 5/8-11	80	13,300	10	36315

Z3[®] Double/XXL USA Made Flap Discs

- 20% more material than XL flap discs.
- Designed for easy working on angled surfaces.
- Extra wide flaps for longer working life.



Side View



ZIRCONIA



Z3[®] Double XXL

SIZE	GRIT	RPM	CARTON QTY	T27 UPC#	T29 UPC#
4-1/2 x 7/8	40	13,300	10	36316	36322
4-1/2 x 7/8	60	13,300	10	36317	36323
4-1/2 x 7/8	80	13,300	10	36318	36324
4-1/2 x 5/8-11	40	13,300	10	36319	36325
4-1/2 x 5/8-11	60	13,300	10	36320	36326
4-1/2 x 5/8-11	80	13,300	10	36321	36327
5 x 7/8	40	12,200	10	SM	36348
5 x 7/8	60	12,200	10	SM	36349
5 x 7/8	80	12,200	10	SM	36350

SM: Size/specification available as special make wheel.
200 piece minimum order.

XL Requires high output angle grinders for best results.

USA MADE FLAP DISCS

Z3® MINI PREMIUM

USA MADE FLAP DISCS

Z3® 2"-3" Mini Flap Discs

- Premium Zirconia alumina grain with a poly/cotton heat-treated backing. The poly/cotton combination provides low stretch and strength for long working life.
- Active grinding agent provides cool cutting with only light pressure.
- Contaminant-Free. Contains ≤0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results. Stainless steel won't rust.
- Z3® mini flap discs are designed to prevent walking, allow access to tight areas and reduce heat build-up.
- Roll-On and Turn-On attachment styles for quick disc changes.



ZIRCONIA



Replaces Quick Change Discs



A-Roll-On



B-Turn-On

Z3® 2"-3" Mini Flap Discs

SIZE	TYPE	GRIT	RPM	CARTON QTY	TYPE R UPC#	USE HOLDER	TYPE S UPC#	USE HOLDER
2"	T27	36	24,000	10	30001	59732	N/A	N/A
2"	T27	40	24,000	10	30002	59732	30022	59738
2"	T27	60	24,000	10	30004	59732	30024	59738
2"	T27	80	24,000	10	30005	59732	30025	59738
2"	T27	120	24,000	10	30006	59732	30026	59738
3"	T27	36	24,000	10	30011	59734	N/A	N/A
3"	T27	40	24,000	10	30012	59734	30032	59735
3"	T27	60	24,000	10	30014	59734	30034	59735
3"	T27	80	24,000	10	30015	59734	30035	59735
3"	T27	120	24,000	10	30016	59734	30036	59735

Rubber Holder Pads Roll On/Turn On

- Medium grade reinforced rubber pad holder.



Roll-On Rubber Holder Pads

UPC#	SIZE/SPEC	CARTON QTY
59732	For 2" discs #30001-30006	5
59734	For 3" discs #30011-30016	5

Turn-On Rubber Holder Pads

UPC#	SIZE/SPEC	CARTON QTY
59738	M10 For 2" discs #30022-30026	5
59735	For 3" discs #30032-30036	5

Z-THRU® FLAP DISCS

Z-THRU® - See Thru Zone

- Patented unique shaped flaps are laser cut and layered to create a see-thru grinding zone – see directly to the workpiece!
- The wide and open flap design provides fast cutting action and complete control.
- Premium zirconia alumina grain, quality cooling agent and poly/cotton heat-treated backing for long working life.
- Ideal for blending, finishing and rust removal.
- For carbon and stainless steels.



ZIRCONIA



Z-THRU® Flap Discs

SIZE	GRIT	RPM	CARTON QTY	T27 UPC#
4-1/2 x 7/8	40	13,300	10	36328
4-1/2 x 7/8	60	13,300	10	36329
4-1/2 x 7/8	80	13,300	10	36330
4-1/2 x 5/8-11	40	13,300	10	36331
4-1/2 x 5/8-11	60	13,300	10	36332
4-1/2 x 5/8-11	80	13,300	10	36333
5 x 7/8	40	12,200	10	36334
5 x 7/8	60	12,200	10	36335
5 x 7/8	80	12,200	10	36336
5 x 5/8-11	40	12,200	10	36337
5 x 5/8-11	60	12,200	10	36338
5 x 5/8-11	80	12,200	10	36339

CGW TV

Scan the QR code with your smart phone to visit our video channel



**See The Work
Right Through
The Disc**

USA MADE FLAP DISCS

Z-POLY COTTON

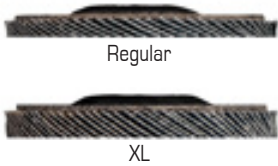
Z-Poly Cotton (PC) USA Made Flap Discs

- Quality zirconia grain with a poly/cotton heat treated backing. The poly/cotton backing provides low stretch and strength.
- For steel and stainless steel.



41706

Fastest Growing Material



ZIRCONIA



Z-Poly Cotton



SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
4-1/2 x 7/8	36	13,300	10	41701	41721	41741	41761
4-1/2 x 7/8	40	13,300	10	41702	41722	41742	41762
4-1/2 x 7/8	60	13,300	10	41704	41724	41744	41764
4-1/2 x 7/8	80	13,300	10	41705	41725	41745	41765
4-1/2 x 7/8	120	13,300	10	41706	41726	41746	41766
4-1/2 x 5/8-11	36	13,300	10	41711	41731	41751	41771
4-1/2 x 5/8-11	40	13,300	10	41712	41732	41752	41772
4-1/2 x 5/8-11	60	13,300	10	41714	41734	41754	41774
4-1/2 x 5/8-11	80	13,300	10	41715	41735	41755	41775
4-1/2 x 5/8-11	120	13,300	10	41716	41736	41756	41776
5 x 7/8	40	12,200	10	SM	41802	SM	41842
5 x 7/8	60	12,200	10	SM	41804	SM	41844
5 x 7/8	80	12,200	10	SM	41805	SM	41845
5 x 7/8	120	12,200	10	SM	41806	SM	41846
5 x 5/8-11	40	12,200	10	SM	41812	SM	41852
5 x 5/8-11	60	12,200	10	SM	41814	SM	41854
5 x 5/8-11	80	12,200	10	SM	41815	SM	41855
5 x 5/8-11	120	12,200	10	SM	41816	SM	41856
7 x 7/8	36	8,600	10	41941	41961	SM	SM
7 x 7/8	40	8,600	10	41942	41962	41982	42002
7 x 7/8	60	8,600	10	41944	41964	SM	SM
7 x 7/8	80	8,600	10	41945	41965	SM	SM
7 x 5/8-11	36	8,600	10	41951	41971	SM	SM
7 x 5/8-11	40	8,600	10	41952	41972	41992	42012
7 x 5/8-11	60	8,600	10	41954	41974	SM	SM
7 x 5/8-11	80	8,600	10	41955	41975	SM	SM

SM: Size/specification available as special make wheel.
200 piece minimum order.

XL Requires high output angle grinders for best results.

#1

ON STAINLESS STEEL

Premium Z-Stainless USA Made Flap Discs

- Quickest stainless steel material removal rate on the market - *a 56% advantage over competitor's grains*. Plus good carbon based steel material removal for versatile working.
- Premium blend of Zirconia and Aluminum Oxide grains with a heat treated polyester backing and active grinding aid. Polyester backing is tough and has minimal stretch.
- Additional layer containing a resin grinding aid and active grinding agents lubricates the grains for break down with light pressure.
- Designed for heat sensitive applications and all but eliminates heat generation.
- Pigment added to to grain to maintain blue coloring.



#1 PERFORMER ON STAINLESS
#2 PERFORMER ON CARBON

ZIRCONIA AO
w/GRINDING AID



Premium Z-Stainless



SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
4-1/2 x 7/8	36	13,300	10	31011	31051	31091	31131
4-1/2 x 7/8	40	13,300	10	31012	31052	31092	31132
4-1/2 x 7/8	60	13,300	10	31014	31054	31094	31134
4-1/2 x 7/8	80	13,300	10	31015	31055	31095	31135
4-1/2 x 5/8-11	36	13,300	10	31171	31201	31231	31261
4-1/2 x 5/8-11	40	13,300	10	31172	31202	31232	31262
4-1/2 x 5/8-11	60	13,300	10	31174	31204	31234	31264
4-1/2 x 5/8-11	80	13,300	10	31175	31205	31235	31265
5 x 7/8	40	12,200	10	31022	31062	31102	31142
5 x 7/8	60	12,200	10	31024	31064	31104	31144
5 x 7/8	80	12,200	10	31025	31065	31105	31145
7 x 7/8	40	8,600	10	31032	31072	31112	SM
7 x 7/8	60	8,600	10	31034	31074	31114	SM
7 x 7/8	80	8,600	10	31035	31075	31115	SM
7 x 5/8-11	40	8,600	10	31182	31212	31242	SM
7 x 5/8-11	60	8,600	10	31184	31214	31244	SM
7 x 5/8-11	80	8,600	10	31185	31215	31245	SM

SM: Size/specification available as special make wheel.
200 piece minimum order.

XL Requires high output angle
grinders for best results.



PREMIUM A3

Premium A3 USA Made Flap Discs

- Premium Blue Fired AO grain with a Polyester heat treated backing. Recommended for universal use and provides rapid stock removal and extremely long life.
- Active grinding agent provides cool cutting.
- A3 can be used on ferrous metals (alloyed and unalloyed steels, high speed steel, cast iron), stainless steel, non-ferrous metals (aluminum, brass, copper, zinc) as well as on composites, plastics, and soft and hard woods.



ALUMINUM OXIDE



Premium A3



SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR		Thickness XL	
				T27 UPC#	T29 UPC#	T27 UPC#	T29 UPC#
4 x 5/8	40	15,300	10	39202	SM	39242	SM
4 x 5/8	60	15,300	10	39204	SM	39244	SM
4 x 5/8	80	15,300	10	39205	SM	39245	SM
4 x 3/8-24	40	15,300	10	39212	SM	39252	SM
4 x 3/8-24	60	15,300	10	39214	SM	39254	SM
4 x 3/8-24	80	15,300	10	39215	SM	39255	SM
4-1/2 x 7/8	24	13,300	10	39400	39420	NA	NA
4-1/2 x 7/8	36	13,300	10	39401	39421	SM	SM
4-1/2 x 7/8	40	13,300	10	39402	39422	39442	39462
4-1/2 x 7/8	60	13,300	10	39404	39424	39444	39464
New 4-1/2 x 7/8	80	13,300	10	39405	39425	39445	39465
4-1/2 x 7/8	100	13,300	10	39407	NA	NA	NA
4-1/2 x 7/8	120	13,300	10	39406	39426	39446	39466
4-1/2 x 5/8-11	24	13,300	10	39410	39430	NA	NA
4-1/2 x 5/8-11	36	13,300	10	39411	39431	SM	SM
4-1/2 x 5/8-11	40	13,300	10	39412	39432	39452	39472
4-1/2 x 5/8-11	60	13,300	10	39414	39434	39454	39474
New 4-1/2 x 5/8-11	80	13,300	10	39415	39435	39455	39475
4-1/2 x 5/8-11	100	13,300	10	39417	NA	NA	NA
4-1/2 x 5/8-11	120	13,300	10	39416	SM	39456	SM
5 x 7/8	40	12,200	10	SM	39602	SM	SM
5 x 7/8	60	12,200	10	SM	39604	SM	SM
5 x 7/8	80	12,200	10	SM	39605	SM	SM
7 x 7/8	40	8,600	10	39802	SM	39822	SM
7 x 7/8	60	8,600	10	39804	SM	39824	SM
7 x 7/8	80	8,600	10	39805	SM	39825	SM
7 x 5/8-11	40	8,600	10	39812	SM	39832	SM
7 x 5/8-11	60	8,600	10	39814	SM	39834	SM
7 x 5/8-11	80	8,600	10	39815	SM	39835	SM

SM: Size/specification available as special make wheel.
200 piece minimum order.

XL Requires high output angle grinders for best results.

ALUMINUM & SC ULTIMATE

Aluminum

- Premium Blue fired AO grain with a polyester heat treated backing.
- A3 Material with Calcium Stearate coating liquefies under heat keeping the material cooler and preventing loading with soft materials.
- Use on soft metals such as aluminum and blending stainless steel.



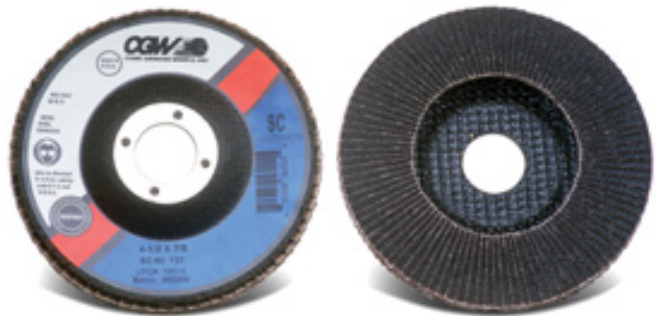
Premium A3 with Calcium Stearate Coating



SIZE	GRIT	RPM	CARTON QTY	Thickness REGULAR T27 UPC#	Thickness Regular T29 UPC#
4-1/2 x 7/8	36	13,300	10	43081	43101
4-1/2 x 7/8	60	13,300	10	43084	43104
4-1/2 x 5/8-11	36	13,300	10	43091	43111
4-1/2 x 5/8-11	60	13,300	10	43094	43114
5 x 7/8	36	12,200	10	SM	43181
5 x 7/8	60	12,200	10	SM	43184
5 x 5/8-11	36	12,200	10	SM	43191
5 x 5/8-11	60	12,200	10	SM	43194
7 x 7/8	36	8,600	10	43241	43261
7 x 5/8-11	36	8,600	10	43251	43271

SC Ultimate - Silicon Carbide Flap Discs

- Polyester (40-180), cotton (220-600) backed product has sharp aggressive cutting action for a clean, smooth finish.
- Specialty grinding on granite, marble, stone, plastics, fiberglass, titanium and titanium alloys.



Type 27

SC Ultimate



SC Ultimate

UPC#	SIZE	GRIT	RPM	CARTON QTY
56002	4 x 5/8	40	15,300	10
56004	4 x 5/8	60	15,300	10
56005	4 x 5/8	80	15,300	10
56006	4 x 5/8	120	15,300	10
56007*	4 x 5/8	240	15,300	10
56008*	4 x 5/8	320	15,300	10
56009*	4 x 5/8	400	15,300	10
56003*	4 x 5/8	600	15,300	10

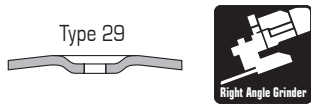
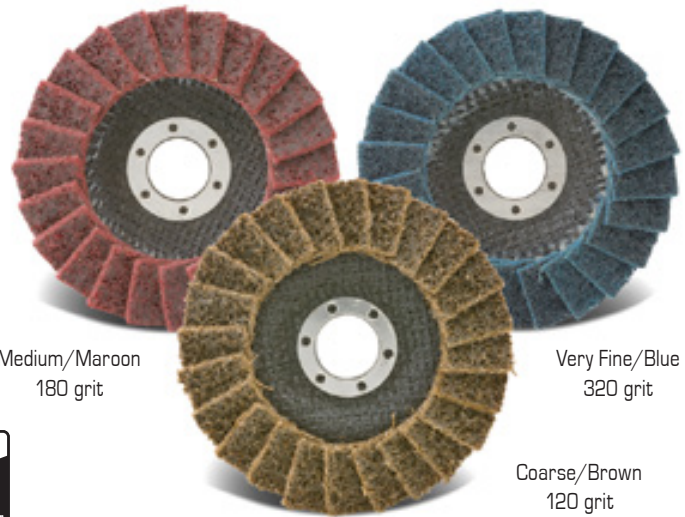
SIZE	GRIT	7/8" ARBOR HOLE	5/8-11" ARBOR HOLE	RPM	CARTON QTY
4-1/2	40	56012	56022	13,300	10
4-1/2	60	56014	56024	13,300	10
4-1/2	80	56015	56025	13,300	10
4-1/2	120	56016	56026	13,300	10
4-1/2	240	56017	56027	13,300	10
4-1/2	320	56018	56028	13,300	10
4-1/2	400	56019	56029	13,300	10
4-1/2	600	56013	56023	13,300	10
7	80	56035	56185	8,600	10
7	120	56036	56186	8,600	10

*Items in gray are discontinued and only available while supplies last.

SURFACE CONDITIONING

Surface Conditioning Flap Discs

- Premium surface conditioning material for surface preparation.
- Three different grits for blending, deburring, and cleaning.
- For steel and stainless steel.
- Coarse discs (brown) are 120 grit
- Medium discs (maroon) are 180 grit
- Very Fine discs (blue) are 320 grit
- Please operate at 3,000 RPM for optimal performance.



SIZE	RPM	RECOMMENDED RPM	CARTON QTY	COARSE UPC#	MEDIUM UPC#	VERY FINE UPC#
4-1/2 x 7/8	13,300	2,700-5,000	10	70120	70122	70124
4-1/2 x 5/8-11	13,300	2,700-5,000	10	70121	70123	70125
5 x 7/8	12,200	2,500-4,500	10	70185	70187	70189
5 x 5/8-11	12,200	2,500-4,500	10	70186	70188	70190

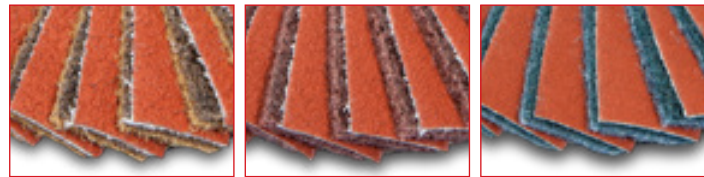
Interleaf Flap Discs

Grind & finish with one disc - save time and money

- Stainless steel finishing, light grinding, deburring.
- Alternating flaps of non-woven and coated abrasive materials provide uniform, consistent finishes with very little heat.
- Top size aluminum oxide poly cotton material for cool, yet fast cutting action for long life.
- European made non-woven material for non-smearing high grade finishes.
- Three grit levels of discs for a variety of work including stainless steel, aluminum, brass, steel sheet metal.
- Please operate at 3,000 RPM for optimal performance.



Brown - 120 grit Maroon - 180 grit Blue - 320 grit



COARSE
Perfect satin finish, achieves #4 finish

MEDIUM
High mirror polish

VERY FINE

TOP SIZE ALUMINUM OXIDE



SIZE	RPM	RECOMMENDED RPM	CARTON QTY	COARSE UPC#	MEDIUM UPC#	VERY FINE UPC#
4-1/2 x 7/8	13,300	2,700-5,000	10	49686	49687	49688
4-1/2 x 5/8-11	13,300	2,700-5,000	10	49689	49690	46691
5 x 7/8	12,200	2,500-4,500	10	49692	49693	49694
5 x 5/8-11	12,200	2,500-4,500	10	49695	49696	49697

New **Felt/Wool Discs - Buffing**
For fast mirror finishes

- Stainless steel, aluminum, sheet metal mild steel and brass.
- Flexible felt/wool disc easily works with contoured surfaces for consistent polishing action.
- Cool working action without burning.
- Designed for smooth polishing action.
- 100% virgin wool.
- **MUST USE WITH BUFFING COMPOUND.**
- Please operate at 3,000 RPM for optional performance.



UPC#	SIZE	RPM	CARTON QTY
49698	4-1/2 x 7/8	13,300	10
49700	4-1/2 x 5/8-11	13,300	10
49699	5 x 7/8	12,200	10
49701	5 x 5/8-11	13,300	10

New **Buffing Compound**

- Compounds will not discolor metals.
- White SS51 (1,200 grit) compound helps buff aluminum, steel, stainless and natural stone to the desired finish without adding scratches. **High gloss finish.**
- Green C-3 (2,000 grit) premium buffing compound works on aluminum, steel and stainless steels and eliminates drag lines while still achieving the desired finish and **maximum luster.**



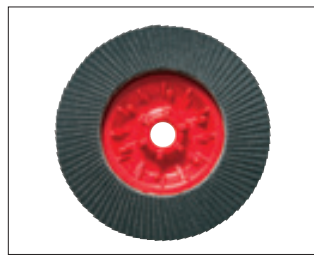
UPC#	DESCRIPTION	GRIT	COLOR	CARTON QTY
49652	White SS51 Polishing Compound	1,200	White	1
49653	Green C-3 Polishing Compound	2,000	Green	1



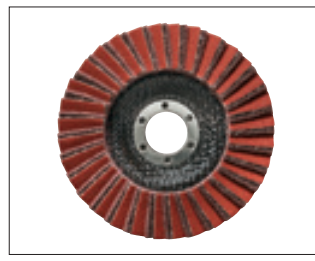
New **#8 Mirror Finishing Kit -**
5 Steps in 1 Box • 7 Pieces in Total

- Variable speed tool recommended.

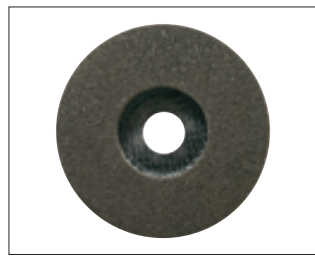
#4 FINISHING KIT	UPC #
7 piece set	49660



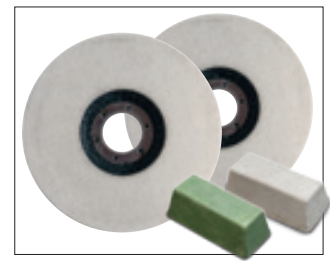
30146 (120 Grit)
Trimmable Flap Disc
 Flexible backing with best selling Z3® flap material for heavy duty work.



49687
Interleaf Flap Disc
 Medium; maroon; 180 grit. Uniform finishes with little heat.



72052
Premium Unitized Wheel
 6/A/Medium. Cleans and blends easily.



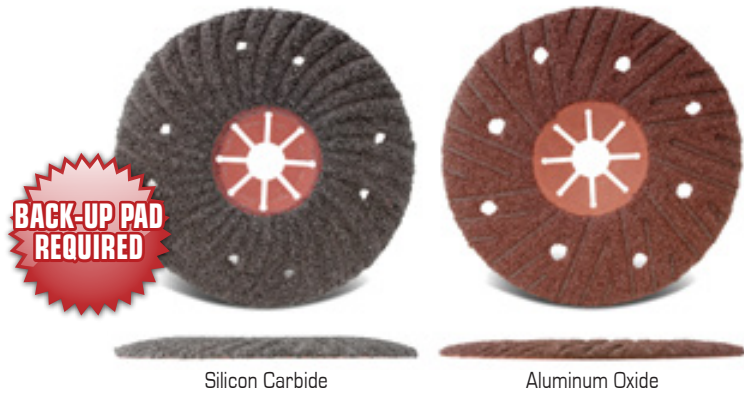
49698
Felt/Wool Buffing Discs
 (must be used w/ Buffing Compound). Includes White (1,200 grit) & Green (2,000 grit) 1 oz. kit size compounds.

SEMI-FLEX RED FIBRE BACKING

SEMI-FLEX DISCS

Semi-Flex Discs - Red Fibre Backing

- **Silicon Carbide (C)** for aggressive grinding on non-ferrous materials such as...
 - Removing Epoxy, Glue or Urethane, Coatings, Mastiks.
 - Fiberglass (ex: boat hulls).
 - Quartz / Terrazzo / Concrete.
 - Marble.
 - Enamels / Porcelain / China clay.
 - Cow hooves.
- **Aluminum Oxide (A)** for metal working and grinding down rough castings. Excellent on materials such as...
 - Cold rolled, Stainless steel, Bronze, Aluminum, Iron.



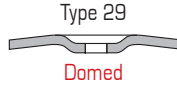
Silicon Carbide

Aluminum Oxide

SILICON CARBIDE
ALUMINUM OXIDE



Right Angle Grinder



Type 29

Domed



4-1/2 x 7/8 - Domed 13,300 R.P.M.

UPC#	GRIT-HARDNESS	SPEC.	CARTON QTY
35830	16-B	A-16-B	25
35831	24-B	A-24-B	25
35832	36-B	A-36-B	25
New 49625	50-B	A-50-B	25
New 49626	60-B	A-60-B	25
35833	16-B	C-16-B	25
35834	24-B	C-24-B	25
35835	36-B	C-36-B	25
35836	60-B	C-60-B	25
35837	80-B	C-80-B	25
35838	120-B	C-120-B	25

7 x 7/8 - Domed 8,500 R.P.M.

UPC#	GRIT-HARDNESS	SPEC.	CARTON QTY
35839	16-B	A-16-B	25
35840	24-B	A-24-B	25
35841	36-B	A-36-B	25
New 49633	50-B	A-50-B	25
New 49634	60-B	A-60-B	25
35842	16-B	C-16-B	25
35843	24-B	C-24-B	25
35844	36-B	C-36-B	25
49685	50-B	C-50-B	25
35845	60-B	C-60-B	25
35846	80-B	C-80-B	25
35847	120-B	C-120-B	25

5 x 7/8 - Domed 12,250 R.P.M.

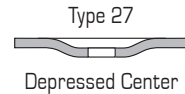
UPC#	GRIT-HARDNESS	SPEC.	CARTON QTY
New 49627	16-B	A-16-B	25
New 49628	24-B	A-24-B	25
New 49629	36-B	A-36-B	25
New 49630	50-B	A-50-B	25
New 49631	60-B	A-60-B	25
New 49632	50-B	C-50-B	25



SILICON CARBIDE



Right Angle Grinder



Type 27

Depressed Center

Economy Semi-Flex Discs - Red Fibre Backing

4 1/2 x 7/8 - Depressed Center 13,300 R.P.M.

UPC#	GRIT-HARDNESS	SPEC.	CARTON QTY*
36292	16-B	C-16-B	25
36293	24-B	C-24-B	25
36294	36-B	C-36-B	25

7 x 7/8 - Depressed Center 8,600 R.P.M.

UPC#	GRIT-HARDNESS	SPEC.	CARTON QTY*
36235	16-B	C-16-B	25
36236	24-B	C-24-B	25
36237	36-B	C-36-B	25

*Carton contains four shrink-wrapped packages of five discs.

SEMI-FLEX DISCS - RIGID

New

Semi-Flex Discs - Rigid Strong, Phenolic Backing

- Rigid phenolic (fiberglass) backing for aggressive grinding applications.
- Phenolic backings are stronger than plastic and vulcanized fiber backings.
- Rigid disc design allows for more control when grinding corners and edges.
- Made for unlimited storage life. No deformation due to use, heat or humidity.
- Use wet or dry. **No back-up pad needed.**
- **Silicon Carbide discs for:** Concrete prep work - cleaning, grinding, sanding floors and walls. Floor coating removal - epoxy, glue, urethane, coatings, mastiks. Stone, brick and masonry. Non-ferrous metals. Fiberglass.
- **Aluminum Oxide discs for:** Metal fabrication, cast iron and foundry.



Now Available with 5/8-11 Hub

SILICON CARBIDE
ALUMINUM OXIDE



Type 27
Depressed Center

SEMI-FLEX DISCS

4-1/2" Diameter - Depressed Center 13,300 R.P.M.

UPC#	SIZE	SPEC.	CARTON QTY
49582	4-1/2 x 7/8	A-16-B	25
49584	4-1/2 x 7/8	A-24-B	25
49586	4-1/2 x 7/8	A-36-B	25
49583	4-1/2 x 5/8-11	A-16-B	10
49585	4-1/2 x 5/8-11	A-24-B	10
49587	4-1/2 x 5/8-11	A-36-B	10
49606	4-1/2 x 7/8	C-16-B	25
49608	4-1/2 x 7/8	C-24-B	25
49610	4-1/2 x 7/8	C-36-B	25
49607	4-1/2 x 5/8-11	C-16-B	10
49609	4-1/2 x 5/8-11	C-24-B	10
49611	4-1/2 x 5/8-11	C-36-B	10

7" Diameter - Depressed Center 8,600 R.P.M.

UPC#	SIZE	SPEC.	CARTON QTY
49594	7 x 7/8	A-16-B	25
49596	7 x 7/8	A-24-B	25
49598	7 x 7/8	A-36-B	25
49595	7 x 5/8-11	A-16-B	10
49597	7 x 5/8-11	A-24-B	10
49599	7 x 5/8-11	A-36-B	10
49618	7 x 7/8	C-16-B	25
49620	7 x 7/8	C-24-B	25
49622	7 x 7/8	C-36-B	25
49619	7 x 5/8-11	C-16-B	10
49621	7 x 5/8-11	C-24-B	10
49623	7 x 5/8-11	C-36-B	10

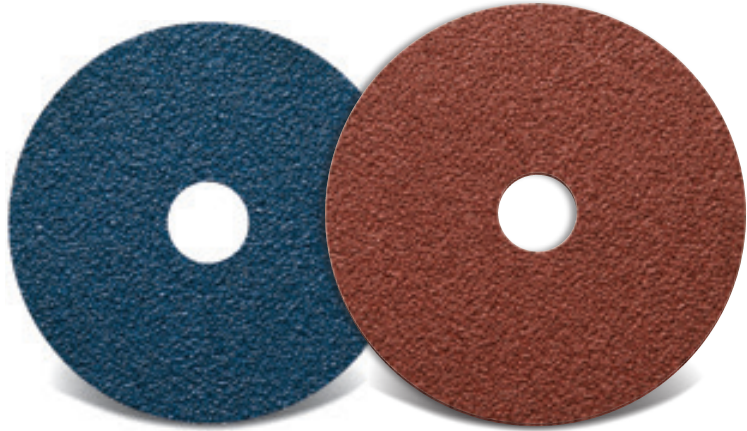
5" Diameter - Depressed Center 12,250 R.P.M.

UPC#	SIZE	SPEC.	CARTON QTY
49588	5 x 7/8	A-16-B	25
49590	5 x 7/8	A-24-B	25
49592	5 x 7/8	A-36-B	25
49589	5 x 5/8-11	A-16-B	10
49591	5 x 5/8-11	A-24-B	10
49593	5 x 5/8-11	A-36-B	10
49612	5 x 7/8	C-16-B	25
49614	5 x 7/8	C-24-B	25
49616	5 x 7/8	C-36-B	25
49613	5 x 5/8-11	C-16-B	10
49615	5 x 5/8-11	C-24-B	10
49617	5 x 5/8-11	C-36-B	10

PREMIUM RESIN FIBRE DISCS

New Premium Resin Fibre Discs - Aluminum Oxide & Zirconia

- Made with premium aluminum oxide grain using **NEW** world class state-of-the-art electrostatic coating process.
- Heavy duty vulcanized fibre for extended disc life and over 30% less curling during storage (**discs stay flatter**).
- 7" discs are available with a depressed center which increases the amount of disc that can be used and helps prevent curling during storage.



49472

49451



Rubber Back-up Pads Required
(see page 37 for full program)

ALUMINUM OXIDE

ZIRCONIA

Premium Resin Fibre Discs

SIZE	SPEC.	RPM	CARTON QTY	ALUMINUM OXIDE UPC#	ZIRCONIA UPC#
4-1/2 x 7/8	16 Grit	15,300	25	49441	
4-1/2 x 7/8	24 Grit	15,300	25	49442	49471
4-1/2 x 7/8	36 Grit	15,300	25	49443	49472
4-1/2 x 7/8	50 Grit	15,300	25	49444	49473
4-1/2 x 7/8	60 Grit	15,300	25	49445	49474
4-1/2 x 7/8	80 Grit	15,300	25	49446	49475
4-1/2 x 7/8	100 Grit	15,300	25	49447	
4-1/2 x 7/8	120 Grit	15,300	25	49448	
5 x 7/8	16 Grit	13,300	25	49449	
5 x 7/8	24 Grit	13,300	25	49450	49476
5 x 7/8	36 Grit	13,300	25	49451	49477
5 x 7/8	50 Grit	13,300	25	49452	49478
5 x 7/8	60 Grit	13,300	25	49453	49479
5 x 7/8	80 Grit	13,300	25	49454	49480
5 x 7/8	100 Grit	13,300	25	49455	
5 x 7/8	120 Grit	13,300	25	49456	
7 x 7/8	16 Grit	12,200	25	49457	
7 x 7/8	24 Grit	12,200	25	49458	49481
7 x 7/8	36 Grit	12,200	25	49459	49482
7 x 7/8	50 Grit	12,200	25	49460	49483
7 x 7/8	60 Grit	12,200	25	49461	49484
7 x 7/8	80 Grit	12,200	25	49462	49485
7 x 7/8	100 Grit	12,200	25	49463	
7 x 7/8	120 Grit	12,200	25	49464	

TOP SIZE RESIN FIBRE DISCS

New **Top Size (Grinding Aid)
AO Resin Fibre Discs**

Metal and Stainless

- Top-Size (grinding aid coating) for cooler grinding and longer life - disc does not clog or burn.
- Premium aluminum oxide grain and grinding aid for superior performance without burning or staining the material.
- Heavy duty vulcanized fiber for extended life and production rates.



ALUMINUM OXIDE



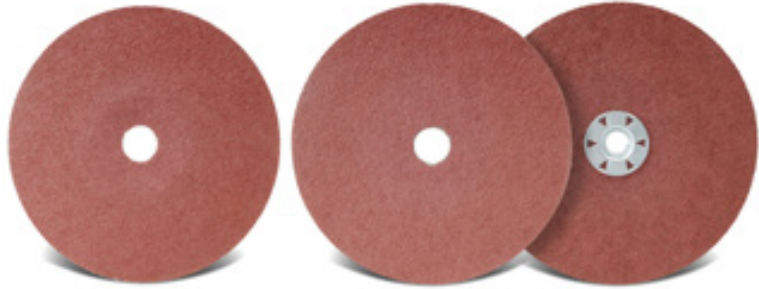
SIZE	SPEC.	RPM	CARTON QTY	UPC#
4-1/2 x 7/8	36 Grit	13,300	25	49702
4-1/2 x 7/8	50 Grit	13,300	25	49703
4-1/2 x 7/8	60 Grit	13,300	25	49704
4-1/2 x 7/8	80 Grit	13,300	25	49705
5 x 7/8	36 Grit	12,200	25	49706
5 x 7/8	50 Grit	12,200	25	49707
5 x 7/8	60 Grit	12,200	25	49708
5 x 7/8	80 Grit	12,200	25	49709
7 x 7/8	36 Grit	8,600	25	49710
7 x 7/8	50 Grit	8,600	25	49711
7 x 7/8	60 Grit	8,600	25	49712
7 x 7/8	80 Grit	8,600	25	49713

RESIN FIBRE DISCS

AO RESIN FIBRE DISCS

Resin Fibre Discs Aluminum Oxide

- A premium quality AO disc designed for long life, high stock removal and cool cutting action on metal and welds.
- Sharp, heat-treated and blue fired AO grain electrostatically coated to a heavy duty vulcanized fibre backing with heat resistant phenolic resins. Fast, cool cutting performance.
- 7" Quick lock discs are only available with the flat resin fibre disc.
- 7" discs are available with a depressed center which increases the amount of disc that can be used and helps prevent premature curling during storage.



ALUMINUM OXIDE



Rubber Back-up Pads Required
(see page 37 for full program)

Aluminum Oxide Resin Fibre Discs

SIZE	SPEC.	RPM	CARTON QTY	STANDARD PROGRAM UPC#	QUICK LOCK UPC#
4 x 5/8	16 Grit	15,300	25	48000	
4 x 5/8	24 Grit	15,300	25	48001	
4 x 5/8	36 Grit	15,300	25	48002	
4 x 5/8	50 Grit	15,300	25	48004	
4 x 5/8	60 Grit	15,300	25	48005	
4 x 5/8	80 Grit	15,300	25	48006	
4 x 5/8	100 Grit	15,300	25	48007	
4 x 5/8	120 Grit	15,300	25	48008	
4-1/2 x 7/8	16 Grit	13,300	25	48010	
4-1/2 x 7/8	24 Grit	13,300	25	48011	48711
4-1/2 x 7/8	30 Grit	13,300	25	48013	
4-1/2 x 7/8	36 Grit	13,300	25	48012	48712
4-1/2 x 7/8	50 Grit	13,300	25	48014	48714
4-1/2 x 7/8	60 Grit	13,300	25	48015	48715
4-1/2 x 7/8	80 Grit	13,300	25	48016	48716
4-1/2 x 7/8	100 Grit	13,300	25	48017	
4-1/2 x 7/8	120 Grit	13,300	25	48018	
5 x 7/8	16 Grit	12,200	25	48020	
5 x 7/8	24 Grit	12,200	25	48021	48721
5 x 7/8	30 Grit	12,200	25	48023	
5 x 7/8	36 Grit	12,200	25	48022	48722
5 x 7/8	50 Grit	12,200	25	48024	48724
5 x 7/8	60 Grit	12,200	25	48025	48725
5 x 7/8	80 Grit	12,200	25	48026	48726
5 x 7/8	100 Grit	12,200	25	48027	
5 x 7/8	120 Grit	12,200	25	48028	

Aluminum Oxide Resin Fibre Discs (cont.)

SIZE	SPEC.	RPM	CARTON QTY	STANDARD PROGRAM UPC#	FLAT UPC#	QUICK LOCK UPC#
7 x 7/8	16 Grit	8,600	25	48030		
7 x 7/8	24 Grit	8,600	25	48031	48621	48731
7 x 7/8	30 Grit	8,600	25	49233		
7 x 7/8	36 Grit	8,600	25	48032	48622	48732
7 x 7/8	50 Grit	8,600	25	48034	48624	48734
7 x 7/8	60 Grit	8,600	25	48035	48625	48735
7 x 7/8	80 Grit	8,600	25	48036	48626	48736
7 x 7/8	100 Grit	8,600	25	48037		
7 x 7/8	120 Grit	8,600	25	48038		
7 x 7/8	150 Grit	8,600	25	48033		
7 x 7/8	180 Grit	8,600	25	48039		
9 x 7/8	16 Grit	6,600	25	48040		
9 x 7/8	24 Grit	6,600	25	48041		48741
9 x 7/8	36 Grit	6,600	25	48042		48742
9 x 7/8	50 Grit	6,600	25	48044		48744
9 x 7/8	60 Grit	6,600	25	48045		48745
9 x 7/8	80 Grit	6,600	25	48046		48746
9 x 7/8	100 Grit	6,600	25	48047		
9 x 7/8	120 Grit	6,600	25	48048		
9 x 7/8	150 Grit	6,600	25	48049		

Aluminum Oxide 50 or 100-Pack Spindles

- Spindle-pool design with tightening nut provides convenient storage and keeps discs flat.

SIZE	SPEC.	RPM	CARTON QTY	UPC#
4-1/2 x 7/8	24 Grit	13,300	50	48501
4-1/2 x 7/8	36 Grit	13,300	100	48502
4-1/2 x 7/8	50 Grit	13,300	100	48503
4-1/2 x 7/8	60 Grit	13,300	100	48504
4-1/2 x 7/8	80 Grit	13,300	100	48505
5 x 7/8	24 Grit	12,200	50	48508
5 x 7/8	36 Grit	12,200	100	48509
5 x 7/8	50 Grit	12,200	100	48510
5 x 7/8	60 Grit	12,200	100	48511
5 x 7/8	80 Grit	12,200	100	48512
7 x 7/8	24 Grit	8,600	50	48515
7 x 7/8	36 Grit	8,600	100	48516
7 x 7/8	50 Grit	8,600	100	48517
7 x 7/8	60 Grit	8,600	100	48518
7 x 7/8	80 Grit	8,600	100	48519
Premium spindle				36203
4-1/2 & 5" spindle only (for replacement)				48251
7" spindle only (for replacement)				48252



Spindle only available

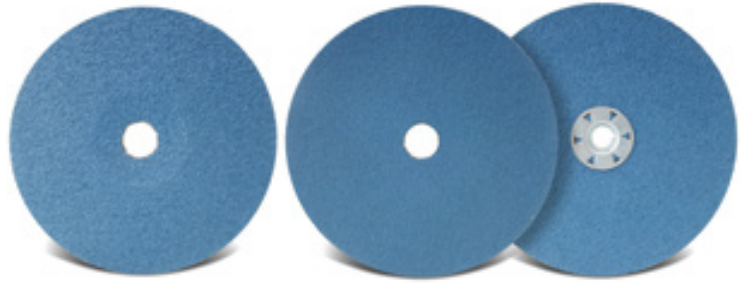


Premium Spindle

ZIRCONIA RESIN FIBRE DISCS

Resin Fibre Discs Zirconia - High Performance

- High concentration of Zirconia and heat-treated Aluminum Oxide grain provides twice the cutting action of premium AO discs and is extremely heat resistant.
- The special fracturing characteristics of the Zirconia grain provide a consistent action throughout the disc's life.
- High performance on blending welds, stainless steel, inconel, titanium and tool steel.
- 7" discs are available with a depressed center which increases the amount of disc that can be used and helps prevent premature curling during storage.



ZIRCONIA



**Rubber Back-up
Pads Required**
(see page 37 for full program)

Zirconia Resin Fibre Discs

SIZE	SPEC.	RPM	CARTON QTY	STANDARD PROGRAM UPC#	7" FLAT UPC#	QUICK LOCK UPC#
4 x 5/8	16 Grit	15,300	25	48230		
4 x 5/8	24 Grit	15,300	25	48231		
4 x 5/8	36 Grit	15,300	25	48232		
4 x 5/8	50 Grit	15,300	25	48234		
4 x 5/8	60 Grit	15,300	25	48235		
4 x 5/8	80 Grit	15,300	25	48236		
4-1/2 x 7/8	16 Grit	13,300	25	48100		
4-1/2 x 7/8	24 Grit	13,300	25	48101		48801
4-1/2 x 7/8	30 Grit	13,300	25	48103		
4-1/2 x 7/8	36 Grit	13,300	25	48102		48802
4-1/2 x 7/8	50 Grit	13,300	25	48104		48804
4-1/2 x 7/8	60 Grit	13,300	25	48105		48805
4-1/2 x 7/8	80 Grit	13,300	25	48106		48806
5 x 7/8	16 Grit	12,200	25	48110		
5 x 7/8	24 Grit	12,200	25	48111		48811
5 x 7/8	36 Grit	12,200	25	48112		48812
5 x 7/8	50 Grit	12,200	25	48114		48814
5 x 7/8	60 Grit	12,200	25	48115		48815
5 x 7/8	80 Grit	12,200	25	48116		48816
7 x 7/8	16 Grit	8,600	25	48120		
7 x 7/8	24 Grit	8,600	25	48121	48921	48821
7 x 7/8	30 Grit	8,600	25	48123*		
7 x 7/8	36 Grit	8,600	25	48122	48922	48822
7 x 7/8	50 Grit	8,600	25	48124	48924	48824
7 x 7/8	60 Grit	8,600	25	48125	48925	48825
7 x 7/8	80 Grit	8,600	25	48126	48926	48826
9 x 7/8	24 Grit	6,600	25	48141		48831
9 x 7/8	36 Grit	6,600	25	48142		48832
9 x 7/8	50 Grit	6,600	25	48144		48834
9 x 7/8	60 Grit	6,600	25	48145		48835
9 x 7/8	80 Grit	6,600	25	48146		48836

*Items in gray are discontinued and only available while supplies last.

SILICON CARBIDE DISCS

Zirconia

50 or 100-Pack Spindles

- Spindle-pool design with tightening nut provides convenient storage and keeps discs flat.

SIZE	SPEC.	RPM	CARTON QTY	STANDARD PROGRAM UPC#
4-1/2 x 7/8	24 Grit	13,300	50	48528
4-1/2 x 7/8	36 Grit	13,300	100	48529
4-1/2 x 7/8	50 Grit	13,300	100	48530
4-1/2 x 7/8	60 Grit	13,300	100	48531
4-1/2 x 7/8	80 Grit	13,300	100	48532
5 x 7/8	24 Grit	12,200	50	48533
5 x 7/8	36 Grit	12,200	100	48534
5 x 7/8	50 Grit	12,200	100	48535
5 x 7/8	60 Grit	12,200	100	48536
5 x 7/8	80 Grit	12,200	100	48537
7 x 7/8	24 Grit	8,600	50	48538
7 x 7/8	36 Grit	8,600	100	48539
7 x 7/8	50 Grit	8,600	100	48540
7 x 7/8	60 Grit	8,600	100	48541
7 x 7/8	80 Grit	8,600	100	48542
Premium spindle				36203
4-1/2 & 5" spindle only (for replacement)				48251
7" spindle only (for replacement)				48252



Spindle only available



Premium Spindle



Resin Fibre Discs

Silicon Carbide

- Aggressive cutting action for a clean, smooth finish. Excellent on titanium, fiberglass, plastics, and masonry products.

SILICON CARBIDE



Silicon Carbide Resin Fibre Discs

SIZE	SPEC.	RPM	CARTON QTY	UPC#
5 x 7/8	16 Grit	12,200	25	48320
5 x 7/8	24 Grit	12,200	25	48321
5 x 7/8	36 Grit	12,200	25	48322
7 x 7/8	16 Grit	8,600	25	48330
7 x 7/8	24 Grit	8,600	25	48331
7 x 7/8	36 Grit	8,600	25	48332
7 x 7/8	50 Grit	8,600	25	48334
7 x 7/8	60 Grit	8,600	25	48335
7 x 7/8	80 Grit	8,600	25	48336
7 x 7/8	120 Grit	8,600	25	48338
7 x 7/8	150 Grit	8,600	25	48333
7 x 7/8	220 Grit	8,600	25	48350
7 x 7/8	300 Grit	8,600	25	48339
7 x 7/8	400 Grit	8,600	25	48352

RESIN FIBRE DISCS

CERAMIC PREMIUM DISCS

RESIN FIBRE DISCS

Resin Fibre Discs

Ceramic Blend with Grinding Aid

- Premium ceramic grain is extremely hard and self-sharpens during operation. Ceramic grain breaks down with less pressure than Zirconia discs without heat damage.
- Grinding aid keeps the disc cool while grinding hard materials and aluminum.



CERAMIC



SIZE	SPEC.	RPM	CARTON QTY	UPC#	QUICK LOCK UPC#
4-1/2 x 7/8	24 Grit	13,300	25	48181	48881
4-1/2 x 7/8	36 Grit	13,300	25	48182	48882
4-1/2 x 7/8	50 Grit	13,300	25	48184	48884
4-1/2 x 7/8	60 Grit	13,300	25	48185	48885
4-1/2 x 7/8	80 Grit	13,300	25	48186	48886
5 x 7/8	24 Grit	12,200	25	48191	48891
5 x 7/8	36 Grit	12,200	25	48192	48892
5 x 7/8	50 Grit	12,200	25	48194	48894
5 x 7/8	60 Grit	12,200	25	48195	48895
5 x 7/8	80 Grit	12,200	25	48196	48896
7 x 7/8	24 Grit	8,600	25	48201	48901
7 x 7/8	36 Grit	8,600	25	48202	48902
7 x 7/8	50 Grit	8,600	25	48204	48904
7 x 7/8	60 Grit	8,600	25	48205	48905
7 x 7/8	80 Grit	8,600	25	48206	48906

BACK-UP PADS

Rubber Back-up Pads

- Rubber Back-up Pads - Use with coarse grits
 - Spiral ribs provide contact points and form channels for air flow, extending disc life 30% to 50%.
 - Improved mechanical and chemical bond between rubber and metal provides increased airflow and higher RPM ratings.
 - Larger air holes provide cooler operating area and longer abrasive disc life.
 - Flexible Rubber Pads are recommended for contours and Rigid Pads will last longer on aggressive grinding applications.



Rubber Back-up Pad

Rubber w/Standard Threaded Spiral Pattern – w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
<i>Medium</i>		
49514*	4" x 5/8-11	1
48220	4-1/2" x 5/8-11	1
48221	5" x 5/8-11	1
48222	7" x 5/8-11	1
48239	9" x 5/8-11	1
<i>Flexible</i>		
49510	7" x 5/8-11	1
49526	9" x 5/8-11	1
<i>Rigid</i>		
49511	7" x 5/8-11	1
49527	9" x 5/8-11	1

Rubber w/Smooth Bore & Spiral Pattern – w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
<i>Medium</i>		
49515*	4"	1
49521	4-1/2"	1
49519	5"	1

* Use with #49529 nut.

Polypropylene Back-up Pads

- Polypropylene Back-up Pads - Use with medium to fine grits.
 - Spiral ribs provide contact points and form channels for airflow.

Polypropylene w/Standard Spiral Pattern – w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
<i>Medium</i>		
36204	4-1/2"	1
36205	5"	1
36206	7"	1

Polypropylene w/Smooth Face & Smooth Bore – w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
48218	4"	1
48224	4-1/2"	1
48225	5"	1
48226	7"	1
48240	9"	1



Polypropylene Back-up Pad

Rubber w/Smooth Face for Low Profile Grinders

UPC#	SIZE/SPEC	CARTON QTY
48261	4-1/2"	1
48262	5"	1

Rubber w/Smooth Face for Fibre Discs with Quick Lock

UPC#	SIZE/SPEC	CARTON QTY
48264	5"	1
48266	7"	1

Rubber w/Smooth Face w/o Nut

UPC#	SIZE/SPEC	CARTON QTY
<i>Medium</i>		
49501	4" x 5/8-11	1
49508	4-1/2" x 5/8-11	1
49503	5" x 5/8-11	1
49506	7" x 5/8-11	1
<i>Flexible</i>		
49504	7" x 5/8-11	1
<i>Rigid</i>		
49505	7" x 5/8-11	1

Accessories

UPC#	SIZE/SPEC	CARTON QTY
48223	5/8-11 Locking Pad Nut 1 1/2" Flange w/Holes	1
49530	5/8-11 Locking Pad Nut 2" Flange w/Holes	1
49529	3/8-24 Locking Pad Nut 1 1/2" Flange w/Holes	1
49531	10 mm 1.25 Pad Nut 1 1/2" Flange w/Holes	1
48229	Adjustable Spanner Wrench	1

Paper, Film & Cloth **SANDING DISCS**

Gold
"C" Weight
Aluminum Oxide
Paper Disc

White Gold
"C" Weight
Aluminum Oxide
Paper Disc

U612
"A" Weight
Aluminum Oxide
Paper Disc

S13T
"A" Weight
Silicon Carbide
Paper Disc

"F" Weight
Aluminum Oxide
Paper Disc

Q711T
White
Aluminum Oxide
Film Backed Disc

LongLife
Aluminum Oxide
Film Backed Disc

K35F/K35SF
"J" Weight
Aluminum Oxide
Cloth Disc

"X" Weight
Aluminum Oxide
Cloth Disc

Zirconia/R203
"Y" Weight
Zirconia AO
Cloth Disc

PASCO

SANDING DISCS

★ THE PASCO ADVANTAGE:

Made in USA! Edge tear resistant! Made with strong .0005 Mylar film for superior edge tear resistance. Available on A, B, C, D weight products.

- ★ We make the best disc in the world – we believe it and we can prove it. We'll convince you and show you how to reduce costs, improve profits and solve problems.

Call CGW/PASCO about our sample program.

Take The Tear Test!

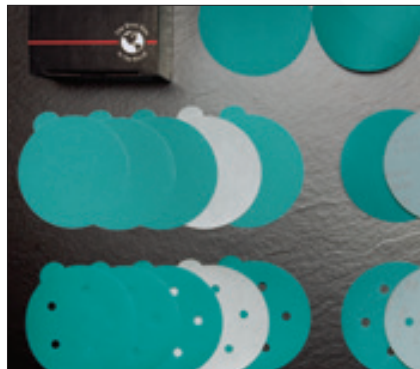


- Compare our laminated disc against a typical "hot melt" adhesive disc.
- Full resin bond system reinforces grain adhesion for longer working life.
- Latex paper backing – strong, yet pliable. Resists delamination and tearing.
- Zinc stearate coating for less loading and longer life.



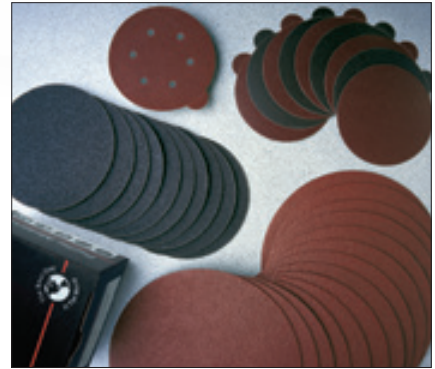
Paper Sanding Discs

pages 40 – 47



Film-Backed Sanding Discs

pages 48 – 51



Cloth Sanding Discs

pages 52 – 53



PAPER SANDING DISCS

PAPER SANDING DISCS

Gold "C" Weight Paper Disc - #1 Selling Pasco Disc!

- **THE PASCO ADVANTAGE:** Made with a strong .0005 Mylar film for superior edge tear resistance.
- The PASCO Advantage outperforms other "C" weight gold discs.
- Stearated paper with heat treated aluminum oxide grain and a full phenolic bond system provides uniform scratch pattern.
- Open coat disc delivers fast cut and exceptionally long life.

New **GOLD DWT & DOR PSA DISC**
Aluminum Oxide "C" Wgt., Open Coat

ALUMINUM OXIDE



GOLD DOR



GOLD DWT



GOLD DWT-VAC

DOR = Disc on Roll

DWT = Disc with Tab

Vacuum disc available as DWT only

5" GOLD DWT & DOR

GRIT	UPC #				BX/RL	MASTER PACK
	DOR	DWT	5VAC	8VAC		
P40		49790	N/A	49850	50	400
P60	49761	49791	N/A	49851	50	400
P80	49762	49792	49822	49852	100	800
P100	49763	49793	49823	49853	100	800
P120	49764	49794	49824	49854	100	800
P150	49765	49795	49825	49855	100	800
P180	49766	49796	49826	49856	100	800
P220	49767	49797	49827	49857	100	800
P240		49798	49828	49858	100	800
P280		49799	49829	49859	100	800
P320		49800	49830	49860	100	800
P400		49801	49831	49861	100	800
P500		49802	49832	49862	100	800
P600		49803	49833	49863	100	800
P800		50965	50970	50975	100	800
P1000		50966	50971	50976	100	800

6" GOLD DWT & DOR

GRIT	UPC #				BX/RL	MASTER PACK
	DOR	DWT	6VAC	8VAC-I		
P40		49805	49835	49865	50	400
P60	49776	49806	49836	49866	50	400
P80	49777	49807	49837	49867	100	800
P100	49778	49808	49838	49868	100	800
P120	49779	49809	49839	49869	100	800
P150	49780	49810	49840	49870	100	800
P180	49781	49811	49841	49871	100	800
P220	49782	49812	49842	49872	100	800
P240		49813	49843	49873	100	800
P280		49814	49844	49874	100	800
P320		49815	49845	49875	100	800
P400		49816	49846	49876	100	800
P500		49817	49847	49877	100	800
P600		49818	49848	49878	100	800
P800		50985	50990	50995	100	800
P1000		50986	50991	50996	100	800

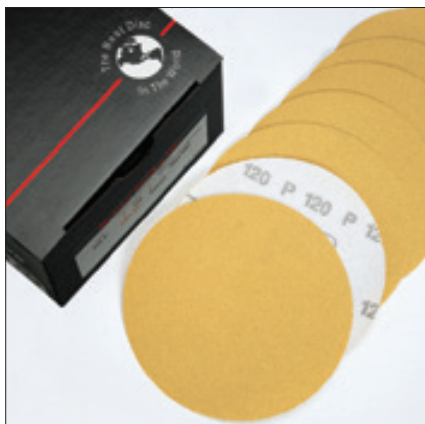
8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)



PASCO

Gold "C" Weight Paper Disc (continued)

New **GOLD HOOK & LOOP DISC**
Aluminum Oxide "C" Wgt., Open Coat



GOLD H&L



GOLD H&L-VAC

ALUMINUM OXIDE



H&L = Hook & Loop
(or Velcro®)

5" GOLD Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	5VAC	8VAC		
P40	49925	49955	49985	50	400
P60	49926	49956	49986	50	400
P80	49927	49957	49987	100	800
P100	49928	49958	49988	100	800
P120	49929	49959	49989	100	800
P150	49930	49960	49990	100	800
P180	49931	49961	49991	100	800
P220	49932	49962	49992	100	800
P240	49933	49963	49993	100	800
P280	49934	49964	49994	100	800
P320	49935	49965	49995	100	800
P400	49936	49966	49996	100	800
P500	49937	49967	49997	100	800
P600	49938	49968	49998	100	800
P800	52165	52170	52175	100	800
P1000	52166	52171	52176	100	800

6" GOLD Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	6VAC	8VAC-I		
P40	49940	49970	50000	50	400
P60	49941	49971	50001	50	400
P80	49942	49972	50002	100	800
P100	49943	49973	50003	100	800
P120	49944	49974	50004	100	800
P150	49945	49975	50005	100	800
P180	49946	49976	50006	100	800
P220	49947	49977	50007	100	800
P240	49948	49978	50008	100	800
P280	49949	49979	50009	100	800
P320	49950	49980	50010	100	800
P400	49951	49981	50011	100	800
P500	49952	49982	50012	100	800
P600	49953	49983	50013	100	800
P800	52180	52185	52190	100	800
P1000	52181	52186	52191	100	800

8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)

- UPC #'s listed in **Red and Bold** are standard stocking items in Niles, IL and Buena Park, CA.
 - UPC #'s listed in black are available from Buena Park, CA and are shipped within 10 business days. Prepaid freight from Buena Park, CA is \$750.
 - 6" (8 VAC-Q) and 8" discs are special order items. The minimum order is 800 discs. Prepaid freight from Buena Park, CA is \$750.
- Contact customer service for ordering requirements (part numbers, pricing, etc.)

PAPER SANDING DISCS

PAPER SANDING DISCS

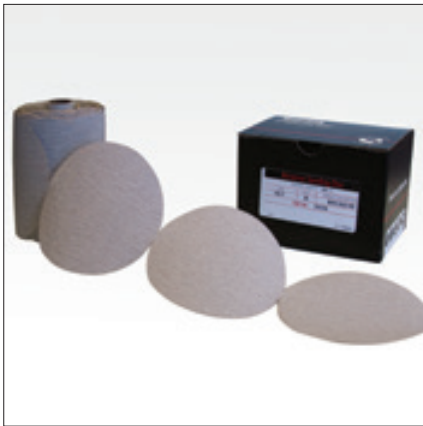
White Gold "C" Weight Paper Disc - Our Lowest Cost Disc

- Heavy duty "C" weight paper. PASCO white gold will outperform competitor Gold C-weight discs.
- Full phenolic resin bond for better grain adhesion and longer life.
- Improved cut compared to other paper discs.
- Non-loading zinc stearate treatment.

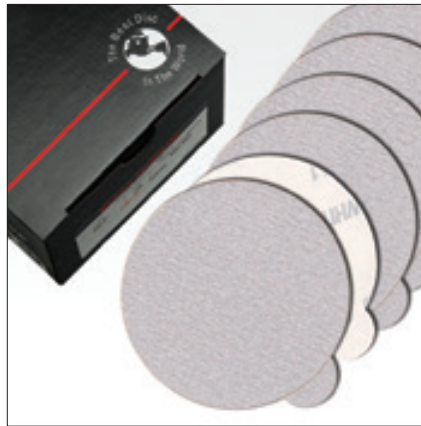


WHITE GOLD DWT & DOR PSA DISC

Aluminum Oxide "C" Wgt., Open Coat



WHITE GOLD DOR



WHITE GOLD DWT

SPECIAL ALUMINUM OXIDE



DOR = Disc on Roll
DWT = Disc with Tab

5" WHITE GOLD DWT & DOR

GRIT	UPC #				BX/RL	MASTER PACK
	DOR	DWT	5VAC	8VAC		
P60	50360	50390	50420	50450	50	800
P80	50361	50391	50421	50451	100	800
P100	50362	50392	50422	50452	100	800
P120	50363	50393	50423	50453	100	800
P150	50364	50394	50424	50454	100	800
P180	50365	50395	50425	50455	100	800
P220	50366	50396	50426	50456	100	800
P240		50397	50427	50457	100	800
P320		50399	50429	50459	100	800
P400		50400	50430	50460	100	800

6" WHITE GOLD DWT & DOR

GRIT	UPC #				BX/RL	MASTER PACK
	DOR	DWT	6VAC	8VAC-I		
P60	50375	50405	50435	50465	50	800
P80	50376	50406	50436	50466	100	800
P100	50377	50407	50437	50467	100	800
P120	50378	50408	50438	50468	100	800
P150	50379	50409	50439	50469	100	800
P180	50380	50410	50440	50470	100	800
P220	50381	50411	50441	50471	100	800
P240		50412	50442	50472	100	800
P320		50414	50444	50474	100	800
P400		50415	50445	50475	100	800

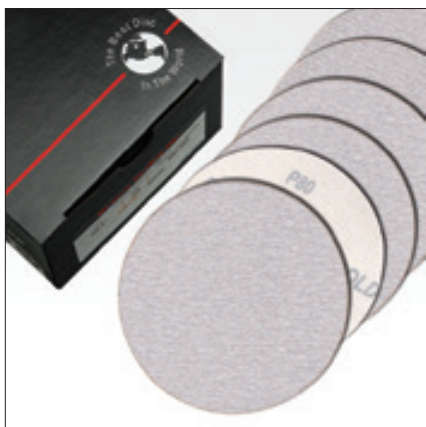
8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)



PASCO

White Gold "C" Weight Paper Disc - Our Lowest Cost Disc (continued)

New **WHITE GOLD HOOK & LOOP DISC**
Aluminum Oxide "C" Wgt., Open Coat



SPECIAL ALUMINUM OXIDE



H&L = Hook & Loop
(or Velcro®)

WHITE GOLD H&L

5" WHITE GOLD Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	5VAC	8VAC		
P60	50525	50555	50585	50	800
P80	50526	50556	50586	100	800
P100	50527	50557	50587	100	800
P120	50528	50558	50588	100	800
P150	50529	50559	50589	100	800
P180	50530	50560	50590	100	800
P220	50531	50561	50591	100	800
P240	50532	50562	50592	100	800
P320	50534	50564	50594	100	800
P400	50535	50565	50595	100	800

6" WHITE GOLD Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	6VAC	8VAC-I		
P60	50540	50570	50600	50	800
P80	50541	50571	50601	100	800
P100	50542	50572	50602	100	800
P120	50543	50573	50603	100	800
P150	50544	50574	50604	100	800
P180	50545	50575	50605	100	800
P220	50546	50576	50606	100	800
P240	50547	50577	50607	100	800
P320	50549	50579	50609	100	800
P400	50550	50580	50610	100	800

8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)

- UPC #'s listed in **Red and Bold** are standard stocking items in Niles, IL and Buena Park, CA.
 - UPC #'s listed in **black** are available from Buena Park, CA and are shipped within 10 business days. Prepaid freight from Buena Park, CA is \$750.
 - 6" (8 VAC-Q) and 8" discs are special order items. The minimum order is 800 discs. Prepaid freight from Buena Park, CA is \$750.
- Contact customer service for ordering requirements (part numbers, pricing, etc.)

PAPER SANDING DISCS

U612 "A" Weight Paper Disc - Provides Finer Finish!

THE PASCO ADVANTAGE:

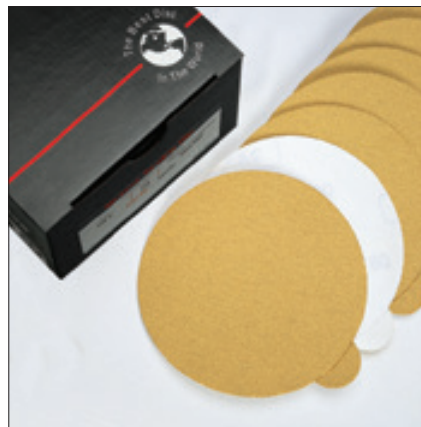
- Made with a strong .0005 Mylar film for superior edge tear resistance.
- Sharp, durable premium heat treated aluminum oxide grain on a "A" weight backing with a full phenolic resin bond system and non-loading zinc stearate treatment. 80 grit uses latex "B" weight paper.
- Faster rate of cut and longer life versus competitive "A" weight disc products.
- Exclusive PASCO disc to compete against 3M 216U disc at a lower price.



New U612 DWT & DOR PSA DISC Aluminum Oxide "A" Wgt., Open Coat



U612 DOR



U612 DWT

ALUMINUM OXIDE



DOR = Disc on Roll
DWT = Disc with Tab

5" U612 DWT & DOR

GRIT	UPC #				BK/RL	MASTER PACK
	DOR	DWT	5VAC	8VAC		
P80	50660	50690	50720	50750	100	800
P100	50661	50691	50721	50751	100	800
P120	50662	50692	50722	50752	100	800
P150	50663	50693	50723	50753	100	800
P180	50664	50694	50724	50754	100	800
P220	50665	50695	50725	50755	100	800
P240		50696	50726	50756	100	800
P320		50698	50728	50758	100	800
P400		50699	50729	50759	100	800
P500		50700	50730	50760	100	800
P600		50701	50731	50761	100	800

6" U612 DWT & DOR

GRIT	UPC #				BK/RL	MASTER PACK
	DOR	DWT	6VAC	8VAC-I		
P80	50675	50705	50735	50765	100	800
P100	50676	50706	50736	50766	100	800
P120	50677	50707	50737	50767	100	800
P150	50678	50708	50738	50768	100	800
P180	50679	50709	50739	50769	100	800
P220	50680	50710	50740	50770	100	800
P240		50711	50741	50771	100	800
P320		50713	50743	50773	100	800
P400		50714	50744	50774	100	800
P500		50715	50745	50775	100	800
P600		50716	50746	50776	100	800

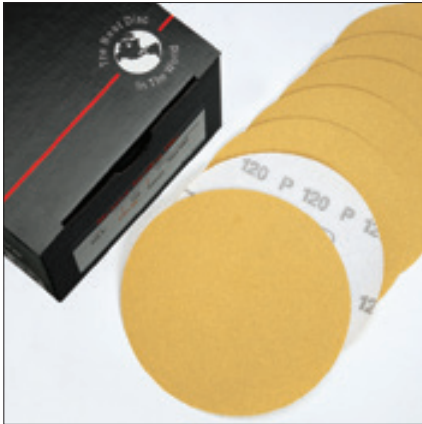
8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)



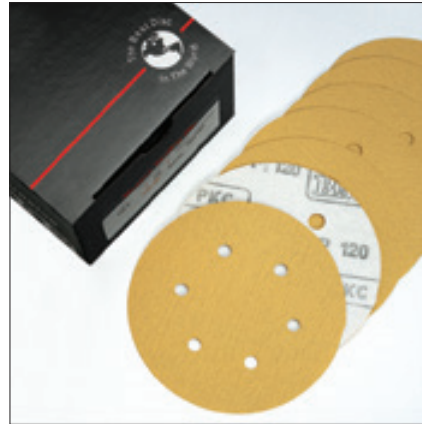
PASCO

U612 "A" Weight Paper Disc (continued)

New **U612 HOOK & LOOP DISC**
Aluminum Oxide "A" Wgt., Open Coat



U612 H&L



U612 H&L-VAC

ALUMINUM OXIDE



H&L = Hook & Loop
(or Velcro®)

5" U612 Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	5VAC	8VAC		
P80	50825	50855	50885	100	800
P100	50826	50856	50886	100	800
P120	50827	50857	50887	100	800
P150	50828	50858	50888	100	800
P180	50829	50859	50889	100	800
P220	50830	50860	50890	100	800
P240	50831	50861	50891	100	800
P320	50833	50863	50893	100	800
P400	50834	50864	50894	100	800
P500	50835	50865	50895	100	800
P600	50836	50866	50896	100	800

6" U612 Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	6VAC	8VAC-I		
P80	50840	50870	50900	100	800
P100	50841	50871	50901	100	800
P120	50842	50872	50902	100	800
P150	50843	50873	50903	100	800
P180	50844	50874	50904	100	800
P220	50845	50875	50905	100	800
P240	50846	50876	50906	100	800
P320	50848	50878	50908	100	800
P400	50849	50879	50909	100	800
P500	50850	50880	50910	100	800
P600	50851	50881	50911	100	800

8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)

- UPC #'s listed in **Red and Bold** are standard stocking items in Niles, IL and Buena Park, CA.
 - UPC #'s listed in **black** are available from Buena Park, CA and are shipped within 10 business days. Prepaid freight from Buena Park, CA is \$750.
 - 6" (8 VAC-Q) and 8" discs are special order items. The minimum order is 800 discs. Prepaid freight from Buena Park, CA is \$750.
- Contact customer service for ordering requirements (part numbers, pricing, etc.)

PAPER SANDING DISCS

S13T "A" Weight Paper Disc - Silicon Carbide

THE PASCO ADVANTAGE:

- Made with a strong .0005 Mylar film for superior edge tear resistance.
- Sharp silicon carbide grain with stearated paper with full phenolic resin bond system.
- For white wood, sealer, lacquer and polyurethane sanding.

New S13T DWT & DOR PSA DISC Silicon Carbide "A" Wgt., Open Coat



S13T DOR



S13T DWT

SILICON CARBIDE



DOR = Disc on Roll
DWT = Disc with Tab

5" S13T DWT & DOR

GRIT	UPC #				BK/RL	MASTER PACK
	DOR	DWT	5VAC	8VAC		
P80	51945	51953	51965	51977	100	800
P100	51946	51954	51966	51978	100	800
P120	51947	51955	51967	51979	100	800
P150	51948	51956	51968	51980	100	800
P180	51949	51957	51969	51981	100	800
P220	51950	51958	51970	51982	100	800
P240		51959	51971	51983	100	800
P280		51960	51972	51984	100	800
P320		51961	51973	51985	100	800
P400		51962	51974	51986	100	800

6" S13T DWT & DOR

GRIT	UPC #				BK/RL	MASTER PACK
	DOR	DWT	5VAC	8VAC		
P80	51989	51997	52009	52021	100	800
P100	51990	51998	52010	52022	100	800
P120	51991	51999	52011	52023	100	800
P150	51992	52000	52012	52024	100	800
P180	51993	52001	52013	52025	100	800
P220	51994	52002	52014	52026	100	800
P240		52003	52015	52027	100	800
P280		52004	52016	52028	100	800
P320		52005	52017	52029	100	800
P400		52006	52018	52030	100	800

8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)

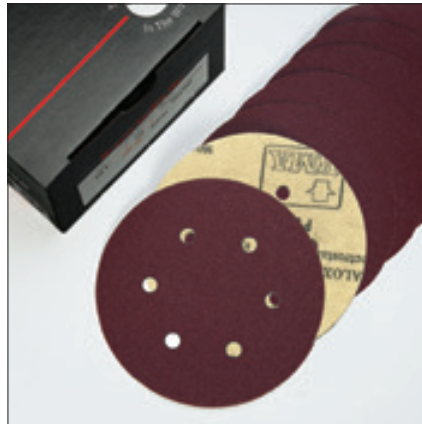




"F" WEIGHT DWT, DOR **PSA**, **HOOK & LOOP DISC** Aluminum Oxide "F" Wgt., Open Coat



"F" WEIGHT DWT



"F" WEIGHT H&L-VAC

- Tough, semi-open coat aluminum oxide paper with full phenolic resin bond system.
- Product designed for sanding solid woods, veneers, MDF, plywood and chipboard.
- Heavy weight paper designed for rough sanding, shaping and heavy stock removal.

DOR = Disc on Roll

DWT = Disc with Tab

H&L = Hook & Loop
(or Velcro®)

ALUMINUM OXIDE



5" DWT & DOR

GRIT	UPC #				BX/RL	MASTER PACK
	DOR	DWT	5VAC	8VAC		
P36		51737	51749	51761	50	400
P40		51738	51750	51762	50	400
P50		51739	51751	51763	50	400
P60		51740	51752	51764	50	400
P80	51729	51741	51753	51765	100	800
P100	51730	51742	51754	51766	100	800
P120	51731	51743	51755	51767	100	800
P150	51732	51744	51756	51768	100	800
P180	51733	51745	51757	51769	100	800
P220	51734	51746	51758	51770	100	800

6" DWT & DOR

GRIT	UPC #				BX/RL	MASTER PACK
	DOR	DWT	5VAC	8VAC		
P36		51781	51793	51805	50	400
P40		51782	51794	51806	50	400
P50		51783	51795	51807	50	400
P60		51784	51796	51808	50	400
P80	51773	51785	51797	51809	100	800
P100	51774	51786	51798	51810	100	800
P120	51775	51787	51799	51811	100	800
P150	51776	51788	51800	51812	100	800
P180	51777	51789	51801	51813	100	800
P220	51778	51790	51802	51814	100	800

5" Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	5VAC	8VAC		
P36	51849	51861	51873	50	400
P40	51850	51862	51874	50	400
P50	51851	51863	51875	50	400
P60	51852	51864	51876	50	400
P80	51853	51865	51877	100	800
P100	51854	51866	51878	100	800
P120	51855	51867	51879	100	800
P150	51856	51868	51880	100	800
P180	51857	51869	51881	100	800
P220	51858	51870	51882	100	800

6" Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	6VAC	8VAC-I		
P36	51885	51897	51909	50	400
P40	51886	51898	51910	50	400
P50	51887	51899	51911	50	400
P60	51888	51900	51912	50	400
P80	51889	51901	51913	100	800
P100	51890	51902	51914	100	800
P120	51891	51903	51915	100	800
P150	51892	51904	51916	100	800
P180	51893	51905	51917	100	800
P220	51894	51906	51918	100	800

8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)

- UPC #'s listed in **Red and Bold** are standard stocking items in Niles, IL and Buena Park, CA.
 - UPC #'s listed in **black** are available from Buena Park, CA and are shipped within 10 business days. Prepaid freight from Buena Park, CA is \$750.
 - 6" (8 VAC-Q) and 8" discs are special order items. The minimum order is 800 discs. Prepaid freight from Buena Park, CA is \$750.
- Contact customer service for ordering requirements (part numbers, pricing, etc.)

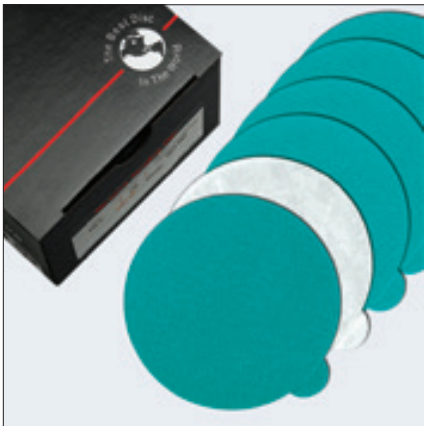
FILM SANDING DISCS

- ★ Film backing – longer life. Strong, yet pliable 0.003 mylar backing. Film offers 2X – 4X life vs. paper discs.
- ★ Zinc stearate coating for less loading and longer life.
- ★ Full phenolic resin bond system.

Q711T Film Backed Disc

New **Q711T DWT & DOR**
PSA DISC
 Aluminum Oxide,
 3 Mill Film Back

- Film backing – longer life. Strong, yet pliable .003 Mylar backing. Film offers up to 4X the life vs. paper discs.
- Longest lasting disc available by up to 300% over paper discs.
- Uniform film backing with “P” graded abrasive for uniform finish.
- Faster rate of cut, more consistent finish and longer life.



Q711T DWT



Q711T DWT-VAC

WHITE ALUMINUM OXIDE



DWT = Disc with Tab
 DOR = Disc on Roll

5" Q711T DWT & DOR

GRIT	UPC #				BX/RL	MASTER PACK
	DOR	DWT	5VAC	8VAC		
P80	51015	51051	51087	51123	100	800
P100	51016	51052	51088	51124	100	800
P120	51017	51053	51089	51125	100	800
P150	51018	51054	51090	51126	100	800
P180	51019	51055	51091	51127	100	800
P220	51020	51056	51092	51128	100	800
P240		51057	51093	51129	100	800
P280		51058	51094	51130	100	800
P320		51059	51095	51131	100	800
P400		51060	51096	51132	100	800
P500		51061	51097	51133	100	800
P600		51062	51098	51134	100	800
P800		51063	51099	51135	100	800
P1000		51064	51100	51136	100	800
P1200		51065	51101	51137	100	800
P2000		51066	51102	51138	100	800

6" Q711T DWT & DOR

GRIT	UPC #				BX/RL	MASTER PACK
	DOR	DWT	6VAC	8VAC-I		
P80	51033	51069	51105	51141	100	800
P100	51034	51070	51106	51142	100	800
P120	51035	51071	51107	51143	100	800
P150	51036	51072	51108	51144	100	800
P180	51037	51073	51109	51145	100	800
P220	51038	51074	51110	51146	100	800
P240		51075	51111	51147	100	800
P280		51076	51112	51148	100	800
P320		51077	51113	51149	100	800
P400		51078	51114	51150	100	800
P500		51079	51115	51151	100	800
P600		51080	51116	51152	100	800
P800		51081	51117	51153	100	800
P1000		51082	51118	51154	100	800
P1200		51083	51119	51155	100	800
P2000		51084	51120	51156	100	800

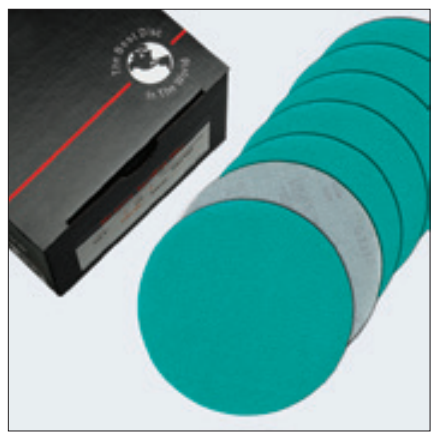
8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)



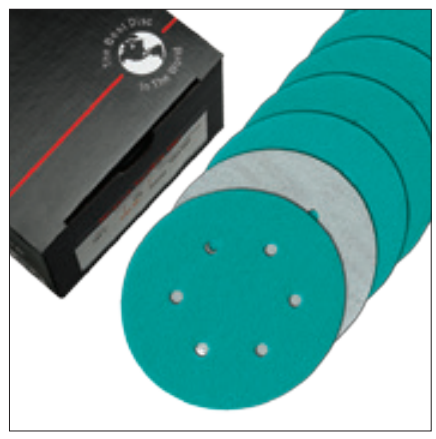
PASCO

Q711T Film Backed Disc (continued)

New **Q711T HOOK & LOOP DISC**
Aluminum Oxide, 3 Mill Film Back



Q711T H&L



Q711T H&L-VAC

WHITE ALUMINUM OXIDE



H&L = Hook & Loop
(or Velcro®)

5" Q711T Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	5VAC	8VAC		
P80	51231	51267	51303	100	800
P100	51232	51268	51304	100	800
P120	51233	51269	51305	100	800
P150	51234	51270	51306	100	800
P180	51235	51271	51307	100	800
P220	51236	51272	51308	100	800
P240	51237	51273	51309	100	800
P280	51238	51274	51310	100	800
P320	51239	51275	51311	100	800
P400	51240	51276	51312	100	800
P500	51241	51277	51313	100	800
P600	51242	51278	51314	100	800
P800	51243		51315	100	800
P1000	51244		51316	100	800
P1200	51245		51317	100	800
P2000	51246		51318	100	800

6" Q711T Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	6VAC	8VAC-I		
P80	51249	51285	51321	100	800
P100	51250	51286	51322	100	800
P120	51251	51287	51323	100	800
P150	51252	51288	51324	100	800
P180	51253	51289	51325	100	800
P220	51254	51290	51326	100	800
P240	51255	51291	51327	100	800
P280	51256	51292	51328	100	800
P320	51257	51293	51329	100	800
P400	51258	51294	51330	100	800
P500	51259	51295	51331	100	800
P600	51260	51296	51332	100	800
P800	51261	51297	51333	100	800
P1000	51262	51298	51334	100	800
P1200	51263	51299	51335	100	800
P2000	51264	51300	51336	100	800

8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)

- UPC #'s listed in **Red and Bold** are standard stocking items in Niles, IL and Buena Park, CA.
 - UPC #'s listed in **black** are available from Buena Park, CA and are shipped within 10 business days. Prepaid freight from Buena Park, CA is \$750.
 - 6" (8 VAC-Q) and 8" discs are special order items. The minimum order is 800 discs. Prepaid freight from Buena Park, CA is \$750.
- Contact customer service for ordering requirements (part numbers, pricing, etc.)

FILM SANDING DISCS

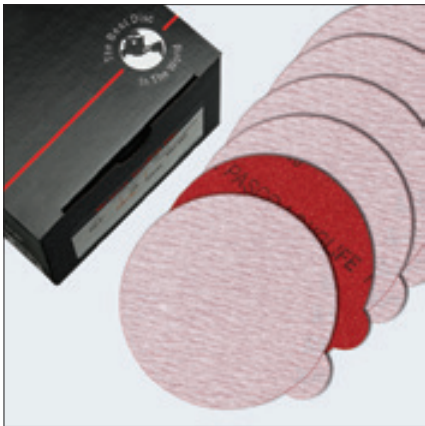
LongLife Film Backed Disc - PASCO Exclusive



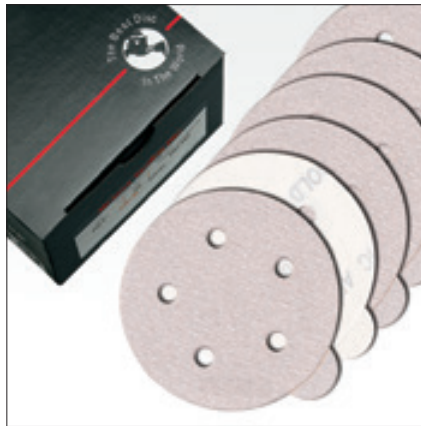
- Heat treated aluminum oxide grain on a strong .003" Mylar backing with full phenolic resin bond for better grain adhesion and longer life.
- Outperforms paper discs by up to 300%! Non-loading zinc stearate treatment.
- Strong yet pliable film for a superior finish.

LOGLIFE DWT & DOR PSA DISC

Aluminum Oxide 3 Mill Film Back



LOGLIFE DWT



LOGLIFE DWT-VAC

ALUMINUM OXIDE



DOR = Disc on Roll
DWT = Disc with Tab

5" LongLife DWT & DOR

GRIT	UPC #				BX/RL	MASTER PACK
	DOR	DWT	5VAC	8VAC		
P60	52380	52404	52428	52452	50	400
P80	52381	52405	52429	52453	100	800
P100	52382	52406	52430	52454	100	800
P120	52383	52407	52431	52455	100	800
P150	52384	52408	52432	52456	100	800
P180	52385	52409	52433	52457	100	800
P220	52386	52410	52434	52458	100	800
P240		52411	52435	52459	100	800
P320		52412	52436	52460	100	800
P400		52413	52437	52461	100	800
P600		52414	52438	52462	100	800
P800		52200	52205	52210	100	800

6" LongLife DWT & DOR

GRIT	UPC #				BX/RL	MASTER PACK
	DOR	DWT	5VAC	8VAC		
P60	52392	52416	52440	52464	50	400
P80	52393	52417	52441	52465	100	800
P100	52394	52418	52442	52466	100	800
P120	52395	52419	52443	52467	100	800
P150	52396	52420	52444	52468	100	800
P180	52397	52421	52445	52469	100	800
P220	52398	52422	52446	52470	100	800
P240		52423	52447	52471	100	800
P320		52424	52448	52472	100	800
P400		52425	52449	52473	100	800
P600		52426	52450	52474	100	800
P800		52220	52225	52230	100	800

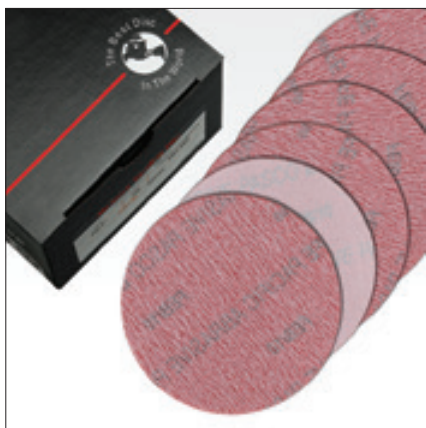
8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)



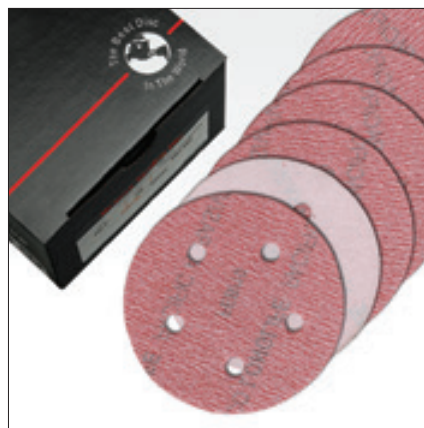
PASCO

LongLife Film Backed Disc - PASCO Exclusive (continued)

New **LOGLIFE HOOK & LOOP DISC** Aluminum Oxide 3 Mill Film Back



LOGLIFE H&L



LOGLIFE H&L-VAC

ALUMINUM OXIDE



H&L = Hook & Loop
(or Velcro®)

5" LongLife Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	5VAC	8VAC		
P60	52524	52548	52572	50	400
P80	52525	52549	52573	100	800
P100	52526	52550	52574	100	800
P120	52527	52551	52575	100	800
P150	52528	52552	52576	100	800
P180	52529	52553	52577	100	800
P220	52530	52554	52578	100	800
P240	52531	52555	52579	100	800
P320	52532	52556	52580	100	800
P400	52533	52557	52581	100	800
P600	52534	52558	52582	100	800
P800	52235	52230	52245	100	800

6" LongLife Hook & Loop

GRIT	UPC #			BOX	MASTER PACK
	VELCRO®	5VAC	8VAC		
P60	52536	52560	52584	50	400
P80	52537	52561	52585	100	800
P100	52538	52562	52586	100	800
P120	52539	52563	52587	100	800
P150	52540	52564	52588	100	800
P180	52541	52565	52589	100	800
P220	52542	52566	52590	100	800
P240	52543	52567	52591	100	800
P320	52544	52568	52592	100	800
P400	52545	52569	52593	100	800
P600	52546	52570	52594	100	800
P800	52250	52255	52260	100	800

8 Rolls / Boxes Per Case = 800 Discs per Master Pack (unless noted differently)

- UPC #'s listed in **Red and Bold** are standard stocking items in Niles, IL and Buena Park, CA.
 - UPC #'s listed in black are available from Buena Park, CA and are shipped within 10 business days. Prepaid freight from Buena Park, CA is \$750.
 - 6" (8 VAC-Q) and 8" discs are special order items. The minimum order is 800 discs. Prepaid freight from Buena Park, CA is \$750.
- Contact customer service for ordering requirements (part numbers, pricing, etc.)

CLOTH SANDING DISCS

CLOTH SANDING DISCS

Cloth "J" Weight, Cloth PSA Discs

New K35F CLOTH PSA DISC - Flexible Aluminum Oxide "J" WGT., Open Coat Disc

- Tough, durable "J" wgt. 65/35% polyester/cotton cloth is an outstanding product for the right applications and is worth the higher cost of cloth disc compared to paper.
- Applications: wood sanding, mold sanding, contour sanding, breaking edges.
- Grit Range: 60 - 220.
- Maximum Life.

ALUMINUM OXIDE



K35F

DWT = Disc with Tab

5" DOR and 6" K35F are special order items and require a minimum order of 800 discs.

5" K35F "J" Cloth PSA

GRIT	DWT UPC #	BOX	MASTER PACK
P60	51657	50	400
P80	51658	50	400
P100	51659	100	800
P120	51660	100	800
P150	51661	100	800
P180	51662	100	800
P220	51663	100	800

New K35SF CLOTH PSA DISC - Super Flexible Aluminum Oxide "J" WGT., Open Coat Disc

- Similar to K35F, but with open coat and super flexed to be pliable and conform to shapes.
- Maximum flexibility.

ALUMINUM OXIDE



K35SF

DWT = Disc with Tab

5" DOR and 6" K35SF are special order items and require a minimum order of 800 discs.

5" K35SF "J" Cloth PSA

GRIT	DWT UPC #	BOX	MASTER PACK
P80	52265	50	400
P100	52266	100	800
P120	52267	100	800
P150	52268	100	800
P180	52269	100	800
P220	52270	100	800



PASCO

RESIN CLOTH PSA DISCS

New Premium AO X-Weight CLOTH PSA DISCS

- X-weight resin bond cloth disc for general purpose work.



SIZE/GRIT	UPC #							BOX QTY	
	36	40	50	60	80	100	120		180
1/2"				53301	53302		53303	53304	50
3/4"				53307	53308	53309	53310	53311	50
1"				53313	53314	53315	53316	53317	50
1-1/2"				53319	53320	53321	53322		50
2"				53326	53327	53328	53329	53330	50
3"				53335	53336	53337	53338	53340	50
5"	52636	52637	52638	52639	52640	52641	52642	52644	50
6"	52647	52648	52649	52650	52651	52652	52653		50
8"	52658			52661	52662				50
12"	52680	52681	52682	52683	52684	52685	52686		25
16"	52691			52694	52695				25
20"	52702			52705	52706	52707	52708		25

ALUMINUM OXIDE

Note: Material available in 24-150-220-320 grits. Contact PASCO customer service for special make pricing, order minimums and lead times.

New Premium ZA Y-Weight CLOTH PSA DISCS

- Y-weight resin bond polyester cloth disc with graining aid for fast cutting action.
- Very cool cutting action and long disc life. Applications: Stainless steel, alloy & aluminum.

SIZE/GRIT	UPC #							BOX QTY
	36	40	50	60	80	100	120	
5"	52714		52716	52717	52718	52719	52720	50
6"	52722		52724	52725	52726		52728	50
8"	52730			52733	52734			50
12"	52746	52747	52748	52749	52750		52752	25
16"	52754			52757	52758			25
20"	52762			52765	52766			25

ZIRCONIA AO

Note: Material available in 24 grit. Contact PASCO customer service for special make pricing, order minimums and lead times.

New Premium R203 Y-Weight CLOTH PSA DISCS - Zirc W/Grinding Aid

- Y-weight resin bond polyester cloth disc with two coatings of grinding aid. Applications: Cast iron, nickel, stainless steel.

SIZE/GRIT	UPC #							BOX QTY
	36	40	50	60	80	100	120	
5"	52771		52773	52774	52775	52776	52777	50
6"	52779			52782	52783			50
8"	52787			52790	52791			50
12"	52803	52804	52805	52806	52807	52808	52809	25
16"	52811	52812	52813	52814	52815		52817	25
20"	52819	52820	52821	52822	52823		52825	25

**ZIRCONIA AO
w/GRINDING AID**

Note: Material available in 24 grit. Contact PASCO customer service for special make pricing, order minimums and lead times.

CLOTH SANDING DISCS

- UPC #'s listed in **Red and Bold** are standard stocking items in Niles, IL and Buena Park, CA.
- UPC #'s listed in **black** are available from Buena Park, CA and are shipped within 10 business days. Prepaid freight from Buena Park, CA is \$750.
- 6" (8 VAC-Q) and 8" discs are special order items. The minimum order is 800 discs. Prepaid freight from Buena Park, CA is \$750. Contact customer service for ordering requirements (part numbers, pricing, etc.)

SANDING DISC PADS



7000 Series Fiberglass Hubbed Disc Pads

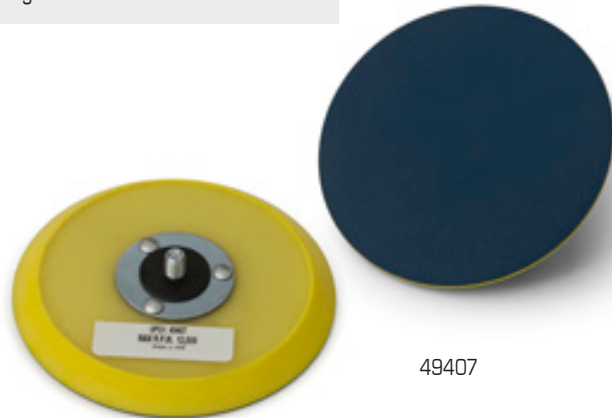


Disc Pad Selection Information

- Firm Pads - designed for use on flat surfaces & with grits 100 and coarser.
- Medium Pads - designed for use on both flat & curved surfaces with grits 120 - 240.
- Soft Pads - designed for use on curved surfaces with grits 240 & finer.

FIBERGLASS HUBBED PSA DISC PADS

- Molded urethane body:
 - Hub, foam & facing are all one molded unit.
 - More durable and longer lasting than bonded pads.
- Durable vinyl face for production sanding.
- Strong hub for heat resistance.

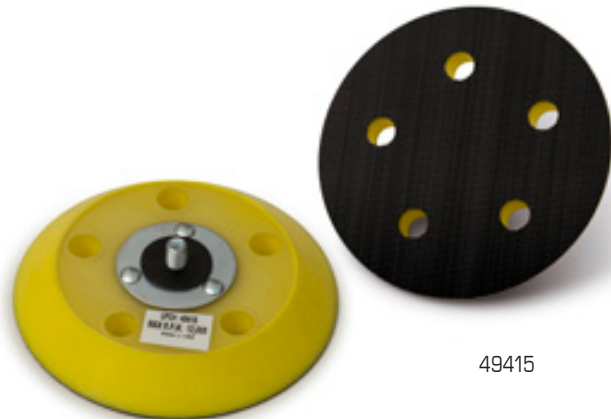


49407

UPC #	PASCO #	DESCRIPTION	RPM	BOX
5" PSA Disc Pads				
49406	70595V	5 x 5/16-24 Medium Back Pad	12,000	1
49407	70515V	5 x 5/16-24 Firm Back Pad	12,000	1
49408	70595VH5	5 x 5/16-24 Med Back Pad - 5 VAC	12,000	1
6" PSA Disc Pads				
49423	70596V	6 x 5/16-24 Medium Fiberglass Back Pad	10,000	1
49424	70516V	6 x 5/16-24 Firm Fiberglass Back Pad	10,000	1
49425	70516-H6	6 x 5/16-24 Firm Fiberglass Back Pad - 6 VAC	10,000	1

FIBERGLASS HUBBED HOOK & LOOP DISC PADS

- Molded urethane body:
 - Hub, foam & facing are all one molded unit.
 - More durable and longer lasting than bonded pads.
- "J" hook face for strong hook & loop attachment and production sanding.
- Strong hub for heat resistance.



49415

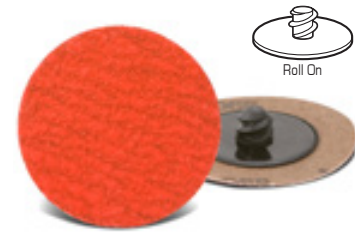
UPC #	PASCO #	DESCRIPTION	RPM	BOX
5" Hook & Loop Disc Pads				
49413	J70595	5 x 5/16-24 Medium Back Pad	12,000	1
49414	J70515	5 x 5/16-24 Firm Back Pad	12,000	1
49415	J70595H5	5 x 5/16-24 Medium Back Pad - 5 VAC	12,000	1
6" Hook & Loop Disc Pads				
49426	J70596	6 x 5/16-24 Medium Fiberglass Back Pad	10,000	1
49427	J70516	6 x 5/16-24 Firm Fiberglass Back Pad	10,000	1
49428	J70596H6	6 x 5/16-24 Med Fiberglass Back Pad - 6VAC	10,000	1

QUICK CHANGE DISCS ROLL-ON

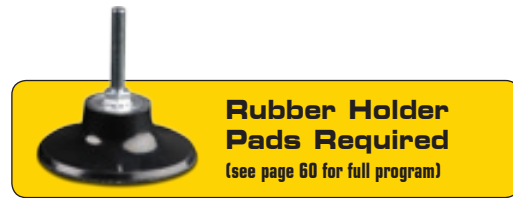
QUICK CHANGE LAMINATED DISCS – ROLL ON

1-1/2 - 3" Quick Change Discs C3 Ceramic, Roll On

- Self-sharpening ceramic grain and cool grinding aid for fast, aggressive cutting action on hard-to-grind materials.
- Polyester backing material for long working life.
- Use on steel, stainless and heat sensitive materials.
- Uses USA developed, automated spin-weld attachment process for fast and secure fastening.



CERAMIC



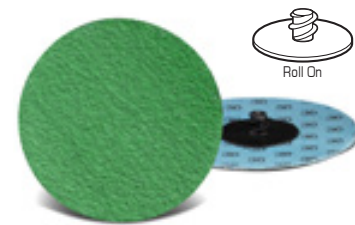
1-1/2" Diameter		25,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59900	24G	100
59901	36G	100
59902	40G	100
59903	50G	100
59904	60G	100
59905	80G	100
59906	100G	100
59907	120G	100

2" Diameter		25,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59910	24G	50
59911	36G	50
59912	40G	50
59913	50G	50
59914	60G	50
59915	80G	50
59916	100G	50
59917	120G	50

3" Diameter		20,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59920	24G	25
59921	36G	25
59922	40G	25
59923	50G	25
59924	60G	25
59925	80G	25
59926	100G	25
59927	120G	25

2-3" Quick Change Discs Zirconia AO w/Grinding Aid, Roll On

- Zirconia aluminum oxide for faster cutting and long working life.
- Strong 2-ply design for flat or contoured work.
- Grinding aid for cooler cutting.
- Uses USA Developed, Automated Spin-Weld Attachment Process for Fast and Secure Fastening.



**ZIRCONIA AO
w/GRINDING AID**



2" Diameter		25,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59587	24G	50
59588	36G	50
59589	40G	50
59590	50G	50
59591	60G	50
59592	80G	50
59593	120G	50

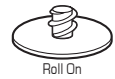
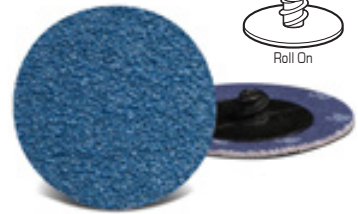
3" Diameter		20,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59594	24G	25
59595	36G	25
59596	40G	25
59597	50G	25
59598	60G	25
59599	80G	25
59600	120G	25

QUICK CHANGE DISCS ROLL-ON

QUICK CHANGE LAMINATED DISCS – ROLL ON

1-1/2 - 4" Quick Change Discs Zirconia AO, Roll On

ZIRCONIA AO



- Zirconia aluminum oxide for faster cutting and long working life.
- Strong 2-ply design for flat or contoured work. Easy roll-on attachment.
- Uses USA Developed, Automated Spin-Weld Attachment Process for Fast and Secure Fastening.

1 1/2" Diameter		25,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59717	24G	100
59560	36G	100
59561	40G	100
59562	50G	100
59563	60G	100
59564	80G	100

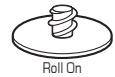
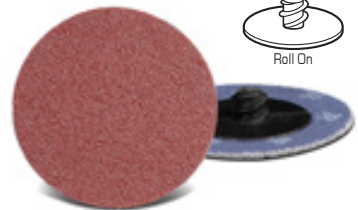
3" Diameter		20,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59719	24G	25
59570	36G	25
59571	40G	25
59572	50G	25
59573	60G	25
59574	80G	25

2" Diameter		25,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59718	24G	50
59565	36G	50
59566	40G	50
59567	50G	50
59568	60G	50
59569	80G	50

4" Diameter		12,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59720	24G	25
59575	36G	25
59576	40G	25
59577	50G	25
59578	60G	25
59579	80G	25

1-1/2 - 4" Quick Change Discs Aluminum Oxide, Roll On

ALUMINUM OXIDE



- Aluminum oxide for long working life.
- Strong 2-ply design for flat or contoured work. Easy roll-on attachment.
- Uses USA Developed, Automated Spin-Weld Attachment Process for Fast and Secure Fastening.

1 1/2" Diameter		25,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59512	24G	100
59513	36G	100
59514	40G	100
59515	50G	100
59516	60G	100
59517	80G	100
59518	100G	100
59519	120G	100

3" Diameter		20,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59536	24G	25
59537	36G	25
59538	40G	25
59539	50G	25
59540	60G	25
59541	80G	25
59542	100G	25
59543	120G	25

2" Diameter		25,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59524	24G	50
59525	36G	50
59526	40G	50
59527	50G	50
59528	60G	50
59529	80G	50
59530	100G	50
59531	120G	50
59534	240G	50

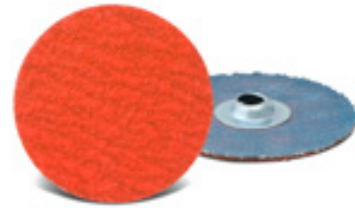
4" Diameter		12,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59548	24G	25
59549	36G	25
59550	40G	25
59551	50G	25
59552	60G	25
59553	80G	25
59554	100G	25
59555	120G	25

QUICK CHANGE DISCS TURN-ON

QUICK CHANGE LAMINATED DISCS - TURN ON

1-1/2 - 3" Quick Change Discs, C3 Ceramic, Turn On

- Self-sharpening ceramic grain and cool grinding aid for fast, aggressive cutting action on hard-to-grind materials.
- Polyester backing material for long working life.
- Use on steel, stainless and heat sensitive materials.



CERAMIC



Rubber Holder Pads Required
(see page 60 for full program)

1-1/2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59940	24G	100
59941	36G	100
59942	40G	100
59943	50G	100
59944	60G	100
59945	80G	100
59946	100G	100
59947	120G	100

2" Diameter 25,000 R.P.M.

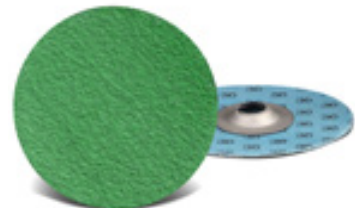
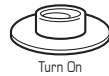
UPC#	SPEC.	CARTON QTY
59950	24G	50
59951	36G	50
59952	40G	50
59953	50G	50
59954	60G	50
59955	80G	50
59956	100G	50
59957	120G	50

3" Diameter 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59960	24G	25
59961	36G	25
59962	40G	25
59963	50G	25
59964	60G	25
59965	80G	25
59966	100G	25
59967	120G	25

2-3" Quick Change Discs Zirconia AO w/Grinding Aid, Turn On

- Zirconia aluminum oxide for faster cutting and long working life.
- Strong 2-ply design for flat or contoured work.
- Grinding aid for cooler cutting.



ZIRCONIA AO
w/GRINDING AID



2" Diameter 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
59696	24G	50
59697	36G	50
59698	40G	50
59699	50G	50
59700	60G	50
59701	80G	50
59702	120G	50

3" Diameter 20,000 R.P.M.

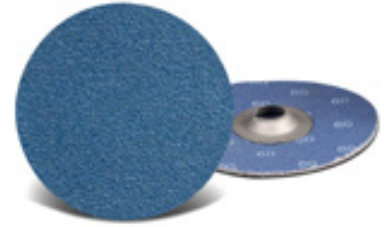
UPC#	SPEC.	CARTON QTY
59703	24G	25
59704	36G	25
59705	40G	25
59706	50G	25
59707	60G	25
59708	80G	25
59709	120G	25

QUICK CHANGE DISCS TURN-ON

QUICK CHANGE LAMINATED DISCS - TURN ON

1-1/2 - 4" Quick Change Discs Zirconia AO, Turn On

- Zirconia aluminum oxide for faster cutting and long working life.
- Strong 2-ply design for flat or contoured work.



ZIRCONIA



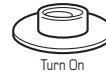
1-1/2" Diameter		25,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59668	24G	100
59669	36G	100
59670	40G	100
59671	50G	100
59672	60G	100
59673	80G	100

2" Diameter		25,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59722	24G	50
59674	36G	50
59675	40G	50
59676	50G	50
59677	60G	50
59678	80G	50

3" Diameter		20,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59723	24G	25
59679	36G	25
59680	40G	25
59681	50G	25
59682	60G	25
59683	120G	25

1-1/2 - 4" Quick Change Discs Aluminum Oxide, Turn On

- Aluminum oxide for long working life.
- Strong 2-ply design for flat or contoured work.



ALUMINUM OXIDE



1-1/2" Diameter		25,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59621	24G	100
59622	36G	100
59623	40G	100
59624	50G	100
59625	60G	100
59626	80G	100
59627	100G	100
59628	120G	100

2" Diameter		25,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59633	24G	50
59634	36G	50
59635	40G	50
59636	50G	50
59637	60G	50
59638	80G	50
59639	100G	50
59640	120G	50

3" Diameter		20,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59645	24G	25
59646	36G	25
59647	40G	25
59648	50G	25
59649	60G	25
59650	80G	25
59651	100G	25
59652	120G	25

4" Diameter		12,000 R.P.M.
UPC#	SPEC.	CARTON QTY
59657	24G	25
59658	36G	25
59659	40G	25
59660	50G	25
59661	60G	25
59662	80G	25
59663	100G	25
59664	120G	25

SURFACE CONDITIONING

QUICK CHANGE DISCS - SURFACE CONDITIONING

Grit Comparison Chart

	GRAIN	COLOR	STANDARD	HD
Coarse	A/O	Brown	60	50-60
Medium	A/O	Maroon	80-120	60-100
Very Fine	A/O	Blue	180-240	-
Super Fine	S/C	Gray	240-320	-

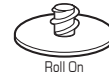
Coated Quick Change Discs on pages 34-38.

2-4" Quick Change Discs - Surface Conditioning

- For stainless steel, and ferrous & non-ferrous metals.
- Premium** - Blending and rust/burr removal
- Finish Pro** - High performance design for demanding cleaning, deburring and finishing.



Uses USA Developed, Automated Spin-Weld Attachment Process for Fast and Secure Fastening.



Roll On

SIZE	RPM	DENSITY / GRAIN / GRADE	PREMIUM SURFACE CONDITIONING DISCS UPC#	FINISH PRO SURFACE CONDITIONING DISCS UPC#	CARTON QTY
2"	25,000	Coarse - Brown	59503	New 59743	50
		Medium - Maroon	59504	59744	
		A Very Fine - Blue	59505	59745	
		S Ultra Fine - Grey	59608		
3"	20,000	Coarse - Brown	59506	59746	25
		Medium - Maroon	59507	59747	
		A Very Fine - Blue	59508	59748	
		S Ultra Fine - Grey	59609		
4"	12,000	Coarse - Brown	59509		25
		Medium - Maroon	59510		
		A Very Fine - Blue	59511		

Turn On

SIZE	RPM	DENSITY / GRAIN / GRADE	PREMIUM SURFACE CONDITIONING DISCS UPC#	FINISH PRO SURFACE CONDITIONING DISCS UPC#	CARTON QTY
2"	25,000	Coarse - Brown	59610	New 59749	50
		Medium - Maroon	59611	59750	
		Very Fine - Blue	59612	59751	
3"	20,000	Coarse - Brown	59614	59752	25
		Medium - Maroon	59615	59753	
		Very Fine - Blue	59616	59754	

Heavy Duty 2-3" Quick Change Discs - Surface Conditioning, Roll On

- For steel, stainless steel and ferrous & non-ferrous metal.
- Heavy Duty - Aggressive surface conditioning discs for tough cleaning, deburring and finishing.

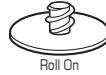


SIZE	RPM	DENSITY / GRAIN / GRADE	HEAVY DUTY SURFACE CONDITIONING DISCS UPC#	CARTON QTY
2"	25,000	Coarse - Brown	New 59739	50
		Medium - Maroon	59740	
3"	20,000	Coarse - Brown	59741	25
		Medium - Maroon	59742	

FLAP WHEELS & HOLDER PADS

Rubber Holder Pads - 1-1/2 - 4" Roll On / Turn On

- Medium grade reinforced rubber pad holder.
- 59738 is our standard 2" turn on pad.
- One piece in plastic bag with label.



Roll On - External Thread

UPC#	SPEC.	CARTON QTY
59728	1" Dia. x 1/4" / Roll On	1
59730	1-1/2" Dia. x 1/4" / Roll On	1
59732	2" Dia. x 1/4" / Roll On	1
59734	3" Dia. x 1/4" / Roll On	1
59736	4" Dia. x 1/4" / Roll On	1



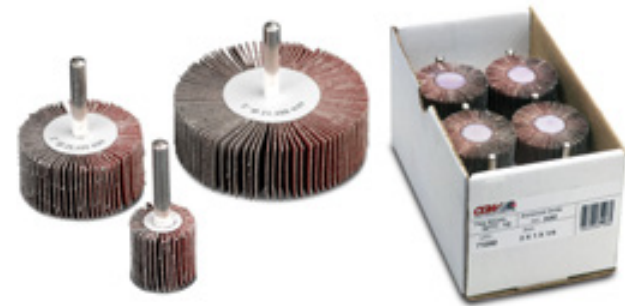
Turn On - Internal Thread

UPC#	SPEC.	CARTON QTY
59729	1" Dia. x 1/4" / Turn On	1
59731	1-1/2" Dia. x 1/4" / Turn On	1
59733	2" Dia. x 1/4" / M6	1
59735	3" Dia. x 1/4" / Turn On	1

AO-Flex Flap Wheels: 1/4" Shank

Flexible material with premium cut rate

- Premium quality AO flap wheel made with a flexible x-wt. cotton backing for faster cut rate vs. traditional AO flap wheels.
- Flexible, yet strong flaps for easy working on hard-to-reach places.
- Fast and cool cutting action.
- Use on ferrous and non-ferrous metals.



5/8 x 5/8 x 1/4 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
70211	60	10
70212	80	10

3/4 x 3/4 x 1/4 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
71000	60	10
71001	80	10
71002	120	10

1 x 1 x 1/4 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
71033	40	10
71034	60	10
71035	80	10
71036	120	10

1-1/2 x 1 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
71040	40	10
71041	60	10
71042	80	10
71043	120	10

2 x 1 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
71088	40	10
71089	60	10
71090	80	10
71091	120	10

2-1/2 x 1 x 1/4 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
71114	60	10
71115	80	10
71116	120	10

3 x 1 x 1/4 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
71147	40	10
71148	60	10
71149	80	10
71150	120	10

FLAP WHEELS - 1/4" SHANK

AO-Firm Flap Wheels: 1/4" Shank

- Firm, quality aluminum oxide coated abrasive material. The flaps, arranged like a fan around the shaft of the tool, provide for consistent cutting action, maximum performance and long life.
- Use on all ferrous and non-ferrous materials, stainless steel, iron, brass, aluminum, plastic, fiberglass, wood and glass.
- Excellent for working in small, difficult to reach places.
- CGW flap wheels have more flaps compared to leading flap wheel manufacturers.



ALUMINUM OXIDE



3/4 x 3/4 x 1/4 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
37098	60	10
37099	80	10
37100	120	10
37103	180	10
37104	240	10
37105	320	10

1 x 5/8 x 1/4 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39903	60	10
39904	80	10
39905	120	10

1 x 1 x 1/4 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39907	40	10
39908	60	10
39909	80	10
39910	120	10
39912	180	10
39913	240	10
39914	320	10

1-1/2 x 1/2 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39915	60	10
39916	80	10
39917	120	10
41032	180	10
41035	240	10
41510	320	10

1-1/2 x 1 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39920	40	10
39921	60	10
39922	80	10
39923	120	10
41036	180	10
41037	240	10
41630	320	10

2 x 1/2 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39924	40	10
39925	60	10
39926	80	10
39927	120	10
41038	180	10
41039	240	10
41631	320	10

2 x 3/4 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39928	60	10
39929	80	10
39930	120	10
40002	150	10

2 x 1 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39931	40	10
39932	60	10
39933	80	10
39934	120	10
39935	180	10
39936	240	10
39937	320	10

2 x 1-1/2 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
40003	40	10
40004	60	10
40005	80	10
40006	120	10

2 x 2 x 1/4 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39938	60	10
39939	80	10

2-1/2 x 1/2 x 1/4 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41015	60	10
41016	80	10
41017	120	10

AO-FIRM FLAP WHEELS - 1/4" SHANK

FLAP WHEELS - 1/4"-20 SHANK

FLAP WHEELS - 1/4" SHANK

AO-Firm Flap Wheels: 1/4" Shank

2-1/2 x 1 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39941	60	10
39942	80	10
39943	120	10
41500	180	10
41501	240	10
41511	320	10

3 x 1 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39947	40	10
39948	60	10
39949	80	10
39950	120	10
39951	180	10
39952	240	10
39953	320	10

2-1/2 x 1-1/2 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41121	60	10
41122	80	10
41123	120	10

3 x 1-1/2 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41513	60	10
41514	80	10
41515	120	10
41516	180	10
41517	240	10
41518	320	10

3 x 1/2 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41018	60	10
41019	80	10
41020	120	10
41502	180	10
41503	240	10
41504	320	10

3 x 2 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41044	40	10
39954	60	10
39955	80	10
39956	120	10

Zirconia Flap Wheels: 1/4" Shank

- Zirconia grain provides sharper cutting and longer life than aluminum oxide flap wheels.
- Excellent for smoothing and deburring.
- Durable cotton backing.
- For work on steel, stainless steel, non-ferrous metals and alloys.



ZIRCONIA



1 x 1 x 1/4

30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41519	40	10
41520	60	10
41521	80	10

2 x 1 x 1/4

25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41525	40	10
41526	60	10
41527	80	10

1-1/2 x 1 x 1/4

25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41522	40	10
41523	60	10
41524	80	10

3 x 1 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41528	40	10
41529	60	10
41530	80	10

AO-Firm Flap Wheels: 1/4"-20 Shank

- CGW flap wheels have more flaps compared to leading flap wheel manufacturers.

1 x 5/8 x 1/4-20 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39960	60	10
39961	80	10
39962	120	10

1 x 1 x 1/4-20 30,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39964	40	10
39965	60	10
39966	80	10
39967	120	10
39968	180	10

1-1/2 x 1 x 1/4-20 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39977	40	10
39978	60	10
39979	80	10
39980	120	10

2 x 1/2 x 1/4-20 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
40007	60	10
40008	80	10
40009	120	10

Interleaf Flap Wheels

- Alternating flaps of non-woven and coated abrasive materials for fast, uniform surface preparation and finishes.
- Medium grade wheels easily clean, blend, and debur aluminum & stainless steels, and ferrous & non-ferrous metals.
- Very fine grade wheels for satin finishing on aluminum & stainless steels, and ferrous and non-ferrous metals.
- Spindle mount for quick and easy changes.

2 x 1 x 1/4 11,000 R.P.M.

UPC#	SPEC.	CARTON QTY
36207	Medium 60 Grit	10
36208	Medium 80 Grit	10
36209	Very Fine 120 Grit	10
36210	Very Fine 180 Grit	10

48250

ALUMINUM OXIDE



2 x 1 x 1/4-20 25,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39988	40	10
39989	60	10
39990	80	10
39991	120	10
39992	180	10

2 1/2 x 1 x 1/4-20 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
39998	60	10
39999	80	10
41000	120	10

3 x 1/2 x 1/4-20 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41608	60	10

3 x 1 x 1/4-20 20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41004	40	10
41005	60	10
41006	80	10
41007	120	10
41008	180	10

1/4-20 Adaptor

UPC#	SPEC.	CARTON QTY
48250	1/4-20 Adaptor	1



3 x 1 x 1/4 8,000 R.P.M.

UPC#	SPEC.	CARTON QTY
36211	Medium 60 Grit	10
36212	Medium 80 Grit	10
36213	Very Fine 120 Grit	10
36214	Very Fine 180 Grit	10

3 x 2 x 1/4 8,000 R.P.M.

UPC#	SPEC.	CARTON QTY
36250	EXTRA Coarse 60 Grit	10
36215	Medium 60 Grit	10
36216	Medium 80 Grit	10
36217	Very Fine 120 Grit	10
36218	Very Fine 180 Grit	10

MINI FLAP WHEELS

Mini Flap Wheels

- Quality aluminum oxide grain with X-flex weight backing.
- Use on stainless steel, steel, alloyed steel, nonferrous materials, aluminum, titanium, and glass.



3/8 x 3/8 x 1/8			38,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
70057	60	10	
70058	80	10	
70059	120	10	
70060	180	10	
70061	240	10	

5/8 x 5/8 x 1/8			38,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
70062	60	10	
70063	80	10	
70064	120	10	
70065	180	10	
70066	240	10	
70067	320	10	

3/4 x 3/16 x 1/8			38,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
70068	60	10	
70069	80	10	
70070	120	10	
70071	180	10	
70072	240	10	
70073	320	10	

3/4 x 3/8 x 1/8			38,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
70074	60	10	
70075	80	10	
70076	120	10	
70077	180	10	
70078	240	10	
70079	320	10	

3/4 x 3/4 x 1/8			38,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
70080	60	10	
70081	80	10	
70082	120	10	
70083	180	10	
70084	240	10	
70085	320	10	

1-3/16 x 3/16 x 1/8			38,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
70086	60	10	
70087	80	10	
70088	120	10	
70089	180	10	

1-3/16 x 3/8 x 1/8			38,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
70090	60	10	
70091	80	10	
70092	120	10	
70093	180	10	

Non Woven Flap Wheels

- 100% non woven aluminum oxide flap wheels provide excellent flexibility and conforms to work surface.



1 x 1 x 1/4			12,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36450	Coarse (Tan)	10	
36451	Medium (Maroon)	10	
36452	Fine (Blue)	10	

2 x 1 x 1/4			12,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36453	Coarse (Tan)	10	
36454	Medium (Maroon)	10	
36455	Fine (Blue)	10	

3 x 1 x 1/4			10,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36456	Coarse (Tan)	10	
36457	Medium (Maroon)	10	
36458	Fine (Blue)	10	

3 x 2 x 1/4			10,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36459	Coarse (Tan)	10	
36460	Medium (Maroon)	10	
36461	Fine (Blue)	10	

FLAP WHEEL DRUMS

Metal Surface Flap Wheel Drum Sander

- Machine provides shadow free, transitionless finishes on metal.
- Electronic control and speed preselection allows for versatility.
- 5 Speed setting: 1,200-3,700 RPM.
- All products on pages 46-49 fit this tool.



Metal Surface Flap Wheel Drum Sander

UPC#	DESCRIPTION	POWER INPUT	POWER OUTPUT	TOOL WIDTH	TOOL FIXTURE
75000	LP1503	11 Amp	700 Watts	100 mm	19 mm

Flap Wheel Drums with Keyhole Arbor

- AO:** Flexible, quality aluminum oxide coated flaps easily conform to work pieces.
 - Cool finishing
 - For ferrous and non-ferrous metals.
- ZA:** Firm, zirconia aluminum oxide coated flaps for long working life.
 - Fast and cool finishing
 - For steel, stainless and non-ferrous metals.



CGW TV
Scan the QR code with your smart phone to visit our video channel

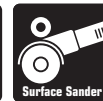


ALUMINUM OXIDE

ZIRCONIA

Flap Wheel Drum with Keyhole

SIZE	TOOL FIXTURE	GRIT	RPM	CARTON QTY.	ALUMINUM OXIDE UPC #	ZIRCONIA ALUMINUM OXIDE UPC #
4 x 4 x 3/4	19.1 mm	40	5,800	5	72100	72106
4 x 4 x 3/4	19.1 mm	60	5,800	5	72101	72107
4 x 4 x 3/4	19.1 mm	80	5,800	5	72102	72108
4 x 4 x 3/4	19.1 mm	120	5,800	5	72103	72109



5/8 - 11 Flap Wheel Drum

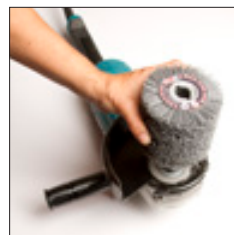
Right Angle Grinder & Straight Grinder Adaptor Kit

- Allows CGW keyhole arbor drums to fit onto 5/8 - 11 spindles - including competitive surface finishing machines and variable speed right angle grinders.
- 3-piece set includes one spindle sleeve, one screw and one Allen wrench.
- Available as a set or individually.

RIGHT ANGLE ADAPTER KIT	UPC #
3 piece set	48572



STEP 1. screw on the sleeve



STEP 2. put flap wheel over the sleeve



STEP 3. screw on the nut



STEP 4. tighten nut with Allen wrench

Reduced Price Samples ▼

Samples Available for Testing - Contact CGW for Details

FLAP WHEEL DRUMS

Interleaf Flap Wheel Drums with Keyhole Arbor

- Alternating flaps of non-woven and aluminum oxide coated abrasive materials for fast, uniform finishes.
- Medium grade drums provide consistent satin finishes.



5/8 -11 Drum Right Angle & Straight Grinder Adaptor Kit
UPC #48572 (see page 65)

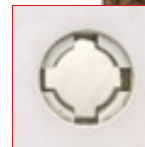
ALUMINUM OXIDE

Interleaf Flap Wheel Drum with Keyhole

SIZE	GRIT	RPM	CARTON QTY.	UPC#
4 x 4 x 3/4	40 / Medium	5,800	5	72110
4 x 4 x 3/4	60 / Medium	5,800	5	72111
4 x 4 x 3/4	80 / Medium	5,800	5	72112
4 x 4 x 3/4	120 / Medium	5,800	5	72113
4 x 4 x 3/4	180 / Medium	5,800	5	72114
4 x 4 x 3/4	240 / Medium	5,800	5	72115

Non-Woven Flap Wheel Drums with Keyhole Arbor

- Quality, non-woven material impregnated with aluminum oxide grain for consistent finishes.
- For polishing, blending, deburring, cleaning and brightening stainless steel, aluminum, brass, copper and other alloys.



5/8 -11 Drum Right Angle & Straight Grinder Adaptor Kit
UPC#48572 (see page 65)

ALUMINUM OXIDE

Non-Woven Flap Wheel Drum with Keyhole

SIZE	GRIT	RPM	CARTON QTY.	UPC#
4 x 4 x 3/4	Coarse	5,800	5	72116
4 x 4 x 3/4	Medium	5,800	5	72117
4 x 4 x 3/4	Fine	5,800	5	72118
4 x 4 x 3/4	Very Fine	5,800	5	72119



CGW TV
Scan the QR code with your smart phone to visit our video channel



Reduced Price Samples ▼

Samples Available for Testing - Contact CGW for Details

WIRE BRUSH DRUMS

Abrasive Nylon Flap Wheel Drums with Keyhole Arbor

- Abrasive nylon drums remove materials through abrasion. Lower working speeds and lighter pressure is recommended when using abrasive nylon drums.
- Abrasive nylon drums are flexible and are ideal for applications that require a drum with "give".
- Chemical resistant configuration for longer lasting life.



72136



5/8 - 11 Adaptor Kit
UPC #48572 (see page 65)

Nylon Flap Wheel Drums

SIZE	GRIT	RPM	CARTON QTY.	UPC#
4 x 2-3/4 x 3/4	46	5,700	1	72131
4 x 2-3/4 x 3/4	80	5,700	1	72132
4 x 4 x 3/4	46	5,700	1	72127
4 x 4 x 3/4	80	5,700	1	72126
Plastic Spacer		Makes 2-3/4" length drums 4"		72136

Stainless Steel Wire Flap Wheel Drums with Keyhole Arbor

- Stainless steel wire is rust resistant; does not leave an oxidizing deposit on workpieces.
- Designed to be high temperature resistant.



72136



5/8 - 11 Adaptor Kit
UPC #48572 (see page 65)

Stainless Steel Wire Wheel Drums

SIZE	WIRE SIZE	RPM	CARTON QTY.	UPC#
4 x 2-3/4 x 3/4	.008	5,700	1	72135
4 x 4 x 3/4	.008	5,700	1	72130
Plastic Spacer		Makes 2-3/4" length drums 4"		72136



CGW TV
Scan the QR code with your smart phone to visit our video channel



Reduced Price Samples ▼

Samples Available for Testing - Contact CGW for Details

FLAP WHEEL DRUMS

WIRE BRUSH DRUMS

FLAP WHEEL DRUMS

Brass Plated Wire Flap Wheel Drums with Keyhole Arbor

- Brass plated drums have wire that is softer than standard wire and will not scratch harder metals.
- Brass plated wire does not generate sparks.
- cores aluminum for paint preparation.



72136



5/8 - 11 Adaptor Kit
UPC #48572 (see page 65)

Brass Plated Wire Wheel Drums

SIZE	WIRE SIZE	RPM	CARTON QTY.	UPC#
4 x 2-3/4 x 3/4	.008	5,700	1	72134
4 x 2-3/4 x 3/4	.012	5,700	1	72133
4 x 4 x 3/4	.008	5,700	1	72128
4 x 4 x 3/4	.012	5,700	1	72129
Plastic Spacer		Makes 2-3/4" length drums 4"		72136

4 x 2-3/4 x 5/8-11 Flap Wheel Drums

- Available in Abrasive Nylon, Brass Plated Wire and Stainless Steel Wire.



72136



4 x 2-3/4 x 5/8-11 Wheel Drums

SIZE	SPEC	RPM	CARTON QTY.	UPC#
Abrasive Nylon				
4 x 2-3/4 x 5/8-11	46 Grit	5,700	1	72121
4 x 2-3/4 x 5/8-11	80 Grit	5,700	1	72122
Brass Plated Wire				
4 x 2-3/4 x 5/8-11	.012 Wire	5,700	1	72123
4 x 2-3/4 x 5/8-11	.008 Wire	5,700	1	72124
Stainless Steel Wire				
4 x 2-3/4 x 5/8-11	.008 Wire	5,700	1	72125



CGW TV
Scan the QR code with your smart phone to visit our video channel



Reduced Price Samples ▼

Samples Available for Testing - Contact CGW for Details

UNMOUNTED FLAP WHEELS

Unmounted Flap Wheels

- Quality aluminum oxide grain for consistent finishes.
- Unmounted flap wheels are recommended for cleaning, blending, deburring and finishing.
- Use on metal surfaces.

ALUMINUM OXIDE



4 x 1 x 5/8

8,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41025	40 Grit	10
41026	60 Grit	10
41027	80 Grit	10
41029	120 Grit	10
41031	180 Grit	10

6 x 2 x 1

5,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41065	40 Grit	5
41066	60 Grit	5
41067	80 Grit	5
41069	120 Grit	5
41071	180 Grit	5

6 x 1 x 1

5,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41045	40 Grit	5
41046	60 Grit	5
41047	80 Grit	5
41049	120 Grit	5
41051	180 Grit	5

8 x 1 x 1

4,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41085	40 Grit	3
41086	60 Grit	3
41087	80 Grit	3
41089	120 Grit	3
41091	180 Grit	3

6 x 1 1/2 x 1

5,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41055	40 Grit	5
41056	60 Grit	5
41057	80 Grit	5
41059	120 Grit	5
41061	180 Grit	5

8 x 2 x 1

4,000 R.P.M.

UPC#	SPEC.	CARTON QTY
41096	60 Grit	3
41097	80 Grit	3
41099	120 Grit	3
41101	180 Grit	3

UNMOUNTED FLAP WHEELS

SHOP ROLLS

SHOP ROLLS

Premium Shop Rolls

- Premium shop roll backing is more flexible for longer working life.
- High quality friable grain.
- Material is easily torn to the length and/or shape needed.
- For multiple types of work including cleaning, deburring and polishing.



ALUMINUM OXIDE



Shop Rolls - Premium Aluminum Oxide

GRIT	CARTON QTY	1" X 50 YDS.	1-1/2" X 50 YDS.	2" X 50 YDS.	MASTER PACK QTY
40	1	63092	63095	63098	10
60	1	63062	63072	63082	10
80	1	63063	63073	63083	10
100	1	63064	63074	63084	10
120	1	63065	63075	63085	10
150	1	63066	63076	63086	10
180	1	63067	63077	63087	10
220	1	63068	63078	63088	10
240	1	63069	63079	63089	10
320	1	63070	63080	63090	10
400	1	63071	63081	63091*	10
600	1	63093	63096	63099*	10

*Items in gray are discontinued and only available while supplies last.

Economy Shop Rolls

- Economy shop rolls for general purpose work.

ALUMINUM OXIDE



Shop Rolls - Economy Aluminum Oxide

GRIT	CARTON QTY	1" X 50 YDS.	MASTER PACK QTY	1-1/2" X 50 YDS.	MASTER PACK QTY	2" X 50 YDS.	MASTER PACK QTY
60	1	63002	20	63022	10	63042	10
80	1	63003	20	63023	10	63043	10
100	1	63004	20	63024	10	63044	10
120	1	63005	20	63025	10	63045	10
150	1	63006	20	63026	10	63046	10
180	1	63007	20	63027	10	63047	10
220	1	63008	20	63028	10	63048	10
240	1	63009	20	63029	10	63049	10
320	1	63011	20	63031	10	63051	10
400	1	63012	20	63032	10	63052	10

SANDING SHEETS

9 X 11 SANDING SHEETS



CSA Stearated Sheets

Aluminum Oxide, "A" Weight, Open Coat, Stearated

- Aluminum oxide grain treated with zinc stearate for non-loading lubricating effect.
- The best finishing sheet in the industry.
- For sanding metal or wood.

9" x 11" CSA Stearated Sheets

GRIT	UPC #	PASCO #	SLEEVE	WEIGHT	PACK	CASE
400	44836	919510	100	A	1	1000
320	44837	919520	100	A	1	1000
280	44838	919530	100	A	1	1000
220	44839	919550	100	A	1	1000
150	44840	919570	100	A	1	1000
120	44841	919580	100	A	1	1000
100	44842	919590	100	A	1	1000



ALUMINUM OXIDE

CSA



Cabinet & Finishing Paper Sheets

Aluminum Oxide, "A" & "D" Weight, Open Coat

- Aluminum oxide grain coated on "D" weight paper for "Cabinet Paper"
- and on "A" weight paper for "Finishing Paper".
- Used for hand sanding or on random orbital sanders on both wood and metal. Open coat is used to reduce loading and give longer life.

9" x 11" Cabinet & Finishing Sheets

GRIT	UPC #	PASCO #	SLEEVE	WEIGHT	PACK	CASE
220	44881	919390	100	A	1	1000
180	44882	919400	100	A	1	1000
150	44883	919410	100	A	1	1000
120	44884	919420	100	A	1	1000
100	44885	919430	100	A	1	1000
80	44886	919440	50	D	1	500
60	44887	919450	50	D	1	500
50	44888	919460	50	D	1	500



ALUMINUM OXIDE

C&F



Champ™ Sheets

Aluminum Oxide, "B" Weight, Open Coat, Stearated

- Aluminum oxide grain treated with a film of zinc stearate for lubricating effect.
- Compare to Norton A275 & Carborundum Premier. For sanding metal or wood.

9" x 11" Champ™ Sheets

GRIT	UPC #	PASCO #	SLEEVE	WEIGHT	PACK	CASE
320	44829	919740	100	B	1	1000
220	44830	919770	100	B	1	1000
180	44831	919780	100	B	1	1000
150	44832	919790	100	B	1	1000
120	44833	919800	100	B	1	1000
100	44834	919810	100	B	1	1000
80	44835	919820	50	B	1	500



ALUMINUM OXIDE

Champ™

SANDING SHEETS

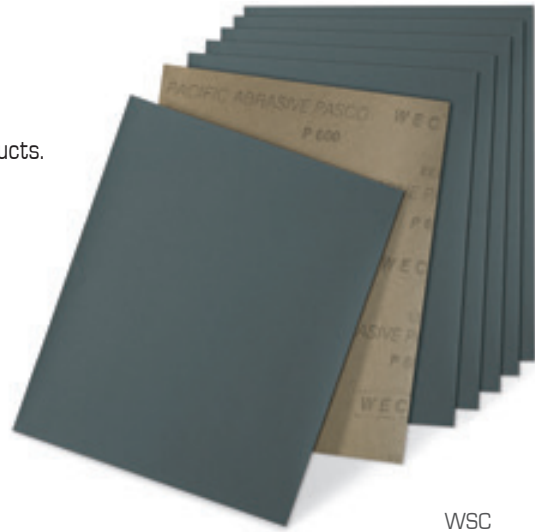
9 X 11 SANDING SHEETS

New **WSC - Silicon Carbide Waterproof Paper Sheets**
Silicon Carbide, "B" & "C" Weight

- Hand or random orbital sanders. Can be used wet or dry.
- For metal working applications and final sanding of lacquered wood products.
- Backing is latex paper.

9" x 11" WSC Sheets

GRIT	UPC #	PASCO #	SLEEVE	WEIGHT	PACK	CASE
1200	44865	919010	100	B	1	1000
1000	44866	919020	100	B	1	1000
800	44867	919030	100	B	1	1000
600	44843	919040	100	B	1	1000
500	44868	919050	100	B	1	1000
400	44844	919060	100	B	1	1000
320	44845	919070	100	B	1	1000
240	44871	919090	100	B	1	1000
220	44846	919100	100	C	1	1000
180	44847	919110	100	C	1	1000
150	44872	919120	100	C	1	1000
120	44848	919130	100	C	1	1000
100	44849	919140	50	C	1	500
80	44873	919150	50	C	1	500



WSC

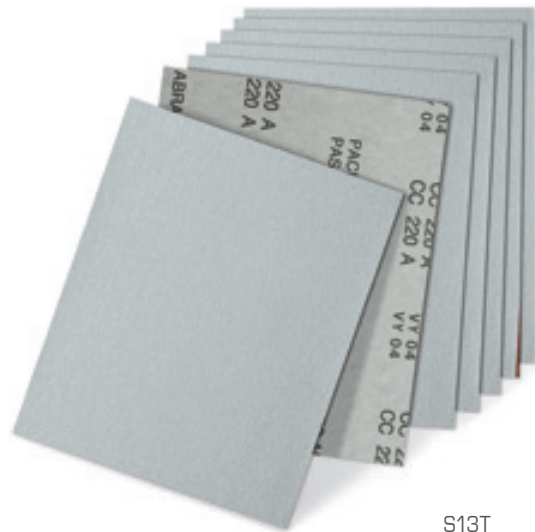
SILICON CARBIDE

New **S13T - Silicon Carbide Stearated Sheets**
Silicon Carbide, "A Weight, Closed Coat

- Silicon carbide grain treated with zinc stearate for non-loading lubricating effect.
- For sanding and finishing of very hard surfaces such as lacquer and enamels.

9" x 11" S13T Sheets

GRIT	UPC #	PASCO #	SLEEVE	WEIGHT	PACK	CASE
400	44850	911030	100	A	1	500
320	44851	911050	100	A	1	500
280	44852	911060	100	A	1	500
240	44853	911070	100	A	1	500
220	44854	911080	100	A	1	500
180	44855	911090	100	A	1	500
150	44856	911100	100	A	1	500
120	44857	911110	100	A	1	500
100	44858	911120	100	A	1	500
80	44859	911130	50	A	1	250



S13T

SILICON CARBIDE

New **DAF - Aluminum Oxide Cloth Sheets**

Aluminum Oxide, "J" Weight, Closed Coat

- Used extensively for metal working and maintenance departments.

9" x 11" DAF Sheets

GRIT	UPC #	PASCO #	SLEEVE	WEIGHT	PACK	CASE
600	44915		50	J	1	500
400	44917	912100	50	J	1	500
320	44919	912110	50	J	1	500
240	44921	912130	50	J	1	500
220	44922	912140	50	J	1	500
180	44923	912150	50	J	1	500
150	44860	912160	50	J	1	500
120	44924	912170	50	J	1	500
100	44861	912180	50	J	1	500
80	44862	44862	25	J	1	250
60	44925	912190	25	J	1	250



DAF

ALUMINUM OXIDE

New **K35SF - Cloth Sheets**
Aluminum Oxide, "J" Weight,
Open Coat, Flexible

- Ideal for woodworking applications.
Very pliable and conforms to shapes well.
- Good for hand sanding applications where paper sheets do not last and regular cloth sheets aren't pliable enough.

9" x 11" K35SF Sheets

GRIT	UPC #	PASCO #	SLEEVE	WEIGHT	PACK	CASE
150	44863	912960	50	J	1	500
120	44864	912970	50	J	1	500



K35SF

ALUMINUM OXIDE



PAPER SHEET ROLLS

New

GOLD PSA Sheet Rolls

AO, "C" Weight, Resin Paper,
Open Coat, Stearated

- Fast cutting action, exceptionally long working life and uniform scratch pattern.



ALUMINUM OXIDE

**NOTE: Dispenser Not Included*

2-3/4" PSA GOLD Sheet Rolls

GRIT	UPC#	PASCO #	YARDS	PACK	CASE
400	44791	219726	40	1	10
320	44792	219736	40	1	10
220	44793	219766	40	1	10
150	44794	219786	40	1	10
120	44795	219796	40	1	10
80	44796	219816	30	1	10

4-1/2" PSA GOLD Sheet Rolls

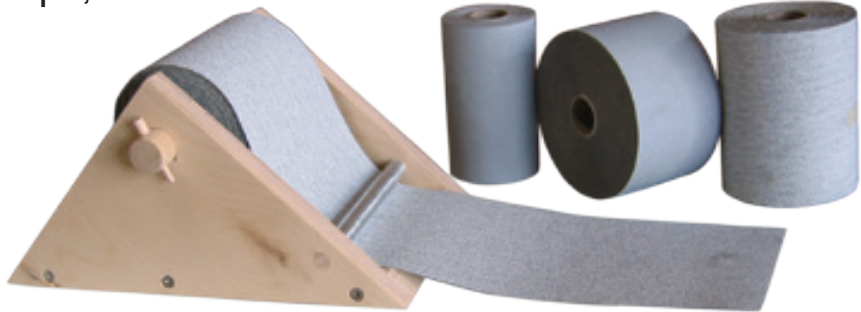
GRIT	UPC#	PASCO #	YARDS	PACK	CASE
320	44797	219738	10	1	10
220	44798	219868	10	1	10
150	44799	219788	10	1	10
120	44800	219798	10	1	10
100	44801	219808	10	1	10
80	44802	219818	10	1	10

New

SILVER PSA Sheet Rolls

AO, "A" Weight, Resin Paper,
Open Coat, Stearated

- Fast cutting action, exceptionally long working life and uniform scratch pattern.



ALUMINUM OXIDE

**NOTE: Dispenser Not Included*

4-1/2" PSA SILVER Sheet Rolls

GRIT	UPC#	PASCO #	YARDS	PACK	CASE
320	44803	218118	10	1	10
240	44804	218138	10	1	10
220	44805	218148	10	1	10
180	44806	218158	10	1	10
150	44807	218168	10	1	10
120	44808	218178	10	1	10
80	44809	218198	10	1	10

SANDING BLOCKS & SPONGES

New Sanding Sponges
Silicon Carbide, Closed Coat

- Silicon carbide or aluminum oxide grain with a foam backing to provide conformability for hand finishing.

SILICON CARBIDE

3-7/8 x 4-3/4 x 1/2"

Sanding Sponges

GRIT	UPC #	PASCO #	PACK	CASE
100	44821	380100	50	250
150	44822	380110	50	250
180	44823	380120	50	250
220	44824	380125	50	250



New Sanding Blocks
Brown Aluminum Oxide, Closed Coat

ALUMINUM OXIDE

2-3/4 x 4 x 1"

Sanding Blocks

GRIT	UPC #	PASCO #	PACK	CASE
100	44825	280130	50	250
180	44826	280140	50	250



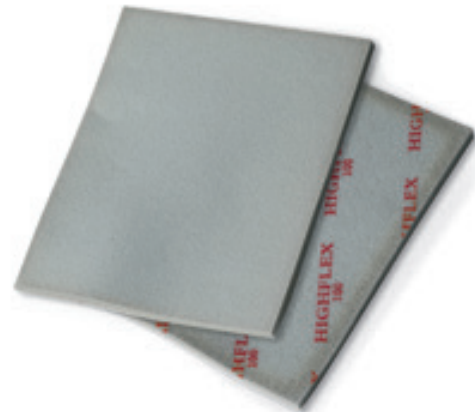
New HI-FLEX Sanding Sponges
White Aluminum Oxide, Closed Coat

ALUMINUM OXIDE

5-1/2 x 4-1/2 x 3/16"

HI-FLEX Sponges

GRIT	UPC #	PASCO #	PACK	CASE
100	44827	380130	50	250
220	44828	380140	50	250



PASCO

CLOTH SHEET ROLL

New **JA165**
Aluminum Oxide, "J" Weight, Closed Coat

- Flexible, very high cutting performance for metal working applications.



ALUMINUM OXIDE

METAL

JA165 Specialty Sheet Rolls

GRIT	UPC #	SIZE	WEIGHT	PACK	CARTON
120	52835	4x50	J	1	6
150	52836	4x50	J	1	6
220	52838	4x50	J	1	6
120	52840	6x50	J	1	4
150	52841	6x50	J	1	4

New **XA517**
Aluminum Oxide, "X" Weight, Closed Coat

- General purpose product.



XA517 Specialty Sheet Rolls

GRIT	UPC #	SIZE	WEIGHT	PACK	CARTON
80	52844	6x50	X	1	4
120	52846	6x50	X	1	4
150	52847	6x50	X	1	4

ALUMINUM OXIDE

New **K35F**
Aluminum Oxide, "J" Weight, Open Coat

- Semi-flexible design is ideal for shape sanding.



ALUMINUM OXIDE

WOOD

K35F Specialty Sheet Rolls

GRIT	UPC #	SIZE	WEIGHT	PACK	CARTON
60	52828	4x50	J	1	6
80	52829	4x50	J	1	6
100	52830	4x50	J	1	6
80	52832	6x50	J	1	4
100	52833	6x50	J	1	4

New **XW341**
Aluminum Oxide, "X" Weight, Open Coat

- General purpose product. Resists loading.

ALUMINUM OXIDE

K35F Specialty Sheet Rolls

GRIT	UPC #	SIZE	WEIGHT	PACK	CARTON
80	52831	6x50	X	1	4
100	52834	6x50	X	1	4
120	52837	6x50	X	1	4
180	52839	6x50	X	1	4

Special Make Cloth Rolls are Available in Sizes 1" to 36"

ALUMINUM OXIDE

Rolls can be ordered in other materials. Call for minimum order quantity.

J-WEIGHT		X-WEIGHT	
R352 - XFlex, closed coat		R145 - closed coat	
R350 - closed coat		XW341 - open coat	
JA512 - closed coat		R192 - closed coat (150 - 600 grit)	
K35SF - open coat			

CARTRIDGE ROLLS

STRAIGHT CARTRIDGE ROLLS

Straight Cartridge Rolls Aluminum Oxide, "X" Weight, Closed Coat

- Tightly wound abrasive material wears away exposing new layers of material. For grinding, deburring, blending, polishing and finishing.

ALUMINUM OXIDE

Straight

GRIT	UPC #	PASCO #	CRT QTY	USE WITH MANDREL
Diameter x Length x Hole (Inch)				
3/16 x 1 x 3/32			23,000 RPM	
80	44640		100	44759
120	44641		100	44759
1/4 x 1 x 1/8			23,000 RPM	
60	44642	686089	100	44760
80	44643	686088	100	44760
120	44644	686086	100	44760
320	44645	686081	100	44760
1/4 x 1-1/2 x 1/8			23,000 RPM	
60	44646	686109	100	44761
80	44647	686108	100	44761
120	44648	686106	100	44761
180	44649	686104	100	44761
240	44650	686102	100	44761
3/8 x 1 x 1/8			23,000 RPM	
60	44651	686249	100	44760
80	44652	686248	100	44760
120	44653	686246	100	44760
180	44654	686244	100	44760
3/8 x 1-1/2 x 1/8			23,000 RPM	
60	44655	686269	100	44761
80	44656	686268	100	44761
120	44657	686266	100	44761
180	44658	686264	100	44761
3/8 x 2 x 1/8			23,000 RPM	
60	44659	686289	100	44762
80	44660	686288	100	44762
120	44661	686286	100	44762
1/2 x 1 x 1/8			23,000 RPM	
60	44662	686349	100	44760
80	44663	686348	100	44760
120	44664	686346	100	44760
180	44665	686344	100	44760



44667

GRIT	UPC #	PASCO #	CRT QTY	USE WITH MANDREL
Diameter x Length x Hole (Inch)				
1/2 x 1-1/2 x 1/8			23,000 RPM	
40	44666	686371	100	44761
60	44667	686369	100	44761
80	44668	686368	100	44761
120	44669	686366	100	44761
180	44670	686364	100	44761
240	44671	686362	100	44761
320	44672	686361	100	44761
1/2 x 2 x 1/8			23,000 RPM	
60	44673	686389	100	44762
80	44674	686388	100	44762
120	44675	686386	100	44762
5/8 x 1-1/2 x 3/16			18,000 RPM	
60	44676	686429	100	44765
80	44677	686428	100	44765
120	44678	686426	100	44765
3/4 x 1-1/2 x 1/4			18,000 RPM	
60	44679		100	44763
80	44680		100	44763
120	44681		100	44763
3/4 x 2 x 1/4			18,000 RPM	
60	44682		100	44764
80	44683		100	44764
120	44684		100	44764
1 x 1-1/2 x 1/4			15,000 RPM	
60	44685		100	44763
80	44686		100	44763
120	44687		100	44763
1 x 2 x 1/4			15,000 RPM	
60	44688		100	44764
80	44689		100	44764



PASCO

Samples Available for Testing - Contact CGW for Details

CARTRIDGE ROLLS & MANDRELS

Full Taper Cartridge Rolls

Aluminum Oxide, "X" Weight, Closed Coat

- Tightly wound abrasive material wears away exposing new layers of material. For grinding, deburring, blending, polishing and finishing.

ALUMINUM OXIDE

Full Taper

GRIT	UPC #	PASCO #	CRT QTY	USE WITH MANDREL
3/8 x 1 x 1/8 23,000 RPM				
60	44694	686749	100	44760
80	44695	686748	100	44760
120	44696	686746	100	44760
180	44697	686744	100	44760
240	44698	686742	100	44760
3/8 x 1-1/2 x 1/8 23,000 RPM				
60	44699	686769	100	44761
80	44700	686768	100	44761
120	44701	686766	100	44761
180	44702	686764	100	44761
1/2 x 1 x 1/8 23,000 RPM				
60	44703	686849	100	44760
80	44704	686848	100	44760
120	44705	686846	100	44760

New



44706

GRIT	UPC #	PASCO #	CRT QTY	USE WITH MANDREL
1/2 x 1-1/2 x 1/8 23,000 RPM				
60	44706	686869	100	44761
80	44707	686868	100	44761
120	44708	686866	100	44761
180	44709	686864	100	44761
5/8 x 1-1/2 x 1/8 18,000 RPM				
60	44710		100	44761
80	44711		100	44761
120	44712		100	44761
3/4 x 1-1/2 x 1/8 18,000 RPM				
60	44713		100	44761
80	44714		100	44761
120	44715		100	44761

Mandrels



Mandrel - Cartridge Rolls*

UPC #	PILOT DIA.	PILOT LENGTH	SHANK DIA.	SHANK LENGTH
44759	3/32	3/4	1/4	1-1/4
44760	1/8	3/4	1/4	1-1/4
44761	1/8	1	1/4	1-1/4
44762	1/8	1-1/2	1/4	1-1/4

UPC #	PILOT DIA.	PILOT LENGTH	SHANK DIA.	SHANK LENGTH
44763	1/4	1	1/4	1-1/4
44764	1/4	1-1/2	1/4	1-1/4
44765	3/16	3/4	1/4	1-1/4

Threaded Mandrel - Cross & Square Pad*

UPC #	SIZE	FITS EYELET	SHANK DIA.	LNK.
44756	1/4 x 2-1/2	PA-3-48	1/4	3
44757	1/4 x 3	PA-8-32	1/4	3
44758	1/4 x 4	PA-1/4-20	1/4	3

**Sold in polybags of 1 each.*

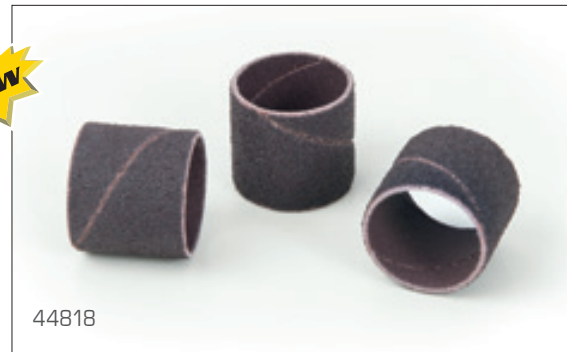
SPIRAL BANDS

Spiral Bands

- Aluminum oxide grain.
- Spiral wound bands are used with rubber expanding drums.
- For grinding contours on most materials.

ALUMINUM OXIDE

New



44818

Spiral Bands

UPC #	GRIT	BOX QTY	RUBBER EXPANDING DRUM
Diameter x Length (Inch)			
1/2 x 1/2		30,000 RPM	
44601	60	100	44746
44602	80	100	44746
44603	120	100	44746
1/2 x 1		15,000 RPM	
44604	60	100	44747
44605	80	100	44747
44606	120	100	44747
1/2 x 1-1/2		12,000 RPM	
44607	60	100	44748
44608	80	100	44748
44609	120	100	44748
3/4 x 1		19,000 RPM	
44610	36	100	44749
44611	60	100	44749
44612	80	100	44749
44613	120	100	44749
3/4 x 1-1/2		10,000 RPM	
44614	60	100	44750
44615	80	100	44750
44616	120	100	44750
1 x 1		18,000 RPM	
44617	36	100	44751
44618	60	100	44751
44619	80	100	44751
44620	120	100	44751

UPC #	GRIT	BOX QTY	RUBBER EXPANDING DRUM
Diameter x Length (Inch)			
1-1/2 x 1		8,000 RPM	
44621	36	100	44752
44622	60	100	44752
44623	80	100	44752
44624	120	100	44752
1 x 2		8,000 RPM	
44716	36	100	44767
44717	60	100	44767
44718	80	100	44767
44741	120	100	44767
1-1/2 x 1-1/2		10,000 RPM	
44625	36	100	44753
44626	60	100	44753
44627	80	100	44753
44628	120	100	44753
2 x 2		6,000 RPM	
44629	36	50	44754
44630	60	50	44754
44631	80	50	44754
44632	120	50	44754
3 x 3		3,000 RPM	
44633	36	50	44755
44634	60	50	44755
44635	80	50	44755
44636	120	50	44755

SPIRAL BANDS, RUBBER EXPANDING DRUMS



PASCO

RUBBER EXPANDING DRUMS

Rubber Expanding Drums

- Designed for easy on and off of spiral bands.
- No tools or spindle nuts required.
Centrifugal force holds the spiral band in place.



44755

Rubber Expanding Drum with 1/4" Shank

UPC #	PASCO #	SIZE	MAX RPM	BOX QTY
44746	N/A	1/2 x 1/2 x 1/4	30,000	1
44747	N/A	1/2 x 1 x 1/4	20,000	1
44748	N/A	1/2 x 1-1/2 x 1/4	14,000	1
44749	750002	3/4 x 1 x 1/4	19,000	1
44750	750003	3/4 x 1-1/2 x 1/4	13,500	1
44751	750012	1 x 1 x 1/4	15,000	1
44752	750022	1-1/2 x 1 x 1/4	14,000	1
44767	750184	1 x 2 x 1/4	8,000	1
44753	750023	1-1/2 x 1-1/2 x 1/4	10,000	1
44754	750034	2 x 2 x 1/4	6,000	1
44755	N/A	3 x 3 x 3/8	3,000	1

Cross Pads

- Aluminum oxide grain with resin bond.
- For deburring, blending, and polishing of tubing and cylinders.

See page 78 for Mandrels.



GRIT	UPC #	BOX QTY	USE WITH MANDREL
1 x 3/8 25,000 RPM			
60	44720	100	44756
80	44721	100	44756
120	44722	100	44756
1-1/2 x 1/2 23,000 RPM			
60	44723	100	44757
80	44724	100	44757
120	44725	100	44757
2 x 1/2 23,000 RPM			
60	44726	100	44757
80	44727	100	44757
120	44728	100	44757
2 x 3/4 23,000 RPM			
60	44732	100	44758
80	44733	100	44758
120	44734	100	44758

GRIT	UPC #	BOX QTY	USE WITH MANDREL
2 x 1 23,000 RPM			
60	44729	100	44757
80	44730	100	44757
120	44731	100	44757
3 x 1 14,000 RPM			
60	44735	100	44758
80	44736	100	44758
120	44737	100	44758
4 x 1 14,000 RPM			
60	44738	100	44758
80	44739	100	44758
120	44740	100	44758

CLOTH AO BELTS

"J" Weight Aluminum Oxide Cloth Backed Belts



PAOJ - Performance Material
Aluminum Oxide, "J" Weight

ALUMINUM OXIDE

- For finishing operations that require flexibility.
- Grinding Aid for longer cutting life.
- Polyester/cotton backing.
- J-weight backing. **Closed coat.**

BACKING	BOND	COATING	ANTISTATIC
J	R/R	CC	NO



PAOJ

PAOJ AO Belts

UPC #	SIZE	GRIT	MIN QTY	STD PACKAGE	MATERIAL
53382	2 x 118	80	10	200	PAOJ
53383	2 x 118	120	10	200	PAOJ
53384	2 x 118	180	10	200	PAOJ
53385	2 x 118	220	10	200	PAOJ
53386	2 x 118	240	10	200	PAOJ
53387	2 x 118	320	10	200	PAOJ
53388	2 x 118	400	10	200	PAOJ
53389	3 x 118	80	10	200	PAOJ
53390	3 x 118	120	10	200	PAOJ
53391	3 x 118	150	10	200	PAOJ
53392	3 x 118	180	10	200	PAOJ
53393	3 x 118	220	10	200	PAOJ
53394	3 x 118	240	10	200	PAOJ
53396	3 x 118	320	10	200	PAOJ
53398	3 x 132	80	10	200	PAOJ
53399	3 x 132	120	10	200	PAOJ
53400	3 x 132	150	10	200	PAOJ
53401	3 x 132	180	10	200	PAOJ
53402	3 x 132	220	10	200	PAOJ
53403	3 x 132	240	10	200	PAOJ
53405	3 x 132	320	10	200	PAOJ
53406	3 x 132	400	10	200	PAOJ
53407	4 x 118	100	10	200	PAOJ
53408	4 x 118	120	10	200	PAOJ
53409	4 x 118	150	10	200	PAOJ
53410	4 x 118	180	10	200	PAOJ
53411	4 x 118	220	10	200	PAOJ
53412	4 x 118	240	10	200	PAOJ
53413	4 x 118	320	10	200	PAOJ

GRITS:
60, 80, 100, 120, 150,
180, 220, 240, 320, 400,
500, 600



*All Jumbo Material
Stocked at PASCO
(Buena Park, CA).*



CLOTH ZIRCONIA BELTS

"Y" WEIGHT CLOTH ZIRCONIA BELTS

"Y" Weight Zirconia Cloth Backed Belts - Long Life

New **R203**
Zirconia AO with Grinding Aid, "Y" Weight

#1 Seller!

- Very cool cutting and long belt life.
- Two coatings of grinding aid for use in severe grinding applications.
- Competitively priced - even against ceramic products.
- Can be used on stainless steel, alloy, and aluminum.
Ideal for foundry and investment castings.
- For belts up to 53" wide.
- Y-weight backing. **Closed coat.**

ZIRCONIA AO
w/GRINDING AID

BACKING	BOND	COATING	ANTISTATIC
Y	R/R	CC	NO



R203 Zirconia Belts

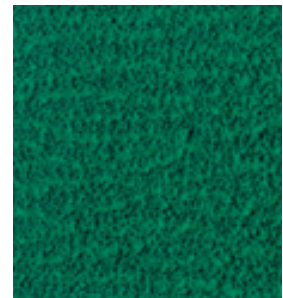
UPC #	SIZE	GRIT	MIN QTY	STD PACKAGE	MATERIAL
53358	1/4 x 18	40	10	200	ZAG
53359	1/4 x 18	60	10	200	ZAG
53360	1/4 x 18	80	10	200	ZAG
53361	1/4 x 24	40	10	200	ZAG
53362	1/4 x 24	60	10	200	ZAG
53363	1/4 x 24	80	10	200	ZAG
53414	1/2 x 18	40	10	200	ZAG
53415	1/2 x 18	60	10	200	ZAG
53416	1/2 x 18	80	10	200	ZAG
53417	1/2 x 24	40	10	200	ZAG
53418	1/2 x 24	60	10	200	ZAG
53419	1/2 x 24	80	10	200	ZAG
53420	3/4 x 18	40	10	200	ZAG
53421	3/4 x 18	60	10	200	ZAG
53422	3/4 x 18	80	10	200	ZAG
53423	1 x 42	36	10	200	ZAG
53424	1 x 42	60	10	200	ZAG
53425	1 x 42	80	10	200	ZAG
53426	2 x 48	36	10	200	ZAG
53427	2 x 48	60	10	200	ZAG
53428	2 x 48	80	10	200	ZAG
53429	2 x 72	36	10	200	ZAG
53430	2 x 72	60	10	200	ZAG
53431	2 x 72	80	10	200	ZAG
53432	6 x 48	36	10	200	ZAG
53433	6 x 48	60	10	200	ZAG
53434	6 x 48	80	10	200	ZAG
53435	3 x 132	36	10	200	ZAG
53436	3 x 132	60	10	200	ZAG
53437	3 x 132	80	10	200	ZAG

R203 GRITS:

24, 36, 40, 50, 60, 80,
100, 120



*All Jumbo Material
Stocked at PASCO
(Buena Park, CA).*



ZAG

CLOTH CERAMIC BELTS

"Y" WEIGHT CERAMIC CLOTH BACKED BELTS

"Y" Weight Ceramic Alumina Cloth Backed Belts



PCERY Ceramic, "Y" Weight

CERAMIC

- Grinding aid for cool cutting on aggressive applications.
- Ideal for flat and cylindrical grinding.
- For chrome, alloy and nickel.
- Y-weight **100% polyester backing.**

TYPE	GRAIN TYPE	BACKING	BOND
Cloth	Ceramic	Y	R/R



PCERY

PCERY AO Belts

UPC #	SIZE	GRIT	MIN QTY	STD PACKAGE	MATERIAL
53364	1/2 x 18	36	10	200	PCERY
53365	1/2 x 18	60	10	200	PCERY
53366	1/2 x 18	80	10	200	PCERY
53367	1/2 x 24	36	10	200	PCERY
53368	1/2 x 24	60	10	200	PCERY
53369	1/2 x 24	80	10	200	PCERY
53370	2 x 48	36	10	200	PCERY
53371	2 x 48	60	10	200	PCERY
53372	2 x 48	80	10	200	PCERY
53373	2 x 72	36	10	200	PCERY
53374	2 x 72	60	10	200	PCERY
53375	2 x 72	80	10	200	PCERY
53376	3 x 132	36	10	200	PCERY
53377	3 x 132	60	10	200	PCERY
53378	3 x 132	80	10	200	PCERY
53379	6 x 48	36	10	200	PCERY
53380	6 x 48	60	10	200	PCERY
53381	6 x 48	80	10	200	PCERY

GRITS:
36, 50, 60, 80, 120



*All Jumbo Material
Stocked at PASCO
(Buena Park, CA).*



WIDE BELTS



Aluminum Oxide Cloth Backed Wide Belts

XW341 "X" Weight

- Our most popular cloth wide belt (most common sizes in stock).
- For hardwood sanding (grits: 36 - 220).
- X-Weight, poly cotton backing. **Open coat.**

ALUMINUM OXIDE

*All Jumbo Material
Stocked at PASCO
(Buena Park, CA).*



XW341

37 x 60" XW341 Aluminum Oxide Open Coat, "X" Weight

UPC#	MATERIAL	SIZE	GRIT	WEIGHT	UNIT QTY.
52870	XW341	37 x 60	80	X	5
52871	XW341	37 x 60	100	X	5
52872	XW341	37 x 60	120	X	5
52873	XW341	37 x 60	150	X	5
52874	XW341	37 x 60	180	X	5

37 x 75" XW341 Aluminum Oxide Open Coat, "X" Weight

52875	XW341	37 x 75	80	X	5
52876	XW341	37 x 75	100	X	5
52877	XW341	37 x 75	120	X	5
52878	XW341	37 x 75	150	X	5
52879	XW341	37 x 75	180	X	5

43 x 75" XW341 Aluminum Oxide Open Coat, "X" Weight

52885	XW341	43 x 75	80	X	5
52886	XW341	43 x 75	100	X	5
52887	XW341	43 x 75	120	X	5
52888	XW341	43 x 75	150	X	5
52889	XW341	43 x 75	180	X	5

52 x 75" XW341 Aluminum Oxide Open Coat, "X" Weight

52895	XW341	52 x 75	80	X	5
52897	XW341	52 x 75	120	X	5
52899	XW341	52 x 75	180	X	5

52 x 103" XW341 Aluminum Oxide Open Coat, "X" Weight

52890	XW341	52 x 103	80	X	5
52892	XW341	52 x 103	120	X	5
52894	XW341	52 x 103	180	X	5

54 x 103" XW341 Aluminum Oxide Open Coat, "X" Weight

52901	XW341	54 x 103	120	X	5
52902	XW341	54 x 103	150	X	5
52903	XW341	54 x 103	180	X	5

GRITS AVAILABLE:
36, 40, 50, 60, 80,
100, 120, 150, 180, 220





Aluminum Oxide Cloth Backed Wide Belts

R192 "X & Y" Weight

- "Y" weight polyester resin bond for 80 grit and coarser.
- "X" weight polyester resin bond for 100 grit and finer.
- Polyester resin bond backing, may be used wet or dry.
- Grinding aid for cool cutting action and longer life.
- For stainless steel, nickel alloy and tool steel.
- Ideal for wide belts for metal working; cost effective.
- For belts up to 53" wide.
- X & Y-weight backing. **Closed coat.**

ALUMINUM OXIDE

*All Jumbo Material
Stocked at PASCO
(Buena Park, CA).*

R192 "X" Weight Wide Belts

UPC#	MATERIAL	SIZE	GRIT	WEIGHT	UNIT QTY.
52865	R192	37 x 60	180	X	5
52868	R192	37 x 75	180	X	5
52869	R192	37 x 75	220	X	5

R192 "Y" Weight Wide Belts

UPC#	MATERIAL	SIZE	GRIT	WEIGHT	UNIT QTY.
52861	R192	37 x 60	80	Y	5
52862	R192	37 x 60	100	Y	5
52863	R192	37 x 60	120	Y	5
52864	R192	37 x 60	150	Y	5
52866	R192	37 x 75	120	Y	5
52867	R192	37 x 75	150	Y	5



R192

GRITS AVAILABLE:

24, 36, 40, 50, 60, 80, 100,
120, 150, 180, 220, 240, 280,
320, 400, 500, 600



PASCO

FILE BELTS

File & Portable, Benchstand and Backstand Belts

■ A3 – Aluminum Oxide:

- General purpose grain on X-weight backing for rapid stock removal and long life.
- For ferrous metals, stainless steel, non ferrous metals, composites, plastics and wood.

■ Z3[®] – Zirconia:

- Premium zirconia alumina grain on X-weight backing for aggressive use and heavy duty applications.
- For steel and stainless steel.



ALUMINUM OXIDE

ZIRCONIA



File Belts – Min. qty. package is nested together and wrapped in paper

GRIT	MIN QTY	STD PACKAGE	1/4 x 12		1/4 x 18		1/4 x 24	
			A3-AO	Z3 [®] -ZA	A3-AO	Z3 [®] -ZA	A3-AO	Z3 [®] -ZA
24	10	200	61000	61500	61008	61506	61016	61512
36	10	200	61001	61501	61009	61507	61017	61513
40	10	200	61002	61502	61010	61508	61018	61514
50	10	200	61003	61503	61011	61509	61019	61515
60	10	200	61004	61504	61012	61510	61020	61516
80	10	200	61005	61505	61013	61511	61021	61517
100	10	200	61006		61014		61022	
120	10	200	61007		61015		61023	

GRIT	MIN QTY	STD PACKAGE	1/2 x 12		1/2 x 18		1/2 x 24	
			A3-AO	Z3 [®] -ZA	A3-AO	Z3 [®] -ZA	A3-AO	Z3 [®] -ZA
24	10	200	61024	61518	61032	61524	61040	61530
36	10	200	61025	61519	61033	61525	61041	61531
40	10	200	61026	61520	61034	61526	61042	61532
50	10	200	61027	61521	61035	61527	61043	61533
60	10	200	61028	61522	61036	61528	61044	61534
80	10	200	61029	61523	61037	61529	61045	61535
100	10	200	61030		61038		61046	
120	10	200	61031		61039		61047	

File Belts – Min. qty. package is nested together and wrapped in paper

GRIT	MIN QTY	STD PACKAGE	3/4 x 12		3/4 x 18		3/4 x 24	
			A3-A0	Z3®-ZA	A3-A0	Z3®-ZA	A3-A0	Z3®-ZA
24	10	200	61048	61536	61056	61542	61064	61548
36	10	200	61049	61537	61057	61543	61065	61549
40	10	200	61050	61538	61058	61544	61066	61550
50	10	200	61051	61539	61059	61545	61067	61551
60	10	200	61052	61540	61060	61546	61068	61552
80	10	200	61053	61541	61061	61547	61069	61553
100	10	200	61054		61062		61070	
120	10	200	61055		61063		61071	

GRIT	MIN QTY	STD PACKAGE	1 x 12		1 x 30	
			A3-A0	Z3®-ZA	A3-A0	Z3®-ZA
24	10	200	61072	61554	61080	61554
36	10	200	61073	61555	61081	61555
40	10	200	61074	61556	61082	61556
50	10	200	61075	61557	61083	61557
60	10	200	61076	61558	61084	61558
80	10	200	61077	61559	61085	61559
100	10	200	61078		61086	
120	10	200	61079		61087	

Portable, Benchstand and Backstand Belts

GRIT	MIN QTY	STD PACKAGE	1 x 42		1 x 60		1 x 90	
			A3-A0	Z3®-ZA	A3-A0	Z3®-ZA	A3-A0	Z3®-ZA
24	10	200	61088	61560	61100	61566	61108	61572
36	10	200	61089	61561	61101	61567	61109	61573
40	10	200	61090	61562	61102	61568	61110	61574
50	10	200	61091	61563	61103	61569	61111	61575
60	10	200	61092	61564	61104	61570	61112	61576
80	10	200	61093	61565	61105	61571	61113	61577
100	10	200	61094		61106		61114	
120	10	200	61095		61107		61115	
180	10	200	61096					
220	10	200	61097					
240	10	200	61098					
320	10	200	61099					

Min. qty. package is nested together and wrapped in paper

PORTABLE BELTS

Portable, Benchstand and Backstand Belts

GRIT	MIN QTY	STD PKG	2 x 48		2 x 60	2 x 72	2 x 90		2 x 118		2 x 132	
			A3-A0	Z3®-ZA	A3-A0	A3-A0	A3-A0	Z3®-ZA	A3-A0	Z3®-ZA	A3-A0	Z3®-ZA
24	10	50	61116	61578	61124	61132	61140	61584	61148	61590	61156	61596
36	10	50	61117	61579	61125	61133	61141	61585	61149	61591	61157	61597
40	10	50	61118	61580	61126	61134	61142	61586	61150	61592	61158	61598
50	10	50	61119	61581	61127	61135	61143	61587	61151	61593	61159	61599
60	10	50	61120	61582	61128	61136	61144	61588	61152	61594	61160	61600
80	10	50	61121	61583	61129	61137	61145	61589	61153	61595	61161	61601
100	10	50	61122		61130	61138	61146		61154		61162	
120	10	50	61123		61131	61139	61147		61155		61163	

GRIT	MIN QTY	STD PKG	3 x 18		3 x 21	3 x 24
			A3-A0	Z3®-ZA	A3-A0	A3-A0
24	10	50	61164	61608	61177	61190
36	10	50	61165	61609	61178	61191
40	10	50	61166	61610	61179	61192
50	10	50	61167	61611	61180	61193
60	10	50	61168	61612	61181	61194
80	10	50	61169	61613	61182	61195
100	10	50	61170		61183	61196
120	10	50	61171		61184	61197
150	10	50	61172		61185	61198
180	10	50	61173		61186	61199
220	10	50	61174		61187	61200
240	10	50	61175		61188	61201
320	10	50	61176		61189	61202

GRIT	MIN QTY	STD PKG	3 x 60	3 x 90		3 x 118		3 x 132	
			A3-A0	A3-A0	Z3®-ZA	A3-A0	Z3®-ZA	A3-A0	Z3®-ZA
24	10	50	61203	61211	61602	61219	61700	61227	61614
36	10	50	61204	61212	61603	61220	61701	61228	61615
40	10	50	61205	61213	61604	61221	61702	61229	61616
50	10	50	61206	61214	61605	61222	61703	61230	61617
60	10	50	61207	61215	61606	61223	61704	61231	61618
80	10	50	61208	61216	61607	61224	61705	61232	61619
100	10	50	61209	61217		61225		61233	
120	10	50	61210	61218		61226		61234	

Min. qty. package is nested together and wrapped in paper

Portable, Benchstand and Backstand Belts

GRIT	MIN QTY	STD PKG	4 x 21	4 x 24	4 x 36	4 x 118		4 x 132	
			A3-A0	A3-A0	A3-A0	A3-A0	Z3®-ZA	A3-A0	Z3®-ZA
24	10	50	61235	61248	61261	61274	61620	61282	61626
36	10	50	61236	61249	61262	61275	61621	61283	61627
40	10	50	61237	61250	61263	61276	61622	61284	61628
50	10	50	61238	61251	61264	61277	61623	61285	61629
60	10	50	61239	61252	61265	61278	61624	61286	61630
80	10	50	61240	61253	61266	61279	61625	61287	61631
100	10	50	61241	61254	61267	61280		61288	
120	10	50	61242	61255	61268	61281		61289	
150	10	50	61243	61256	61269				
180	10	50	61244	61257	61270				
220	10	50	61245	61258	61271				
240	10	50	61246	61259	61272				
320	10	50	61247	61260	61273				

GRIT	MIN QTY	STD PKG	6 x 48		6 x 132
			A3-A0	Z3®-ZA	A3-A0
24	10	50	61290	61632	61303
36	10	50	61291	61633	61304
40	10	50	61292	61634	61305
50	10	50	61293	61635	61306
60	10	50	61294	61636	61307
80	10	50	61295	61637	61308
100	10	50	61296		61309
120	10	50	61297		61310
150	10	50	61298		61185
180	10	50	61299		61186
220	10	50	61300		61187
240	10	50	61301		61188
320	10	50	61302		61189

Min. qty. package is nested together and wrapped in paper

SURFACE CONDITIONING

SURFACE CONDITIONING



SURFACE CONDITIONING BELTS

Surface Conditioning Belts

Surface Conditioning material utilizes a substrate base (nylon fiber), a resin bond (phenolic or polyurethane) and abrasive grain (aluminum oxide, silicon carbide, alumina silicate). The fiber and resin are fully waterproof so the product can be used wet or dry. The structure is extremely open so that the product resists loading and runs cool compared to coated abrasives. The product is available in three grades: Coarse – equivalent to 120 grit finish; Medium – equivalent to 180 grit finish; Very Fine – equivalent to 320 grit finish. X-Flex material is modified to give increased flexibility as the belt has to run around a small diameter contact wheel (less than 1") without cracking. For longer belts. Low Stretch material resists stretch in the length direction.

- For cleaning, finishing, blending and deburring applications.
- Belts provide a linear grain scratch pattern for blending stainless welds.
- Blends and finishes without undercutting or gouging work pieces.
- Belts 40 inches and less are made from X-Flex material for flexibility. For hand held tools.
- Belts 40 inches and higher are made from Low Stretch material for reliable dimension holding – no stretching. For stationary machines.

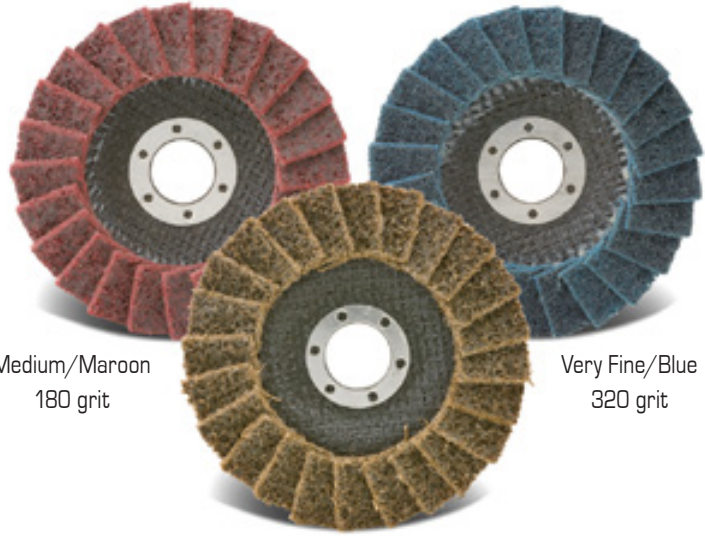


SIZE	MATERIAL TYPE	STD PKG	COARSE – BROWN	MEDIUM – MAROON	VERY FINE – BLUE
1/4 x 18	X-Flex	20	59220	59221	59222
1/4 x 24	X-Flex	20	59223	59224	59225
1/2 x 12	X-Flex	20	59226	59227	59228
1/2 x 18	X-Flex	20	59229	59230	59231
1/2 x 24	X-Flex	20	59232	59233	59234
3/4 x 18	X-Flex	20	59235	59236	59237
3/4 x 20-1/2	X-Flex	20	59238	59239	59240
1 x 18	X-Flex	10	59241	59242	59243
1 x 30	X-Flex	10	59244	59245	59246
1 x 42	Low Stretch	10	59247	59248	59249
1 x 132	Low Stretch	5	59250	59251	59252
2 x 48	X-Flex	10	59253	59254	59255
2 x 60	X-Flex	10	59256	59257	59258
2 x 72	Low Stretch	10	59259	59260	59261
2 x 132	Low Stretch	5	59262	59263	59264
2-1/2 x 60	Low Stretch	5	59265	59266	59267
2-3/4 x 15-1/2	X-Flex	10	59268	59269	59270
3 x 10-11/16	X-Flex	10	59271	59272	59273
3 x 18	X-Flex	10	59274	59275	59276
3 x 24	X-Flex	10	59277	59278	59279
3 x 132	Low Stretch	5	59280	59281	59282
3-1/2 x 15-1/2	X-Flex	10	59283	59284	59285
4 x 24	X-Flex	10	59286	59287	59288
4 x 132	Low Stretch	5	59289	59290	59291
4 x 168	Low Stretch	5	59292	59293	59294
6 x 48	Low Stretch	5	59295	59296	59297

FLAP DISCS

Surface Conditioning Flap Discs

- Premium surface conditioning material for surface preparation.
- Three different grits for blending, deburring, and cleaning.
- For steel and stainless steel.
- Coarse discs (brown) are 120 grit.
- Medium discs (maroon) are 180 grit.
- Very Fine discs (blue) are 320 grit.
- Please operate at 3,000 RPM for optimal performance.



Medium/Maroon
180 grit

Very Fine/Blue
320 grit

Coarse/Brown
120 grit



Type 29

SIZE	RPM	RECOMMENDED RPM	CARTON QTY	COARSE UPC#	MEDIUM UPC#	VERY FINE UPC#
4-1/2 x 7/8	13,300	2,700-5,000	10	70120	70122	70124
4-1/2 x 5/8-11	13,300	2,700-5,000	10	70121	70123	70125
5 x 7/8	12,200	2,500-4,500	10	70185	70187	70189
5 x 5/8-11	12,200	2,500-4,500	10	70186	70188	70190

See pages 12-26 for More Flap Discs.



#8 Mirror Finishing Kit - 5 Steps in 1 Box • 7 Pieces in Total

- Variable speed tool recommended.

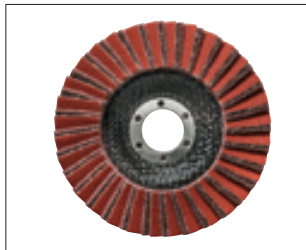
#4 FINISHING KIT	UPC #
7 piece set	49660



30146 (120 Grit)

Trimmable Flap Disc

Flexible backing with best selling Z3 flap material for heavy duty work.



49687

Interleaf Flap Disc

Medium; maroon; 180 grit. Uniform finishes with little heat.



72052

Premium Unitized Wheel

6/A/Medium. Cleans and blends easily.



49698

Felt/Wool Buffing Discs

(must be used w/ Buffing Compound). Includes White (1,200 grit) & Green (2,000 grit) 1 oz. kit size compounds.

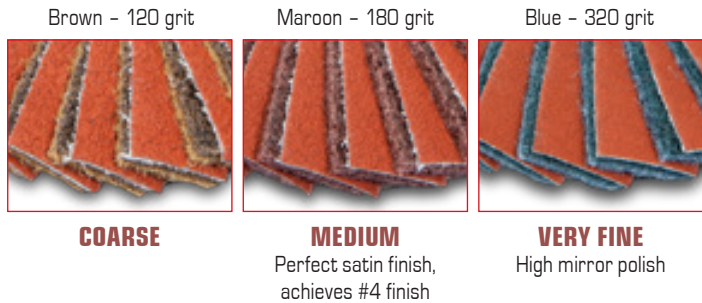
SURFACE CONDITIONING

SURFACE CONDITIONING FLAP DISCS

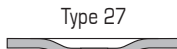
Interleaf Flap Discs

Grind and finish with one disc - save time and money

- Stainless steel finishing, light grinding, deburring.
- Alternating flaps of non-woven and coated abrasive materials provide uniform, consistent finishes with very little heat.
- Top size aluminum oxide poly cotton material for cool, yet fast cutting action for long life.
- European made non-woven material for non-smearing high grade finishes.
- Three grit levels of discs for a variety of work including stainless steel, aluminum, brass, steel sheet metal.
- **Please operate at 3,000 RPM for optimal performance**



SIZE	RPM	RECOMMENDED RPM	CARTON QTY	COARSE UPC#	MEDIUM UPC#	VERY FINE UPC#
4-1/2 x 7/8	13,300	2,700-5,000	10	49686	49687	49688
4-1/2 x 5/8-11	13,300	2,700-5,000	10	49689	49690	46691
5 x 7/8	12,200	2,500-4,500	10	49692	49693	49694
5 x 5/8-11	12,200	2,500-4,500	10	49695	49696	49697



Felt/Wool Discs - Buffing

For fast mirror finishes

- Stainless steel, aluminum, sheet metal mild steel and brass.
- Flexible felt/wool disc easily works with contoured surfaces for consistent polishing action.
- Cool working action without burning.
- Designed for smooth polishing action.
- 100% virgin wool.
- **MUST USE WITH BUFFING COMPOUND.**

Buffing Compound

- Compounds will not discolor metals.
- White SS51 (1,200 grit) compound helps buff aluminum, steel, stainless and natural stone to the desired finish without adding scratches. High gloss finish.
- Green C-3 (2,000 grit) premium buffing compound works on aluminum, steel and stainless steels and eliminates drag lines while still achieving the desired finish and maximum luster.

UPC#	SIZE	RPM	CARTON QTY
49698	4-1/2 x 7/8	13,300	10
49700	4-1/2 x 5/8-11	13,300	10
49699	5 x 7/8	12,200	10
49701	5 x 5/8-11	13,300	10

UPC#	DESCRIPTION	GRIT	COLOR	CARTON QTY
49652	White SS51 Polishing Compound	1,200	White	1
49653	Green C-3 Polishing Compound	2,000	Green	1

CONVOLUTE WHEELS

CONVOLUTE WHEELS

Convolute Wheels

- CGW convolute wheels are made for long working life even if put in contact with sharp edges.
- Convolute wheels improve work surfaces without changing shapes or dimensions.
- Convolute wheels resist heating up and loading.
- **Deburring Wheels**
 - Designed for high stock removal, cool working and easy work piece conformability.
 - Quickly removes light burrs, blends machine & belt marks and applies final finishes.
 - For metal, plastic and composite materials.
 - **8A medium good for aluminum.**



ALUMINUM OXIDE

SILICON CARBIDE



SIZE	RPM	CARTON QTY	7 / S / FINE UPC#	8 / A / Medium UPC#	8 / S / Fine UPC#	9 / S / Fine UPC#
Deburring Wheels – General Purpose						
6 x 1/2 x 1	6,000	4	70130	70131	70132	70133
6 x 1 x 1	6,000	2	70134	70135	70136	70137
8 x 1/2 x 3	4,500	4	70138	70139	70140	70141
8 x 1 x 3	4,500	2	70142	70143	70144	70145
8 x 2 x 3	4,500	1			70148	70149

A=Aluminum Oxide, S=Silicon Carbide

Deburring Wheels - Metal Finishing

- Made for uniform finishing and light deburring without changing work piece dimensions.
- Blend coated abrasive scratch patterns and tool marks.
- Provides uniform distinct satin, cosmetic, brushed and antique finishes.
- For metal, plastic and composite materials.



ALUMINUM OXIDE



UPC#	SIZE	DENSITY / GRAIN / GRADE	RPM	CARTON QTY
Deburring Wheels – Metal Finishing				
70150	6 x 1 x 1	5 / A / Medium	6,000	2
70151	6 x 2 x 1	5 / A / Medium	6,000	1
70152	8 x 1 x 3	5 / A / Medium	4,500	2
70153	8 x 2 x 3	5 / A / Medium	4,500	1

CONVOLUTE & UNITIZED WHEELS

Deburring Wheels - Multi Finishing

- Made for general purpose cleaning, rust removal and removal of discoloration from welds.
- For metal, plastic and composite materials.
- Long life, high stock removal, conforms to work piece.
Runs directional.



SILICON CARBIDE



UPC#	SIZE	DENSITY / GRAIN / GRADE	RPM	CARTON QTY
Deburring Wheels – General Purpose				
70154	6 x 1 x 1	2 / S / Coarse	6,000	2
70155	6 x 1 x 1	2 / S / Medium	6,000	2
70156	6 x 2 x 1	2 / S / Coarse	6,000	1
70157	6 x 2 x 1	2 / S / Medium	6,000	1
70159	8 x 1 x 3	2 / S / Medium	4,500	2
70160	8 x 2 x 3	2 / S / Medium	4,500	1

Unitized Wheels with Arbor Hole

- Non-woven material impregnated with resin and compressed for finishing and long working life.
- Designed to resist tearing when working on sharp parts and edges.
- Easily deburrs, cleans, blends and polishes.
- For metal, plastic and composite materials.



ALUMINUM OXIDE

SILICON CARBIDE



SIZE	RPM	CARTON QTY	UPC#				
			2 / S / FINE	3 / S / FINE	2 / A / MEDIUM	6 / A / MEDIUM	8 / A / COARSE
Unitized Wheels – with hole							
1 x 1 x 3/16	35,100	40				72000	72001
3 x 1/8 x 1/4	15,100	25				72010	72011
3 x 1/8 x 3/8	15,100	25		72012			
3 x 1/4 x 1/4	15,100	25		72013			
3 x 1/4 x 3/8	15,100	25	72002	72014	72003	72004	72005
3 x 1/2 x 1/4	15,100	25		72015			
3 x 1/2 x 3/8	15,100	25		72016			
6 x 1/8 x 1	7,500	10		72019			
6 x 1/4 x 1/2	7,500	5		72017			
6 x 1/4 x 1	7,500	5	72006	72020	72007		
6 x 1/2 x 1/2	7,500	10		72018			
6 x 1/2 x 1	7,500	10	72008		72009		

A=Aluminum Oxide, S=Silicon Carbide

UNITIZED WHEELS

UNITIZED WHEELS

Unitized Quick Change Wheels - Roll On

- Designed for use on all disc sides which is ideal for hard to reach areas.
- Easily deburrs, cleans, blends and polishes.
- For metal, plastic and composite materials.



Rubber Holder Pads Required
(see page 60 for full program)

ALUMINUM OXIDE
SILICON CARBIDE



SIZE	RPM	DENSITY / GRAIN / GRADE	UPC#	CARTON QTY
Unitized Wheels – Quick Change, Roll On				
2"	22,100	2 / S / Fine	72040	10
		2 / A / Medium	72041	
		3 / S / Fine Line	72046	
		6 / A / Medium	72042	
3"	15,100	2 / S / Fine	72043	10
		2 / A / Medium	72044	
		3 / S / Fine Line	72047	
		6 / A / Medium	72045	

A=Aluminum Oxide, S=Silicon Carbide

Premium Unitized Right Angle Grinder Wheels

- Unitized material on a firm, long lasting backing for use on right angle grinders.
- Easily works on large and small areas to clean, blend, surface finish, and polish.
- For metal, plastic and composite materials.



ALUMINUM OXIDE
SILICON CARBIDE



Type 27

SIZE	RPM	CARTON QTY	2 / S / FINE UPC#	3 / S / FINE UPC#	6 / A / MEDIUM UPC#
Unitized Fiberglass Backed Wheels					
4-1/2 x 7/8	11,000	10	72050	72051	72052
4-1/2 x 5/8-11	11,000	10	72055	75056	72057
5 x 7/8	10,000	10	72053		72054
5 x 5/8-11	10,000	10	72058		72059

A=Aluminum Oxide, S=Silicon Carbide

SURFACE PREP WHEELS

Surface Preparation Wheels

- Non-woven material impregnated with abrasive grains for blending, finishing and removal of paint and rust.
- Blends and smooths coated abrasive scratch patterns.
- Easily removes welding or cutting discoloration on stainless steel.
- Compact backing minimizes work piece scratches, allows for full use of disc material and softer/buffing-like finishing
- Use on steel, aluminum, stainless and nonferrous metals
- **Fine/AO (maroon) wheels** ideal for cleaning, blending and finishing stainless steel.
- Very Fine/SC (gray) wheels for light finishes on metal, wood, composites and satin finishing aluminum.



ALUMINUM OXIDE
SILICON CARBIDE

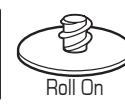


Type 27



SIZE	RPM	BOX QTY	UPC#	GRAIN	GRADE	UPC#	GRAIN	GRADE
Surface Preparation T27 Wheels								
4 x 5/8	13,700	10	53241	A/O Maroon	Fine	53246	S/C Gray	Very Fine
4-1/2 x 7/8	13,300	10	53242	A/O Maroon	Fine	53247	S/C Gray	Very Fine
4-1/2 x 5/8-11	13,300	10	53243	A/O Maroon	Fine	53248	S/C Gray	Very Fine
7 x 7/8	8,500	10	53244	A/O Maroon	Fine	53249	S/C Gray	Very Fine
7 x 5/8-11	8,500	10	53245	A/O Maroon	Fine	53250	S/C Gray	Very Fine

ALUMINUM OXIDE
SILICON CARBIDE



UPC#	SIZE	GRAIN	GRADE	RPM	BOX QTY
Aluminum Oxide Roll On Surface Preparation Discs					
53251	2" Medium	Aluminum Oxide Maroon	Medium	25,000	25
53252	3" Medium	Aluminum Oxide Maroon	Medium	20,000	10
Silicon Carbide Roll On Surface Preparation Discs					
53253	2" Super Fine	Silicon Carbide Gray	Super Fine	25,000	25
53254	3" Super Fine	Silicon Carbide Gray	Super Fine	20,000	10

EZ STRIP WHEELS

EZ Strip Wheels

- Non woven wheels for cleaning welds and fast removal of rust, scaling, oxidation, paints, sealants, and other clogging materials.
- EZ strip wheels can be used on stainless steel, steel, aluminum, titanium, non-ferrous metals, fibre glass, stone and wood.
- Red EZ strip wheels are more rigid for faster working on angled and irregular surfaces.
- Black EZ strip wheels clean and can provide a satin finish.



EZ Strip Wheels - Red

UPC#	SIZE	RPM	CARTON QTY
59204	4-1/2 x 7/8	11,000	10
59205	4-1/2 x 5/8-11	11,000	10
59208	5 x 7/8	9,800	10
59209	5 x 5/8-11	9,800	10
59206	7 x 7/8	7,000	10
59207	7 x 5/8-11	7,000	10

EZ Strip Wheels - Black

UPC#	SIZE	RPM	CARTON QTY
59200	4-1/2 x 7/8	11,000	10
59201	4-1/2 x 5/8-11	11,000	10
59210	5 x 7/8	9,800	10
59211	5 x 5/8-11	9,800	10
59202	7 x 7/8	7,000	10
59203	7 x 5/8-11	7,000	10

EZ Strip Wheels - Roll On

- Roll-on attachment for easy attachment



EZ Strip Wheels - Red, Roll On

UPC#	SIZE	RPM	CARTON QTY
59060	2 x 1/2	16,000	10
59062	3 x 1/2	10,500	10

EZ Strip Wheels - Black, Roll On

UPC#	SIZE	RPM	CARTON QTY
59061	2 x 1/2	16,000	10
59063	3 x 1/2	10,500	10

EZ Strip Wheels With 1/2" Arbor Hole

- Die cut into a disc shape with no backing
- Discs can easily be paired for extended working life.
Use the appropriate shaft when pairing.



EZ Strip Single Wheels with 1/2" Arbor Hole - BLACK

UPC#	SIZE	RPM	CARTON QTY
70038	4 x 1/2 x 1/2	8,000	10
70039	5 x 1/2 x 1/2	6,000	10
70040	6 x 1/2 x 1/2	5,500	10
70041	7 x 1/2 x 1/2	4,500	10
70042	8 x 1/2 x 1/2	4,000	10

EZ Strip Single Wheels with 1/2" Arbor Hole - RED

UPC#	SIZE	RPM	CARTON QTY
70046	4 x 1/2 x 1/2	8,000	10
70047	6 x 1/2 x 1/2	5,500	10
70048	8 x 1/2 x 1/2	4,000	10

EZ Strip Shafts

UPC#	SIZE	CARTON QTY
70043	1/4 x M8 shaft for EZ Strip Wheels	1
70044	1/4 x M12 shaft for Single EZ Strip Wheels	1
70045	5/16 x M8 shaft for Double EZ Strip Wheels	1

EZ Strip Wheels With 1/4" Spindle

- Spindle mount for quick attachment



EZ Strip Single Wheels with 1/4" mounted spindle - BLACK

UPC#	SIZE	RPM	CARTON QTY
70049	2 x 1/2 x 1/4	16,000	10
70050	3 x 1/2 x 1/4	10,500	10
70051	4 x 1/2 x 1/4	8,000	10

EZ Strip Double Wheels with 1/4" mounted spindle - BLACK

UPC#	SIZE	RPM	CARTON QTY
70052	2 x 1 x 1/4	16,000	10
70053	3 x 1 x 1/4	10,500	10
70054	4 x 1 x 1/4	8,000	10

SURFACE CONDITIONING DISCS

SURFACE CONDITIONING DISCS

Surface Conditioning Discs - Hook and Loop

- Impregnated with abrasive grain for fast material removal.
- Designed for long working life and resists loading.
- Use on steel, stainless steel, aluminum, titanium and alloys, fibre glass, plastic and glass fibre.



Surface Conditioning Discs

UPC#	SIZE	SPEC.	RPM	CARTON QTY
70000	4"	Coarse – Gold	13,000	10
70001	4"	Medium – Maroon	13,000	10
70002	4"	Very Fine – Grey	13,000	10
70003	4"	Ultra Fine – Lt. Grey	13,000	10
70004	4"	Heavy Duty – Brown	13,000	10
70005	4"	Heavy Duty – Maroon	13,000	10
70006	4-1/2"	Coarse – Gold	12,000	10
70007	4-1/2"	Medium – Maroon	12,000	10
70008	4-1/2"	Very Fine – Grey	12,000	10
70009	4-1/2"	Ultra Fine – Lt. Grey	12,000	10
70010	4-1/2"	Heavy Duty – Brown	12,000	10
70011	4-1/2"	Heavy Duty – Maroon	12,000	10
70012	5"	Coarse – Gold	10,000	10
70013	5"	Medium – Maroon	10,000	10
70014	5"	Very Fine – Grey	10,000	10
70015	5"	Ultra Fine – Lt. Grey	10,000	10
70016	5"	Heavy Duty – Brown	10,000	10
70017	5"	Heavy Duty – Maroon	10,000	10
70018	6"	Coarse – Gold	7,000	10
70019	6"	Medium – Maroon	7,000	10
70020	6"	Very Fine – Grey	7,000	10
70021	6"	Extra Coarse – Brown	7,000	10
70022	7"	Extra Coarse – Brown	6,000	10
70023	7"	Coarse – Gold	6,000	10
70024	7"	Medium – Maroon	6,000	10
70025	7"	Very Fine – Grey	6,000	10
70026	8"	Coarse – Gold	4,800	10
70027	8"	Medium – Maroon	4,800	10
70028	8"	Very Fine – Grey	4,800	10

Surface Conditioning Discs - Hook and Loop

- Impregnated with abrasive grain for fast material removal.
- Designed for long working life and resists loading.
- Use on steel, stainless steel, aluminum, titanium and alloys, fibre glass, plastic and glass fibre.
- *Use with 48224, 48225 and 48226 backup pad.

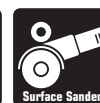


Surface Conditioning Discs with Arbor Hole

UPC#	SIZE	SPEC.	RPM	CARTON QTY
70029	4-1/2 x 7/8	Coarse – Gold	12,000	10
70030	4-1/2 x 7/8	Medium – Maroon	12,000	10
70031	4-1-2 x 7/8	Very Fine – Grey	12,000	10
70032	5 x 7/8	Coarse – Gold	10,000	10
70033	5 x 7/8	Medium – Maroon	10,000	10
70034	5 x 7/8	Very Fine – Grey	10,000	10
70035	7 x 7/8	Coarse – Gold	6,000	10
70036	7 x 7/8	Medium – Maroon	6,000	10
70037	7 x 7/8	Very Fine – Grey	6,000	10

Backing Pads

- 4-8" pads with internal 5/8-11 threads.
- 1/4" foam for medium stiffness and maximum grip for hook and loop discs.
- *Polypropylene back-up pad for right angle surface conditioning discs.



Hook & Loop Backing Pads

UPC#	SIZE	CARTON QTY
49532	4 x 5/8 -11	1
49533	4-1/2 x 5/8 -11	1
49534	5 x 5/8 -11	1
49535	6 x 5/8 -11	1
49536	7 x 5/8 -11	1
49537	8 x 5/8 -11	1

Right Angle Grinder Backing Pads

UPC#	SIZE	CARTON QTY
*48224	4-1/2 – polypropylene w/ 7/8" arbor hole	1
*48225	5 – polypropylene w/ 7/8" arbor hole	1
*48226	7 – polypropylene w/ 7/8" arbor hole	1

QUICK CHANGE DISCS

QUICK CHANGE CONDITIONING DISCS

Grit Comparison Chart

	GRAIN	COLOR	STANDARD	HD
Coarse	A/O	Brown	60	50-60
Medium	A/O	Maroon	80-120	60-100
Very Fine	A/O	Blue	180-240	-
Super Fine	S/C	Gray	240-320	-

2-4" Quick Change Discs - Surface Conditioning

- For stainless steel, and ferrous & non-ferrous metals.
- Premium** - Blending and rust/burr removal.
- Finish Pro** - High performance design for demanding cleaning, deburring and finishing.

Roll On

SIZE	RPM	DENSITY / GRAIN / GRADE	PREMIUM	FINISH PRO	CARTON QTY
			SURFACE CONDITIONING DISCS UPC#	SURFACE CONDITIONING DISCS UPC#	
2"	25,000	Coarse - Brown	59503	59743 <small>New</small>	50
		Medium - Maroon	59504	59744	
		A Very Fine - Blue	59505	59745	
		S Ultra Fine - Grey	59608		
3"	20,000	Coarse - Brown	59506	59746	25
		Medium - Maroon	59507	59747	
		A Very Fine - Blue	59508	59748	
		S Ultra Fine - Grey	59609		
4"	12,000	Coarse - Brown	59509		25
		Medium - Maroon	59510		
		A Very Fine - Blue	59511		

Turn On

SIZE	RPM	DENSITY / GRAIN / GRADE	PREMIUM	FINISH PRO	CARTON QTY
			SURFACE CONDITIONING DISCS UPC#	SURFACE CONDITIONING DISCS UPC#	
2"	25,000	Coarse - Brown	59610	59749 <small>New</small>	50
		Medium - Maroon	59611	59750	
		Very Fine - Blue	59612	59751	
3"	20,000	Coarse - Brown	59614	59752	25
		Medium - Maroon	59615	59753	
		Very Fine - Blue	59616	59754	

Heavy Duty 2-3" Quick Change Discs - Surface Conditioning, Roll On

- For steel, stainless steel and ferrous & non-ferrous metal.
- Heavy Duty** - Aggressive surface conditioning discs for tough cleaning, deburring and finishing.



SIZE	RPM	DENSITY / GRAIN / GRADE	HEAVY DUTY	CARTON QTY
			SURFACE CONDITIONING DISCS UPC#	
2"	25,000	Coarse - Brown	59739 <small>New</small>	50
		Medium - Maroon	59740	
3"	20,000	Coarse - Brown	59741	25
		Medium - Maroon	59742	

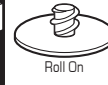
Coated Quick Change Discs on pages 55-59.



Roll On

Turn On

Uses USA Developed, Automated Spin-Weld Attachment Process for Fast and Secure Fastening.



NON WOVEN / INTERLEAF FLAP WHEELS

NON WOVEN FLAP WHEELS / INTERLEAF FLAP WHEELS

Non Woven Flap Wheels

- 100% non woven aluminum oxide flap wheels provide excellent flexibility and conforms to work surface.
- Available in coarse, medium, and fine.



1 x 1 x 1/4			12,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36450	Coarse (Tan)	10	
36451	Medium (Maroon)	10	
36452	Fine (Maroon)	10	

3 x 1 x 1/4			10,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36456	Coarse (Tan)	10	
36457	Medium (Maroon)	10	
36458	Fine (Maroon)	10	

2 x 1 x 1/4			12,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36453	Coarse (Tan)	10	
36454	Medium (Maroon)	10	
36455	Fine (Maroon)	10	

3 x 2 x 1/4			10,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36459	Coarse (Tan)	10	
36460	Medium (Maroon)	10	
36461	Fine (Maroon)	10	

Interleaf Flap Wheels

- Alternating flaps of non-woven and coated abrasive materials for fast, uniform surface preparation and finishes.
- Medium grade wheels easily clean, blend, and debur aluminum & stainless steels, and ferrous & non-ferrous metals.
- Very fine grade wheels for satin finishing on aluminum & stainless steels, and ferrous and non-ferrous metals.
- Spindle mount for quick and easy changes.



2 x 1 x 1/4			11,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36207	Medium 60 Grit	10	
36208	Medium 80 Grit	10	
36209	Very Fine 120 Grit	10	
36210	Very Fine 180 Grit	10	

3 x 1 x 1/4			8,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36211	Medium 60 Grit	10	
36212	Medium 80 Grit	10	
36213	Very Fine 120 Grit	10	
36214	Very Fine 180 Grit	10	

See pages 61-64 for Flap Wheels.

3 x 2 x 1/4			8,000 R.P.M.
UPC#	SPEC.	CARTON QTY	
36250	Extra Coarse Grit	10	
36215	Medium 60 Grit	10	
36216	Medium 80 Grit	10	
36217	Very Fine 120 Grit	10	
36218	Very Fine 180 Grit	10	

COTTON FIBER ABRASIVES

COTTON FIBER WHEELS AND QUICK CHANGE DISCS

New Cotton Fiber Wheels - Blending

- General Fabrication, Tank Fabrication (Pharmaceutical, Petro-Chemical, Dairy), Shipbuilding, Food Service.
- Grind and finish with one wheel for long working life.
- Cotton fiber impregnated with aluminum oxide grain and latex bond for superior stainless steel and aluminum blending and finishing.
- Smooth grinding action. Aluminum will not load-up.



SIZE	RPM	CARTON QTY	A36GFX UPC#	A54GFX UPC#
4-1/2 x 1/4 x 7/8	13,300	25	49549	49600
4-1/2 x 1/4 x 5/8-11	13,300	10	49550	49601
5 x 1/4 x 7/8	12,200	25	49551	49602
5 x 1/4 x 5/8-11	13,300	10	49552	49603
7 x 1/4 x 7/8	8,500	25	49553	49604
7 x 1/4 x 5/8-11	8,500	10	49554	49605

New Cotton Fiber Quick Change Discs - Roll On

- Aircraft/Aerospace, Food Service, Automotive and General Fabrication.
- No smearing on titanium and stainless steel.
- Grind and finish with one disc.
- Engineered to last 10 times longer than coated discs.
- Smooth grinding action. Aluminum will not load-up.
- Flexible disc structure for applications that need a disc with give.
- Ideal for light weld removal, blending, deburring and finishing.



2" Quick Change Disc			3" Quick Change Disc		
UPC#	SPEC.	CARTON QTY	UPC#	SPEC.	CARTON QTY
49555	A36F	25	49558	A36F	25
49556	A54F	25	49559	A54F	25
49557	A80F	25	49560	A80F	25

MOUNTED POINTS AND WHEELS

New Cotton Fiber Mounted Points

- Aircraft/Aerospace, Automotive, Tool & Die, Fabrication.
- Deburr, blend and finish with one mounted point.
- Provide superior metal removal control without changing part geometry.
- Ideal for deburring and polishing stainless steel, aluminum, mild steel and exotic metals.

ALUMINUM OXIDE



W163 W177 B52 B122

SHAPE	SIZE	SHANK DIAMETER	SHANK LENGTH	SPEC	R.P.M.	UPC#	CARTON QTY
W163	1/4 x 1/2	1/8"	1-1/2"	A80GFX	59,990	49561	25
W163	1/4 x 1/2	1/8"	1-1/2"	A80MTX	59,990	49562	25
W163	1/4 x 1/2	1/8"	1-1/2"	A120GFX	59,990	49563	25
W177	3/8 x 3/4	1/8"	1-1/2"	A80GFX	33,750	49564	25
W177	3/8 x 3/4	1/8"	1-1/2"	A80MTX	33,750	49565	25
W177	3/8 x 3/4	1/8"	1-1/2"	A120GFX	33,750	49566	25
B52	3/8 x 3/4	1/8"	1-1/2"	A80GFX	45,370	49567	25
B52	3/8 x 3/4	1/8"	1-1/2"	A80MTX	45,370	49568	25
B52	3/8 x 3/4	1/8"	1-1/2"	A120GFX	45,370	49569	25
B122	3/8" Ball	1/8"	1-1/2"	A80GFX	61,650	49570	25
B122	3/8" Ball	1/8"	1-1/2"	A80MTX	61,650	49571	25
B122	3/8" Ball	1/8"	1-1/2"	A120GFX	61,650	49572	25

New Cotton Fiber High Speed Deburring & Finishing Wheels - Type 1

- Aluminum oxide impregnated cotton fiber and fiberglass reinforcement (for die grinder speeds).
- Soft bond - for light deburring and finishing.
- Hard bond - for deburring and long life.

2 x 1/8 x 1/4

28,000 R.P.M.

UPC#	SPEC.	CARTON QTY
49573	ACRS-HARD	25
49574	AMED-SOFT	25
49575	AFN-SOFT	25

3 x 1/8 x 1/4

20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
49576	ACRS-HARD	25
49577	AMED-SOFT	25
49578	AFN-SOFT	25



ALUMINUM OXIDE



Type 1

3 x 1/8 x 3/8

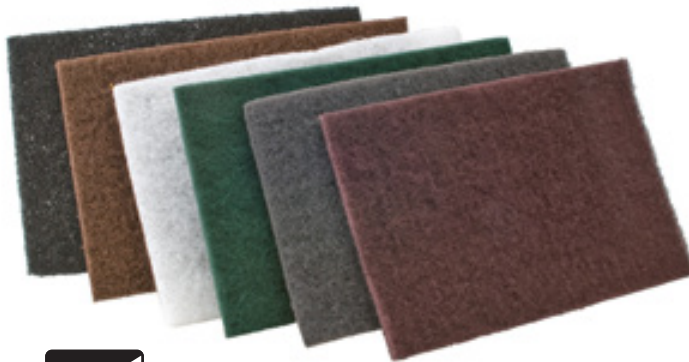
20,000 R.P.M.

UPC#	SPEC.	CARTON QTY
49579	ACRS-HARD	25
49580	AMED-SOFT	25
49581	AFN-SOFT	25

HAND PADS

Premium Surface Conditioning Hand Pads

- Strong, yet flexible premium pad construction for surface preparation.
- Maroon pads for rust removal, cleaning and surface preparation.
- Grey pads for fine finishing and surface preparation.
- Green pads for heavy duty cleaning.
- White pads are constructed from a non-abrasive material for light duty cleaning.
- Tan pads for rust removal and coarse finishes
- Black pads for aggressive use; heavy cleaning, deburring and finishing.



6 x 9 Premium Non-Woven Hand Pads

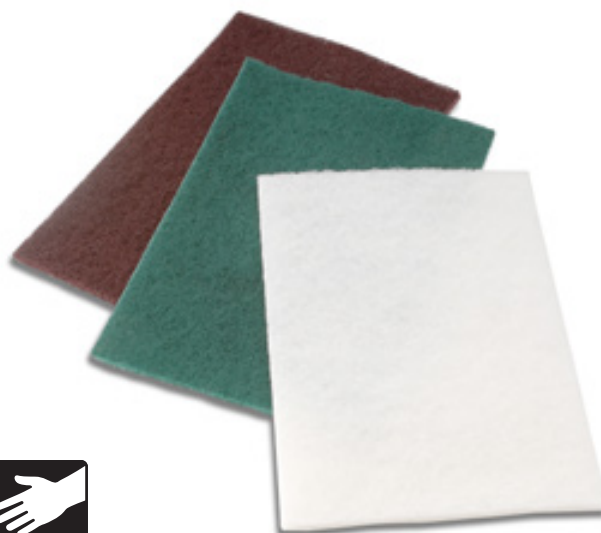
UPC#	SPEC.	CARTON QTY
36287	Maroon – All Purpose	20
36283	Grey – Ultra Fine	20
36284	Green – General Cleaning	20
36285	White – Light Duty	20
36286	Tan – Heavy Duty	20
71151	Black – Heavy Duty	20

Bulk Shrink Wrap Packs of 10

UPC#	SPEC.	CARTON QTY
36288	Maroon – Bulk	100

Surface Conditioning Hand Pads - Economy

- Non-woven material engineered for surface preparation.
- Maroon - **All Purpose**
 - Impregnated with abrasive grain and synthetic resin for long-lasting, versatile use.
 - Recommended for removing rust and corrosion and in surface preparation and cleaning applications.
- Green - **General Cleaning**
 - Impregnated with medium abrasive grain for easy use and rinsing.
 - Recommended for cleaning all types of equipment, metal surfaces and other durable surfaces.
- White - **Light Duty**
 - Non-abrasive material does not make scratches and is long lasting.
 - Recommended for cleaning sensitive surfaces, metal, formica, solid surfaces, glass, and mirror.



6 x 9 Non-Woven Hand Pads

UPC#	SPEC.	CARTON QTY*
36241	Maroon – All Purpose	60
36242	Green – General Cleaning	60
36243	White – Light Duty	60

* Carton contains 6 packages of 10

RESIN BONDED WHEELS

RESIN BONDED WHEELS



View Video
3-in-1 Wheels: Cut/Grind/Finish



CGW TV

Scan the QR code with your smart phone to visit our video channel



THE RIGHT ABRASIVE FOR



Right Angle Grinders – Page 110-125

- Premium Quickie Cut™ Cut-Off Wheels
- Quickie Cut™ Cut-Off Wheels
- Quickie Cut™ EXTREME Wheels
- Super Quickie Cut™ Cut-Off Wheels
- Free Cut-Off Wheels
- 3/32" Quickie Cut™ Cut-Off Wheels
- .094 3-in-1 Wheels Cut/Grind/Finish
- .075 Super Quickie Cut™ Cut/Grind Combo Wheels
- Depressed Center Wheels



Die Grinders – Page 126-127

- 1-1/2" - 4" Cut-Off Wheels



Circular Saws – Page 128

- 7" Cut-Off Wheels



Stationary Saws – Page 128-129

- 10" - 20" Cut-Off Wheels
- Fast Cut Premium 20" Cut-Off Wheels



Chop Saws – Page 130-131

- 10" - 16" Cut-Off Wheels

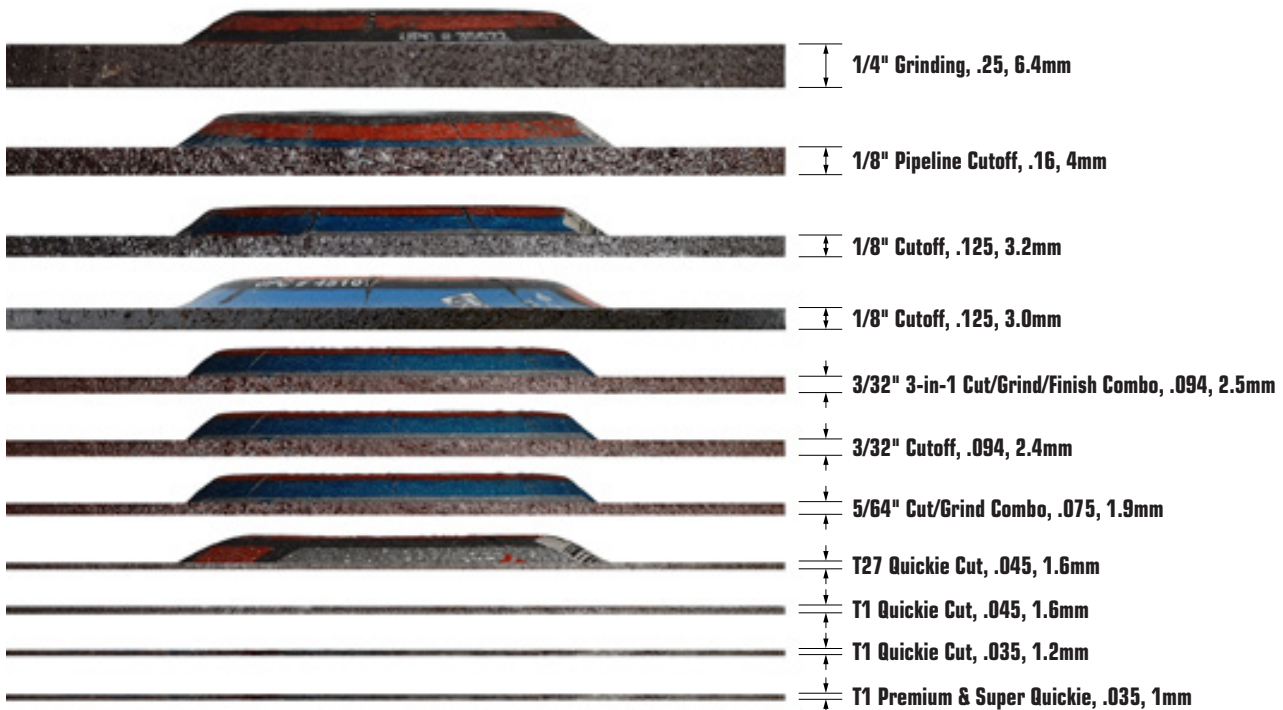


Gas Saws – Page 132-135

- 12" - 16" Cut-Off Wheels
- 14" - 16" Rail Wheels
- All Purpose Demo Blade

ALL YOUR TOOL NEEDS

CGW has the Broadest Resin Bonded Wheel Program in the Industry



Quickie Cut™ Thin Cut-Off Wheels - The Market Leader in Performance

- **Less** cutting resistance for faster working
- **Less** dust generation
- **Less** work piece waste
- **Less** burrs and sparks
- **Less** vibration for easier operation
- Engineered for longer machine life
- All CGW cut-off wheels easily cut carbon and stainless steels with one disc.
- Contaminant-Free wheels contain $\leq 0.1\%$ iron, sulfur, or chlorine for rust-free and corrosion-free results.
- CGW wheels are made from premium abrasive grains, top quality fiberglass reinforcements and top of the line fully automated equipment.

Tips for Selecting the Right Wheel:

- **All CGW Thin Cut-Off Wheels cut steel and stainless steel.**
- Contaminant-Free wheels cut steel and stainless steels freely and contain $\leq 0.1\%$ iron, sulfur, or chlorine.
- The finer the grit (60 grit), the thinner the wheel - for quick cutting action
- The larger the grit (36 grit), the thicker the wheel - for longer working life




View Video

3-in-1 Wheels: Cut/Grind/Finish



CGW TV
Scan the QR code with your smart phone to visit our video channel



All CGW Quickie Cut™ and ULTRA branded wheels are made to  standards (high-grade production and high safety test standards). See page 211 for more information.

#1 WHEEL ON THE MARKET GUARANTEED SALE!

METAL/STAINLESS STEEL

New Premium Quickie Cut™ Cut-Off Wheels - Metal/Stainless Steel, Type 1

- New technology delivers significant increase in cutting, speed and number of cuts.
- Flexible wheel design provides extremely free cutting - even from the start
- Reduction of work piece stress reduces burn and extra work such as cleaning and deburring.
- Constant cutting speed without kickback or tendency of the wheel getting stuck.
- Less cutting dust, noise and vibration.design for fast cutting and longer life.
- Contaminant free wheels contains $\leq 0.1\%$ iron, sulfur, or chlorine for rust-free and corrosion-free results.
- **Applications:** Thin sheet metals, metal and stainless fabrication, profiles, small cross-sections and steel reinforcements.



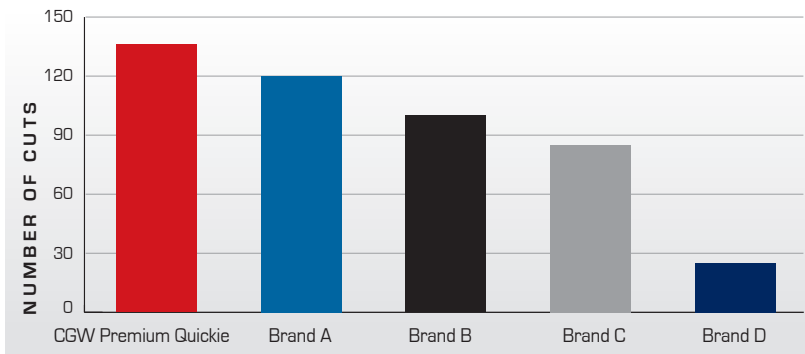
Type 1

ALUMINUM OXIDE



Premium Quickie Cut™ Cut-Off Wheels - Metal/Stainless Steel

UPC#	SIZE	SPEC-GRIT-GRADE	RPM	CARTON QTY
53257	4-1/2 x .035 x 7/8	A60-RBF	13,300	25
53258	5 x .035 x 7/8	A60-RBF	12,200	25



ALUMINUM & TILE GROUT CUTTER WHEELS

New Premium Quickie Cut™ Cut-Off Wheels - Aluminum, Type 1

- Premium aluminum oxide grain and **A46-N**-grade bond engineered for superior non-loading cutting action.
- Clean steady cuts.
- Minimal burrs.
- Suitable for aluminum cutting and non-ferrous metals.
- **Applications:** Aluminum, copper and bronze fabrication, sheet and plate work.
- **Industries:** Aerospace, Automotive, Boating, Building & Construction, Naval & Military Plants, Oil & Gas.



ALUMINUM OXIDE



Type 1

Premium Quickie Cut™ Cut-Off Wheels - Aluminum

UPC#	SIZE	SPEC-GRIT-GRADE	RPM	CARTON QTY
53255	4-1/2 x .045 x 7/8	A46-NBF	13,300	25
53256	5 x .045 x 7/8	A46-NBF	12,200	25

Quickie Cut™ Thin Reinforced Cut-Off Wheels - Type 27

- **A46N-ALU:** Aluminum Oxide mixture. Contains a non-loading bond. Good on Aluminum.

ALUMINUM OXIDE



Type 27

Quickie Cut™ Reinforced Cut-Off Wheels - Aluminum

UPC#	SIZE	SPEC-GRIT-GRADE	RPM	CARTON QTY
45004	4-1/2 x .045 x 7/8	A46N-ALU	13,300	25
45146	4-1/2 x .045 x 5/8-11	A46N-ALU	13,300	10
70114	5 x .045 x 7/8	A46N-ALU	12,250	25
45147	5 x .045 x 5/8-11	A46N-ALU	12,250	10
70115	6 x .045 x 7/8	A46N-ALU	10,200	25
45148	6 x .045 x 5/8-11	A46N-ALU	10,200	10

Tile/Grout Cutter - Type 1

- **C36:** Wheel specifically designed for cutting tiles, ceramics and marble.

SILICON CARBIDE



Type 1

Tile/Grout Cutter

UPC#	SIZE	SPEC-GRIT-GRADE	RPM	CARTON QTY
45208	4-1/2 x 1/16 x 7/8	C36P	13,300	25
45209	6 x 1/16 x 7/8	C36P	10,200	25

METAL AND STEEL - TYPE 1

QUICKIE CUT™ CUT-OFF WHEELS

Quickie Cut™ Reinforced Cut-Off Wheels - Type 1

- **ZA60-TB-Flex:** Flexible wheel design for fast cutting and easy work penetration.
- **ZA-36-T-Rigid:** Thicker (.045), rigid wheel design for fast cutting and longer life.



ZA60-TB-Flex



ZA36-T - Rigid

ZIRCONIA AO
ALUMINUM OXIDE



Type 1

Quickie Cut™ EXTREME Reinforced Cut-Off Wheels - Type 1

- **ZA60-T:** Higher percentage of patented, specially treated zirconia grain and premium fiberglass.
 - Provides up to 10% more cuts, better finish, reduces burning and produces fewer burrs.
 - Flexible and long life (highest G-ratio).

SUPER Quickie Cut™ Reinforced Cut-Off Wheels - Type 1

- **A60-T:** Maximum cutting speeds with minimal burrs.
 - Provides excellent finish with reduced vibration.
 - #1 wheel for steel applications.

All CGW Cut-Off Wheels Cut Steel and Stainless Steel

SIZE	RPM	CARTON QTY.	QUICKIE-CUT		QUICKIE-CUT EXTREME	SUPER QUICKIE-CUT A60-T	SUPER QUICKIE CARTON QTY.
			ZA60-TB-FLEX	ZA36-T-RIGID	ZA60-T		
4 x .040 x 5/8	15,300	25	45014				
4-1/2 x .035 x 7/8	13,300	25	45010				
4-1/2 x .040 x 7/8	13,300	25			45224		
4-1/2 x .045 x 7/8	13,300	25		35514		45102	50
5 x .040 x 7/8	12,250	25	45011				
5 x .045 x 7/8	12,250	25		35516	45226	45105	50
6 x .040 x 3/8	10,200	25	45051				
6 x .040 x 1/2	10,200	25	45050				
6 x .040 x 5/8	10,200	25	45016				
6 x .040 x 7/8	10,200	25	45012				
6 x .045 x 7/8	10,200	25		35517	45227	45106	25
7 x 1/16 x 7/8	8,500	25	45013	35518			
9 x 1/16 x 5/8	6,600	25		45100			

STAINLESS STEEL - TYPE 1

Quickie Cut™ Contaminant-Free Cut-Off Wheels - Type 1

- Contaminant free wheels contains ≤0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results.
- High quality grain mixture is more friable and cuts freely.
- WA: White Aluminum Oxide grain for stainless steel, food grade, and nuclear applications.



WA60-B-Flex



WA36-T - Rigid



Type 1

Quickie Cut™ EXTREME Contaminant-Free Reinforced Cut-Off Wheels - Type 1

- WA60-T: Higher percentage of patented, specially treated zirconia grain and premium fiberglass.
 - Provides up to 10% more cuts, better finish, reduces burning and produces fewer burrs.

Super Quickie Cut™ Contaminant-Free Reinforced Cut-Off Wheels - Type 1

- High performance wheels, maximum cuts with one wheel.
- Maximum cutting speeds with minimal burr and smoother finish.

Type 1 Reinforced Quickie-Cut™ Cut-Off Wheels

SIZE	RPM	CARTON QTY.	QUICKIE-CUT		QUICKIE-CUT EXTREME	SUPER QUICKIE-CUT A60-T	SUPER QUICKIE CARTON QTY.
			WA60-TB-FLEX	WA36-T-RIGID	WA60-T		
4-1/2 x .035 x 7/8	13,300	25	36303		45229	45041	50
4-1/2 x .045 x 7/8	13,300	25		35515	45230	45042	50
5 x .040 x 7/8	12,250	25	36304				
5 x .045 x 7/8	12,250	25		36301	45231	45104	50
6 x .040 x 5/8	10,200	25			36306		
6 x .045 x 7/8	10,200	25		36302	45232	45080	25
7 x 1/16 x 7/8	8,500	25		New 53259			
9 x 1/16 x 5/8	6,600	25		New 53260			

METAL AND STEEL - TYPE 27

QUICKIE CUT™ CUT-OFF WHEELS

Quickie Cut™ Thin Reinforced Cut-Off Wheels - Type 27

- **ZA:** Zirconia and Aluminum Oxide mixture. General purpose wheel. Zirconia grain allows for faster cutting and longer life. Excellent on Steel/Stainless.

ZIRCONIA
ALUMINUM OXIDE



Type 27



Quickie Cut™ EXTREME Reinforced Cut-Off Wheels - Type 27

- **ZA60-T:** Higher percentage of patented, specially treated white grain and premium fiberglass.
 - Provides up to 10% more cuts, better finish, reduces burning and produces fewer burrs.

Now Available with 5/8-11 Hub

SUPER Quickie Cut™ Reinforced Cut-Off Wheels - Type 27

- High performance extra-thin wheels - Our thinnest in the market!
- Cuts Carbon and Stainless Steels - **Maximum cuts with one wheel.**
- #1 Wheel for steel applications.
- Maximum cutting speeds with minimal burrs.
- A60T Super Quickie-Cut
 - High performance wheels, maximum cuts with one wheel.
 - Maximum cutting speeds with minimal burrs.

All CGW Cut-Off Wheels Cut Steel and Stainless Steel

SIZE	RPM	CARTON QTY.	QUICKIE-CUT		SUPER QUICKIE-CUT	
			ZA60-S	ZA60-T	A60-T	SUPER QUICKIE CARTON QTY.
4 x .045 x 5/8	15,300	25	45001			
4-1/2 x .045 x 7/8	13,300	25	45002	45225	45103	50
4-1/2 x .045 x 5/8-11	13,300	10	45141	45149	45152	10
5 x .045 x 7/8	12,250	25	45005	45238		
5 x .045 x 5/8-11	12,250	10	45142	45150		
6 x .045 x 7/8	10,200	25	45007	45228	45098	25
6 x .045 x 5/8-11	10,200	10	45143	45151	45153	10
7 x 1/16 x 7/8	8,500	25	45008			
7 x 1/16 x 5/8-11	8,500	10	45144			
9 x 1/16 x 7/8	6,600	25	45047			
9 x 1/16 x 5/8-11	6,600	10	45145			

STAINLESS STEEL - TYPE 27

Quickie Cut™ Contaminant-Free Cut-Off Wheels - Type 27

- Contaminant free wheels contains ≤0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results.
- High quality grain mixture is more friable and cuts freely.
- WA: White Aluminum Oxide grain for stainless steel, food grade, and nuclear applications.



Now Available with 5/8-11 Hub

Type 27



WHITE AD
ALUMINUM OXIDE

CF
CONTAMINANT-FREE
Iron, Sulfur, and Chlorine ≤ 0.1%

Right Angle Grinder



Quickie Cut™ EXTREME Contaminant-Free Reinforced Cut-Off Wheels - Type 27

- WA60-T:** Higher percentage of patented, specially treated white aluminum oxide grain and premium fiberglass.
 - Provides up to 10% more cuts, better finish, reduces burning and produces fewer burrs.

Super Quickie Cut™ Contaminant-Free Reinforced Cut-Off Wheels - Type 27

- High performance wheels, maximum cuts with one wheel.
- Maximum cutting speeds with minimal burr and smoother finish.

Type 27 Reinforced Quickie-Cut™ Cut-Off Wheels

SIZE	RPM	CARTON QTY.	QUICKIE-CUT		SUPER QUICKIE-CUT	
			WA60-R	WA60-T	A60-T	SUPER QUICKIE CARTON QTY.
4-1/2 x .045 x 7/8	13,300	25	45003	45233	45099	50
4-1/2 x .045 x 5/8-11	13,300	10	45154	45158	45159	10
5 x .045 x 7/8	12,250	25	45006			
5 x .045 x 5/8-11	12,250	10	45155			
6 x .045 x 7/8	10,200	25	45017			
6 x .045 x 5/8-11	10,200	10	45156			
7 x 1/16 x 7/8	8,500	25	45009			
7 x 1/16 x 5/8-11	8,500	10	45157			

Application Chart - All Quickie Cut™ Cut-Off Wheels

SPEC.	Angle Iron - General Iron / Steel Bar	Metal Decking & Cable Pipe Line	Wall Studs	High Tensile Steel	Stainless Steel Sheets	Stainless Steel Bars	Rail Cutting	Cast Steel	Gray Cast Iron	Aluminum Alloys	Copper	Brass, Bronze	Titanium
ZA36T / A60T	*	*	*	*	*	*	*			*	*	*	*
ZA60T / ZA60S	*	*	*	*	*	*	*			*	*	*	*
A46N-ALU								*		*	*	*	*
WA36-T - Contaminant-Free	*	*	*	*	*	*	*						
WA60T / WA60-R - Contaminant-Free	*	*	*	*	*	*	*						
ZA60S	*	*	*	*	*	*	*	*	*	*	*	*	*

* = Recommended
• = May Be Used

FERROUS METALS

CASTINGS

NON-FERROUS METALS

QUICKIE CUT™ CONTAMINANT-FREE CUT-OFF WHEELS

QUICKIE CUT™ CUT-OFF WHEELS

Quickie Cut™ 3/32 (.094 / 2.5mm) Thin Reinforced Cut-Off Wheels T1 & T27

- WA: Aluminum Oxide - Metal & Stainless
 - 3/32" (.094) thickness for cutting/notching wheels.
- Externally reinforced with a unique bond for long wheel life and faster cutting action.



WHITE AO



Type 1

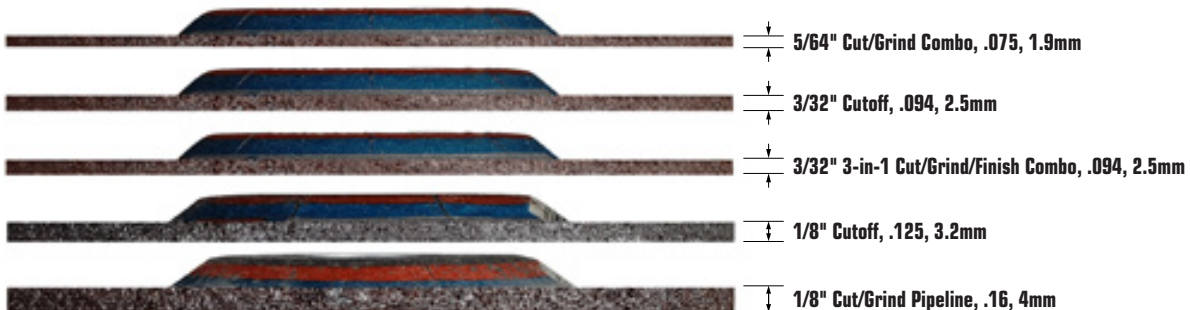
UPC#	SIZE	SPEC.	RPM	CARTON QTY
45028	4-1/2 x 3/32 x 7/8	WA36-S-BF	13,300	25
45030	5 x 3/32 x 7/8	WA36-S-BF	12,250	25
45046	6 x 3/32 x 7/8	WA36-S-BF	10,200	25
45032	7 x 3/32 x 7/8	WA36-S-BF	8,500	25



Type 27

UPC#	SIZE	SPEC.	RPM	CARTON QTY
45019	4 x 3/32 x 5/8	WA36-S-BF	15,300	25
45020	4-1/2 x 3/32 x 7/8	WA36-S-BF	13,300	25
45021	4-1/2 x 3/32 x 5/8-11	WA36-S-BF	13,300	10
45022	5 x 3/32 x 7/8	WA36-S-BF	12,250	25
45023	5 x 3/32 x 5/8-11	WA36-S-BF	12,250	10
45024	6 x 3/32 x 7/8	WA36-S-BF	10,200	25
45025	6 x 3/32 x 5/8-11	WA36-S-BF	10,200	10
45026	7 x 3/32 x 7/8	WA36-S-BF	8,500	25
45027	7 x 3/32 x 5/8-11	WA36-S-BF	8,500	10
45113	9 x 3/32 x 7/8	WA36-S-BF	6,600	25
45114	9 x 3/32 x 5/8-11	WA36-S-BF	6,600	10

1.9mm, 2.5mm, 3.2mm & 4mm Wheel Thickness Profile



NEW INNOVATION

3-in-1 Wheels .094 Cut/Grind/Finish

- High performance wheels made to cut quickly, grind easily and finish work surfaces with ONE wheel.
- Contaminant free wheel has $\leq 0.1\%$ iron, sulfur, or chlorine for rust-free and corrosion-free results.
- Cost effective wheel eliminates frequent wheel changes and increases production times.
- Three layers of fiberglass net reinforcement provides added strength and flexibility.
- For stainless steel and steel.



Type 27



ALUMINUM OXIDE



Type 27 Cut/Grind/Finish Wheels - High Performance

UPC#	SIZE	SPEC.	RPM	CARTON QTY
45218	4-1/2 x .094 (3/32) x 7/8	A36S	13,300	25
45219	4-1/2 x .094 (3/32) x 5/8-11	A36S	13,300	10
45220	5 x .094 (3/32) x 7/8	A36S	12,250	25
45221	5 x .094 (3/32) x 5/8-11	A36S	12,250	10
45222	6 x .094 (3/32) x 7/8	A36S	10,200	25
45223	6 x .094 (3/32) x 5/8-11	A36S	10,200	10
45234	7 x .094 (3/32) x 7/8	A36S	8,600	25
45235	7 x .094 (3/32) x 5/8-11	A36S	8,600	10

Super Quickie Cut .075 Cut/Grind Combo Wheels

- Extra thin high performance cut-off wheels - cut and grind with one wheel. Save production time and costs.
- Breakthrough .075 thin design for minimal cutting resistance for faster cutting action - cuts quicker than thicker pipeline wheels.
- Three layers of fiberglass net reinforcement provides added strength and flexibility.
- For stainless steel and steel.



Scan the QR code with your smart phone to visit our video channel



Type 27



ALUMINUM OXIDE



Type 27 Cut/Grind Combo Wheels - High Performance

UPC#	SIZE	SPEC.	RPM	CARTON QTY
70094	4-1/2 x .075 (5/64) x 7/8	A46U	13,300	25
70095	4-1/2 x .075 (5/64) x 5/8-11	A46U	13,300	10
70096	5 x .075 (5/64) x 7/8	A46U	12,250	25
70097	5 x .075 (5/64) x 5/8-11	A46U	12,250	10

1/8" CUTTING & NOTCHING WHEELS

Depressed Center Wheels 1/8" (.125 Thick; 3.2mm) Cutting & Notching Wheels

ULTRA

- Premium wheels made from superior raw materials and advanced technologies for longer working life.
- Ultra Wheels give consistent cutting action for quicker and easier working.

A24R: Aluminum oxide grain. R-grade bond for fast cutting and long life. Works well on steel, cast iron, and welds.

WA24S: White aluminum oxide grain with S-grade bond. Contaminant Free wheel for fast cutting of stainless steel, ferrous metals, food grade, and nuclear applications. Contains ≤0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results.

ZA24T: Zirconia aluminum oxide grain mixture with T-grade bond. High performance design for fast cutting and longer life. Excellent cutting of ferrous metals and stainless steels.



ALUMINUM OXIDE

WHITE AO

ZIRCONIA



■ A24Q *Fast Cut:*

Aluminum oxide grain. Q-grade bond for fast cutting.
(Economical choice for metal, steel and general applications.)

Type 27

T27 Depressed Center Wheels 1/8" Cutting & Notching (.125 Thick; 3.2mm)

SIZE	RPM	CARTON QTY.	ULTRA – New and Improved			
			METAL/STAINLESS	STAINLESS/METAL	METAL	METAL
			ZA24T	WA24S	A24R	FAST CUT A24Q
3 x 1/8 x 3/8	19,100	25				45052
4 x 1/8 x 3/8	15,300	25	45043			35671
4 x 1/8 x 5/8	15,300	25	45044			35609
4-1/2 x 1/8 x 7/8	13,300	25	35614	35616	35612	36219
4-1/2 x 1/8 x 5/8-11	13,300	10	35615	35617	35613	36220
5 x 1/8 x 7/8	12,250	25	45210	45037	35675	36221
5 x 1/8 x 5/8-11	12,250	10	45211	45038	35676	36222
6 x 1/8 x 7/8	10,200	25	45212	36189	35630	36223
6 x 1/8 x 5/8-11	10,200	10	45213	36190	35631	36224
7 x 1/8 x 7/8	8,600	25	45214	35638	35634	36225
7 x 1/8 x 5/8-11	8,600	10	45215	35639	35635	36226
9 x 1/8 x 7/8	6,650	25	45216	35652	35648	36227
9 x 1/8 x 5/8-11	6,650	10	45217	35653	35649	36228

New items are in bold

1/8" Wheel Profile



1/8" Pipeline Cutoff, .16, 4mm



1/8" Cutoff, .125, 3.2mm

1/8" PIPELINE WHEELS

Depressed Center Wheels 1/8" Pipeline Wheels (.16 Thick; 4mm)

Pipeline wheels are engineered for cutting and light grinding, as well as, pipeline applications such as cutting and light grinding of pipeline root pass, or welds.

ULTRA

- Premium wheels made from superior raw materials and advanced technologies for longer working life.
- Ultra Wheels give consistent cutting action for quicker and easier working.

Improved

A24T: Aluminum oxide grain with T-grade bond for fast cutting of ferrous metals.

Improved

ZA24T: Zirconia aluminum oxide grain mixture with T-grade bond. High performance design for fast cutting and longer life. Excellent cutting of ferrous metals and stainless steels.



ALUMINUM OXIDE
ZIRCONIA



Type 27

- A24T Fast Cut:** Aluminum oxide single grain wheel. Designed for cutting and light grinding as well as pipeline applications such as cutting and light grinding of pipeline root pass, or weld and flame cut grinding. Economical choice.

T27 Depressed Center Wheels 1/8" Pipeline - 25% Thicker (.16 Thick; 4mm)

SIZE	RPM	CARTON QTY.	ULTRA – New and Improved		
			METAL/STAINLESS	METAL	METAL
			ZA24T	A24T	FAST CUT A24T
4 x 1/8 x 5/8	15,300	25			45045
4-1/2 x 1/8 x 7/8	13,300	25	35667	35666	59100
4-1/2 x 1/8 x 5/8-11	13,300	10	35665	35664	59101
5 x 1/8 x 7/8	12,250	25	45204	45200	36244
5 x 1/8 x 5/8-11	12,250	10	45205	45201	36245
6 x 1/8 x 7/8	10,200	25	45203	45206	36246
6 x 1/8 x 5/8-11	10,200	10	45202	45207	36247
7 x 1/8 x 7/8	8,600	25	35681	35679	36229
7 x 1/8 x 5/8-11	8,600	10	35682	35680	36230
9 x 1/8 x 7/8	6,650	25	35683	35662	36248
9 x 1/8 x 5/8-11	6,650	10	37670	35663	36249

New items are in bold

Application Chart - 1/8" Cutting/Notching and 1/8" Pipeline

SPEC.	Angle Iron – General	Iron / Steel Bar	Metal Decking & Cable	Pipe Line	Wall Studs	High Tensile Steel	Stainless Steel Sheets	Stainless Steel Bars	Rail Cutting	Cast Steel	Gray Cast Iron	Ductile Iron Pipe & Concrete	Aluminum Alloys	Copper	Brass, Bronze	Titanium	Asphalt / Green Concrete	Concrete	Roof – Tiles	Slate	Masonry	Marble	Paving Bricks	Firing Bricks	Solid Bricks	Clay Pipe
A24R	*	*	•	*	•	•	•	•	*	*	*															
A24T	*	*	*	*	*	•	*	*					•	•	•	•										
C24R											•	•		*	*	*	•	*	*	*	*	*	*	*	*	*
WA24S	•	•		•		•	*	*																		
ZA24T	*	*	*	*		*	*	*		*	*															

* = Recommended
• = May Be Used

FERROUS METALS

CASTINGS

NON-FERROUS METALS

MASONRY

ULTRA 1/4" GRINDING WHEELS

Depressed Center Wheels - Type 27 1/4" Grinding Wheels

ULTRA

- Premium wheels made from superior raw materials and advanced technologies for longer working life.
- Ultra Wheels give consistent grinding action for quicker and easier working.
- **ZA24T: Zirconia Aluminum Oxide Grain**
 - Zirconia grain is sharper, cuts faster, and lasts longer than aluminum oxide grain.
 - T-grade bond for fast cutting and longer life.
 - Recommended for steel, cast iron, and stainless steel.
- **WA24S: White Aluminum Oxide Grain – Stainless Steel**
 - Contaminant-Free design for fast cutting of stainless steel, ferrous metals, food grade, and nuclear applications.
 - Contains ≤0.1% iron, sulfur, or chlorine for rust-free and corrosion-free results.
 - S-grade bond.
- **A24N Aluminum Oxide Grain**
 - N-grade bond for fast stock removal.
 - For metal and stainless.
- **A24R: Aluminum Oxide Grain**
 - #1 selling 1/4" Depressed Center Grinding Wheel.
 - R-grade bond for longer life and excellent stock removal.



ZIRCONIA

WHITE AO

ALUMINUM OXIDE



Type 27



T27 Depressed Center Wheels 1/4" for Grinding (.25 Thick; 6.4mm)

SIZE	RPM	CARTON QTY.	ULTRA – New and Improved			While Supplies Last
			METAL/STAINLESS	STAINLESS/METAL	METAL	METAL
			ZA24T	WA24S	A24R	A24N
4 x 1/4 x 3/8	15,300	25	New 45036			
4 x 1/4 x 5/8	15,300	25	New 35611			
4-1/2 x 1/4 x 7/8	13,300	25	35624	35673	35620	
4-1/2 x 1/4 x 5/8-11	13,300	10	35625	35674	35621	
5 x 1/4 x 7/8	12,250	25	37535	37543	35626	36402*
5 x 1/4 x 5/8-11	12,250	10	37530	37531	35628	36403*
6 x 1/4 x 7/8	10,200	25	45039	45048	35632	
6 x 1/4 x 5/8-11	10,200	10	45040	45049	35633	36405*
7 x 1/4 x 7/8	8,600	25	35644	35677	35640	36406*
7 x 1/4 x 5/8-11	8,600	10	35645	35678	35641	36407*
9 x 1/4 x 7/8	6,600	25	35658	45081	35654	
9 x 1/4 x 5/8-11	6,600	10	35659	45082	35655	

Discontinued

FAST CUT 1/4" GRINDING WHEELS

DEPRESSED CENTER WHEELS – GRINDING

Fast Cut Depressed Center Wheels Type 27 & Type 28 1/4" Grinding Wheels

- **A24N Fast Cut: Aluminum Oxide Grain**
 - Soft N-grade bond for fast stock removal.
 - Excellent ratio of stock removal/wheel loss.
 - Economical choice for metal and low-grade stainless.
- **A24R Fast Cut: Aluminum Oxide Grain**
 - Economical choice for fast metal grinding.
 - Premium Grain.
- **A24T Fast Cut: Aluminum Oxide Grain**
 - Hard T-grade bond for longer life.
 - Recommended for metal, edge grinding or when a harder a wheel is needed.



ALUMINUM OXIDE



Type 27

T27 Depressed Center Wheels 1/4" for Grinding (.25 Thick; 6.4mm)

SIZE	RPM	CARTON QTY.	METAL	METAL	METAL
			FAST CUT A24N	FAST CUT A24R	FAST CUT A24T
3 x 1/4 x 3/8	18,000	25	45053		
4 x 1/4 x 3/8	15,300	25	35672		
4 x 1/4 x 5/8	15,300	25	35699	35610	
4-1/2 x 1/4 x 7/8	13,300	25	35622	36255	36102
4-1/2 x 1/4 x 5/8-11	13,300	10	35623	36256	36103
5 x 1/4 x 7/8	12,250	25	35627	36257	
5 x 1/4 x 5/8-11	12,250	10	35629	36258	
6 x 1/4 x 7/8	10,200	25	36231	36259	
6 x 1/4 x 5/8-11	10,200	10	36232	36260	
7 x 1/4 x 7/8	8,600	25	35642	36261	36104
7 x 1/4 x 5/8-11	8,600	10	35643	36262	36105
9 x 1/4 x 7/8	6,600	25	35656	36263	
9 x 1/4 x 5/8-11	6,600	10	35657	36264	

Type 28

T28 Depressed Center Wheels 1/4" for Grinding

SIZE	RPM	CARTON QTY.	METAL
			FAST CUT A24R
7 x 1/4 x 7/8	8,600	25	35646
7 x 1/4 x 5/8-11	8,600	10	35647
9 x 1/4 x 7/8	6,600	25	35660
9 x 1/4 x 5/8-11	6,600	10	35661

Hub Adaptor Kit

UPC#	SIZE/SPEC.	CARTON QTY
48228	CP-50 Adapter Kit	10

PREMIUM WHEELS

New **C3 Green Wheels**
Our Fastest Metal Removal Wheel

- High concentration of ceramic grain provides for very fast grinding and long life.
- Contains less than 0.1% of sulfur & chlorine and virtually no iron.
- Use on: stainless steel, mild steel, hard face, titanium, inconel, aluminum
- AS (ceramic grain) and L (special grains).



CERAMIC



1/8" / 3.2mm / .125

C3 Green Grinding Wheels - Type 27

UPC#	SIZE	SPEC.	RPM	CARTON QTY
49750	4-1/2 x 1/8 (3.2mm) x 7/8	ASL-36P-BF	13,300	25
49751	4-1/2 x 1/8 (3.2mm) x 5/8-11	ASL-36P-BF	13,300	10

New **Green Grind Grinding Wheels - Type 27**
Exceptionally Fast Grinding

- Premium grain allows for high performance grinding action.
- 50% faster metal removal than aluminum oxide wheels.
- Ideal for tank fabrication, power plant maintenance and metal fabrication.
- Contains less than 0.1% of sulfur & chlorine and virtually no iron.
- Grain and bond engineered for cooler working. Does not discolor or warp stainless steel.
- Made for smoother, quieter working and less operator fatigue.
- Use on: stainless steel, mild steel, hard face, titanium, inconel, aluminum.



ZIRCONIA

ALUMINUM OXIDE



5/32" / 4mm / .16

Green Grind Grinding Wheels - Type 27

UPC#	SIZE	GRIT	RPM	CARTON QTY
49543	4-1/2 x 5/32 (4mm) x 7/8	36	13,300	25
49544	4-1/2 x 5/32 (4mm) x 5/8-11	36	13,300	10
49545	5 x 5/32 (4mm) x 7/8	36	12,250	25
49546	5 x 5/32 (4mm) x 5/8-11	36	12,250	10
49547	7 x 5/32 (4mm) x 7/8	36	8,500	25
49548	7 x 5/32 (4mm) x 5/8-11	36	8,500	10

FGF WHEELS

FGF Wheels

Flex, Grind, Finish

- Waffle pattern on wheel face for cooler grinding and longer working life
- Engineered to absorb vibrations for reduced operator fatigue.
- Recommended for metal, steel, aluminum, stainless steel and non-ferrous metals.



WHITE AD



Type 27

FGF Wheels

UPC#	SIZE	SPEC.	RPM	CARTON QTY
36265	4-1/2 x 1/8 x 7/8	WA46-Q-BF	13,300	25
36266	4-1/2 x 1/8 x 5/8-11	WA46-Q-BF	13,300	10
36267	5 x 1/8 x 7/8	WA46-Q-BF	12,250	25
36268	5 x 1/8 x 5/8-11	WA46-Q-BF	12,250	10
36269	7 x 1/8 x 7/8	WA46-S-BF	8,600	25
36270	7 x 1/8 x 5/8-11	WA46-S-BF	8,600	10

FGF-Special Wheels

Flex, Grind, Finish

- Raised knob pattern on wheel face for exceptionally cool grinding and no material load up.
- Engineered for easy grinding and blending on curved and straight work pieces without gouging
- Recommended for metal, steel, aluminum, stainless steel, cast iron and non-ferrous metals.
- No back-up pad required



WHITE AD



Type 29

FGF-Special Wheels

UPC#	SIZE	SPEC.	RPM	CARTON QTY
36271	4-1/2 x 1/8 x 7/8	WA36-R-BF	13,300	25
36272	4-1/2 x 1/8 x 5/8-11	WA36-R-BF	13,300	10
36273	4 1/2 x 1/8 x 7/8	WA60-R-BF	13,300	25
36274	4-1/2 x 1/8 x 5/8-11	WA60-R-BF	13,300	10
36275	5 x 1/8 x 7/8	WA36-R-BF	12,250	25
36276	5 x 1/8 x 5/8-11	WA36-R-BF	12,250	10
36277	5 x 1/8 x 7/8	WA60-R-BF	12,250	25
36278	5 x 1/8 x 5/8-11	WA60-R-BF	12,250	10
36279	7 x 1/8 x 7/8	WA36-R-BF	8,600	25
36280	7 x 1/8 x 5/8-11	WA36-R-BF	8,600	10
36281	7 x 1/8 x 7/8	WA60-R-BF	8,600	25
36282	7 x 1/8 x 5/8-11	WA60-R-BF	8,600	10

ALUMINUM

Aluminum Wheels

Depressed Center Wheels:

Premium AO Grain – Aluminum A30N

- Type 27 grinding wheels for aluminum guaranteed to outperform competitor wheels.
- Soft N-grade bond for easy grinding of welding seams, sprues, and cast iron skin.
- Recommended for aluminum, copper, zinc, and other soft materials.

Fast Cut AO Grain – Aluminum A30N

- Aluminum Oxide and Silicon Carbide grain mixture for easy grinding of soft metals.
- Recommended for non-ferrous metals.



ALUMINUM

ALUMINUM OXIDE



T27 Depressed Center Wheels 1/4" for Grinding (.25 Thick; 6.4mm)

SIZE	RPM	CARTON QTY.	ALUMINUM T27 A30N	ALUMINUM FAST CUT T27 A30N
4 x 1/4 x 5/8	15,300	25	36106	70098
4-1/2 x 1/4 x 7/8	13,300	25	36107	70099
4-1/2 x 1/4 x 5/8-11	13,300	10	36108	70100
5 x 1/4 x 7/8	12,200	25	36109	70101
5 x 1/4 x 5/8-11	12,200	10	36110	70102
7 x 1/4 x 7/8	8,600	25	36111 (qty 10)	70103
7 x 1/4 x 5/8-11	8,600	10	36112	70104
9 x 1/4 x 7/8	6,600	25	36156 (qty 10)	
9 x 1/4 x 5/8-11	6,600	10	36157	

*New items are in bold

Aluminum Flap Discs



SIZE	GRIT	RPM	CARTON QTY	ALUMINUM Thickness Regular	
				T27 UPC#	T29 UPC#
4-1/2 x 7/8	36	13,300	10	43081	43101
4-1/2 x 7/8	60	13,300	10	43084	43104
4-1/2 x 5/8-11	36	13,300	10	43091	43111
4-1/2 x 5/8-11	60	13,300	10	43094	43114
5 x 7/8	36	12,200	10	SM	43181
5 x 7/8	60	12,200	10	SM	43184
5 x 5/8-11	36	12,200	10	SM	43191
5 x 5/8-11	60	12,200	10	SM	43194
7 x 7/8	36	8,600	10	43241	43261
7 x 5/8-11	36	8,600	10	43251	43271

Quickie Cut™ Thin Reinforced Cut-Off Wheels - Type 1 & Type 27



SIZE	RPM	CARTON QTY.	ALUMINUM A46N-BF		ALUMINUM A46N	
			T1 UPC#	T27 UPC#	T1 UPC#	T27 UPC#
4-1/2 x .045 x 7/8	13,300	25	New 53255	45004	53256	70114
5 x .045 x 7/8	12,250	25	New 53256	70114		70115
6 x .045 x 7/8	10,200	25				

Concrete Wheels

- **Depressed Center Wheels:**
Fast Cut C24R: Silicon Carbide Grain – Concrete
 - Silicon Carbide grain and R-grade bond for easy working on masonry, concrete, and stone.
- **Tile/Grout Cutter – Type 1:**
C36: Tile/Grout
 - Wheel specifically designed for cutting tiles, ceramics and marble.



T27 & T28 Depressed Center Wheels 1/4" for Grinding (.25 Thick; 6.4mm)



SIZE	RPM	CARTON QTY.	CONCRETE/STONE	
			FAST CUT T27 C24R	FAST CUT T28 C24R
4 x 1/4 x 5/8	15,300	25	37510	
4-1/2 x 1/4 x 7/8	13,300	25	37520	
4-1/2 x 1/4 x 5/8-11	13,300	10	37525	
7 x 1/4 x 7/8	8,600	25	37545	35698
7 x 1/4 x 5/8-11	8,600	10	37540	36597
9 x 1/4 x 7/8	6,600	25	37555	36289
9 x 1/4 x 5/8-11	6,600	10	37550	36290

*New items are in bold

T27 Depressed Center Wheels 1/8" for Cutting & Notching (.125 Thick; 3.2mm)

SIZE	RPM	CARTON QTY.	CONCRETE/STONE
			FAST CUT C24R
4-1/2 x 1/8 x 7/8	13,300	25	35618
4-1/2 x 1/8 x 5/8-11	13,300	10	35619
7 x 1/8 x 7/8	8,600	25	35636
7 x 1/8 x 5/8-11	8,600	10	35637
9 x 1/8 x 7/8	6,600	25	35650
9 x 1/8 x 5/8-11	6,600	10	35651

Tile/Grout Cutter - Type 1

SIZE	RPM	CARTON QTY.	CONCRETE/STONE
			C36P
4-1/2 x 1/16 x 7/8	13,300	25	45208
6 x 1/16 x 7/8	10,200	25	45209

DIE GRINDER GRINDING AND CUT-OFF WHEELS

HIGH-SPEED REINFORCED CUT-OFF WHEELS

Mini Depressed Center Grinding Wheels - Type 27

- Automotive parts manufacturing, sheet metal production, finishing work, weld spot cleaning, ornamental iron work, rough die cast cleaning & detailing, light to heavy stock removal.
- Compact and lightweight for easy use in hard to reach work areas.
- Advanced abrasive grain blend for smooth grinding.
- Designed to last longer than traditional sanding discs and some carbide burs in the market.
- Fiberglass reinforced for overall safety.



Mini Depressed Center Grinding Wheels - Type 27

UPC#	SIZE	SPEC.	RPM	CARTON QTY
49682	2-5/16 x 5/32 x 3/8	A40	20,000	25
49683	2-5/16 x 5/32 x 3/8	A60	20,000	25
49684	2-5/16 x 5/32 x 3/8	A80	20,000	25

High-Speed Reinforced Cut-Off Wheels - Type 1

- **A:** Aluminum Oxide - Metal & Steel



Aluminum Oxide - USA Made

SIZE	SPEC.	UPC# for ARBOR HOLE			RPM	CARTON QTY
		1/4"	3/8"	5/8"		
1-1/2 x 1/32	A60-R-BF	35687	35688		45,000	50
2 x 1/32	A60-R-BF		35689		30,000	50
2 x 1/16	A60-R-BF	45066	35690		30,000	50
2 x 1/8	A24-R-BF		35691		30,000	50
3 x 1/32	A60-R-BF	35500	35501		23,900	50
3 x 1/16	A36-R-BF	35502	35503		23,900	50
3 x 1/16	A60-R-BF	45085	45086		23,900	50
3 x 1/8	A24-R-BF	35504	35505		23,900	25
4 x 1/32	A60-R-BF	35506	35507		22,000	50
4 x 1/16	A36-R-BF	35508	35509		22,000	50
4 x 1/16	A60-R-BF	45087	45088	35510	22,000	50
4 x 1/8	A24-R-BF	35511	35512		22,000	25

DIE GRINDER GRINDING AND CUT-OFF WHEELS

HIGH-SPEED REINFORCED CUT-OFF WHEELS

Zirconia Premium Cut-Off Wheels - Type 1

- **ZA:** Zirconia Aluminum Oxide - Metal, steel and stainless. Longer lasting life and easy cutting action.



Zirconia - USA Made

SIZE	SPEC.	UPC# for ARBOR HOLE			RPM	CARTON QTY
		1/4"	3/8"			
3 x 1/32	ZA60-T-BF	36175	36176		23,900	50
3 x 1/16	ZA36-T-BF	36173	36174		23,900	50
4 x 1/32	ZA60-T-BF	36179	36180		19,100	50
4 x 1/16	ZA36-T-BF	36177	36178		19,100	50

Fast Cut Cut-Off Wheels - Type 1

- **A:** Aluminum Oxide Grain - Economical choice for metal, steel and general applications.



Aluminum Oxide - Fast Cut

SIZE	SPEC.	UPC# for ARBOR HOLE			RPM	CARTON QTY
		1/4"	3/8"	5/8"		
2 x 1/32	A60-R-BF		59111		30,000	50
2 x 1/16	A60-R-BF		59112		30,000	50
2 x 1/8	A24-R-BF		59113		30,000	50
3 x 1/32	A60-R-BF	59102	59103		23,900	50
3 x 1/16	A36-R-BF	59104	59105		23,900	50
3 x 1/8	A24-R-BF		59114		23,900	25
4 x 1/32	A60-R-BF	59106	59107		22,000	50
4 x 1/16	A36-R-BF		59108	59115	22,000	50
4 x 1/8	A24-R-BF		59116		22,000	25

Cut-Off Wheel Mandrel Adaptor



Cut-Off Wheel Mandrel Adaptor

UPC#	SIZE/SPEC.	CARTON QTY
48227	1/4"-3/8" Mandrel Adaptor	1
48245	3/8"-24 Mandrel Adaptor	1

CIRCULAR & SAW WHEELS

7" Circular Saw Cut-Off Wheels - Type 1

- **A:** Aluminum Oxide - Metal & Steel
- **C:** Silicon Carbide - Stone/Concrete
 - .045 wheels extra thin for faster cutting with less resistance.



ALUMINUM OXIDE



Type 1

SILICON CARBIDE

UPC#	SIZE	SPEC.	RPM	CARTON QTY
37573	7 x .045 x 5/8	A60-S-BF	8,600	25
37574	7 x .045 x 5/8	C30-R-BF	8,600	25
35573	7 x 3/32 x 5/8-◆	A24-R-BF	8,600	25
35574	7 x 3/32 x 5/8-◆	C24-R-BF	8,600	25

Fast Cut

- Economical choice for metal, steel and general applications.

UPC#	SIZE	SPEC.	RPM	CARTON QTY
59109	7 x 3/32 x 5/8-◆	A24-R-BF	8,600	25
59110	7 x 3/32 x 5/8-◆	C24-R-BF	8,600	25

10"-20" Stationary Saw Cut-Off Wheels - Type 1

ALUMINUM OXIDE



Type 1



Fast Cut Performance Stationary Saw Wheels

- Higher grade aluminum oxide and bond. Guaranteed to provide more cuts than standard Fast Cut wheels.

UPC#	SIZE	SPEC.	RPM	CARTON QTY
70146	20 x 5/32 x 1	A24-R-BF	3,100	10
70147	20 x 3/16 x 1	A24-R-BF	3,100	10

Fast Cut Stationary Saw Wheels

- Economical choice for metal, steel and general applications.

UPC#	SIZE	SPEC.	RPM	CARTON QTY
70111	10 x 1/8 x 5/8	A24-R-BF	6,110	10
70105	12 x 1/8 x 1	A24-R-BF	5,100	10
36233	14 x 1/8 x 1	A24-Q-BF	4,400	10
70106	16 x 5/32 x 1	A24-R-BF	3,820	10
70107	18 x 5/32 x 1	A24-R-BF	3,400	10
70108	20 x 5/32 x 1	A24-R-BF	3,100	10
70109	20 x 3/16 x 1	A24-R-BF	3,100	10

STATIONARY SAW WHEELS

10"-20" Stationary Saw Cut-Off Wheels - Type 1

Stationary saw cut-off wheels cut structural steel, bar stock, tubing and non-ferrous metals.

- **A:** Aluminum Oxide - Metal & Steel.
- **C:** Silicon Carbide - Stone/Concrete.
- **WA:** White Aluminum Oxide - Excellent on stainless steel, and ferrous metals.



Type 1

UPC#	SIZE	SPEC.	RPM	CARTON QTY
35577	10 x 1/16 x 5/8	A24-R-BF	6,110	10
35579	10 x 1/8 x 5/8	A24-R-BF	6,110	10
35580	10 x 1/8 x 1	A24-R-BF	6,110	10
*45071	12 x 1/16 x 1	A46-T-BF	5,100	10
35581	12 x 1/8 x 1	A24-R-BF	5,100	10
35582	14 x 1/8 x 1	A24-R-BF	4,400	10
37671	14 x 1/8 x 1	C24-R-BF	4,400	10
45089	14 x 1/8 x 1	WA24-S-BF	4,400	10
35584	16 x 5/32 x 1	A24-R-BF	3,820	10
*37673	16 x 5/32 x 1	A24-T-BF	3,820	10
35851	20 x 7/32 x 1	A30R-B-BF	3,100	10

*While supplies last.

Application Chart - Stationary Saw Cut-Off Wheels

SPEC.	Angle Iron - General Iron / Steel Bar	Metal Decking & Cable Pipe Line	Wall Studs	High Tensile Steel	Stainless Steel Sheets	Stainless Steel Bars	Rail Cutting	Cast Steel	Gray Cast Iron	Ductile Iron Pipe & Concrete	Aluminum Alloys	Copper	Brass, Bronze	Titanium	Asphalt / Green Concrete	Concrete	Roof - Tiles	Slate	Masonry	Marble	Paving Bricks	Firing Bricks	Solid Bricks	Clay Pipe
A24R	*	*	•	*	•	•	•	*	*															
C24R									•	•		*	*	*	•	*	*	*	*	*	*	*	*	*
ZA24R	*	*	*	*	*	*	*	*	*		*	*	*	*										

* = Recommended

• = May Be Used

FERROUS METALS

CASTINGS

NON-FERROUS METALS

MASONRY

CHOP SAW CUT-OFF WHEELS

CHOP SAW CUT-OFF WHEELS

12"-16" Chop Saw Wheels - Type 1

- **A:** Aluminum Oxide - Metal & Steel. 14" available in **single (SR)** and **double (DR)** fiberglass reinforced.
- **Fast Cut:** Economical choice for metal, steel and general applications.
- **ALU:** Aluminum Oxide - Special non-loading formulation for cutting aluminum.



Type 1

10-16" Double Reinforced - General Purpose

UPC#	SIZE	SPEC.	RPM	CARTON QTY
35578	10 x 3/32 x 5/8	A24-R-BF	6,110	10
35575	12 x 3/32 x 1	A36-P-BF	5,100	10
35576	14 x 3/32 x 1	A36-P-BF	4,400	10
36133	16 x 3/32 x 1	A36-P-BF	3,820	10

14" Single & Double Reinforced - General Purpose - Fast Cut

UPC#	SIZE	SPEC.	RPM	CARTON QTY
70110	10 x 3/32 x 5/8	A24-R-BF	6,110	10
70112	12 x 3/32 x 1	A36-P-BF	5,100	10
70113	14 x 3/32 x 1	A30-P-BF SR	4,400	10
36234	14 x 7/64 x 1	A36-S-BF	4,400	10

14" Single Reinforced - General Purpose

UPC#	SIZE	SPEC.	RPM	CARTON QTY
35670	14 x 3/32 x 1	A30-P-BF SR	4,400	10

14" Double Reinforced - Aluminum

UPC#	SIZE	SPEC.	RPM	CARTON QTY
36122	14 x 3/32 x 1	A30-N-BF	4,400	10



5-Pack Merchandiser

UPC#	SIZE	SPEC.	RPM	CARTON QTY
35686	14 x 3/32 x 1	A30P SR	4,400	10
35685	14 x 3/32 x 1	A36P DR	4,400	10

*SR=Single or internal reinforced chop saw blade

**DR=Double reinforced chop saw blade

14" Chop Saw Wheels - Type 1

- **A:** Aluminum Oxide - Metal & Steel.
- **WA: White Aluminum Oxide** -
Excellent on stainless steel, ferrous metals.
- **ZA: Zirconia Aluminum Oxide** - Metal & Stainless;
High performance cutting, recommended on thicker stock applications such as angle iron, angle bars.



14" Double Reinforced - Angle Iron/Heavy Bars

- Zirconia grain, excellent on all ferrous metal applications, especially thicker stock
- Our #1 performing chop saw cut-off wheel.

UPC#	SIZE	SPEC.	RPM	CARTON QTY
36125	14 x 3/32 x 1	ZA24-S-BF	4,400	10

14" Double Reinforced - MR Stud

- Designed for drywall stud, aluminum shelving, thin metal

UPC#	SIZE	SPEC.	RPM	CARTON QTY
36124	14 x 3/32 x 1	A30-R-BF	4,400	10

14" Single Reinforced - Stainless

- Designed for stainless steel applications
- Contamination Free, Fe+S+Cl≤0.1%
- No iron, sulfur or chlorine



UPC#	SIZE	SPEC.	RPM	CARTON QTY
36123	14 x 3/32 x 1	WA36-P-BF	4,400	10

Application Chart - Chop Saw Wheels

SPEC.	Angle Iron - General Iron / Steel Bar	Metal Decking & Cable	Pipe Line	Wall Studs	High Tensile Steel	Stainless Steel Sheets	Stainless Steel Bars	Rail Cutting	Cast Steel	Gray Cast Iron	Ductile Iron Pipe & Concrete	Aluminum Alloys	Copper	Brass, Bronze	Titanium
A36P / A302P*	*	*	•	•	*	•	•	•	•	•	•				
A30R-Mr Stud				*					•	•	•				
A30N-ALU										•		*	•	•	•
WA36P					*	*	*								
ZA24S	*	*	*	*	*	*	*	*	•	•	•				

*A302 is single reinforced (SR). The SR blades have a lower G-ratio but higher cutting rate compared to the double reinforced.

- * = Recommended
- = May Be Used

HIGH SPEED CUT-OFF WHEELS

HIGH SPEED CUT-OFF WHEELS

12"-16" High Speed Cut-Off Wheels - Type 1

- **A24R:** Aluminum Oxide - Metal & Steel, Stainless. General purpose. 14" are available in both double and triple reinforced.
- **A24T:** Aluminum Oxide - Metal Decking & Cable. Harder bond for more cuts on thinner metals. 14" are triple reinforced.
- **AC:** (Mix of A/C) - Used on Ductile Iron. 14" are available in both double and triple reinforced.
- **C16:** Silicon Carbide - Asphalt/Green Concrete
- **C24:** Silicon Carbide - Stone/Concrete



Type 1



● **EB – Electronically Balanced.** All 12-14" wheels are automatically balanced during manufacturing. All 12-14" wheels are guaranteed to be less than 3 and 3.5 grams out of balance. CGW wheels are safer, cause less vibration and are more consistent.

● CGW uses heavy duty fiberglass reinforcement, so our 12-14" high speed wheels meet speed specifications for all machines on the market.

● Premium 14" A24R, A24T, AC & 16" wheels are **triple reinforced (TR)** to provide extra safety.

● 12 & 14" wheels can be used with both gas and electric high speed machines.

● 12 & 14" wheels sold in (2) 10 piece retail packs and are master packed (contains 20 pieces).



12-16" A24-R, Metal, Steel, Stainless General Purpose

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	MASTER PACK
35587	12 x 5/32 x 20mm	A24-R-BF	6,400	10	20
35589	12 x 5/32 x 1	A24-R-BF	6,400	10	20
36158	14 x 5/32 x 20mm	A24-R-BF	5,500	10	20
36159	14 x 5/32 x 1	A24-R-BF	5,500	10	20
35599	14 x 5/32 x 20mm	A24-R-BF TR	5,500	10	20
35600	14 x 5/32 x 1	A24-R-BF TR	5,500	10	20
36142	16 x 5/32 x 20mm	A24-R-BF TR	4,800	10	20
36143	16 x 5/32 x 1	A24-R-BF TR	4,800	10	20

12-14" A24-T, Metal Decking & Cable, Thinner Metals

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	MASTER PACK
36114	12 x 5/32 x 20mm	A24-T-BF	6,400	10	20
36115	12 x 5/32 x 1	A24-T-BF	6,400	10	20
36113	14 x 5/32 x 20mm	A24-T-BF TR	5,500	10	20
36126	14 x 5/32 x 1	A24-T-BF TR	5,500	10	20

TR=Triple Reinforced

12"-16" High Speed Cut-Off Wheels - Type 1

- **AC:** [Mix of A/C] - Used on Ductile Iron. 14" are available in both double and triple reinforced.
- **C16:** Silicon Carbide - Asphalt/Green Concrete
- **C24:** Silicon Carbide - Stone/Concrete



- **EB – Electronically Balanced.** All 12-14" wheels are automatically balanced during manufacturing. All 12-14" wheels are guaranteed to be less than 3 and 3.5 grams out of balance. CGW wheels are safer, cause less vibration and are more consistent.



- Premium 14" A24R, A24T, AC & 16" wheels are **triple reinforced (TR)** to provide extra safety.



Type 1

12-16" AC24-R, Ductile Iron

12-16" wheels for metal and masonry cutting applications.

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	MASTER PACK
35590	12 x 5/32 x 20mm	AC24-R-BF	6,400	10	20
35592	12 x 5/32 x 1	AC24-R-BF	6,400	10	20
36160	14 x 5/32 x 20mm	AC24-R-BF	5,500	10	20
36161	14 x 5/32 x 1	AC24-R-BF	5,500	10	20
35601	14 x 5/32 x 20mm	AC24-R-BF TR	5,500	10	20
35602	14 x 5/32 x 1	AC24-R-BF TR	5,500	10	20
36144	16 x 5/32 x 20mm	AC24-R-BF TR	4,800	10	20
36145	16 x 5/32 x 1	AC24-R-BF TR	4,800	10	20

12-16" C24-R, Stone/Concrete

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	MASTER PACK
35596	12 x 5/32 x 20mm	C24-R-BF	6,400	10	20
35598	12 x 5/32 x 1	C24-R-BF	6,400	10	20
35605	14 x 5/32 x 20mm	C24-R-BF	5,500	10	20
35606	14 x 5/32 x 1	C24-R-BF	5,500	10	20
36116	14 x 5/32 x 20mm	C24-R-BF TR	4,400	10	20
36117	14 x 5/32 x 1	C24-R-BF TR	4,400	10	20
36146	16 x 5/32 x 20mm	C24-R-BF TR	4,800	10	20
36147	16 x 5/32 x 1	C24-R-BF TR	4,800	10	20

12-14" C16-U, Asphalt/Green Concrete

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	MASTER PACK
35593	12 x 5/32 x 20mm	C16-U-BF	6,400	10	20
35595	12 x 5/32 x 1	C16-U-BF	6,400	10	20
35603	14 x 5/32 x 20mm	C16-U-BF	5,500	10	20
35604	14 x 5/32 x 1	C16-U-BF	5,500	10	20

HIGH SPEED CUT-OFF WHEELS

HIGH SPEED CUT-OFF WHEELS

New **FAST CUT 12-14"**
Type 1 High Speed
Cut-Off Wheels

- **A24R:** Aluminum oxide - Metal & Steel, Stainless. General purpose. 14" is triple reinforced.
- Economical choice for standard cutting applications.



12-16" FAST CUT Type 1 High Speed Cut-Off Wheels

UPC#	SIZE	SPEC.	RPM	RETAIL PACK	CARTON QTY
70220	12 x 5/32 x 20MM	A24-R-BF	6,400	10	20
70221	12 x 5/32 x 1	A24-R-BF	6,400	10	20
70224	14 x 5/32 x 20MM	A24-R-BF TR	5,500	10	20
70225	14 x 5/32 x 1	A24-R-BF TR	5,500	10	20

14" Walk Behind Saw Wheels with Pinhole

- **C16:** Silicon Carbide - Asphalt/Green Concrete.
- **C24:** Silicon Carbide - Stone/Concrete.



14" wheels for Walk Behind Saws - Asphalt/concrete

14" Walk Behind Saw Wheels with Pinhole

UPC#	SIZE	SIZE (mm)	SPEC.	RPM	RETAIL PACK	MASTER PACK
35608	14 x 3/16 x 1 + PH	355 x 5 x 25.4 + PH	C16-U-BF	5,500	10	20
37672	14 x 3/16 x 1 + PH	355 x 5 x 25.4 + PH	C24-R-BF	5,500	10	20

DEMOLITION & RAIL BLADES

New Demolition Blade All Purpose Metal Decking, Demolition Blade - Type 1

- Can be used wet or dry.
- Metal decking, reinforced concrete, steel, cast iron, ductile iron, PVC pipe and wood.



Type 1



Demolition Blade

UPC#	SIZE	SPEC.	RPM	CARTON QTY
70446	12 x .15 x 1" / 20mm	24 Grit	6,300	1
70447	14 x .15 x 1" / 20mm	24 Grit	5,360	1

New 14-16" Rail Track Cut-Off Wheel

- Premium mix of zirconia and aluminum oxide to maximize number of cuts while cutting quickly and not burning the work piece.

ZIRCONIA

Type 1



14-16" Rail Track Cutter

UPC#	SIZE	SIZE (mm)	SPEC.	RPM	RETAIL PACK	CARTON QTY
36162	14 x 1/8 x 1	355 x 3.2 x 25.4	ZA24-R-BF	5,500	10	20
36163	16 x 1/8 x 1	405 x 3.2 x 25.4	ZA24-R-BF	4,800	10	20

RESIN CONES & PLUGS

Resin Cones & Plugs



- **A:** Aluminum Oxide Grain; Used for grinding and finishing metals in hard to reach areas.

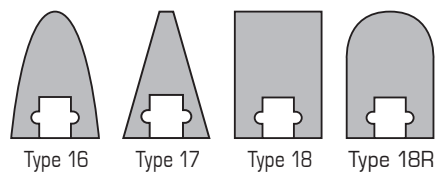
Cones

UPC#	SIZE	SPEC.	RPM	CARTON	UNIT
Type 16:					
49016	1-1/2 x 2-1/2 x 3/8-24	A16R	24,100	10	20
49017	1-1/2 x 2-1/2 x 5/8-11	A16R	24,100	10	20
49018	1-1/2 x 3 x 3/8-24	A16R	24,100	10	20
49019	1-1/2 x 3 x 5/8-11	A16R	24,100	10	20
36238	2 x 3 x 5/8-11	A24R	18,100	10	20
49021	2 x 3 x 5/8-11	A16R	18,100	10	20
49022	2-3/4 x 3-1/2 x 5/8-11	A16R	13,200	10	20
49023	3 x 3 x 5/8-11	A16R	13,200	10	20
Type 17:					
49024	1-1/2 x 2-1/2 x 3/8-24	A16R	24,100	10	20
49026	1-1/2 x 3 x 3/8-24	A16R	24,100	10	20
49027	1-1/2 x 3 x 5/8-11	A16R	24,100	10	20
49028	2 x 3 x 5/8-11	A16R </td <td>18,100</td> <td>10</td> <td>20</td>	18,100	10	20
49029	2 1/2 x 3 x 5/8-11	A16R	18,100	10	20



Plugs

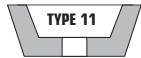
UPC#	SIZE	SPEC.	RPM	CARTON	UNIT
Type 18:					
49030	1-1/2 x 2-1/2 x 3/8-24	A16R	24,100	10	20
49031	1-1/2 x 2-1/2 x 5/8-11	A16R	24,100	10	20
49032	1-1/2 x 3 x 3/8-24	A16R	24,100	10	20
49033	1-1/2 x 3 x 5/8-11	A16R	24,100	10	20
36239	2 x 3 x 5/8-11	A24R	18,100	10	20
49035	2 x 3 x 5/8-11	A16R	18,100	10	20
49036	2 x 3-1/2 x 5/8-11	A16R	18,100	10	20
Type 18R:					
49037	1-1/2 x 2-1/2 x 3/8-24	A16R	24,100	10	20
49038	1-1/2 x 2-1/2 x 5/8-11	A16R	24,100	10	20
49039	1-1/2 x 3 x 3/8-24	A16R	24,100	10	20
49040	1-1/2 x 3 x 5/8-11	A16R	24,100	10	20
36240	2 x 3 x 5/8-11	A24R	18,100	10	20
49042	2 x 3 x 5/8-11	A16R	18,100	10	20
49043	3 x 3 x 5/8-11	A16R	13,200	10	20



RESIN CUP WHEELS

Resin Cup Wheels

- **A:** Aluminum Oxide; For tough steel, ferrous metal applications.
- **CA:** Aluminum Oxide/Silicon Carbide Mix; Excellent for castings, cast iron, aluminum.
- **C:** Ideal for grinding and cleaning concrete, masonry and stone.



4/3 x 2 x 5/8-11 9,070 R.P.M.

UPC#	SIZE	CARTON	UNIT
No Steel Back:			
49000	A16-Q6-B	1	10
49002	C16-N-B	1	10
49003	CA16-N-B	1	10
With Steel Back:			
49001	A16-Q6-B	1	10

5/4 x 2 x 5/8-11 7,260 R.P.M.

UPC#	SIZE	CARTON	UNIT
No Steel Back:			
49004	A16-Q6-B	1	10
49005	A24-Q6-B	1	10
49006	C16-N-B	1	10
49007	CA16-N-B	1	10

6/4-3/4 x 2 x 5/8-11 6,048 R.P.M.

UPC#	SIZE	CARTON	UNIT
No Steel Back:			
35900	A16-Q6-B	5	10
49008	A16-Q6-B	1	10
49010	A24-Q6-B	5	10
49011	A24-Q6-B	1	10
35901	C16-N-B	1	10
49014	CA16-QB-B	1	10
With Steel Back:			
49009	A16-Q6-B	1	10
49012	A24-Q6-B	1	10
49013	C16-N-B	1	10
49015	CA16-Q6-B	1	10

*35900 and 49010 are packed 5 to a box.
All other items are individually packed.

CARBIDE BURS

USA MADE CARBIDE BURS

Carbide Burs

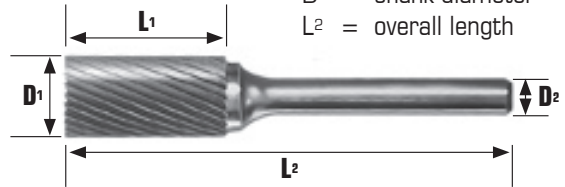
- CGW carbide burs are made on premium CNC machines for precision, uniform burs.
- **Single Cut:** General purpose cut made for steel, cast iron and other ferrous materials. Single cut burs provide good material removal and work piece finishes.
- **Double Cut:** Designed to produce smaller chips for faster cutting action, minimal loading and improved operator control. For stainless steel and ferrous materials.
- **Aluminum Cut:** Wide flute design ensures quick, easy stock removal with minimal loading. For non-ferrous and other soft materials.



D¹ = head diameter
L¹ = length of cut
D² = shank diameter
L² = overall length

SA - Cylinder Shape

- Application: **Deburring**
- No cut on end



SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SA-41	1/16"	1/4"	1/8"	1-1/2"	1	62001	62301	
SA-42	3/32"	7/16"	1/8"	1-1/2"	1	62005	62305	
SA-43	1/8"	9/16"	1/8"	1-1/2"	1	62008	62308	
SA-51	1/4"	1/2"	1/8"	2"	1	62018	62318	
SA-1	1/4"	5/8"	1/4"	2"	1	62019	62319	
SA-3	3/8"	3/4"	1/4"	2-1/2"	1	62023	62323	
SA-3NF	3/8"	3/4"	1/4"	2-1/2"	1			62604
SA-5	1/2"	1"	1/4"	2-3/4"	1	62028	62328	
SA-5NF	1/2"	1"	1/4"	2-3/4"	1			62608
SA-6	5/8"	1"	1/4"	2-3/4"	1	62030	62330	
SA-7	3/4"	1"	1/4"	2-3/4"	1	62033	62333	

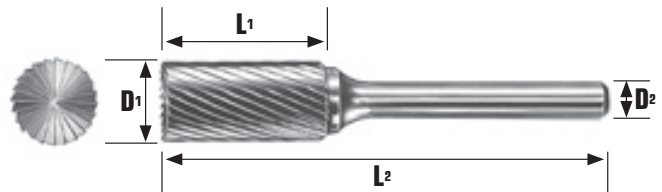
Long Shank

SA-1L6	1/4"	1/2"	1/4"	6-1/2"	1	62021	62321	
SA-3L6	3/8"	3/4"	1/4"	6-3/4"	1	62025	62325	
SA-5L6	1/2"	1"	1/4"	7"	1	62029	62329	

Items with a UPC number are stocked items.

SB - Cylinder Shape

- Applications: **Face & Peripheral Milling**
- With end cut



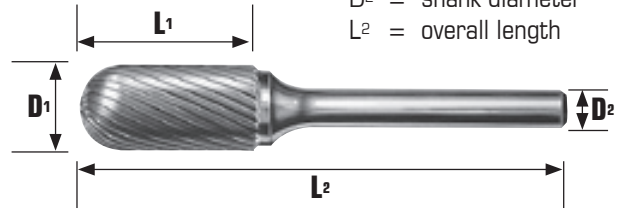
SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SB-41	1/16"	1/4"	1/8"	1-1/2"	1	62036	62336	
SB-42	3/32"	7/16"	1/8"	1-1/2"	1	62039	62339	
SB-51	1/4"	3/16"	1/8"	1-11/16"	1	62049	62349	
SB-1	1/4"	5/8"	1/4"	2"	1	62050	62350	
SB-3	3/8"	3/4"	1/4"	2-1/2"	1	62053	62353	
SB-3NF	3/8"	3/4"	1/4"	2-1/2"	1			62613
SB-5	1/2"	1"	1/4"	2-3/4"	1	62057	62357	
SB-5NF	1/2"	1"	1/4"	2-3/4"	1			62614

Items with a UPC number are stocked items.

Please see page 143 for Carbide Bur material recommendations.



D¹ = head diameter
 L¹ = length of cut
 D² = shank diameter
 L² = overall length



SC - Cylinder Shape

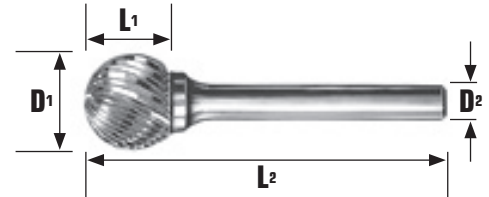
- Applications: **Surface Milling, Contouring**
- Ball nose/radius end

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SC-41	3/32"	7/16"	1/8"	1-1/2"	1	62065	62365	
SC-42	1/8"	9/16"	1/8"	1-1/2"	1	62066	62366	
SC-51	1/4"	1/2"	1/8"	2"	1	62076	62376	
SC-1	1/4"	5/8"	1/4"	2"	1	62077	62377	
SC-4	1/4"	7/16"	1"	2-3/4"	1		62385	
SC-3	3/8"	3/4"	1/4"	2-1/2"	1	62081	62381	
SC-3NF	3/8"	3/4"	1/4"	2-1/2"	1			62621
SC-5	1/2"	1"	1/4"	2-3/4"	1	62086	62386	
SC-5NF	1/2"	1"	1/4"	2-3/4"	1			62625
SC-6	5/8"	1"	1/4"	2-3/4"	1	62088	62388	
SC-7	3/4"	1"	1/4"	2-3/4"	1	62091	62391	
Long Shank								
SC-1L6	1/4"	1/2"	1/4"	6-1/2"	1	62079	62379	
SC-3L6	3/8"	3/4"	1/4"	6-3/4"	1	62083	62383	
SC-5L6	1/2"	1"	1/4"	7"	1	62087	62387	

Items with a UPC number are stocked items.

SD - Ball Shape

- Applications: **Deburring, Contouring, Build-up Welding Preparation**



SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SD-41	3/32"	3/32"	1/8"	1-1/2"	1	62094	62394	
SD-42	1/8"	1/8"	1/8"	1-1/2"	1	62095	62395	
SD-51	1/4"	7/32"	1/8"	1-11/16"	1	62103	62403	
SD-1	1/4"	7/32"	1/4"	2"	1	62104	62404	
SD-3	3/8"	5/16"	1/4"	2-5/64"	1	62107	62407	
SD-3NF	3/8"	5/16"	1/4"	2-5/64"	1			62630
SD-5	1/2"	7/16"	1/4"	2-13/64"	1	62110	62410	
SD-5NF	1/2"	7/16"	1/4"	2-13/64"	1			62634
SD-6	5/8"	9/16"	1/4"	2-5/16"	1	62112	62412	
SD-7	3/4"	11/16"	1/4"	2-7/16"	1	62113	62413	
Long Shank								
SD-1L6	1/4"	1/4"	7/32"	6-7/32"	1	62105	62405	
SD-3L6	3/8"	3/8"	1/4"	6-3/8"	1	62108	62408	
SD-5L6	1/2"	1/2"	1/4"	6-1/2"	1	62111	62411	

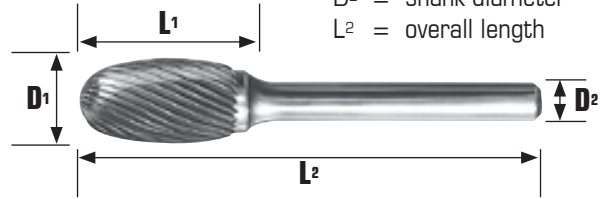
Items with a UPC number are stocked items.

Please see page 143 for Carbide Bur material recommendations.

CARBIDE BURS



D¹ = head diameter
 L¹ = length of cut
 D² = shank diameter
 L² = overall length



SE - Oval/Egg Shape

Application: **Contouring**

SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SE-41	1/8"	7/32"	1/8"	1-1/2"	1	62116	62416	
SE-51	1/4"	3/8"	1/8"	1-7/8"	1	62122	62422	
SE-1	1/4"	3/8"	1/4"	2"	1	62123	62423	
SE-3	3/8"	5/8"	1/4"	2-3/8"	1	62125	62425	
SE-3NF	3/8"	5/8"	1/4"	2-3/8"	1			62642
SE-5	1/2"	7/8"	1/4"	2-5/8"	1	62127	62427	
SE-5NF	1/2"	7/8"	1/4"	2-5/8"	1			62646
SE-6	5/8"	1"	1/4"	2-3/4"	1	62129	62429	
SE-7	3/4"	1"	1/4"	2-3/4"	1	62130	62430	

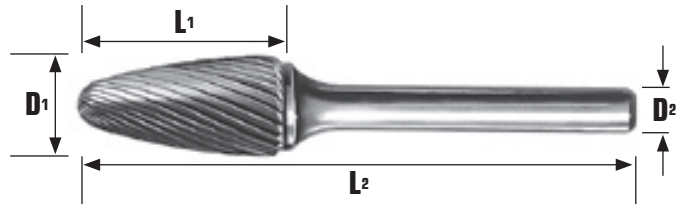
Long Shank

SE-1L6	1/4"	3/8"	1/4"	6-3/8"	1	62124	62424	
SE-3L6	3/8"	5/8"	1/4"	6-5/8"	1	62126	62426	
SE-5L6	1/2"	7/8"	1/4"	6-7/8"	1	62128	62428	

Items with a UPC number are stocked items.

SF - Rounded Tree Shape

Application: **Contouring**



SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SF-41	1/8"	1/4"	1/8"	1-1/2"	1	62132	62432	
SF-51	1/4"	1/2"	1/8"	2"	1	62139	62439	
SF-1	1/4"	5/8"	1/4"	2"	1	62140	62440	
SF-3	3/8"	3/4"	1/4"	2-1/2"	1	62142	62442	
SF-3NF	3/8"	3/4"	1/4"	2-1/2"	1			62654
SF-5	1/2"	1"	1/4"	2-3/4"	1	62146	62446	
SF-5NF	1/2"	1"	1/4"	2-3/4"	1			62658
SF-6	5/8"	1"	1/4"	2-3/4"	1	62148	62448	
SF-7	3/4"	1"	1/4"	2-3/4"	1	62149	62449	
SF-14	3/4"	1-1/4"	1/4"	3"	1	62150	62450	

Long Shank

SF-1L6	1/4"	1/2"	1/4"	6-1/2"	1	62141	62441	
SF-3L6	3/8"	3/4"	1/4"	6-3/4"	1	62143	62443	
SF-5L6	1/2"	1"	1/4"	7"	1	62147	62447	

Items with a UPC number are stocked items.

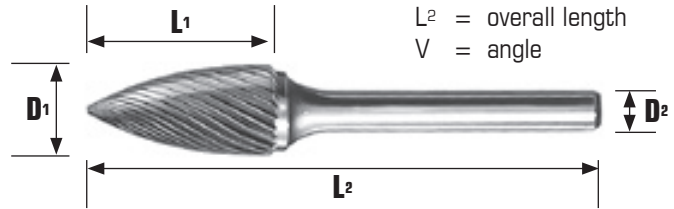
Please see page 143 for Carbide Bur material recommendations.



D¹ = head diameter
 L¹ = length of cut
 D² = shank diameter
 L² = overall length
 V = angle

SG - Pointed Tree Shape

- Applications: Sharp angled areas, narrow contours



SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SG-41	1/8"	1/4"	1/8"	1-1/2"	1	62153	62453	
SG-42	1/8"	5/16"	1/8"	1-1/2"	1	62154	62454	
SG-51	1/4"	1/2"	1/8"	2"	1	62161	62461	
SG-1	1/4"	5/8"	1/4"	2"	1	62162	62462	
SG-3	3/8"	3/4"	1/4"	2-1/2"	1	62165	62465	
SG-5	1/2"	1"	1/4"	2-3/4"	1	62168	62468	

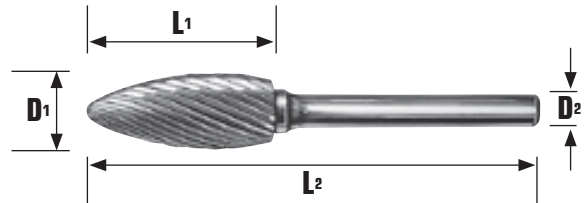
Long Shank

SG-1L6	1/4"	1/2"	1/4"	6-1/2"	1	62163	62463	
SG-3L6	3/8"	3/4"	1/4"	6-3/4"	1	62166	62466	
SG-5L6	1/2"	1"	1/4"	7"	1	62169	62469	

Items with a UPC number are stocked items.

SH - Flame Shape

- Application: Contouring



SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SH-41	1/8"	1/4"	1/8"	1-1/2"	1	62173	62473	
SH-1	1/4"	5/8"	1/4"	2"	1	62177	62477	
SH-2	5/16"	3/4"	1/4"	2-1/2"	1	62178	62478	
SH-5	1/2"	1-1/4"	1/4"	3"	1	62180	62480	

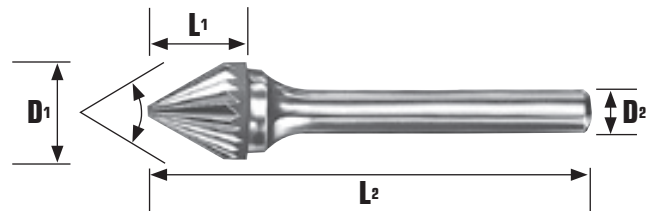
Long Shank

SH-2L6	5/16"	3/4"	1/4"	6-3/4"	1	62179	62479	
SH-5L6	1/2"	1-1/4"	1/4"	7-1/4"	1	62181	62481	

Items with a UPC number are stocked items.

SJ - 60° Cone Shape

- Applications: Sharp angled areas, countersinking



SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SJ-3	3/8"	5/16"	1/4"	2-3/16"	1	62186	62486	
SJ-5	1/2"	7/16"	1/4"	2-19/64"	1	62187	62487	

Items with a UPC number are stocked items.

Please see page 143 for Carbide Bur material recommendations.

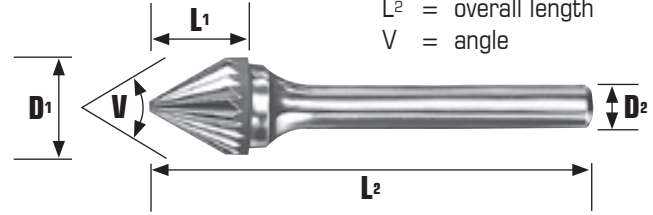
CARBIDE BURS



D¹ = head diameter
 L¹ = length of cut
 D² = shank diameter
 L² = overall length
 V = angle

SK - 90° Cone Shape

- Applications: Sharp angled areas, countersinking

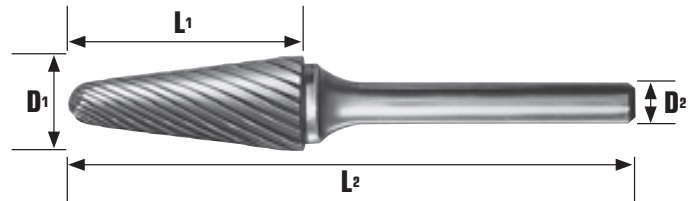


SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SK-3	3/8"	3/16"	1/4"	2-1/16"	1	62193	62493	
SK-5	1/2"	1/4"	1/4"	2-1/8"	1	62194	62494	

Items with a UPC number are stocked items.

SL - Taper Shape Radius

- Applications: Narrow contours, surface machining



SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SL-41	1/8"	3/8"	1/8"	1-1/2"	1	62198	62498	
SL-42	1/8"	1/2"	1/8"	1-1/2"	1	62199	62499	
SL-4	1/2"	1-1/8"	1/4"	3"	1	62202	62502	
SL-1	1/4"	5/8"	1/4"	2"	1	62205	62505	
SL-3	3/8"	1-1/16"	1/4"	2-5/16"	1		62508	
SL-4NF	1/2"	1-1/8"	1/4"	3"	1			62668
SL-5	5/8"	1-3/16"	1/4"	3-1/16"	1	62211	62511	
SL-5NF	5/8"	1-3/16"	1/4"	3-1/16"	1			62669

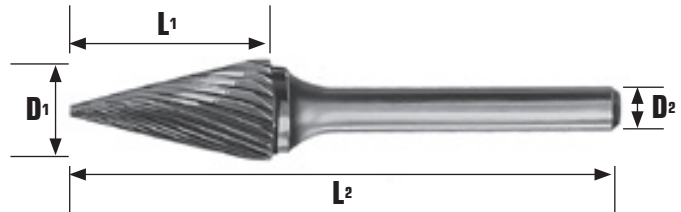
Long Shank

SL-1L6	1/4"	5/8"	1/4"	6-5/8"	1	62206	62506	
SL-3L6	3/8"	1-1/16"	1/4"	7-1/16"	1	62209	62509	
SL-4L6	1/2"	1-1/8"	1/4"	7-1/8"	1	62210	62510	

Items with a UPC number are stocked items.

SM - Pointed Cone Shape

- Application: Narrow contours, surface machining
- Pointed end



SHAPE	HEAD DIAMETER	LENGTH OF CUT	SHANK DIAMETER	OVERALL LENGTH	ORDER QTY.	SINGLE	DOUBLE	ALUMINUM
SM-1	1/4"	1/2"	1/4"	2"	1	62222	62522	
SM-3	1/4"	1"	1/4"	2"	1	62224	62524	
SM-5	1/2"	7/8"	1/4"	2-3/4"	1	62226	62526	

Items with a UPC number are stocked items.

Please see page 143 for Carbide Bur material recommendations.

Carbide Bur Kit

- 8-Piece kit has the most popular double cut carbide burs for faster cutting action, minimal loading and improved operator control.
- 8-Piece kit includes:
SA-5D (#62328), SC-5D (#62386),
SD-5D (#62410), SE-5D (#62477),
SG-5D (#62468), SH-5D (#62480),
SL-5D (#62511), SM-5D (#62526)

CARBIDE BUR KIT	UPC #
8 piece set	62700



Carbide burs or rotary files are made in a variety of shapes and types, and are used for deburring, drilling, milling, and finishing numerous shapes and materials, including aluminium, copper, plastic, stainless steel, iron, castings, and titanium. For use on hand-held pneumatic and electric die grinders.



Matching burr type to application

BURR TYPE	ALU	D	S
Aluminium	●		
Copper		●	●
Fibreglass		●	
Cast iron		●	●
Plastic	●	●	●
Hard rubber	●	●	●
Iron alloys		●	
Stainless steel		●	●
Nickel		●	●
Titanium		●	●
Zinc alloys	●		
Magnesium	●		

S - Standard cut formation for general-purpose deburring.

D - Diamond cut for use on hard metals. Produces high surface quality, very small metal shavings and no blockage (double tooth).

ALU - Aluminium cut for processing non-metals and soft materials. Quick, easy stock removal.

Recommended operating speeds, by application

	0.3 mm / 1/8"	0.6 mm / 1/4"	0.10 mm / 3/8"	0.12 mm / 1/2"	0.16 mm / 5/8"
Steel	60,000 – 90,000	45,000 – 60,000	30,000 – 40,000	22,500 – 30,000	18,000 – 24,000
Hardened steel	60,000 – 90,000	30,000 – 45,000	19,000 – 30,000	15,000 – 22,500	12,000 – 18,000
Stainless steel	60,000 – 90,000	30,000 – 45,000	19,000 – 30,000	15,000 – 22,500	12,000 – 18,000
Grey castings	45,000 – 90,000	22,500 – 60,000	15,000 – 40,000	11,000 – 30,000	9,000 – 24,000
Titanium	60,000 – 90,000	30,000 – 45,000	19,000 – 30,000	15,000 – 22,500	12,000 – 18,000
Nickel	60,000 – 90,000	30,000 – 45,000	19,000 – 30,000	15,000 – 22,500	12,000 – 18,000
Copper	45,000 – 90,000	22,500 – 60,000	15,000 – 40,000	11,000 – 30,000	9,000 – 24,000
Aluminium	30,000 – 90,000	15,000 – 70,000	10,000 – 50,000	7,000 – 38,000	6,000 – 30,000
Plastic	30,000 – 90,000	15,000 – 70,000	10,000 – 50,000	7,000 – 38,000	6,000 – 30,000

USA MADE WIRE BRUSHES

USA MADE WIRE BRUSHES

Knot Wire Wheel Brushes

■ Versatile in design, wire wheels brushes can be used horizontally or vertically. **(Correctly aligning brushes to work pieces allows wire tips to do the work.)**

■ Knot Wire Wheel Brush – Standard



- Standard wire twist knot design for aggressive, yet uniform brushing action.
- For surface preparation, weld cleaning, heavy duty applications.
- For general cleaning, weld cleaning, removal of rubber flash, scale, rust, and pipeline cleaning.

■ Knot Wire Wheel Brush – Stringer Bead



- Tightly twisted wire knots easily reach into narrow or recessed areas for quick material removal.
- For pipeline welding junctions, cleaning bead welds.



Knot Wire Wheel Brush

UPC#	SPEC	WIRE SIZE	THREADED ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY
Knot Wire Wheel Brush – Standard Twist						
60050	4" Radial Knot Carbon	.014	1/2-5/8	20,000	6	24
60001	4" Radial Knot Carbon	.014	5/8-11	20,000	6	24
60006	4" Radial Knot Stainless	.014	5/8-11	20,000	6	24
60011	4" Radial Knot Stainless	.020	5/8-11	20,000	6	24
60012	4" Radial Knot Carbon	.020	5/8-11	20,000	6	24
60013	5" Radial Knot Carbon	.020	5/8-11	12,000	6	24
60014	5" Radial Knot Stainless	.020	5/8-11	12,000	6	24
Knot Wire Wheel Brush – Standard Twist						
60051	6" Radial Knot Carbon	.025	5/8-1/2	9,000	6	24
60052	6" Radial Knot Carbon	.020	5/8-11	9,000	6	24
60053	6" Radial Knot Carbon	.025	5/8-11	9,000	6	24
60055	6" Radial Knot Stainless	.016	5/8-1/2	9,000	6	24
High Speed Small Grinder Stringer Bead Wheel Brush						
60020	4" Radial Knot Carbon	.020	5/8-11	20,000	6	24
60025	4" Radial Knot Stainless	.020	5/8-11	20,000	6	24
Knot Wire Wheel Brush – Stringer Bead						
60035	5" Radial Knot Carbon	.020	5/8-11	12,000	6	24
60037	5" Radial Knot Stainless	.020	5/8-11	12,000	6	24
60038	5-7/8" Stringer Bead Carbon	.020	5/8-11	12,000	6	24
60039	5-7/8" Stringer Bead Stainless	.020	5/8-11	12,000	6	24
60040	6-1/2" Stringer Bead Carbon	.020	5/8-11	12,000	6	24
60041	6-1/2" Stringer Bead Stainless	.020	5/8-11	12,000	6	24

Wire Cup Brushes

- Designed for fast, heavy-duty working on large surfaces.
- **High Speed Small Grinder – Knot Wire Cup Brush**
 - Wire twist knot for high productivity and long life.
 - For scale removal, deburring, weld cleaning and flat surfaces.
- **High Speed Small Grinder – Knot Wire Cup Brush (Heavy Duty)**
 - Wire treated for extra heavy duty applications.
 - For general cleaning and cleaning of corners and flat or curved work pieces.
- **Knot Wire Cup Brush**
 - Knot wire cup brushes are designed for rigorous work pieces.
 - For metal surface preparation, cleaning, removal of weld scale and rust.
- **High Speed Small Grinder – Crimped Wire Cup Brush**
 - For light and medium duty cleaning.
 - Removing scale, deburring, cleaning welds or flat surfaces, heavy duty application burr removal.



Cup Brush

UPC#	SPEC	WIRE SIZE	THREADED ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY
High Speed Small Grinder Knot Wire Cup Brush						
60060	2-3/4" Cup Knot Carbon	.014	5/8-11	14,000	6	24
60065	2-3/4" Cup Knot Stainless	.014	5/8-11	14,000	6	24
60070	2-3/4" Cup Knot Carbon	.020	5/8-11	14,000	6	24
60076	2-3/4" Cup Knot Stainless	.020	5/8-11	14,000	6	48
Knot Wire Cup Brush – Heavy Duty						
60090	3-1/2" Cup Brush Carbon	.020	5/8-11	12,500	1	24
60091	3-1/2" Cup Brush Stainless	.020	5/8-11	12,500	1	24
60104	4" Cup Brush Carbon 1 Row	.020	5/8-11	6,600	1	24
60105	4" Cup Brush Stainless 1 Row	.020	5/8-11	6,600	1	24
60106	6" Cup Brush Carbon 1 Row	.020	5/8-11	6,600	1	24
60101	6" Cup Brush Stainless 1 Row	.020	5/8-11	6,600	1	24
60100	6" Cup Brush Carbon 1 Row	.035	5/8-11	6,600	1	24
60102	6" Cup Brush Carbon 2 Row	.020	5/8-11	6,600	1	24
60103	6" Cup Brush Carbon 2 Row	.035	5/8-11	6,600	1	24
High Speed Small Grinder Crimped Wire Cup Brush						
60120	2-3/4" Cup Crimp Carbon	.014	5/8-11	14,000	6	24
60125	2-3/4" Cup Crimp Stainless	.014	5/8-11	14,000	6	24
60126	3-1/2" Cup Crimp Carbon	.014	5/8-11	12,500	1	24
60127	3-1/2" Cup Crimp Stainless	.014	5/8-11	12,500	1	24
Crimped Wire Cup Brush						
60110	4" Cup Brush Crimp Carbon	.020	5/8-11	9,000	1	24
60111	5" Cup Brush Crimp Carbon	.020	5/8-11	8,000	1	24
60113	5" Cup Brush Crimp Stainless	.020	5/8-11	8,000	1	24
60112	6" Cup Brush Crimp Carbon	.020	5/8-11	6,600	1	24

MISCELLANEOUS BRUSHES

USA MADE WIRE BRUSHES

End Brushes

- Designed for tight work spaces and higher brushing speeds (up to 22,000 RPM).
- **Knot Wire End Brush**
 - For pipeline cleaning, CNC equipment maintenance/cleaning, removal of rust or scale.
- **Crimped Wire End Brush**
 - For general use including blending, cleaning, and polishing.



End Brush

UPC#	SPEC	WIRE SIZE	SHANK	MAX RPM	BOX QTY	MASTER PACK QTY
Knot Wire End Brush						
60130	3/4" Knotted End Brush Carbon	.014	1/4"	22,000	12	144
60131	1" Knotted End Brush Carbon	.020	1/4"	22,000	12	144
60132	1" Knotted End Brush Stainless	.020	1/4"	22,000	12	144
Crimped Wire End Brush						
60140	3/4" Crimped End Brush Carbon	.0104	1/4"	22,000	12	144
60141	1" Crimped End Brush Carbon	.020	1/4"	22,000	12	144

BRUSHES

Crimped Wire Wheel Brushes

- Versatile in design, wire wheels brushes can be used horizontally or vertically. **(Correctly aligning brushes to work pieces allows wire tips to do the work.)**
- **Crimped Concave Wire Wheel Brush With Shank**
 - Uniform brush design for use on drill presses or offhand for internal and external cleaning and deburring.
 - For removal of rust, scale paint and weld splatter.
- **Crimped Wire Wheel Brush With Shank**
 - Uniform brush design for use on drill presses or offhand for internal and external cleaning and deburring.
 - For removal of rust, scale paint and weld splatter.
- **Crimped Wire Narrow Face Wheel Brush**
 - Flexible design can easily be paired to work on wide surfaces.
 - For deburring narrow work pieces and paint and rust removal.
- **Crimped Wire Medium Face Wheel Brush**
 - For edge blending, deburring, rust removal, surface finishing.
- **Crimped Wire Wide Face Wheel Brush**
 - For deburring, rust removal, surface finishing.
- **Crimped Wire Wheel Brush**
 - Light duty brushing.



USA MADE WIRE BRUSHES

Crimped Wire Wheel Brush

UPC#	SPEC	WIRE SIZE	ARBOR OR SHANK	MAX RPM	BOX QTY	MASTER PACK QTY
Crimped Concave Wire Wheel Brush With Shank						
60160	1-1/2" Radial Concave Carbon	.012	1/4" Shank	20,000	10	
60161	2-1/2" Radial Concave Carbon	.014	1/4" Shank	20,000	10	
60162	3" Radial Concave Carbon	.014	1/4" Shank	20,000	10	
Crimped Wire Wheel Brush With Shank						
60170	2" Crimped Carbon	.014	1/4" Shank	25,000	10	
60171	3" Crimped Carbon	.014	1/4" Shank	25,000	10	
60172	3" Crimped Stainless	.014	1/4" Shank	25,000	10	
High Speed Small Grinder Crimped Wire Wheel Brush						
60150	4" Radial Carbon	.014	5/8-11	15,000	6	24
Crimped Wire Narrow Face Wheel Brush						
60180	8" Radial Narrow Carbon	.014	5/8	4,500	1	12
60181	6" Radial Narrow Carbon	.008	1/2-5/8	6,000	1	36
60182	6" Radial Narrow Carbon	.014	1/2-5/8	6,000	1	36
Crimped Wire Medium Face Wheel Brush						
60190	6" Radial Medium Carbon	.014	1/2-5/8	6,000	1	36
Crimped Wire Wide Face Wheel Brush						
60195	7" Radial Wide Carbon	.014	5/8	6,000	1	12
60196	10" Radial Wide Carbon	.014	5/8	3,600	1	6

MISCELLANEOUS BRUSHES

USA MADE WIRE BRUSHES

Miscellaneous Brushes

- **Metal Chip Brush**
 - For hot metal removal
- **Cement Cleaning Brush**
 - Features longer wire for easy removal of joint material from concrete and asphalt



Miscellaneous Brushes

UPC#	DESCRIPTION	BOX QTY	MASTER PACK QTY
Metal Chip Brush			
60200	1" Metal Chip Brush	12	
Cement Cleaning Brush			
60000	12" Radial Cement Crack Cleaning Brush .035 Knot Carbon 1" w 7/16" Drive Pin Hole	1	4

Scratch Brushes

- Designed with kiln-dried hardwood handles for maximum tuft retention and high-quality, staple set wire for long life.



Scratch Brush

UPC#	SPEC	DESCRIPTION	BOX QTY	MASTER PACK QTY
Economy Curved Handle Scratch Brush – w/hang up hole				
60201	3 x 19 Rows	Scratch Brush	12	144
60202	3 x 19 Rows	Stainless Scratch Brush	12	144
60203	4 x 19 Rows	Scratch Brush	12	144
60204	3 x 19 Rows	Scratch Brush With Scraper	12	144
Economy Shoe Handle Scratch Brush				
60205	4 x 16 Rows	Scratch Brush	12	72
60206	4 x 16 Rows	Scratch Brush With Scraper	12	72
60207	4 x 16 Rows	Stainless Scratch Brush	12	72
Economy Small Cleaning Scratch Brush				
60208	3 x 7 Rows	Brass Scratch Brush Plastic Handle	36	648
60209	3 x 7 Rows	Stainless Scratch Brush Plastic Handle	36	648
Small Cleaning Scratch Brush				
60210	3 x 7 Rows	Brass Scratch Brush	36	648
60211	3 x 7 Rows	SS Scratch Brush	36	648
V-Trim Small Cleaning Scratch Brush				
60212	V-Groove	Scratch Brush Stainless	36	648
60213	V-Groove	Scratch Brush Carbon	36	648

ADAPTERS & BRUSHES

Adapters

- Metal Adapters for Brushes with 2" Arbor Hole.



Adapters

UPC#	SPEC	DESCRIPTION
Metal Adapters for Brushes with 2" Arbor Hole		
60220	Metal Adapters 2" x 1/2"	1 Pair
60221	Metal Adapters 2" x 5/8"	1 Pair
60222	Metal Adapters 2" x 3/4"	1 Pair
60223	Metal Adapters 2" x 1"	1 Pair
60224	Metal Adapters 2" x 1-1/4"	1 Pair

Chip / Paint Brushes



Paint Brushes

UPC#	SPEC	BOX QTY	MASTER PACK QTY
60225	1/2" Pure Bristle Wood Handle Chip Paint Brush	36	72
60226	1" Pure Bristle Wood Handle Chip Paint Brush	36	72
60227	1-1/2" Pure Bristle Wood Handle Chip Paint Brush	36	72
60228	2" Pure Bristle Wood Handle Chip Paint Brush	24	72
60229	3" Pure Bristle Wood Handle Chip Paint Brush	12	72
60230	4" Pure Bristle Wood Handle Chip Paint Brush	12	48

ADAPTERS & BRUSHES

KNOT WIRE WHEEL BRUSHES

Knot Wire Wheel Brushe - *Fast Cut*

- Versatile in design, wire wheels brushes can be used horizontally or vertically.
(Correctly aligning brushes to work pieces allows wire tips to do the work.)
- **Knot Wire Wheel Brush – Standard**
 - Standard wire twist knot design for aggressive, yet uniform brushing action.
 - For surface preparation, weld cleaning, heavy duty applications.
 - For general cleaning, weld cleaning, removal of rubber flash, scale, rust, and pipeline cleaning.
- **Knot Wire Wheel Brush – Stringer Bead**
 - Tightly twisted wire knots easily reach into narrow or recessed areas for quick material removal.
 - For pipeline welding junctions, cleaning bead welds.



Knot Wire Wheel Brush - *Fast Cut*

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY	BULK UPC#	CATALOG PAGE#
Knot Wire Wheel Brush – Standard Twist								
60500	3" Radial Knot Carbon	.014	1/2-3/8	20,000	5	100		
60501	3" Radial Knot Stainless	.014	1/2-3/8	20,000	5	100		
60502	4" Radial Knot Carbon	.014	5/8-11	20,000	5	100	49635	156
60503	5" Radial Knot Carbon	.020	5/8-11	12,000	5	100		
60505	6" Radial Knot Carbon	.020	5/8-11	9,000	5	25		
Knot Wire Wheel Brush – Cable Twist								
60514	4" Cable Twist Carbon	.020	5/8-11	20,000	5	50	49637	156
60515	4" Cable Twist Stainless	.020	5/8-11	20,000	5	50	49638	156
Knot Wire Wheel Brush – Stringer Bead								
60520	4" Stringer Bead Carbon	.020	5/8-11	20,000	5	50	49639	156
60521	4" Stringer Bead Stainless	.020	5/8-11	20,000	5	50	49640	156
60522	5" Stringer Bead Carbon	.020	5/8-11	12,000	5	40		
60523	6" Stringer Bead Carbon	.020	5/8-11	12,000	5	25	49641	156
60524	6" Stringer Bead Stainless	.020	5/8-11	12,000	5	25		
60525	6-1/2" Stringer Bead Carbon	.020	5/8-11	12,000	5	25		
60526	6-1/2" Stringer Bead Stainless	.020	5/8-11	12,000	5	25		

WIRE CUP BRUSHES

Wire Cup Brushes - *Fast Cut*

- Designed for fast, heavy-duty working on large surfaces.
- **High Speed Small Grinder – Knot Wire Cup Brush**
 - Wire twist knot for high productivity and long life
 - For scale removal, deburring, weld cleaning and flat surfaces.
- **High Speed Small Grinder – Knot Wire Cup Brush (Heavy Duty)**
 - Wire treated for extra heavy duty applications.
 - For general cleaning and cleaning of corners and flat or curved work pieces.
- **Knot Wire Cup Brush**
 - Knot wire cup brushes are designed for rigorous work pieces.
 - For metal surface preparation, cleaning, removal of weld scale and rust.
- **High Speed Small Grinder – Crimped Wire Cup Brush**
 - For light and medium duty cleaning.
 - Removing scale, deburring, cleaning welds or flat surfaces, heavy duty application burr removal.



ECONOMY WIRE BRUSHES

Cup Brush - *Fast Cut*

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY	BULK UPC#	CATALOG PAGE#
Knot Wire Cup Brush								
60535	2-3/4" Cup Knot Carbon	.014	5/8-11	12,500	5	50	49645	157
60536	2-3/4" Cup Knot Stainless	.014	5/8-11	12,500	5	50		
60537	2-3/4" Cup Knot Carbon	.020	5/8-11	12,500	5	50	49646	157
60538	2-3/4" Cup Knot Stainless	.020	5/8-11	12,500	5	50		
60539	4" Cup Knot Carbon 1 Row	.020	5/8-11	8,500	5	30	49647	157
60540	4" Cup Knot Stainless 1 Row	.020	5/8-11	8,500	5	30		
60541	6" Cup Knot Carbon 1 Row	.020	5/8-11	6,500	5	20		
60542	6" Cup Knot Stainless 1 Row	.020	5/8-11	6,500	5	20		
Crimped Wire Cup Brush								
60560	3" Cup Brush Crimp Carbon	.014	5/8-11	12,500	5	50		
60561	3" Cup Brush Crimp Stainless	.014	5/8-11	12,500	5	50		
60562	4" Cup Brush Crimp Carbon	.014	5/8-11	8,500	5	30	49642	156
60563	4" Cup Brush Crimp Stainless	.014	5/8-11	8,500	5	30		
60564	6" Cup Brush Crimp Carbon	.020	5/8-11	6,500	5	20		
60565	6" Cup Brush Crimp Stainless	.020	5/8-11	6,500	5	20		

WIRE END BRUSHES

End Brushes - *Fast Cut*

- Designed for tight work spaces and higher brushing speeds (up to 25,000 RPM).
- **Knot Wire End Brush**
 - For pipeline cleaning, CNC equipment maintenance/cleaning, removal of rust or scale
- **Crimped Wire End Brush**
 - For general use including blending, cleaning, and polishing.



End Brush - *Fast Cut*

UPC#	SPEC	WIRE SIZE	SHANK	MAX RPM	BOX QTY	MASTER PACK QTY	BULK UPC#	CATALOG PAGE#
Knot Wire End Brush								
60575	3/4" Knotted End Brush Carbon	.014	1/4"	20,000	5	200	49649	157
60576	3/4" Knotted End Brush Carbon	.020	1/4"	20,000	5	200		
60577	3/4" Knotted End Brush Stainless	.014	1/4"	20,000	5	200		
60578	1" Knotted End Brush Carbon	.014	1/4"	20,000	5	200		
60579	1" Knotted End Brush Stainless	.014	1/4"	20,000	5	200		
60580	1" Knotted End Brush Carbon	.020	1/4"	20,000	5	200	49650	157
Crimped Wire End Brush								
60590	3/4" Crimped End Brush Carbon	.014	1/4"	20,000	5	200		
60591	3/4" Crimped End Brush Stainless	.014	1/4"	20,000	5	200		
60592	1" Crimped End Brush Carbon	.014	1/4"	20,000	5	200		
60593	1" Crimped End Brush Stainless	.010	1/4"	20,000	5	200		

CRIMPED WIRE WHEEL BRUSHES

Crimped Wire Wheel Brushes - *Fast Cut*

- Versatile in design, wire wheels brushes can be used hozitonally or vertically.
(Correctly aligning brushes to work pieces allows wire tips to do the work.)
- **Crimped Wire Wheel Brush**
 - Light duty brushing
 - For deburring in narrow work spaces, removal of rust, scale, paint and dirt.
- **Crimped Wire Medium Face Wheel Brush**
 - For edge blending, deburring, rust removal, surface finishing.



Crimped Wire Wheel Brush - *Fast Cut*

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	MASTER PACK QTY
Crimped High Speed Small Grinder Crimped Wire Wheel Brush						
60650	4" Radial Carbon	.014	5/8-11	15,000	5	50
60651	4" Radial Stainless	.014	5/8-11	15,000	5	50
Crimped Wire Medium Face Wheel Brush						
60665	6" Radial Medium Carbon	.014	2	6,000	5	25

BULK WIRE WHEEL BRUSHES

BULK WIRE BRUSHES



Bulk Wire Wheel Brushes

- Quality performance and competitively priced wire wheel brushes in convenient bulk packs
- Environmentally friendly packaging
- High quality tempered wire



Bulk Knot Wire Wheel Brush - Standard Twist

- For aggressive yet, uniform brushing action.
- Designed for surface preparation, weld cleaning, removal of rubber flash, scale, rust, pipeline cleaning, and heavy duty applications.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	
49635	4" Radial Knot Carbon Standard	.020	5/8-11	20,000	10	<i>Fast-Cut</i>
49636	4" Radial Knot Stainless Standard	.020	5/8-11	20,000	10	<i>Fast-Cut</i>

Bulk Knot Wire Wheel Brush - Cable Twist Wheel Brush

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	
49637	4" Radial Knot Carbon Cable Twist	.020	5/8-11	20,000	10	<i>Fast-Cut</i>
49638	4" Radial Knot Stainless Steel	.020	5/8-11	20,000	10	<i>Fast-Cut</i>

Bulk Knot Wire Wheel Brush - Stringer Bead

- Easily reaches into narrow or recessed areas for quick material removal.
- For pipeline welding junctions and cleaning bead welds.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	
49639	4" Radial Knot Carbon Stringer Bead	.020	5/8-11	20,000	10	<i>Fast-Cut</i>
49640	4" Radial Knot Stainless Steel Stringer	.020	5/8-11	20,000	10	<i>Fast-Cut</i>
49641	6" Stringer Bead Carbon	.020	5/8-11	12,000	10	<i>Fast-Cut</i>

Bulk Knot Wire Wheel Brush - Encapsulated Stringer Bead

- Encapsulated wire gradually wears away to expose wire for consistent wear during aggressive brushing action for longer working life.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	
60043	7" Stringer Bead	.014	5/8-11	9,000	40	Made In USA

Bulk Crimped Wire Wheel Brush

- For general use including cleaning and rust removal.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	
49642	4" Radial Crimp Carbon	.014	5/8-11	15,000	10	<i>Fast-Cut</i>

Bulk Knot Wire Cup Brush

- For scale removal, deburring, weld cleaning and flat surfaces.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	
49645	2-3/4" Cup Knot Carbon	.014	5/8-11	12,500	10	<i>Fast-Cut</i>
49646	2-3/4" Cup Knot Carbon	.020	5/8-11	12,500	10	<i>Fast-Cut</i>
49647	4" Cup Knot Carbon 1 Row	.020	5/8-11	8,500	10	<i>Fast-Cut</i>


Bulk Crimped Wire Cup Brush

- For light and medium duty cleaning including cleaning welds, burr removal and removing scale.

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	
49648	2-3/4" Cup Brush Crimped Carbon Wire	.014	5/8-11	12,500	10	<i>Fast-Cut</i>

Bulk Knot End Brush with 1/4" Shank

- Can be used at higher brushing speeds.
- For pipeline cleaning, CNC equipment maintenance/cleaning and removal of rust or scale.

UPC#	SPEC	WIRE SIZE	SHANK	MAX RPM	BOX QTY	
49649	3/4" Knotted End Brush Carbon with 1/4" Shank	.014	1/4" Shank	20,000	20	<i>Fast-Cut</i>
60133	1" Knotted End Brush Carbon with 1/4" Shank	.006	1/4" Shank	22,000	12	Made In USA 
49650	1" Knotted End Brush Carbon with 1/4" Shank	.020	1/4" Shank	20,000	20	<i>Fast-Cut</i>

Bulk Crimped End Brush with 1/4" shank

UPC#	SPEC	WIRE SIZE	SHANK	MAX RPM	BOX QTY	
60250	3/4" Crimped End Brush Carbon with 1/4" Shank	.010	1/4" Shank	22,000	100	Made In USA 

Bulk Crimped Wire Wheel Brush with 1/4" Shank

UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	
49643	2" Crimped Carbon Wire with 1/4" Shank	.014	1/4" Shank	25,000	20	<i>Fast-Cut</i>
49644	3" Crimped Carbon Wire with 1/4" Shank	.014	1/4" Shank	25,000	20	<i>Fast-Cut</i>

Bulk Copper Center Wheel Brush

- For general use including cleaning and rust removal.


UPC#	SPEC	WIRE SIZE	ARBOR HOLE	MAX RPM	BOX QTY	
49624	3" Crimped Brush	.008	1/2", 3/8" Adaptor	25,000	50	<i>Fast-Cut</i>

VITRIFIED WHEELS

VITRIFIED WHEELS



Comparative Marking Chart

Abrasives		SAINT-GOBAIN		TYROLIT	
		NORTON	CARBORUNDUM	CINCINNATI/ BAYSTATE	RADIAC
Regular Aluminum Oxide	A	A, 57A	A	A	A
Semi-Friable Aluminum Oxide	94A	57A, 64A, 32A	GA	2A, 3A	JA
Mixed Aluminum Oxide	91A	19A, 23A, 53A	DA	97A, 2A	FA, NA
Ceramic	AS3	3SG, 5SG	3SG, 5SG	3BP, 5MSB, 3MSB, 3GA, 5GA	7BW, 8BW, 8BP
Mono-Crystalline Aluminum Oxide	32A	32A	32AR	32A	32A
Premium Blue Aluminum Oxide	AZ	32A, 55A, 38A	–	9A, 48A, 12A, 17A, 32A	32A, SA WAA, WA
Ruby Aluminum Oxide	RA	48A	–	–	RA
Pink Aluminum Oxide	PA	55A, 32A, 25A	PA	87A, 12A, 17A	WAA, RAA, WRA
Premium Pink Aluminum Oxide	PASP	55A, 86A	–	87A, 32A	RAA, WRA
White Aluminum Oxide	WA/83A	38A	AA	9A, 48A	SA, WA
Mixed Aluminum Oxide/ Silicon Carbide	CA	AC	CA	CA	CA
Green Silicon Carbide	GC	39C	GC	5C, 1C	GC
Black Silicon Carbide	C	37C	C	6C, C	C

Special engineered vitrified wheels

CGW provides wheels to industries that request “Special Engineered Vitrified Wheels”.

For example, the aerospace and gas turbine industries manufacture aircraft engine blades and vanes using CGW open structure wheels. These special engineered wheels are typically used during Creep Feed Surface Grinding applications.

Our R&D department is committed to finding solutions for the most difficult applications. Using the Technical Data Sheet provided on page 160 along with your request would ensure that CGW could provide the best choice wheel for your application.

Our success in these industries, as well as the gear and bearings industries, is attributed not only to the sophisticated wheels we are capable of manufacturing, but also to the technical and logistical support that compliments them.

VITRIFIED WHEELS

CGW Grain Types

A – Dark Aluminum Oxide: The most common of all grains. This grain is used for heavy-duty general purpose applications.

New 94AB – Semi-Friable Aluminum Oxide: Advanced grain technology used in Cylindrical and Centerless grinding wheels. This grain can be used to grind steels in either soft or hard state.

AS3 – 20% Ceramic Aluminum Oxide, 30% Pink Grain, and 50% White Grain creates a wheel with maximum grinding performance and life. Excellent for form and corner holding and down feed of .0005-.002 per pass.

32A – Mono-Crystalline Aluminum Oxide: Ideal for medium to heavy stock removal; outstanding form holding and free cutting grain. Provides maximum versatility.

AZ – Blue Aluminum Oxide: Excellent at grinding HSS over 55 RC. Grinds with an exceptionally cool, fast cutting action and requires minimum dressing.

RA – Red Aluminum Oxide (Ruby): This grain is harder and sharper than PA and AZ. Good for steels with a high level of chromium.

PA – Pink Aluminum Oxide: Good general purpose grain that is tough, but friable. Excellent for tool room sharpening applications.

83A, WA – White Aluminum Oxide: Highly friable grain for fast, cool cutting. Good for light grinding of all kinds of steels, particularly on tool and die steels.

New 91AB – White and Regular Aluminum Oxide: Advanced Grain technology in combination with WA for Surface Grinding general applications and various materials.

GC – Green Silicon Carbide: More friable than C; for carbide grinding applications.

72C, C – Black Silicon Carbide: Sharper than Aluminum Oxide and therefore more effective grinding low tensile materials and non-ferrous metals.

New WAG – Highly friable grain with special bond characteristics for fast, cool cutting action and extended life over traditional aluminum oxide wheels.

New PASP – Special pink formulation for precision grind applications. Tough, but very friable. Produced with new high performance VD ceramic bond for cooler cutting and longer life.

Analysis of Typical Vitrified Wheel Specifications

Grain Size

Coarse: 8, 10, 12, 14, 18, 20, 24
 Med: 30, 36, 46, 54, 60
 Fine: 80, 100, 120, 150, 180
 Very-Fine: 220, 240, 280, 320, 400, 600

Grade

Soft: B, D, E, F, G, H
 Med: I, J, K, L, M, N
 Hard: O, P, Q, R, S, T

Bond

V, VN18, V32A, VD18, VD, VN: Vitrified
 VP, V18P, VPB, VCERP: Vitrified Porous
 B: Resin
 B2: Resin Bonded
 BF: Reinforced Resin
 RX: Natural Rubber
 CDR: Calendered Rubber

Structure

DENSE ←————→ **OPEN/POROUS**
 3 4 5 6 7 8 9 10 11 12 18



7 x 1/2 x 1 1/4 RA 46H 8V

WHEEL SIZE

ABRASIVE

GRAIN SIZE

GRADE

STRUCTURE BOND

MAXIMUM OPERATING SPEED

Basic Characteristics of a CGW Wheel

The CGW grinding wheel consists of abrasive grains held together by a bond. By varying the properties of the abrasives, the type of bond and the structure of the wheel, it is possible to produce innumerable grinding characteristics.

The Abrasive: There are two main categories of grain:

Aluminum Oxide - For grinding high tensile steel (i.e. hardened or high speed steels)

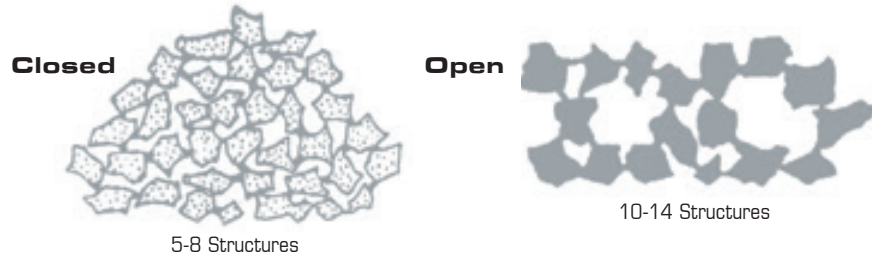
Silicon Carbide - Low tensile steels (i.e. cast iron and non-ferrous metals)

Bond: The function of the bond is to hold the abrasive grains in a definite spacing to form a product of defined size and shape. The most commonly used bonds are:

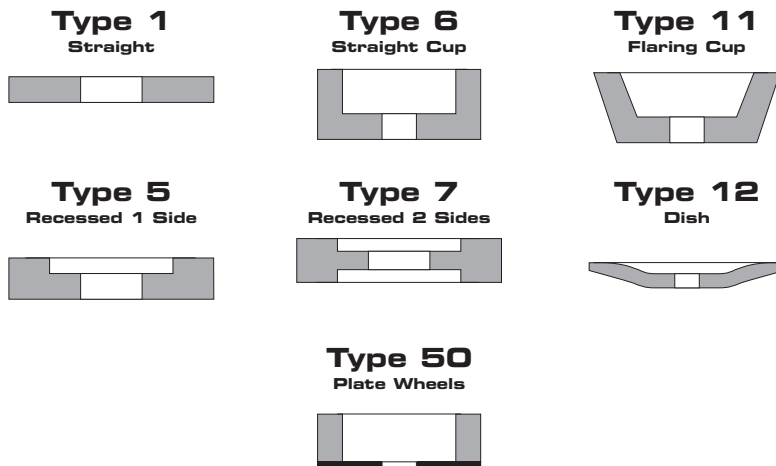
Vitrified - This bond gives rich stock removal and its rigidity is excellent for precision grinding.

Resin - An organic bond which makes the wheel tougher; suited for heavy-duty operations, high operating speeds, rough grinding and cut-off applications (i.e. 1-1/2 - 20" Cutoff Wheels, 3 - 9" Depressed Center Wheels).

Structure: Wheel structure is the spacing of the grain in the wheel. The grain is held in position by the bond, the closer the grains (the smaller the pores), the lower the structure. The further apart the grains (the larger the pores), the higher the structure.



Standard Wheel Shapes



Standard Wheel RPMs

Diameter	RPM
6	4456
7	3760
8	3600
10	2674
12	2228
14	1910
16	1671

VITRIFIED WHEELS

VITRIFIED WHEELS

Technical Information Data Sheet for Grinding Operation

Grinding Operation					
Cylindrical Grinding	<input type="checkbox"/> Traverse Grinding	<input type="checkbox"/> Plunge Grinding	<input type="checkbox"/> Internal Grinding	<input type="checkbox"/> Sharpening Grinding	<input type="checkbox"/> Gears
Surface Grinding	<input type="checkbox"/> Traverse Grinding	<input type="checkbox"/> Plunge Grinding	<input type="checkbox"/> Creep Feed		
Centerless Grinding	<input type="checkbox"/> Through Feed	<input type="checkbox"/> In-Feed	<input type="checkbox"/> End Feed		
Tool Room					
Cutting					
Bench					
Other					
Machine Data					
Type of Grinder					
Control System	<input type="checkbox"/> CNC	<input type="checkbox"/> Manual			
Production Year					
Machine Condition					
No. of Machines					
Coolant Type	<input type="checkbox"/> Oil	<input type="checkbox"/> Emulsion	<input type="checkbox"/> Dry		
Other					
Grinding Wheel Data					
Wheel Dimensions	D x W x H				
Shape					
Shape Dimensions					
Tolerance	<input type="checkbox"/> Standard	<input type="checkbox"/> Special			
Spindle Speed					
Work Piece Speed					
Dressing Tool System	<input type="checkbox"/> Stationary	<input type="checkbox"/> Rotary			
Other					
Work Piece Data					
Shape					
Material					
Hardness					
Total Material to Remove					
Surface Finish (Ra)					
Other					
Wheel Used Today					
Brand					
Specifications					
Parts per Dress					
Grind Time					
No. of Wheels per Year					
Other					

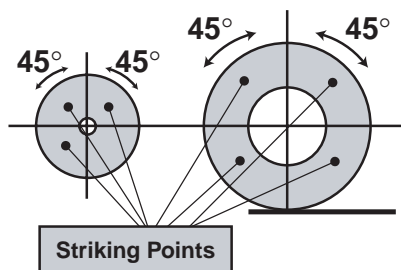
Fax: 800-447-3731

Email: orders@cgwcamel.com

Part#: _____

Surface Grinding Wheel Safety Ring Test

- Always perform a ring test on a grinding wheel before mounting it. The ring test will locate an invisible crack.
- If a sharp distinct ring is heard the wheel is safe.
- If the wheel is cracked the ring will be dull. DO NOT USE DAMAGED WHEELS.



Warning! Grinding Wheels Improperly Used Are Dangerous

Grinding is a safe operation if the few basic rules listed below are followed. These rules are based on material contained in the ANSI B7.1 Safety Requirements for "Use, Care and Protection of Abrasive Wheels." For your safety, we suggest you benefit from the experience of others and carefully follow these rules.

Safe Operating Instructions

ALWAYS USE A GUARD

WEAR EYE PROTECTION

COMPLY WITH ANSI CODE B7.1 AND OSHA REGULATIONS

DO NOT EXCEED MAXIMUM SAFE SPEED MARKED ON WHEEL

1. DO always HANDLE AND STORE wheels in a CAREFUL manner.
2. DO VISUALLY INSPECT and ring test all wheels before mounting for possible damage.
3. DO CHECK MACHINE SPEED against the established maximum safe operating speed marked on the wheel.
4. DO CHECK MOUNTING FLANGES for equal and correct diameter.
5. DO USE MOUNTING BLOTTERS when supplied with wheels.
6. DO be sure WORK REST is properly adjusted. (Center of wheel or above; no more than 1/8" away from wheel.)
7. DO always USE A SAFETY GUARD covering at least one-half of the grinding wheel.
8. DO allow NEWLY MOUNTED WHEELS to run at operating speed, with a guard in place, for at least one minute before grinding.
9. DO always WEAR SAFETY GLASSES or some type of eye protection when grinding.
10. DO TURN OFF COOLANT before stopping wheel to avoid creating an out-of-balance condition.
1. DON'T use a cracked wheel or one that HAS BEEN DROPPED or has become damaged.
2. DON'T FORCE a wheel onto the machine OR ALTER the size of the mounting hole—if wheel won't fit the machine, get one that will.
3. DON'T ever EXCEED MAXIMUM OPERATING SPEED established for the wheel.
4. DON'T use mounting flanges on which the bearing surfaces ARE NOT CLEAN, FLAT AND FREE OF BURRS.
5. DON'T OVERTIGHTEN the mounting nut EXCESSIVELY.
6. DON'T grind the SIDE OF THE WHEEL (see Safety Code for B7.1 for exception).
7. DON'T start the machine until the WHEEL GUARD IS IN PLACE.
8. DON'T JAM work into the wheel.
9. DON'T STAND DIRECTLY IN FRONT of a grinding wheel whenever a grinder is started.
10. DON'T FORCE GRINDING so that motor slows noticeably or work gets hot.

SURFACE GRINDING WHEELS



AS3 - Ceramic Aluminum Oxide

- Engineered for fast metal removal with reduced dressing frequency.
- Excels at grinding 50 Rockwell C and harder.
- Submicron crystal structure continually fractures to produce sharp new grinding points.
- Designed for heavier downfeeds and faster traverse rates with excellent form holding capabilities.

32A

- Mono-crystalline aluminum oxide grain offers excellent versatility and performance on a wide range of applications and materials.
- Outstanding form holding wheels with free cutting grain.
- Ideal for medium to heavy stock removal.

AZ - Premium Blue Aluminum Oxide

- Sharp aluminum oxide grain with premium CGW bond offers excellent versatility and performance.
- Exceptionally fast and cool cutting characteristics suitable for grinding heat sensitive, alloy steels and mold steels (high speed steels over 55RC).
- Free cutting design pulls the heat away from the part.
- Friable grain for cooler grinding. Requires minimal dressing and holds its form well.

RA - Ruby Aluminum Oxide

- Ideal for rough grinding of all tool steels including steel with high levels of chromium.
- A tough, sharp, yet friable abrasive with high material removal rate and strong form holding capabilities.
- Grain is tougher than White, AZ or Pink grain wheels.

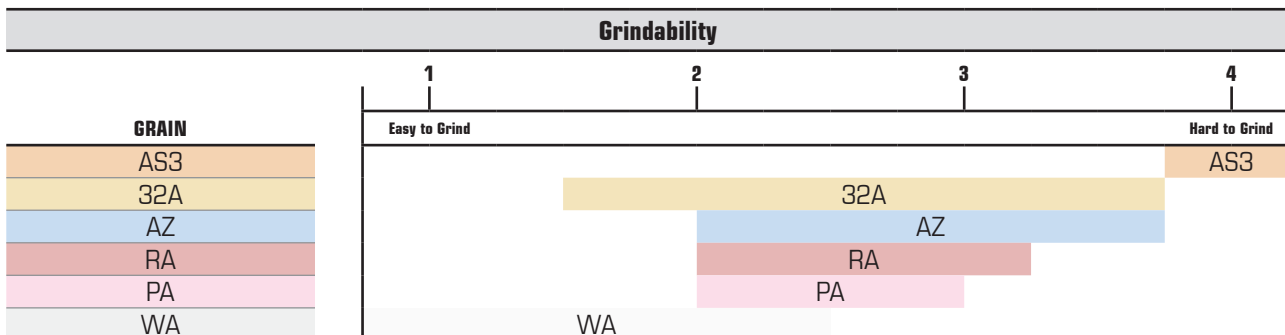
PAPASP - Pink Aluminum Oxide/Premium Pink Aluminum Oxide

- Engineered for grinding high speed steels over 55C and general purpose tool steels.
- Best choice for fast & cool cutting of heat sensitive & hard alloys. 55RC and general purpose tool steels.
- Excellent tool sharpening wheel.
- Best value for performance & tooling costs.

WA - White Aluminum Oxide

- Used when easy cutting action is needed on all surfaces.
- Ideal for grinding heat-sensitive steels, as well as easy and medium to grind high speed steels.
- The most friable grain choice.

Surface Grinding Wheels Tool Steel Classifications



Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability	Steel Type	Classification of Grindability
Air-Hardening Medium Alloy Cold Work Tool Steels		Carbon-Tungsten Tool Steels		Molybdenum Hot Work Tool Steels		Molybdenum High-Speed Tool Steels (cont.)		Oil-Hardened Cold Work Tool Steels		Tungsten High-Speed Tool Steels	
A2	1	F1	2	H41	2	M6	3	O1	1	T1	2
A3	1	F2	2	H42	2	M7	3	O2	1	T2	2
A4	1	F3	2	H43	2	M8	2	O6	1	T3	3
A5	1	Chromium Hot Work Tool Steels		Low-Alloy Special Purpose Tool Steels		M10	2	O7	1	T4	2
A6	1					M15	4			T5	3
A7	1	H10	1			M20	2	Mold Steels		T6	3
A8	1	H11	1	L1	1	M25	2	P1	1	T7	2
A9	1	H12	1	L2	1	M30	2	P2	1	T8	2
A10	1	H13	1	L3	1	M33	3	P3	1	T9	4
		H14	1	L4	1	M34	3	P4	1	T15	4
Air-Hardening Medium Alloy Cold Work Tool Steels		H16	1	L5	1	M35	3	P5	1	T20	4
D1	2	H17	1	L6	1	M40	3	P6	1		
D2	3			L7	1	M41	3	P20	1	Water-Hardening Tool Steels	
D3	2	Tungsten Hot Work Tool Steels				M42	3	P21	1	W1	1
D4	2	H20	1	Molybdenum High-Speed Tool Steels		M43	3			W2	1
D5	2	H21	1	M1	2	M44	3	Shock-Resisting Tool Steels		W3	1
D6	2	H22	1	M2	2	M45	3	S1	1	W4	1
D7	4	H23	1	M3	3	M50	3	S2	1	W5	1
		H24	1	M4	4	M52	3	S3	1	W7	1
		H25	1					S4	1		
		H26	1					S5	1		
								S6	1		
								S7	1		

Surface Grinding Tips

There are many applications in surface grinding, from heavy stock removal to a very precise finish and size requirements. Matching the right wheel with the application is very important to achieve the needs of the grinder. There are many ways to meet these needs. If a fine finish is required a finer wheel may be used. Many times an operator may use one wheel to do the job of many changing the speed and feed of the wheel.

Grit Size / Grain Size Combinations

Grit Size: All abrasives are sized to a national standard and are assigned a numerical designation. The higher the number, the finer the grit size. When selecting grit size, the following should be considered:

- Use Coarse Grit:**
- For rapid stock removal
 - For large areas of contact
 - When finish is not important
 - For softer materials

- Use Fine Grit:**
- For form holding
 - For small areas of contact
 - For fine finishes
 - For hard, brittle materials

General Grain Size Selections

Grain	Finish (Rms)	Grain	Finish (Rms)	Grain	Finish (Rms)
46	Over 32	80	12 – 18	120	8 – 12
54	20 – 32	100	10 – 15	150	6 – 10
60	15 – 20				

SURFACE GRINDING WHEELS

SIZE – GRIT – HARDNESS	AS3 Ceramic	32A	AZ Premium Blue	RA Ruby	PA Pink	WA White	Carton	Unit
6 x 1/2 x 1 1/4 T1 60-K			34301				10	20
7 x 1/4 x 1 1/4 T1 46-I			34303		58000	34600	10	20
7 x 1/4 x 1 1/4 T1 60-I			34308			34603	10	20
7 x 1/4 x 1 1/4 T1 60-J			34309	59025	58001	34604	10	20
7 x 1/4 x 1 1/4 T1 60-K	34206		34310			34605	10	20
7 x 1/4 x 1 1/4 T1 80-J			34312			34606	10	20
7 x 1/4 x 1 1/4 T1 80-K	34207		34313		58002	34607	10	20
7 x 1/4 x 1 1/4 T1 80-L							10	20
7 x 1/4 x 1 1/4 T1 100-K			34315		58003	34608	10	20
7 x 1/4 x 1 1/4 T1 120-K						34609	10	20
7 x 1/4 x 1 1/4 T1 150-K			34317			34610	10	20
7 x 1/2 x 1 1/4 T1 46-G						34614	10	20
7 x 1/2 x 1 1/4 T1 46-H	34208	37700	34318	34633	58004	34615	10	20
7 x 1/2 x 1 1/4 T1 46-I	34210	37701	34319			34616	10	20
7 x 1/2 x 1 1/4 T1 46-J	34209	37702	34320		58006	34617	10	20
7 x 1/2 x 1 1/4 T1 46-J/K				34634			10	20
7 x 1/2 x 1 1/4 T1 46-K		37703	34321		58007	34618	10	20
7 x 1/2 x 1 1/4 T1 60-H			34323		58008	34619	10	20
7 x 1/2 x 1 1/4 T1 60-I		37704	34324			34620	10	20
7 x 1/2 x 1 1/4 T1 60-J	34212	37705	34325		58010	34621	10	20
7 x 1/2 x 1 1/4 T1 60-J/K				34635			10	20
7 x 1/2 x 1 1/4 T1 60-K	34213	37706	34326		58011	34622	10	20
7 x 1/2 x 1 1/4 T1 60-L			34327				10	20
7 x 1/2 x 1 1/4 T1 80-H			34328				10	20
7 x 1/2 x 1 1/4 T1 80-K	37768	37728	34329	59000	58012	34623	10	20
7 x 1/2 x 1 1/4 T1 100-K			34330			34624	10	20
7 x 1/2 x 1 1/4 T1 120-K			34331			34625	10	20
7 x 1/2 x 1 1/4 T1 150-K			34332			34626	10	20
7 x 1/2 x 1 1/4 T1 46-H12			34333				10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-H		37729	34335			34636	10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-I			34336		58013		10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-J			34337	59001		34638	10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-K			34338				10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-H						34640	10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J		37731	34341	59002	58015	34642	10	20
7 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J/K							10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-H		37732	34342		58016	34647	10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-I			34343			34648	10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J		37733	34344	59003	58017	34649	10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-K			34345				10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-I						34652	10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J		37734	34348	59004	58018	34653	10	20
7 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-K			34349				10	20
8 x 1/4 x 1 1/4 T1 46-J	37769						10	20
8 x 1/4 x 1 1/4 T1 60-J	34114						10	20
8 x 1/4 x 1 1/4 T1 60-K						34663	10	20
8 x 1/4 x 1 1/4 T1 80-J						34664	10	20
8 x 1/2 x 1 1/4 T1 46-H		37707	34350	59005	58019	34671	10	20
8 x 1/2 x 1 1/4 T1 46-I		37708	34351			34672	10	20
8 x 1/2 x 1 1/4 T1 46-J	37771	37709	34352		58021	34673	10	20
8 x 1/2 x 1 1/4 T1 46-J/K				59006			10	20
8 x 1/2 x 1 1/4 T1 46-K	34214		34353			34674	10	20
8 x 1/2 x 1 1/4 T1 60-H			34354				10	20
8 x 1/2 x 1 1/4 T1 60-I			34355			34676	10	20
8 x 1/2 x 1 1/4 T1 60-J	34215	37710	34356		58023	34677	10	20
8 x 1/2 x 1 1/4 T1 60-K		37711	34357	59007	58024	34678	10	20
8 x 1/2 x 1 1/4 T1 80-K		37736	34358	59008	58025	34679	10	20
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-H			34359	59009	58026	34683	10	20

Items in gray are being discontinued and then available as a special make item only.

SELECTION CHART

SIZE – GRIT – HARDNESS	AS3 Ceramic	32A	AZ Premium Blue	RA Ruby	PA Pink	WA White	Carton	Unit
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 46-J			34360			34685	10	20
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-I						34688	10	20
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-J			34364			34689	10	20
8 x 3/4 x 1 1/4 (R/1-3 x 1/4) T5 60-K						34690	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-H			34366				10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-I						34696	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J			34367		58028	34697	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-J/K				59010			10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 46-K						34698	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-I						34700	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J			34369		58029	34701	10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-J/K				59011			10	20
8 x 1 x 1 1/4 (R/1-3 x 1/2) T5 60-K						34702	10	20
10 x 1/2 x 3 T1 60-J						34712	5	10
10 x 3/4 x 3 T1 46-I			34380				5	10
10 x 3/4 x 3 T1 60-H			34383				5	10
10 x 3/4 x 3 T1 60-I						34719	5	10
10 x 1 x 2 T1 46-I			34387				5	10
10 x 1 x 3 T1 46-H						34723	5	10
10 x 1 x 3 T1 46-I			34390				5	10
10 x 1 x 3 T1 46-J	37773	37737	34391		58031	34725	5	10
10 x 1 x 3 T1 46-J/K				59012			5	10
10 x 1 x 3 T1 46-K	34217		34392				5	10
10 x 1 x 3 T1 60-I			34394				5	10
10 x 1 x 3 T1 60-J		37738	34395		58032	34729	5	10
10 x 1 x 3 T1 60-K			34396				5	10
12 x 3/4 x 3 T1 46-H			34397				4	8
12 x 3/4 x 3 T1 46-I						34735	4	8
12 x 3/4 x 5 T1 60-J			34409				4	8
12 x 1 x 3 T1 46-H	34219	37712	34411	59013	58033	34742	2	6
12 x 1 x 3 T1 46-I							2	6
12 x 1 x 3 T1 46-J	34220	37713	34413		58034	34744	2	6
12 x 1 x 3 T1 46-J/K				59014			2	6
12 x 1 x 3 T1 46-K			34414				2	6
12 x 1 x 3 T1 60-I	34221		34416				2	6
12 x 1 x 3 T1 60-J	37775						2	6
12 x 1 x 3 T1 60-K		37739	34418				2	6
12 x 1 x 5 T1 46-H	34222		34419			34752	2	4
12 x 1 x 5 T1 46-J	34223	37740	34421			34755	2	4
12 x 1 x 5 T1 46-K			34422	59015	58035		2	4
12 x 1 x 5 T1 60-J	37777	37742	34425			34759	2	4
12 x 1 x 5 T1 60-K			34426	59016	58036		2	4
12 x 1 x 5 T1 80-K		37754					2	4
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 46-H						34761	2	4
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 46-I						34762	2	4
12 x 1 1/2 x 3 (w-7 1/2 x 1/2) T5 46-J						34763	2	4
12 x 1 1/2 x 3 (R/1-7 1/2 x 1/2) T5 60-I						34766	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-H	34225	37714	34427	59017	58037	34769	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-I						34770	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-J	34226	37715	34429		58038	34771	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-J/K				59018			2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 46-K			34430			34772	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-I						34774	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-J	34227	37755	34433			34775	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 60-K		37744				34776	2	4
12 x 1 1/2 x 5 (R/1-7 1/2 x 1/2) T5 80-K							2	4
12 x 2 x 3 (R/2-7 1/2 x 1/2) T7 46-I			34434				1	3
12 x 2 x 3 (R/2-6 1/2 x 1/2) T7 60-J			34435				1	3

Items in gray are being discontinued and then available as a special make item only.

SELECTION CHART

SIZE – GRIT – HARDNESS	AS3 Ceramic	32A	AZ Premium Blue	RA Ruby	PA Pink	WA White	Carton	Unit
12 x 2 x 5 (R/2-6 1/2 x 1/2) T7 46-H		37716	34436	59019	58039		1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 46-I		37717	34437		58040	34778	1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 46-J		37757				34779	1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 46-J/K				59020			1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 60-H			34440			34781	1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 60-J							1	3
12 x 2 x 5 (R/2-7 1/2 x 1/2) T7 60-K							1	3
14 x 1 x 3 T1 46-H	37779						2	4
14 x 1 x 3 T1 46-I			34445				2	4
14 x 1 x 3 T1 46-J	34115						2	4
14 x 1 x 3 T1 60-J	37780						2	4
14 x 1 x 5 T1 46-H	34230	37745	34447	59042	58048		2	4
14 x 1 x 5 T1 46-I		37718	34448		58049	34786	2	4
14 x 1 x 5 T1 46-I/J				59021			2	4
14 x 1 x 5 T1 46-J	34232	37759	34449				2	4
14 x 1 x 5 T1 46-K							2	4
14 x 1 x 5 T1 60-I			34452			34790	2	4
14 x 1 x 5 T1 60-J	34233						2	4
14 x 1 x 5 T1 60-K		37746	34454		58050	34792	2	4
14 x 1 x 5 T1 80-K		37761				34830	2	4
14 x 1 1/2 x 5 T1 46-H	34238	37719	34456	59022		34801	2	4
14 x 1 1/2 x 5 T1 46-I		37747				34802	2	4
14 x 1 1/2 x 5 T1 46-J	34239	37720	34458			34803	2	4
14 x 1 1/2 x 5 T1 46-K			34459	59045			2	4
14 x 1 1/2 x 5 T1 60-H			34460				2	4
14 x 1 1/2 x 5 T1 60-I	34240						2	4
14 x 1 1/2 x 5 T1 60-J	34243		34462				2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 46-H	34234	37721	34464		58041	34793	2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 46-I	34235	37722	34465			34794	2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 46-I/J				59023			2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 46-J	37782		34466		58042	34795	2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 46-K		37748	34467				2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 60-H							2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 60-I	34236		34469			34798	2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 60-J	37783	37749	34470				2	4
14 x 1 1/2 x 5 (R/1-8 x 1/2) T5 60-K				59049			2	4
14 x 2 x 5 T1 46-H		37750	34472				1	2
14 x 2 x 5 T1 46-I			34473			34808	1	2
14 x 2 x 5 T1 46-J		37723	34474				1	2
14 x 2 x 5 T1 60-J		37764				34809	1	2
14 x 2 x 5 (R/1-8 x 1) T5 46-H	34241	37724	34480	59024	58043	34811	1	2
14 x 2 x 5 (R/1-8 x 1) T5 46-I			34481		58044	34812	1	2
14 x 2 x 5 (R/1-8 x 1) T5 46-J		37751	34482			34813	1	2
14 x 2 x 5 (R/1-8 x 1) T5 46-K							1	2
14 x 2 x 5 (R/1-8 x 1) T5 60-I						34816	1	2
14 x 2 x 5 (R/1-8 x 1) T5 60-J	34116	37765	34486				1	2
14 x 2 x 5 (R/1-8 x 1) T5 60-K		37726	34487		58045		1	2
14 x 2 x 5 (R/2-8 x 3/8) T7 46-H		37752					1	2
14 x 2 x 5 (R/2-8 x 3/8) T7 46-I			34488		58046		1	2
14 x 2 x 5 (R/2-8 x 3/8) T7 46-J			34489		58047		1	2
14 x 2 x 5 (R/2-8 x 3/8) T7 46-K			34490				1	2
14 x 2 x 5 (R/1-8 x 1) T5 60-J		37753					1	2
16 x 1 1/2 x 5 T1 46-H			34491				1	2
16 x 1 1/2 x 5 T1 60-H			34500				1	2
16 x 1 1/2 x 5 T1 60-J			34493				1	2
16 x 2 x 5 T1 46-I			34495				1	2
16 x 2 x 5 T1 46-J			34496				1	2
16 x 2 x 5 T1 60-K			34497				1	2

Items in gray are being discontinued and then available as a special make item only.

SURFACE GRINDING WHEELS

New Porous Surface Grinding Wheels

- Engineered for medium and heavy stock removal and heat sensitive applications.
- Strong, innovative bonds for tough applications.
- Porous grinding wheels accelerate grinding processes
- CGW has multiple grains options to match all your applications goals.

AS3: Heavy stock removal & heat sensitive applications.

32A: Built for flexibility in stock removal.

RA: For medium to heavy stock removal & heat sensitive applications.

PA: For light to medium stock removal & heat sensitive applications.



SURFACE GRINDING WHEELS

Porous Surface Grinding Wheels Selection Chart

SIZE – GRIT – HARDNESS	AS3 Ceramic	32A	RA Ruby	PA Pink	Unit	Carton
7 x 1/2 x 1 1/4 T1 46-G12	34249	37786	59080		10	20
7 x 1/2 x 1 1/4 T1 46-H12	34250	37787	59081	58062	10	20
7 x 1/2 x 1 1/4 T1 60-H12	34251	37788	59082	58063	10	20
8 x 1/2 x 1 1/4 T1 46-G12	34252	37789			10	20
8 x 1/2 x 1 1/4 T1 46-H12		37790	59084	58065	10	20
8 x 1/2 x 1 1/4 T1 60-H12	34254	37791	59085	58066	10	20
10 x 1/2 x 1 1/4 (+bushing to 3/4) T1 60-H12		37796	59090	58071	1	5
10 x 1 x 1 1/4 T1 46-H12		37797	59091	58072	5	10
12 x 1 1/2 x 5 T5 46-H12	34255	37792	59086	58067	2	4
14 x 1 1/2 x 5 T1 46-H12	34256	37793	59087	58068	2	4
14 x 1 1/2 x 5 T5 46-H12		37794	59088		2	4
14 x 1 1/2 x 5 T5 60-H12				58069	2	4
14 x 2 x 5 T5 46-H12	34258	37795	59089		1	2
14 x 2 x 5 T5 60-H12				58070	1	2

Items in gray are being discontinued and then available as a special make item only.

Structure

Wheel structure is the spacing of the grain in the wheel. The grain is held in position by the bond, the closer the grains (the smaller the pores), the lower the structure. The further apart the grains (the larger the pores), the higher the structure.

Closed



5-8 Structures

Open



10-14 Structures

SURFACE GRINDING WHEELS

GREEN SILICON CARBIDE SURFACE GRINDING WHEELS & 32A ID WHEELS

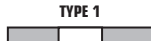
Green Silicon Carbide Surface Grinding Wheels

7"-8" Diameter Grinding Wheels

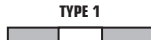
GC - Green Silicon Carbide Grain

- Quickly grinds non-ferrous metals and sharpens tungsten carbide tools.
- Used on titanium and cemented carbide.

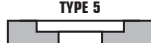


7 x 1/4 x 1-1/4  3760 RPM

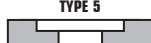
UPC#	SPEC.	CARTON	UNIT
34611	GC60-I-V	10	20
34612	GC80-I-V	10	20
34613	GC100-I-V	10	20

7 x 1/2 x 1-1/4  3760 RPM


UPC#	SPEC.	CARTON	UNIT
34627	GC60-I-V	10	20
34628	GC80-I-V	10	20
34629	GC100-I-V	10	20

7 x 3/4 x 1-1/4  3760 RPM
R/1 - 3 x 1/4


UPC#	SPEC.	CARTON	UNIT
34644	GC60-I-V	10	20
34645	GC80-I-V	10	20
34646	GC100-I-V	10	20

7 x 1 x 1-1/4  3760 RPM
R/1 - 3 x 1/2

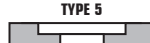
UPC#	SPEC.	CARTON	UNIT
34655	GC60-I-V	10	20
34656	GC80-I-V	10	20
34657	GC100-I-V	10	20

8 x 1/4 x 1-1/4  3600 RPM

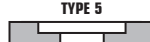
UPC#	SPEC.	CARTON	UNIT
34669	GC80-I-V	10	20

8 x 1/2 x 1-1/4  3600 RPM

UPC#	SPEC.	CARTON	UNIT
34680	GC60-I-V	10	20
34681	GC80-I-V	10	20
34682	GC100-I-V	10	20

8 x 3/4 x 1-1/4  3600 RPM
R/1 - 3 x 1/4

UPC#	SPEC.	CARTON	UNIT
34692	GC60-I-V	10	20

8 x 1 x 1-1/4  3600 RPM
R/1 - 3 x 1/2

UPC#	SPEC.	CARTON	UNIT
34703	GC60-I-V	10	20
34705	GC100-I-V	10	20

ID WHEELS

32A ID (Internal Dimension) Wheels

- For grinding inside surfaces of bearings, rings, cylinders, barrels, and bores.
- Designed for concentricity, precision, rigidity, and efficiency.



UPC#	SPEC.	CARTON	UNIT	UNIT
59050	3/4 x 3/4 x 1/4 (3/8 x 3/8) 32A60-J8-V	33,500	20	40
59051	1 x 1 x 1/4 T5 (1/2 x 1/2) 32A60-J8-V	26,800	20	40
59052	1 x 1 x 3/8 T5 (1/2 x 1/2) 32A60-J8-V	26,800	20	40
59053	1-1/4 x 1 x 3/8 T5 (5/8 x 1/2) 32A60-J8-V	20,900	20	40
59054	1-1/2 x 1 x 3/8 T5 (5/8 x 1/2) 32A60-J8-V	16,750	20	40
59055	1-1/2 x 1 x 3/8 T5 (3/4 x 1/2) 32A60-J8-V	16,750	20	40
59056	2 x 1 x 3/8 T5 (3/4 x 3/8) 32A60-J8-V	13,400	20	40
59057	2 x 1 1/2 x 5/8 T5 (1 x 3/4) 32A60-J8-V	13,400	20	40

BENCH & PEDESTAL WHEELS

Bench & Pedestal Wheels 6"-10" Diameter - Type 1 Carton Packs

- Straight vitrified wheels used for off-hand tool sharpening and grinding. Common settings for bench and pedestal grinders are in maintenance departments, tool & die shops and metal fabrication shops.
- **A** - Aluminum Oxide for general purpose off-hand work.
- **GC** - Green Silicon Carbide for non-ferrous metals, tungsten carbide for sharpening carbide tools in tool rooms.



H*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors
H*: 1-1/4" Hole, Installed Telescopic Bushings for 1", 3/4", 5/8" and 1/2" Arbors

6 x 1/2 x 1 (H*)		4,456 R.P.M.	
UPC#	SIZE	CARTON	UNIT
<i>Green Silicon Carbide:</i>			
35005	GC60-I-V	10	20
35006	GC80-I-V	10	20
35007	GC100-I-V	10	20

6 x 3/4 x 1 (H*)		4,456 R.P.M.	
UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
35008	A24-Q-V	10	20
35009	A36-O-V	10	20
35010	A46-M-V	10	20
35011	A60-M-V	10	20
35012	A80-M-V	10	20
<i>Green Silicon Carbide:</i>			
35013	GC60-I-V	10	20
35014	GC80-I-V	10	20
35015	GC100-I-V	10	20

6 x 1 x 1 (H*)		4,456 R.P.M.	
UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
35017	A24-Q-V	10	20
35018	A36-O-V	10	20
35019	A46-M-V	10	20
35020	A60-M-V	10	20
35021	A80-M-V	10	20
<i>Green Silicon Carbide:</i>			
35022	GC60-I-V	10	20
35023	GC80-I-V	10	20
35024	GC100-I-V	10	20

7 x 3/4 x 1 (H*)		3,760 R.P.M.	
UPC#	SIZE	CARTON	UNIT
<i>Green Silicon Carbide:</i>			
35031	GC60-I-V	10	20
35032	GC80-I-V	10	20
35033	GC100-I-V	10	20

7 x 1 x 1 (H*)		3,760 R.P.M.	
UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
35034	A24-Q-V	10	20
35035	A36-O-V	10	20
35036	A46-M-V	10	20
35037	A60-M-V	10	20
35038	A80-M-V	10	20
<i>Green Silicon Carbide:</i>			
35039	GC60-I-V	10	20
35040	GC80-I-V	10	20
35041	GC100-I-V	10	20

8 x 3/4 x 1 (H*)		3,600 R.P.M.	
UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
35044	A46-M-V	10	20

8 x 1 x 1-1/4 (H*)		3,600 R.P.M.	
UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
35046	A24-Q-V	10	20
35047	A36-O-V	10	20
35048	A46-M-V	10	20
35049	A60-M-V	10	20
35050	A80-M-V	10	20
<i>Green Silicon Carbide:</i>			
35051	GC60-I-V	10	20
35052	GC80-I-V	10	20
35053	GC100-I-V	10	20

Bench & Pedestal Wheels 6"-18" Diameter - Type 1 Single Packs



Type 1

- **A** - Aluminum Oxide for general purpose off-hand work.
- **GC** - Green Silicon Carbide for non-ferrous metals, tungsten carbide for sharpening carbide tools in tool rooms.
- **AZ** - Premium Blue Aluminum Oxide for HSS over 55 RC and above, high carbon tool steels and woodworking applications. Engineered for free cutting action while pulling heat away from the part and into the matrix of the wheel.
- **WA** - White Aluminum Oxide highly friable grain for fast and cool cutting. Light grinding of all types of steel including tool and die steels; fast sharpening of all tools.

H*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors

6 x 1/2 x 1 (H*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38001	A24-Q-V	1	10
38003	A46-M-V	1	10
38004	A60-M-V	1	10
38005	A80-M-V	1	10
<i>Green Silicon Carbide:</i>			
38501	GC60-I-V	1	10
38502	GC80-I-V	1	10
38503	GC100-I-V	1	10

6 x 3/4 x 1 (H*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38006	A24-Q-V	1	10
38007	A36-O-V	1	10
38008	A46-M-V	1	10
38009	A60-M-V	1	10
38010	A80-M-V	1	10
<i>Premium Blue Aluminum Oxide:</i>			
38111	AZ36-K8-V3	1	10
38113	AZ60-K8-V3	1	10
38114	AZ80-K8-V3	1	10
38116	AZ120-K8-V3	1	10
<i>White Aluminum Oxide:</i>			
38613	WA60-K-V	1	10
38616	WA120-K-V	1	10
<i>Green Silicon Carbide:</i>			
38504	GC60-I-V	1	10
38505	GC80-I-V	1	10
38506	GC100-I-V	1	10

6 x 1 x 1 (H*) 4,456 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38011	A24-Q-V	1	10
38012	A36-O-V	1	10
38013	A46-M-V	1	10
38014	A60-M-V	1	10
38015	A80-M-V	1	10
<i>Premium Blue Aluminum Oxide:</i>			
38121	AZ36-K8-V32A	1	10
38123	AZ60-K8-V32A	1	10
38126	AZ120-K8-V32A	1	10
<i>White Aluminum Oxide:</i>			
38623	WA60-K-V	1	10
38626	WA120-K-V	1	10
<i>Green Silicon Carbide:</i>			
38507	GC60-I-V	1	10
38508	GC80-I-V	1	10
38509	GC100-I-V	1	10
38580	GC120-I-V	1	10

7 x 3/4 x 1 (H*) 3,760 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38562	A60-M-V	1	10
<i>Green Silicon Carbide:</i>			
38510	GC60-I-V	1	10
38511	GC80-I-V	1	10
38512	GC100-I-V	1	10

BENCH & PEDESTAL WHEELS

Single Packs

7 x 1 x 1 (H*) 3,760 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38016	A24-Q-V	1	10
38017	A36-O-V	1	10
38018	A46-M-V	1	10
38019	A60-M-V	1	10
38020	A80-M-V	1	10
<i>Premium Blue Aluminum Oxide:</i>			
38161	AZ36-K8-V32A	1	10
38163	AZ60-K8-V32A	1	10
38164	AZ80-K8-V32A	1	10
38166	AZ120-K8-V32A	1	10
<i>White Aluminum Oxide:</i>			
38663	WA60-K-V	1	10
38666	WA120-K-V	1	10
<i>Green Silicon Carbide:</i>			
38513	GC60-I-V	1	10
38514	GC80-I-V	1	10
38515	GC100-I-V	1	10

8 x 1 x 1-1/4 (H*) 3,600 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38021	A24-Q-V	1	10
38022	A36-O-V	1	10
38023	A46-M-V	1	10
38024	A60-M-V	1	10
38025	A80-M-V	1	10
<i>Premium Blue Aluminum Oxide:</i>			
38201	AZ36-K8-V32A	1	10
38203	AZ60-K8-V32A	1	10
38204	AZ80-K8-V32A	1	10
38206	AZ120-K8-V32A	1	10
<i>White Aluminum Oxide:</i>			
38703	WA60-K-V	1	10
38706	WA120-K-V	1	10
<i>Green Silicon Carbide:</i>			
38516	GC60-I-V	1	10
38517	GC80-I-V	1	10
38518	GC100-I-V	1	10

10 x 1 x 1-1/4 (H²) 2,483 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38026	A24-Q-V	1	5
38027	A36-O-V	1	5
38028	A46-M-V	1	5
38029	A60-M-V	1	5
38030	A80-M-V	1	5
<i>Green Silicon Carbide:</i>			
38519	GC60-I-V	1	5
38520	GC80-I-V	1	5
38521	GC100-I-V	1	5

10 x 1-1/4 x 1-1/4 (H²) 2,483 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
35064	A46/54-M-V	1	5

10 x 1-1/2 x 1-1/4 (H²) 2,483 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38031	A24-Q-V	1	4
38032	A36-O-V	1	4
38033	A46-M-V	1	4
38034	A60-M-V	1	4
38035	A80-M-V	1	4
<i>Green Silicon Carbide:</i>			
38522	GC60-I-V	1	4
38523	GC80-I-V	1	4
38524	GC100-I-V	1	4

10 x 2 x 1-1/4 (H²) 2,483 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
35073	A30/36-O-V	1	2
35074	A54-M-V	1	2

12 x 1 x 1-1/4 (H²) 2,220 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38036	A24-Q-V	1	2
38038	A46-M-V	1	2
38039	A60-M-V	1	2
<i>Green Silicon Carbide:</i>			
38525	GC60-I-V	1	2

H*: 1" Hole, Installed Telescopic Bushings for 3/4", 5/8", and 1/2" Arbors
 H²: 1-1/4" Hole, Installed Telescopic Bushings for 1" and 3/4" Arbors
 H⁴: 1-1/4" Hole, Installed Telescopic Bushings for 1", 3/4", 5/8" and 1/2" Arbors

Single Packs

12 x 1-1/2 x 1-1/4 (H²) 2,220 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38041	A24-Q-V	1	2
38042	A36-O-V	1	2
38043	A46-M-V	1	2
38044	A60-M-V	1	2
<i>Green Silicon Carbide:</i>			
38528	GC60-I-V	1	2
38529	GC80-I-V	1	2

12 x 2 x 1-1/2 (H³) 2,220 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38046	A24-Q-V	1	3
38047	A36-O-V	1	3
38048	A46-M-V	1	3
38049	A60-M-V	1	3
38050	A80-M-V	1	3
<i>Green Silicon Carbide:</i>			
38531	GC60-I-V	1	3
38532	GC80-I-V	1	3
38533	GC100-I-V	1	3

14 x 2 x 1-1/2 (H³) 1,910 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
38051	A24-Q-V	1	3
38052	A36-O-V	1	3
38053	A46-M-V	1	3
38054	A60-M-V	1	3
38055	A80-M-V	1	3
<i>Green Silicon Carbide:</i>			
38534	GC60-I-V	1	3
38535	GC80-I-V	1	3

Porous Bench Grinding Wheels

- Engineered for medium and heavy stock removal and heat sensitive applications
- Strong, innovative bonds for tough applications
- Porous grinding wheels accelerate grinding processes
- Gullet grinding on circular saw blades
- **32A:** Built for flexibility in stock removal.
 - RA:** For medium to heavy stock removal & heat sensitive applications.
 - PA:** For light to medium stock removal & heat sensitive applications.

14 x 3 x 1-1/2 x 1-1/4 1,773 R.P.M.

UPC#	SIZE	CARTON	UNIT
<i>Brown Aluminum Oxide:</i>			
35107	A24/30-Q-V	1	3
35108	A46/54-M-V	1	3

16 x 2 x 1-1/2 1,550 R.P.M.

UPC#	SIZE	UNIT
<i>Brown Aluminum Oxide:</i>		
35109	A24-Q-V	1
35110	A36-M-V	1

18 x 3 x 1-1/2 1,485 R.P.M.

UPC#	SIZE	UNIT
<i>Brown Aluminum Oxide:</i>		
35112	A24-Q-V	1
35113	A36-O-V	1
35114	A54-M-V	1

Bench Wheel Bushings

UPC#	SPEC.	UNIT
51000	1/2" Wide (Thick) 1"-1/2"	1
51001	3/4" Wide (Thick) 1"-1/2"	1
51002	1" Wide (Thick) 1"-1/2"	1
51003	1/2" Wide (Thick) 1 1/4"-1"	1
51004	3/4" Wide (Thick) 1 1/4"-1"	1
51005	1" Wide (Thick) 1 1/4"-1"	1
51006	1/2" Wide (Thick) 1 1/2"-1 1/4"	1
51007	3/4" Wide (Thick) 1 1/2"-1 1/4"	1
51008	1" Wide (Thick) 1 1/2"-1 1/4"	1

H: 1-1/2" Hole, Installed Telescopic Bushings for 1-1/4" and 1" Arbors



10 x 1/2 x 1-1/4 2,483 R.P.M.

UPC#	GRAIN	SIZE	CARTON	UNIT
37796	32A	60-H12	1	5
59090	RA	60-H12	1	5
58071	PA	60-H12	1	5

Items in gray are being discontinued and then available as a special make item only.

TOOL & CUTTER WHEELS

Tool & Cutter Wheels

The standard shapes most commonly used in tool & cutter grinding are:

- T-6 - Straight Cup Wheel
- T-11 - Flaring Cup
- T-12 - Dish Wheels
- T-50 - Plate Mount Wheels



The shape of the wheel is determined by the shape, size, and accessibility of the part to be ground.









When grinding peripheral cutters, cup wheels are used. Dish wheels are best for formed cutters.

- WA - Used when a good cutting action is needed on all steels.
When a sharp corner or radius must be held, use fine grits combined with J or K hardness.
- GC - Used for non-ferrous metals such as cemented materials.
- PA - Used for high alloy steel applications such as sharpening HSS cutters, reamers and chisels.
- AS3 - Used for fast metal removal; excellent for grinding 50 Rockwell C and harder.

Master Selection Stock Sheet

WA: White Premium Aluminum Oxide
PA: Pink Aluminum Oxide

AS3: Ceramic Aluminum Oxide
GC: Green Silicon Carbide

SIZE	WA 46H	WA 46I	WA 46J	WA 46K	WA 60I	WA 60J	WA 60K	WA 80J	WA 80K	PA 46I	PA 46K	PA 60I	PA 60K	PA 80K	AS3 46I	AS3 60J	AS3 60K	GC 60I	GC 80I	GC 100I	GC 120I	
4 x 2 x 20mm  Deckel Cup T6	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/3 x 1 1/2 x 1 1/4  Flaring Cup T11	-	-	•	•	•	•	•	-	•	-	•	•	•	•	•	-	•	•	•	•	-	-
5/3 3/4 x 1 3/4 x 1 1/4  Flaring Cup T11	•	•	•	•	•	•	•	-	•	•	•	-	•	-	•	•	-	•	-	-	-	-
5 x 1 1/2 x 1 1/4  Straight Cup T6	-	-	•	•	-	•	•	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-
6 x 2 x 1 1/4  Straight Cup T6	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 x 1/2 x 1 1/4  Dish Wheel T12	-	-	-	•	-	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 x 3/4 x 1 1/4  Dish Wheel T12	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 x 1 x 4  Plate Mount Wheel T50	-	-	-	•	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	-

Tool Room Wheels

Almost all manufacturing plants have a tool room which is involved with the maintenance and repair of cutting tools, and the overall maintenance and repair of the plant itself.

Typical grinding operations done in the tool room are:

1. Surface Grinding
2. Tool & Cutter Grinding
3. Internal Grinding
4. Cutoff

With the exception of cutoff, most wheels are vitrified bond. These wheel come in various shapes and sizes. Operations are generally dry.

Common Troubleshooting Problems in Tool & Cutter Grinding

Problem	Things to Check	Suggested Correction
1. Corner breakdown of wheel	How wheel was dressed Wheel too coarse Wheel too soft Worn machine bearings	Slow down dressing cycle Use finer grit wheel Use harder grade wheel Check for run-out
2. Burning of workpiece	Check coolant flow Wheel too hard Work speed too slow Infeed too fast	Increase or direct coolant to point of contact Dress wheel faster or use softer wheel Increase work speed Reduce amount of stock removed per pass
3. Poor surface finish	Wheel too soft Wheel too coarse Machine vibration Dirty coolant	Slow down dressing cycle or use harder grade wheel Dress wheel finer or use finer grit wheel Check worn bearings Filter coolant more thoroughly
4. Wheel loading or glazing	Wheel too hard Wheel too fine Dirty coolant Poor wheel dressing	Test softer grade wheel Test coarser grit wheel Check coolant filter Dress more often and aggressively

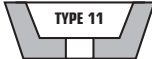
Starting Recommendations Alloys & High Speed Steel

Operation	Wheel Type	Recommendation
Broaches		
Sharpening	12	WA80K
Backing Off	6	WA60K
Reamers		
Cylindrical	1	WA60K
Backing Off	1 & 6	WA60J
Taps		
Sharpening	1	AZ60K
Squaring End		AZ60K
Touch Up Flute		AZ60J
Boring Tools	6	AZ60J
Drills – Sharpening		
Offhand – Under 1/4"	1	WA80J
Offhand – 1/4"-1"	1	WA60K
Offhand – Over 1"	1	WA46K
Drills – Machine Sharpening		
Under 1/4" Diameter	6	WA80J
1/4"-1" Diameter	6	WA60K
Over 1" Diameter	6	WA46K
Pointing	1	WA80K
Hobs		
Tool & Cutter	12	WA60J
Milling Cutters		
Face & Side Mill	1	AZ46K
End Mills	11	AZ60J
Formed Cutters	12	AZ60J
Shell End Mills (L)	6	AZ46J
Shell End Mills (S)	1	AZ60J
Side Mills (S)	1 & 6	AZ60J
Carbide Grinding		
Straight Wheels	1	GC80I
Cup Wheels	6 & 11	GC80I

TOOL & CUTTER WHEELS

4 x 2 x 20mm  6685 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34900	WA80-J-V	10	20

4/3 x 1-1/2 x 1-1/4  6685 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34903	WA46-J-V	10	20
34904	WA46-K-V	10	20
34906	WA60-I-V	10	20
34907	WA60-J-V	10	20
34908	WA60-K-V	10	20
34909	WA80-K-V	10	20

PINK ALUMINUM OXIDE:			
58054	PA46-K-V	10	20
58055	PA60-I-V	10	20
58056	PA60-K-V	10	20
58057	PA80-K-V	10	20

CERAMIC ALUMINUM OXIDE:			
34200	AS3-46-I-VCER	10	20
34201	AS3-60-K-VCER	10	20

5/3-3/4 x 1-3/4 x 1-1/4  5348 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34914	WA46-H-V	10	20
34915	WA46-I-V	10	20
34916	WA46-J-V	10	20
34917	WA46-K-V	10	20
34919	WA60-I-V	10	20
34920	WA60-J-V	10	20
34921	WA60-K-V	10	20
34923	WA80-K-V	10	20

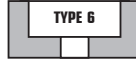
PINK ALUMINUM OXIDE:			
58058	PA46-I-V	10	20
58059	PA46-K-V	10	20
58060	PA60-K-V	10	20

CERAMIC ALUMINUM OXIDE:			
34203	AS3-46-I-VCER	10	20
34204	AS3-60-J-VCER	10	20

GREEN SILICON CARBIDE:			
34924	GC60-I-V	10	20

5 x 1-1/2 x 1-1/4  5348 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34929	WA46-J-V	10	20
34930	WA46-K-V	10	20
34933	WA60-J-V	10	20
34934	WA60-K-V	10	20
34936	WA80-K-V	10	20

6 x 2 x 1-1/4  6685 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34941	WA60-K-V	10	20

6 x 1/2 x 1-1/4  4456 RPM

UPC#	SPEC.	CARTON	UNIT
34942	WA46-K-V	10	20
34943	WA60-J-V	10	20
34944	WA60-K-V	10	20

6 x 3/4 x 1-1/4  4456 RPM

UPC#	SPEC.	CARTON	UNIT
34947	WA60-K-V	10	20

6 x 1 x 4  3450 RPM

UPC#	SPEC.	CARTON	UNIT
WHITE ALUMINUM OXIDE:			
34948	WA46-K-V	10	20
GREEN SILICON CARBIDE:			
34949	GC60-I-V	10	20
34950	GC80-I-V	10	20
34951	GC100-I-V	10	20
34952	GC120-I-V	10	20

WA: White Premium Aluminum Oxide
GC: Green Silicon Carbide

PA: Pink Aluminum Oxide
AS3: Ceramic Aluminum Oxide Grain

MOUNTED POINTS

Mounted Points Premium Pink Aluminum Oxide



- Used in almost every industry but primarily in tool and die shops, and foundries. General applications: Deburring, tool sharpening, finishing cavities, and removes mold marks and parting lines.
- Mounted points are classified by shape groups A, B, and W.
- The semi-friable pink PA abrasive is used to produce sharp, consistent cutting action.

A-Shape Mounted Points R.P.M.*

UPC#	SIZE	DIMENSION	SHANK	CARTON	UNIT
35951	A-1	7/8 x 2-1/2	1/4 Shank	10	20
35953	A-3	7/8 x 2-3/4	1/4 Shank	10	20
35954	A-4	1-1/4 x 1-1/4	1/4 Shank	10	20
35955	A-5	3/4 x 1-1/8	1/4 Shank	10	20
35957	A-11	7/8 x 2	1/4 Shank	10	20
35975	A-38	1 x 1	1/4 Shank	10	20

B-Shape Mounted Points R.P.M.*

UPC#	SIZE	DIMENSION	SHANK	CARTON	UNIT
35980	B-44	7/32 x 3/8	1/8 Shank	10	20
35985	B-52	3/8 x 3/4	1/8 Shank	10	20
36009	B-132	3/8 x 1/2	1/8 Shank	10	20

W-Shape Mounted Points

R.P.M.*

UPC#	SIZE	DIMENSION	SHANK	CARTON	UNIT
36042	W-189	1/2 x 2	1/4 Shank	10	20
36058	W-220	1 x 1	1/4 Shank	10	20
36060	W-222	1 x 2	1/4 Shank	10	20
36067	W-236	1-1/2 x 1/2	1/4 Shank	10	20

* No matter what factors of wheel size, shape, specification, mandrel size, overhang, or machine conditions are changed, the speed of 10,000 SFPM shall not be exceeded.

Dressing Wheels, Sticks & Honers

- Combination Stone: Designed to clean magnetic chucks.
- Dressing Wheels: Break control devices used for dressing/opening diamond wheels.
- Dressing Sticks: Dressing and opening vitrified bonded wheels.
- Silicon Carbide



Dressing Wheels

10,823 R.P.M.

UPC#	SIZE	SPEC.	CARTON	UNIT
35905	3 x 1/2 x 1/2	72C-80-L-V	50	100
35906	3 x 1 x 1/2	72C-60-L-V	20	40
35907	3 x 1 x 1/2	72C80-J-XV	20	40
35908	3 x 1 x 1/2	72C-80-L-V	20	40

Round - Combination Stone

UPC#	SIZE	SPEC.	CARTON	UNIT
35902	4 x 1/2	C150/320-MN7	20	40

Dressing Sticks

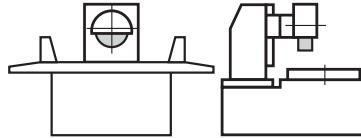
UPC#	SIZE	SPEC.	CARTON	UNIT
35909	1 x 1 x 6	C24-S-V	50	100

PRECISION TOOL ROOM CUT-OFF

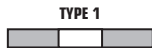
Precision Tool Room Cut-Off Wheels (Non-Reinforced)

Wheels rated 63 m/s

- Used on stationary grinders (Bench or Surface Grinders).
- These wheels must only be used where the work is held tightly and the wheel operates on a controlled cutting surface with no movement.
- Applications that require twisting or lateral stresses must use a reinforced wheel.



7" Cut-Off Wheels



6700 RPM

UPC#	SIZE	SPEC.	CARTON	UNIT
35529	7 x 1/32 x 1-1/4	A60-M8-B2	25	50
35530	7 x 1/16 x 1/2	A60-M8-B2	25	50
35532	7 x 1/16 x 1-1/4	A60-M8-B2	*WSL	
35534	7 x 3/32 x 5/8	A60-M8-B2	*WSL	
35537	7 x 1/8 x 5/8	A60-M8-B2	*WSL	
35539	7 x 1/8 x 1-1/4	A60-M8-B2	25	50

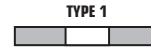
8" Cut-Off Wheels



6050 RPM

UPC#	SIZE	SPEC.	CARTON	UNIT
35544	8 x 1/16 x 5/8	A60-M8-B2	*WSL	
35545	8 x 1/32 x 1-1/4	A60-M8-B2	25	50
35547	8 x 3/32 x 5/8	A60-M8-B2	*WSL	
35548	8 x 1/8 x 1/2	A60-M8-B2	*WSL	
35550	8 x 1/8 x 1-1/4	A60-M8-B2	25	50

10" Cut-Off Wheels



4850 RPM

UPC#	SIZE	SPEC.	CARTON	UNIT
35551	10 x 1/16 x 5/8	A60-M8-B2	25	50
35554	10 x 3/32 x 1-1/4	A60-M8-B2	*WSL	

Items in gray are being discontinued and then available as a special make item only.

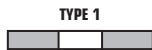
Precision Tool Room Cut-Off Wheels (Precision Reinforced)

Wheels rated 80 m/s

- Used on stationary grinders (Bench or Surface Grinders).
- These wheels are designed and manufactured to tight tolerances, the fiberglass reinforcement adds extra strength.
- The characteristics of these wheels are the same as the non-reinforced wheels and should not be used unless the work piece is fixed or rotates into the wheel.



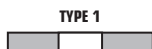
6" Cut-Off Wheels



10,200 RPM

UPC#	SIZE	SPEC.	CARTON	UNIT
35559	6 x .06 x 5/8	A60-O/P-BF	25	50

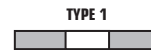
7" Cut-Off Wheels



8500 RPM

UPC#	SIZE	SPEC.	CARTON	UNIT
35563	7 x .04 x 11/4	A60-O/P-BF	25	50
35566	7 x .06 x 11/4	A60-O/P-BF	*WSL	

8" Cut-Off Wheels



7650 RPM

UPC#	SIZE	SPEC.	CARTON	UNIT
35567	8 x .04 x 1/2	A60-O/P-BF	*WSL	
35569	8 x .04 x 1-1/4	A60-O/P-BF	25	50
35571	8 x .06 x 5/8	A60-O/P-BF	25	50
35572	8 x .06 x 1-1/4	A60-O/P-BF	25	50

Items in gray are being discontinued and then available as a special make item only.

POINT-OF-PURCHASE DISPLAY

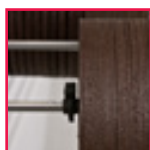
FLEXIBLE • MIX & MATCH TO YOUR NEEDS

Whether you have space for two, four (as shown on front), or six display row racks, the new CGW point-of-purchase display will fit your requirements. The modular display racks can be placed on pegboard or slat wall and side-by-side or in a row - You Decide What's the Best Option for Your Showroom.

Display Row Rack (#99100)



Sturdy metal construction with four hooks, eye catching channel signage (#99101), rubber inventory clips and handy re-order tags.



Inventory Clip
#99104



Re-Order Tag
#99000

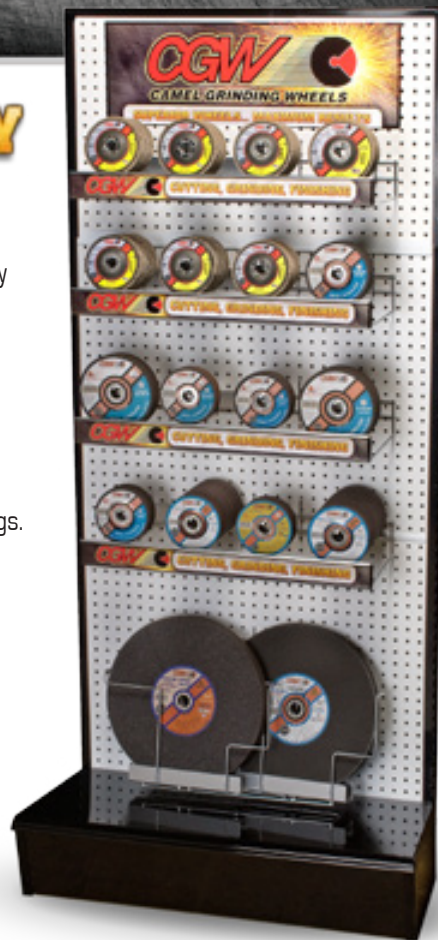
4-Color Display Signage



Main header (#99103) is 8" (H) x 24" (W); double-sided tape at top for simple attachment.



Display row rack channel sign (#99101) is 2" (H) x 24" (W); one double-sided tape strip for permanent attachment.



Pegboard display NOT included.

Tips

- Flexible. You select the CGW items to display.
- Peg hooks are uniformly spaced 5-1/2" between each hook. Spacing allows for a variety of product mixes on one row including 7" wheels/discs. (Note: 7" products must be hung next to 4-1/2" or smaller products. Larger products will overlap.)
- Racks may be placed side-by-side or in a row.

Carbide Bur Kit

- 8-Piece kit has the most popular double cut carbide burs for faster cutting action, minimal loading and improved operator control
- 8-Piece kit includes:
SA-5D (#62328), SC-5D (#62386), SD-5D (#62410), SE-5D (#62477), SG-5D (#62468), SH-5D (#62480), SL-5D (#62511), SM-5D (#62526)



CARBIDE BUR KIT	UPC #
8 piece set	62700

MATTISON-THOMPSON WHEELS

Mattison-Thompson Type

18"-20" Diameter Surface Grinding Wheels



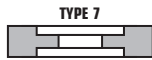
For horizontal spindle, rotary and reciprocating tables use wheels T-1, T-5, and T-7.

- New** ■ **91AB** – Advanced grain technology used in combination with WA for general and various materials. This grain can be used to grind steels in either soft or hard state.
- **83A** – The high friability of this grain allows for fast, cool cutting of all steels. Induced porosity wheels are ideal for steels Rockwell C 55 and over.
- **PA** – Excellent for grinding pre-hardened carbon steels.
- **AZ** – Recommended for hard steels and stainless steels.
- **72C** – Use for grinding non-ferrous materials, plastics, cast and gray iron.
- **AS3** – Ceramic Aluminum Oxide – Recommended for tool steels, sprayed metal coatings and high-temp alloys.

Master Selection Stock Sheet

- New** ■ **91AB** – Semi-Friable Mixed Premium Aluminum Oxide
- **83A** – White Aluminum Oxide
- **72C** – Black Silicon Carbide
- **PA** – Pink Aluminum Oxide
- **AZ** – Premium Blue Aluminum Oxide
- **AS3** – Advanced Ceramic Grain

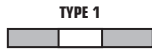
18 x 2 x 8
R/2/S - 11-1/2 x 1/2



1460 RPM

UPC#	SPEC.	CARTON	UNIT
34003	91AB46-I8-VN18	-	2
34004	83A46-H-V18	-	2

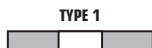
20 x 1 x 8



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34006	83A46-H8-VD18	-	3
34007	83A60-J8-VD18	-	3

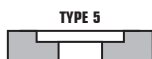
20 x 1 x 10



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34009	83A36-J8-V18	-	3

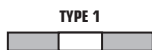
20 x 1-1/2 x 8
R/1/S - 11-1/2 x 1/2



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34014	83A46-H8-VD18	-	2
34015	83A60-J8-VD18	-	2

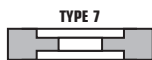
20 x 1-1/2 x 10



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34018	83A46-H8-V18	-	2

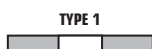
20 x 2 x 8
R/2/S - 11-1/2 x 1/2



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34021	91AB46-I8-VN18	-	2
34022	83A46-H8-VD18	-	2
34023	83A60-J8-VD18	-	2
34026	72C46-I8-V18	-	2
OPEN STRUCTURE:			
34024	83A36-J/K-VD18P	-	2
34025	83A46-G+-VD18P	-	2

20 x 2 x 10



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34027	83A36-J8-VD18	-	2
34028	83A46-H8-VD18	-	2
34029	83A60-J8-VD18	-	2
OPEN STRUCTURE:			
34030	83A46-G+-VD18P	-	2

91AB: Semi-Friable Mixed Premium Aluminum Oxide
83A: White Aluminum Oxide
72C: Black Silicon Carbide

20 x 3 x 8
R/2/S - 11-1/2 x 1/2



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34032	91AB46-I8-VN18	-	2
34033	83A46-H8-VD18	-	2
34048	83A60-J8-VD18	-	2
34034	AZ46-I8-VN32A	-	2

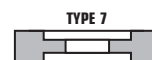
OPEN STRUCTURE:

34035	83A36-J/K-VD18P	-	2
34036	83A46-D-VD18P	-	2
34037	83A46-G+-VD18P	-	2

SILICON CARBIDE:

34038	72C46-I8-VX	-	2
--------------	-------------	---	---

20 x 3 x 10
R/2/S - 12-1/2 x 5/8
O/S - 12-1/2 x 1



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34039	91AB46-I8-VN18	-	2
34040	83A46-H8-VD18	-	2
34041	83A60-J8-VD18	-	2
34043	AZ46-I8-VN32A	-	2

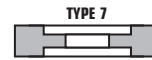
OPEN STRUCTURE:

34044	83A36-J/K-VD18P	-	2
34045	83A46-D-VD18P	-	2
34046	83A46-G+-VD18P	-	2
34047	PA36/46-I/J-VN18P	-	2
34245	AS3-46H-VCERN	-	2

SILICON CARBIDE:

34049	72C46-I8-VX	-	2
--------------	-------------	---	---

20 x 4 x 8
R/2/S - 11-1/2 x 1/2



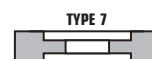
1241 RPM

UPC#	SPEC.	CARTON	UNIT
34051	83A46-H8-VD18	-	1

OPEN STRUCTURE:

34052	83A36-J/K-VD18P	-	1
34053	83A46-G+-VD18P	-	1

20 x 4 x 10
R/2/S - 12-1/2 x 7/8
O/S - 12-1/2 x 11/4



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34055	91AB46-I8-VN18	-	1
34057	83A46-H8-VD18	-	1

OPEN STRUCTURE:

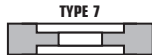
34059	83A46-D-VD18P	-	1
34060	83A46-G+-VD18P	-	1
34061	83A36-J/K-VD18P	-	1

PA: Pink Aluminum Oxide
AZ: Premium Blue Aluminum Oxide
AS3: Advanced Ceramic Grain

MATTISON-THOMPSON WHEELS

20 x 6 x 10

R/2/S - 12-1/2 x 1
O/S - 12-1/2 x 2



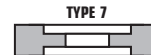
1241 RPM

UPC#	SPEC.	CARTON	UNIT
34063	91AB46-I8-VN18	-	1
34064	83A46-H8-VD18	-	1
34065	83A46-I8-VD18	-	1
34067	AS3-46H-VCERN	-	1
OPEN STRUCTURE:			
34069	83A36-J/K-VD18P	-	1
34070	83A46-B-VN18P	-	1
34071	83A46-D-VD18P	-	1
34072	83A46-G+-VD18P	-	1
34073	83A54-F-VD18P	-	1
34074	AZ46-C12-VN32AP	-	1
34075	PA36/46-I/J-VN18P	-	1
SILICON CARBIDE:			
34076	72C46-I8-VX	-	1

Items in gray are being discontinued and then available as a special make item only.

20 x 6 x 12

R/2/S - 14-1/4 x 1

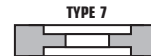


1241 RPM

UPC#	SPEC.	CARTON	UNIT
34077	91AB46-I8-VN18	-	1
34078	83A46-H8-VD18	-	1
OPEN STRUCTURE:			
34079	83A36-J/K-VD18P	-	1
34080	83A46-G+-VD18P	-	1
34081	83A54-F-VD18P	-	1

20 x 8 x 12

R/2/S - 14-1/4 x 1



1241 RPM

UPC#	SPEC.	CARTON	UNIT
34084	83A46-H8-VD18	-	1

91AB: Semi-Friable Mixed Premium Aluminum Oxide
83A: White Aluminum Oxide
72C: Black Silicon Carbide

PA: Pink Aluminum Oxide
AZ: Premium Blue Aluminum Oxide
AS3: Advanced Ceramic Grain

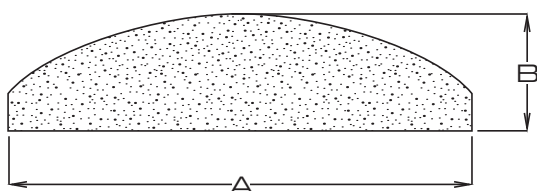
Segments

Courtland, Norton, and Blanchard Shapes

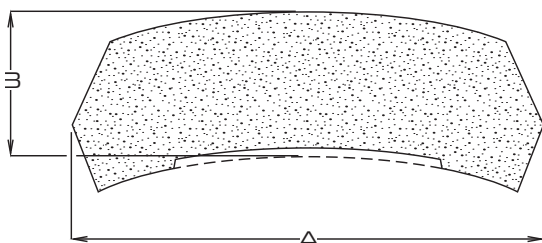
For horizontal spindle, rotary and reciprocating tables use wheels T-1, T-5, and T-7.

- 29A/DA - Semi-friable mixed premium aluminum oxide - general purpose work.
- 83A/WA - Friable white aluminum oxide - fast stock removal.
- AZP - Premium blue aluminum oxide with bond designed for HSS for cool cutting.

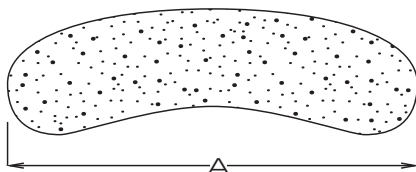
Cortland Segment Shape CD



Norton Segment Shape NO



Blanchard Shape Segments



SEGMENTS

UPC#	SPEC.	CARTON	UNIT
11-1/4 x 2-1/4 x 6 – Cortland Shape			
34094	CD22-6 83A30-E12-V	5	10
34096	CD22-6 83A30-G12-V	5	10
7-1/4 x 1-7/8 x 7 – Cortland Shape			
34101	CD30 83A30-D12-V2	10	20
34103	CD30 83A30-G12-V2	10	20
5 x 1-1/2 x 6 – NORTON Shape			
34107	NO22 AZP30-F12-VPB	10	20
34108	NO22 AZP30-H12-VPB	10	20
7-1/16 x 1-3/4 x 6 – Blanchard Shape			
34113	BL18 83A30-J12-V	6	12

CENTERLESS, CYLINDRICAL

Centerless, Cylindrical & Feed Regulating Wheels

Each Cylindrical, Centerless CGW wheel is manufactured with varying hardness to assure consistent grindability throughout. This feature compensates for the diameter and speed changes as the wheel is used.



- **94AB** – Advanced grain technology used in Cylindrical and Centerless grinding wheels. This grain can be used to grind steels in either soft or hard state.
- **WAG** – Highly friable grain with special bond characteristics for fast, cool cutting action and extended life over traditional aluminum oxide wheels.
- **PASP** – Special pink formulation for precision grind applications. Tough, but very friable. Produced with new high performance VD ceramic bond for cooler cutting and longer life.
- **GC** – Green Silicon Carbide – Quickly grinds non-ferrous metals and sharpens tungsten carbide tools. Used on titanium and cemented carbide.
- **72C** – Black Silicon Carbide – for non-ferrous metals.

All CGW Feed Regulating wheels are manufactured with an isostatic process assuring perfect gripping and elimination of hard spots and voids, a common problem with rubberized wheels.

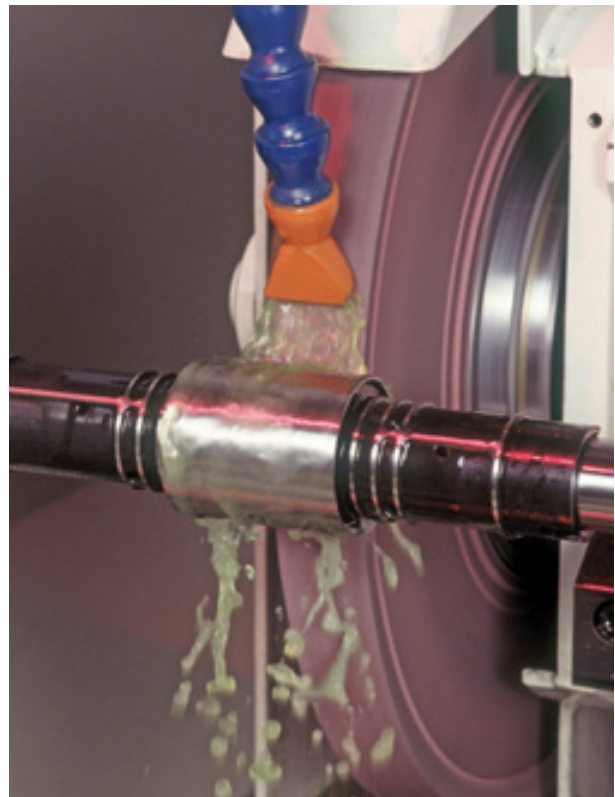
- A80-R2-RX – Natural Rubber
- A80-R2-CDR – Calendered Rubber

Different Types of Grinding

Cylindrical Grinding – The precision grinding of the outer surface of any round workpiece. The workpiece is held between centers or in chucks.

Traverse Grinding – The grinding operation where the work traverses past the wheel.

Plunge Grinding – Uses a stationary work table and the wheel "plunges" into the workpiece.

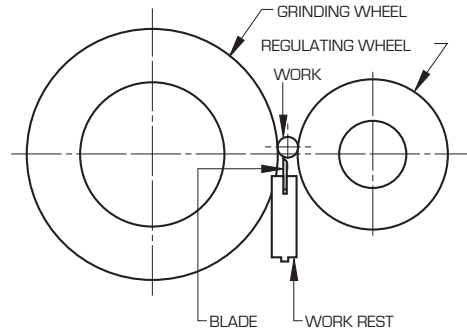


& FEED REGULATING WHEELS

Centerless Grinding

The workpiece lies between two wheels; the grinding wheel and the feed regulating wheel. Feed wheel diameter is always proportionally smaller than the grinding wheel it is matched with (see chart below);

Grinding Wheel Diameter	Feed Wheel Diameter
14"	8"
16"	9"
20"	12"
24"	14"



Width of grinding wheel and feed wheel must be the same.

Grinding Wheel	Feed Wheel
20 x 6 x 12	12 x 6 x 5

Three Basic Types of Centerless Grinding

Grinding wheels for centerless grinding range in size from 12" to 24" in diameter, and up to 34" in thickness. They are made with the same vitrified bonds as those used in cylindrical wheels.

Through Feed – Most commonly used centerless grinding where straight cylindrical parts are passed from the entrance on the machine, through, and out the exit side.

In-Feed (Plunge) – Used on part with a shape that does not allow axial movement. Frequently, several diameters are ground at once by using a specially formed wheel face, or by mounting two or more wheels on the same spindle.

End-Feed – For producing or finishing a taper in the workpiece. The parts are fed in the entrance side of the machine up to a fixed end point.

Benefits of Cast Natural Rubber Feed Wheels

This wheel gives the best drive or braking action while resisting spin out of parts. This grade is satisfactory for the majority of applications. For harder grades, see Calendered Wheels.

Benefits of Calendered Rubber Feed Wheels

Calendered wheels are best used on thinner feed regulating wheels or when the cast natural rubber wheel deflects under pressure. The calendered wheel is preferred when close tolerances are required or there is excessive wheel wear on the standard feed wheel.

Typical Centerless Grinding Machines

	Cincinnati Model 2	Cincinnati Model 3	Cincinnati Model 3-20 Twingrip	Landis Model 12R	Royal Master Model TG12	Van Norman Model 1C	Van Norman Model 2C
GRINDING WHEEL							
Shape	T-1	T-1	T-1	T-1	T-1	T-7	T-7
Diameter	20	24	24	20	12	14	24
Width Range	3-8	4-12	–	4-8	–	≤4	4-8
Standard Width	6	8	20	6	3	4	4
Hole Size	12	12	12	12	5	8	12
REGULATING WHEEL							
Shape	T-7	T-7	T-7 / T-7	T-7	T-1	T-7	T-7
Diameter	12	14	14 / 14	12	6	8	12
Width Range	3-8	4-12	– / –	4-8	–	≤4	4-8
Standard Width	6	8	20 / 20	6	3	4	6
Hole Size	5	5	5 / 6	5	1	3	5

CENTERLESS, CYLINDRICAL

TYPE 1

12 x 4 x 5 **2228 RPM**

UPC#	SPEC.	CARTON	UNIT
35200	94AB60-L-V18	-	1

TYPE 1

14 x 1 x 5 **1910 RPM**

UPC#	SPEC.	CARTON	UNIT
35201	94AB54-K-V18	2	6
35202	94AB60-L-V18	2	6
35203	94AB80-M-V18	2	6

TYPE 1

14 x 1-1/4 x 5 **1910 RPM**

UPC#	SPEC.	CARTON	UNIT
35204	94AB54-K-V18	2	4
35205	94AB60-L-V18	2	4

TYPE 5

14 x 1-1/2 x 5 **1910 RPM**
R/1 - 8 x 1/2

UPC#	SPEC.	CARTON	UNIT
35207	94AB54-K-V18	2	4
35208	94AB60-L-V18	2	4
35209	94AB80-M-V18	2	4

TYPE 5

14 x 2 x 5 **1910 RPM**
R/1 - 8 x 1

UPC#	SPEC.	CARTON	UNIT
35210	94AB54-K-V18	1	3
35211	94AB60-L-V18	1	3
35212	94AB80-M-V18	1	3

TYPE 1

14 x 2 x 5 **1910 RPM**

UPC#	SPEC.	CARTON	UNIT
37801	GC-80K7-V	1	2

TYPE 1

16 x 1 x 5 **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
37802	PASP-60K8-VD	1	2
37803	GC-80K7-V	1	2
35213	94AB60-L-V18	1	2
35214	94AB80-M-V18	1	2

TYPE 1

16 x 1 x 8 **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
37804	PASP-60K8-VD	1	2
35215	94AB54-K-V18	1	2
35216	94AB60-L-V18	1	2
35217	94AB80-M-V18	1	2

TYPE 1

16 x 1-1/2 x 5 **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
37805	PASP-60K8-VD	1	2
37806	GC-80K7-V	1	2
35218	94AB60-L-V18	1	2
35219	94AB80-M-V18	1	2

TYPE 1

16 x 1-1/2 x 8 **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
37807	PASP-60K8-VD	1	2
35221	94AB54-K-V18	1	2
35222	94AB60-L-V18	1	2
35223	94AB80-M-V18	1	2

TYPE 1

16 x 2 x 5 **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
37808	WAG-80H8-VD	1	2
37809	PASP-60K8-VD	1	2
37810	GC-80K7-V	1	2
35224	94AB60-L5-V18	1	2
35225	94AB80-M6-V18	1	2
34495	AZ46-I8-V32A	1	2
34496	AZ46-J8-V32A	1	2
34497	AZ60-K8-V32A	1	2

TYPE 1

16 x 2 x 8 **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
35229	94AB54-K5-V18	1	2
35230	94AB60-L5-V18	1	2
35231	94AB80-M6-V18	1	2

TYPE 1

16 x 2-1/2 x 5 **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
37811	WAG-80H8-VD	1	2
37812	PASP-60K8-VD	1	2

TYPE 1

16 x 3 x 5 **1671 RPM**

UPC#	SPEC.	CARTON	UNIT
37813	WAG-80H8-VD	1	2
37814	PASP-60K8-VD	1	2

TYPE 1

16 x 4 x 10 **1671 RPM**

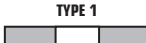
UPC#	SPEC.	CARTON	UNIT
35232	94AB60-L-V18	-	1
35233	94AB80-L-V18	-	1

94AB: Semi-Friable Aluminum Oxide
 72C: Black Silicon Carbide
 GC: Green Silicon Carbide
 PASP: Pink Aluminum Oxide

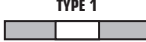
WAG: Engineered Aluminum Oxide
 A80-R2-RX: Natural Rubber
 A80-R2-CDR: Calendered Rubber

& FEED REGULATING WHEELS

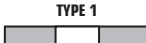
CENTERLESS, CYLINDRICAL & FEED REGULATING WHEELS

20 x 1 x 8  **1623 RPM**

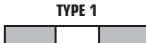
UPC#	SPEC.	CARTON	UNIT
37815	GC-80K7-V	-	1

20 x 2 x 8  **1623 RPM**

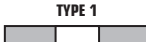
UPC#	SPEC.	CARTON	UNIT
37816	PASP-60K8-VD	-	1

20 x 3 x 8  **1623 RPM**

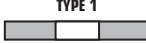
UPC#	SPEC.	CARTON	UNIT
37817	WAG-80H8-VD	-	1
37818	PASP-60K8-VD	-	1

20 x 1 x 12  **1623 RPM**

UPC#	SPEC.	CARTON	UNIT
37819	GC-80K7-V	-	3
35234	94AB60-K-V18	-	3
35235	94A60-L-V18	-	3
35236	94AB60-M-V18	-	3
35237	94AB80-O-V18	-	3
35238	94AB80-P-V18	-	3

12 x 1 x 5  **800 RPM**
Matching Feed Regulating Wheel

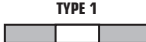
35239	A80-R2-RX	-	1
35240	A80-R2-CDR	-	1

20 x 2 x 12  **1623 RPM**

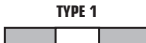
UPC#	SPEC.	CARTON	UNIT
37820	PASP-60K8-VD	-	2
37821	GC-80K7-V	-	2
35241	94AB60-K-V18	-	2
35242	94AB60-L-V18	-	2
35243	94AB60-M-V18	-	2
35244	94AB80-M-V18	-	2
35245	94AB80-O-V18	-	2
35246	94AB80-P-V18	-	2

HARD SIDE 3/16:

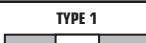
35247	94AB80N/120S-V18	-	2
--------------	------------------	---	---

12 x 2 x 5  **800 RPM**
Matching Feed Regulating Wheel

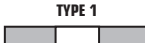
35248	A80-R2-RX	-	1
35249	A80-R2-CDR	-	1

20 x 2-1/2 x 12  **1623 RPM**

UPC#	SPEC.	CARTON	UNIT
HARD SIDE 3/16:			
35251	94AB80N/120S-V18	-	2

12 x 2-1/2 x 5  **800 RPM**
Matching Feed Regulating Wheel

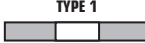
35384	A80-R2-RX	-	1
--------------	-----------	---	---

20 x 3 x 12  **1623 RPM**

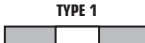
UPC#	SPEC.	CARTON	UNIT
37822	WAG-80H8-VD	-	2
35254	94AB60-K-V18	-	2
35255	94AB60-L-V18	-	2

HARD SIDE 3/16:

35260	94A80N/120S-V18	-	2
--------------	-----------------	---	---

12 x 3 x 5  **800 RPM**
Matching Feed Regulating Wheel

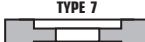
35261	A80-R2-RX	-	1
--------------	-----------	---	---

20 x 4 x 12  **1623 RPM**

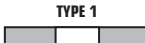
UPC#	SPEC.	CARTON	UNIT
37823	WAG-80H8-VD	-	1
35266	94AB60-K-V18	-	1
35267	94AB60-L-V18	-	1
35268	94A60-M-V18	-	1
35270	94AB80-M-V18	-	1
35272	94AB80-P-V18	-	1

HARD SIDE 3/16:

35273	94A80N/120S-V18	-	1
--------------	-----------------	---	---

12 x 4 x 5  **800 RPM**
R/2 - 7-1/2 x 1-1/2 Matching Feed Regulating Wheel

35274	A80-R2-RX	-	1
--------------	-----------	---	---

20 x 6 x 12  **1623 RPM**

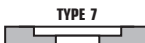
UPC#	SPEC.	CARTON	UNIT
35277	94AB60-J-V18	-	1
35278	94AB60-K-V18	-	1
35279	94AB60-L-V18	-	1
35280	94AB60-M-V18	-	1
35281	94AB80-J-V18	-	1
35282	94AB80-L-V18	-	1
35283	94AB80-M-V18	-	1
35284	94AB80-O-V18	-	1
35285	94A80-P-V18	-	1

HARD SIDE 3/16:

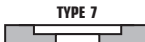
35286	94AB80N/120S-V18	-	1
--------------	------------------	---	---

SILICON CARBIDE:

35287	72C60-L-VX	-	1
--------------	------------	---	---

12 x 6 x 5  **800 RPM**
R/2 - 7-1/2 x 1-1/2 Matching Feed Regulating Wheel

35288	A80-R2-RX	-	1
35289	A80-R2-CDR	-	1

12 x 6 x 5  **800 RPM**
R/2 - 7-1/2 x 1/2, O/S - 7-1/2 x 1-1/2 Matching Feed Regulating Wheel

35290	A80-R2-RX	-	1
35291	A80-R2-CDR	-	1

Items in gray are being discontinued and then available as a special make item only.

CENTERLESS, CYLINDRICAL

20 x 8 x 12  **1623 RPM**

UPC#	SPEC.	CARTON	UNIT
35292	94AB54-J-V18	-	1
35293	94AB60-K-V18	-	1
35294	94AB60-L-V18	-	1
35295	94AB60-M-V18	-	1
35296	94AB80-J-V18	-	1
35297	94AB80-L-V18	-	1
35298	94AB80-M-V18	-	1
35299	94AB80-O-V18	-	1

HARD SIDE 3/16:

35300	94AB80N/120S-V18	-	1
-------	------------------	---	---

SILICON CARBIDE:

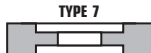
35301	72C60-L-VX	-	1
-------	------------	---	---

12 x 8 x 5  **800 RPM**
R/1 - 7-1/2 x 1-1/2 Matching Feed Regulating Wheel

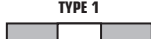
35302	A80-R2-RX	-	1
-------	-----------	---	---

12 x 8 x 5  **800 RPM**
R/2 - 7-1/2 x 1-1/2 Matching Feed Regulating Wheel

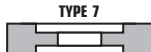
35390	A80-R2-RX	-	1
-------	-----------	---	---

12 x 8 x 5  **800 RPM**
R/2 - 7-1/2 x 1-1/2, O/S - 7-1/2 x 2-1/2 Matching Feed Regulating Wheel

35303	A80-R2-RX	-	1
35304	A80-R2-CDR	-	1

20 x 10 x 12  **1623 RPM**

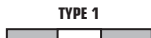
UPC#	SPEC.	CARTON	UNIT
35306	94AB60-L-V18	-	1

12 x 10 x 5  **800 RPM**
R/2 - 8 x 1-1/2, O/S - 8 x 2 Matching Feed Regulating Wheel

35308	A80-R2-RX	-	1
-------	-----------	---	---

24 x 1 x 8  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
37824	PASP-60K8-VD	-	2
37825	GC-80K7-V	-	2

24 x 1 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
37829	PASP-60K8-VD	-	2
37830	GC-80K7-V	-	2

24 x 1-1/2 x 12  **1623 RPM**

UPC#	SPEC.	CARTON	UNIT
35309	94AB60-K6	-	2

24 x 2 x 8  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
37826	PASP-60K8-VD	-	2
37827	GC-80K7-V	-	2

24 x 3 x 8  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
37828	WAG-80H8-VD	-	2

24 x 2 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
37831	PASP-60K8-VD	-	2
37832	GC-80K7-V	-	2
35314	94AB60-K-V18	-	2
35315	94AB60-L-V18	-	2
35316	94AB60-M-V18	-	2
35318	94AB80-O-V18	-	2

HARD SIDE 3/16:


35319	94AB80N/120S-V18	-	2
-------	------------------	---	---

24 x 2-1/2 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
SEMI-FRIABLE ALUMINUM OXIDE - HARD SIDE 3/16:			
35321	94AB80N/120S-V18	-	2

24 x 3 x 12  **1353 RPM**

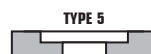
UPC#	SPEC.	CARTON	UNIT
37833	WAG-80H8-VD	-	2

24 x 3 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
35324	94AB60-K-V18	-	1

HARD SIDE 3/16:

35327	94AB80N/120S-V18	-	1
-------	------------------	---	---

24 x 3 x 12  **1353 RPM**
R/1 - 14-1/2 x 1

UPC#	SPEC.	CARTON	UNIT
35329	94AB60-K-V18	-	1

24 x 4 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
35333	94AB60-K-V18	-	1
35334	94AB60-L-V18	-	1
35337	94AB80-M-V18	-	1

HARD SIDE 3/16:

35339	94AB80N/120S-V18	-	1
-------	------------------	---	---

94AB: Semi-Friable Aluminum Oxide
72C: Black Silicon Carbide
GC: Green Silicon Carbide
PASP: Pink Aluminum Oxide

WAG: Engineered Aluminum Oxide
A80-R2-RX: Natural Rubber
A80-R2-CDR: Calendered Rubber

& FEED REGULATING WHEELS

CENTERLESS, CYLINDRICAL & FEED REGULATING WHEELS

24 x 6 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
35342	94AB60-K-V18	–	1
35343	94AB60-L-V18	–	1
35345	94AB80-J-V18	–	1
35347	94AB80-M-V18	–	1
35348	94A80-O-V18	–	1

HARD SIDE 3/16:

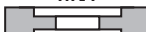
35349	94AB80N/120S-V18	–	1
--------------	------------------	---	---

24 x 8 x 12  **1353 RPM**

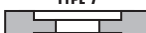
UPC#	SPEC.	CARTON	UNIT
35352	94AB60-K5-V18	–	1
35353	94AB60-L5-V18	–	1
35354	94AB60-M6-V18	–	1
35355	94AB80-J5-V18	–	1
35356	94AB80-L5-V18	–	1

SILICON CARBIDE:

35360	72C60-L6-VX	–	1
--------------	-------------	---	---

14 x 8 x 5  **650 RPM**
R/2 – 8 x 1-1/2, O/S – 8 x 2 Matching Feed Regulating Wheel

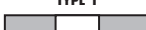
35361	A80-R2-RX	–	1
--------------	-----------	---	---

14 x 8 x 5  **650 RPM**
R/2 – 8 x 1-1/2, O/S – 8 x 2-1/2 Matching Feed Regulating Wheel

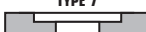
35362	A80-R2-RX	–	1
--------------	-----------	---	---

24 x 10 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
35363	94AB60-K5-V18	–	1
35364	94AB60-L5-V18	–	1
35365	94AB60-M6-V18	–	1

24 x 20 x 12  **1353 RPM**

UPC#	SPEC.	CARTON	UNIT
35368	94AB60-K5-V18	–	1
35369	94A60-L5-V18	–	1
35370	94AB60-M6-V18	–	1

14 x 20 x 5  **650 RPM**
R/2 – 8 x 1-1/2 Matching Feed Regulating Wheel

35371	A80-R2-RX	–	1
--------------	-----------	---	---

14 x 20 x 6  **650 RPM**
R/2 – 8-1/2 x 1-1/2 Matching Feed Regulating Wheel

35372	A80-R2-RX	–	1
--------------	-----------	---	---

Items in gray are being discontinued and then available as a special make item only.

94AB: Semi-Friable Aluminum Oxide
72C: Black Silicon Carbide
GC: Green Silicon Carbide
PASP: Pink Aluminum Oxide

WAG: Engineered Aluminum Oxide
A80-R2-RX: Natural Rubber
A80-R2-COR: Calendered Rubber

FEED REGULATING WHEELS

FEED REGULATING WHEEL MASTER

Natural Rubber

UPC#	SIZE	SHAPE	RPM	SPEC.	CARTON	UNIT
35373	8 x 2 x 3	T1	1000	A80-R2-RX	-	2
35374	8 x 4 x 3 R/1 - 4-1/4 x 1/2 O/S - 4-1/2 x 1-1/2	T5	1000	A80-R2-RX	-	1
35375	9 x 2 x 4	T1	970	A80-R2-RX	-	1
35376	9 x 4 x 4 R/2 - 5-1/4 x 5/8	T7	970	A80-R2-RX	-	1
35377	10 x 6 x 5-1/2 R/2 - 6-1/2 x 1/2	T7	920	A80-R2-RX	-	1
35239	12 x 1 x 5	T1	800	A80-R2-RX	-	1
35248	12 x 2 x 5	T1	800	A80-R2-RX	-	1
35384	12 x 2-1/2 x 5	T1	800	A80-R2-RX	-	1
35261	12 x 3 x 5	T1	800	A80-R2-RX	-	1
35274	12 x 4 x 5 R/2 - 7-1/2 x 1/2	T7	800	A80-R2-RX	-	1
35290	12 x 6 x 5 R/2 - 7-1/2 x 1/2 O/S - 7-1/2 x 1-1/2	T7	800	A80-R2-RX	-	1
35288	12 x 6 x 5 R/2 - 7-1/2 x 1-1/2	T7	800	A80-R2-RX	-	1
35302	12 x 8 x 5 R/1 - 7-1/2 x 1-1/2	T5	800	A80-R2-RX	-	1
35390	12 x 8 x 5 R/2 - 7-1/2 x 1-1/2	T7	800	A80-R2-RX	-	1
35303	12 x 8 x 5 R/2 - 7-1/2 x 1-1/2 O/S - 7-1/2 x 2-1/2	T7	800	A80-R2-RX	-	1
35308	12 x 10 x 5 R/2 - 8 x 1-1/2 O/S - 8 x 2	T7	800	A80-R2-RX	-	1
35361	14 x 8 x 5 R/2 - 8 x 1-1/2 O/S - 8 x 2	T7	650	A80-R2-RX	-	1
35362	14 x 8 x 5 R/2 - 8 x 1-1/2 O/S - 8 x 2-1/2	T7	650	A80-R2-RX	-	1
35371	14 x 20 x 5 R/2 - 8 x 1-1/2	T7	650	A80-R2-RX	-	1
35372	14 x 20 x 6 R/2 - 8 1/2 x 1-1/2	T7	650	A80-R2-RX	-	1

FEED REGULATING WHEEL MASTER

Calendered Rubber

UPC#	SIZE	SHAPE	RPM	SPEC.	CARTON	UNIT
35240	12 x 1 x 5	T1	800	A80-R2-CDR	-	1
35249	12 x 2 x 5	T1	800	A80-R2-CDR	-	1
35291	12 x 6 x 5 R/2 - 7-1/2 x 1/2 O/S - 7-1/2 x 1-1/2	T7	800	A80-R2-CDR	-	1
35289	12 x 6 x 5 R/2 - 7-1/2 x 1-1/2	T7	800	A80-R2-CDR	-	1
35304	12 x 8 x 5 R/2 - 7-1/2 x 1-1/2 O/S - 7-1/2 x 2-1/2	T7	800	A80-R2-CDR	-	1

RX: Natural Rubber
CDR: Calendered Rubber

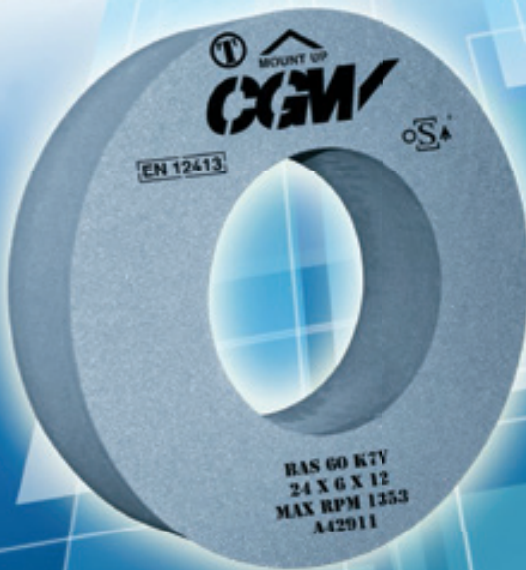
R/2: Recess Two Sides - Type 7 Wheel
R/1: Recess One Side - Type 5 Wheel
O/S: Other Side of Wheel

NEW BOND TECHNOLOGY

INTRODUCING

INTRODUCING **CGW** 45 CAMEL GRINDING WHEELS **NEW BOND TECHNOLOGY**

Our own R&D engineers, in collaboration with chemical engineering experts, have developed several next-generation bonds that perform with superior form holding, cool grinding, and high dimension stability.



BAS – Blue Abrasive Special is excellent for cylindrical and centerless applications.



2nd Generation AZ Premium ALOX wheels, for surface and Tool Room applications.

New specially engineered products are NOW IN STOCK.

They provide greater flexibility during grinding replacing the need for various grain types.

Performance gains in the application include:

- Optimal performance
- Improved life
- Cost efficiency
- Improved wheel-balance tolerances
- Lower-power technology
- Outperformance of standard industry stock options

7525 N. Oak Park Avenue, Niles, IL 60714 | tel: 1 800-447-4248 | fax: 1 800-447-3731
sales@cgwcamel.com | www.cgwcamel.com

PRODUCT INDEX

PRODUCT INDEX

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
30001	20	31024	23	31245	23	34069	182	34233	166	34349	164	34456	166	34626	164
30002	20	31025	23	31261	23	34070	182	34234	166	34350	164	34458	166	34627	168
30004	20	31032	23	31262	23	34071	182	34235	166	34351	164	34459	166	34628	168
30005	20	31034	23	31264	23	34072	182	34236	166	34352	164	34460	166	34629	168
30006	20	31035	23	31265	23	34073	182	34238	166	34353	164	34462	166	34633	164
30011	20	31051	23	34003	181	34074	182	34239	166	34354	164	34464	166	34634	164
30012	20	31052	23	34004	181	34075	182	34240	166	34355	164	34465	166	34635	164
30014	20	31054	23	34006	181	34076	182	34241	166	34356	164	34466	166	34636	164
30015	20	31055	23	34007	181	34077	182	34243	166	34357	164	34467	166	34638	164
30016	20	31062	23	34009	181	34078	182	34245	181	34358	164	34469	166	34640	164
30022	20	31064	23	34014	181	34079	182	34249	167	34359	164	34470	166	34642	164
30024	20	31065	23	34015	181	34080	182	34250	167	34360	165	34472	166	34644	168
30025	20	31072	23	34018	181	34081	182	34251	167	34364	165	34473	166	34645	168
30026	20	31074	23	34021	181	34084	182	34252	167	34366	165	34474	166	34646	168
30032	20	31075	23	34022	181	34094	183	34254	167	34367	165	34480	166	34647	164
30034	20	31091	23	34023	181	34096	183	34255	167	34369	165	34481	166	34648	164
30035	20	31092	23	34024	181	34101	183	34256	167	34380	165	34482	166	34649	164
30036	20	31094	23	34025	181	34103	183	34258	167	34383	165	34486	166	34652	164
30142	12	31095	23	34026	181	34107	183	34301	164	34387	165	34487	166	34653	164
30144	12	31102	23	34027	181	34108	183	34303	164	34390	165	34488	166	34655	168
30145	12	31104	23	34028	181	34113	183	34308	164	34391	165	34489	166	34656	168
30146	12	31105	23	34029	181	34114	164	34309	164	34392	165	34490	166	34657	168
30152	12	31112	23	34030	181	34115	166	34310	164	34394	165	34491	166	34663	164
30154	12	31114	23	34032	181	34116	166	34312	164	34395	165	34493	166	34664	164
30155	12	31115	23	34033	181	34200	176	34313	164	34396	165	34495	166	34669	168
30156	12	31131	23	34034	181	34200	176	34315	164	34397	165	34496	166	34671	164
30162	12	31132	23	34035	181	34201	176	34317	164	34409	165	34497	166	34672	164
30164	12	31134	23	34036	181	34201	176	34318	164	34411	165	34500	166	34673	164
30165	12	31135	23	34037	181	34203	176	34319	164	34413	165	34600	164	34674	164
30166	12	31142	23	34038	181	34203	176	34320	164	34414	165	34603	164	34676	164
30172	12	31144	23	34039	181	34204	176	34321	164	34416	165	34604	164	34677	164
30174	12	31145	23	34040	181	34204	176	34323	164	34418	165	34605	164	34678	164
30175	12	31171	23	34041	181	34206	164	34324	164	34419	165	34606	164	34679	164
30176	12	31172	23	34043	181	34207	164	34325	164	34421	165	34607	164	34680	168
30202	12	31174	23	34044	181	34208	164	34326	164	34422	165	34608	164	34681	168
30204	12	31175	23	34045	181	34209	164	34327	164	34425	165	34609	164	34682	168
30205	12	31182	23	34046	181	34210	164	34328	164	34426	165	34610	164	34683	164
30212	12	31184	23	34047	181	34212	164	34329	164	34427	165	34611	168	34685	165
30214	12	31185	23	34048	181	34213	164	34330	164	34429	165	34612	168	34688	165
30215	12	31201	23	34049	181	34214	164	34331	164	34430	165	34613	168	34689	165
30222	12	31202	23	34051	181	34215	164	34332	164	34433	165	34614	164	34690	165
30224	12	31204	23	34052	181	34217	165	34333	164	34434	165	34615	164	34692	168
30225	12	31205	23	34053	181	34219	165	34335	164	34435	165	34616	164	34696	165
30262	12	31212	23	34055	181	34220	165	34336	164	34436	166	34617	164	34697	165
30264	12	31214	23	34057	181	34221	165	34337	164	34437	166	34618	164	34698	165
30265	12	31215	23	34059	181	34222	165	34338	164	34440	166	34619	164	34700	165
30266	12	31231	23	34060	181	34223	165	34341	164	34445	166	34620	164	34701	165
31011	23	31232	23	34061	181	34225	165	34342	164	34447	166	34621	164	34702	165
31012	23	31234	23	34063	182	34226	165	34343	164	34448	166	34622	164	34703	168
31014	23	31235	23	34064	182	34227	165	34344	164	34449	166	34623	164	34705	168
31015	23	31242	23	34065	182	34230	166	34345	164	34452	166	34624	164	34712	165
31022	23	31244	23	34067	182	34232	166	34348	164	34454	166	34625	164	34719	165

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
34723	165	34916	176	35044	170	35238	187	35308	190	35509	126	35603	133	35656	121
34725	165	34917	176	35046	170	35239	190	35309	188	35510	126	35604	133	35657	121
34729	165	34919	176	35047	170	35240	190	35314	188	35511	126	35605	133	35658	120
34735	165	34920	176	35048	170	35241	187	35315	188	35512	126	35606	133	35659	120
34742	165	34921	176	35049	170	35242	187	35316	188	35514	112	35608	134	35660	121
34744	165	34923	176	35050	170	35243	187	35318	188	35515	113	35609	118	35661	121
34752	165	34924	176	35051	170	35244	187	35319	188	35516	112	35610	121	35662	119
34755	165	34929	176	35052	170	35245	187	35321	188	35517	112	35611	120	35663	119
34759	165	34930	176	35053	170	35246	187	35324	188	35518	112	35612	118	35664	119
34761	165	34933	176	35064	172	35247	187	35327	188	35529	178	35613	118	35665	119
34762	165	34934	176	35073	172	35248	190	35329	188	35530	178	35614	118	35666	119
34763	165	34936	176	35074	172	35249	190	35333	188	35532	178	35615	118	35667	119
34766	165	34941	176	35107	173	35251	187	35334	188	35534	178	35616	118	35670	130
34769	165	34942	176	35108	173	35254	187	35337	188	35537	178	35617	118	35671	118
34770	165	34943	176	35109	173	35255	187	35339	188	35539	178	35618	125	35672	121
34771	165	34944	176	35110	173	35261	190	35342	189	35544	178	35619	125	35673	120
34772	165	34947	176	35112	173	35266	187	35343	189	35545	178	35620	120	35674	120
34774	165	34948	176	35113	173	35267	187	35345	189	35547	178	35621	120	35675	118
34775	165	34949	176	35114	173	35268	187	35347	189	35548	178	35622	121	35676	118
34776	165	34950	176	35200	186	35270	187	35349	189	35550	178	35623	121	35677	120
34778	166	34951	176	35201	186	35272	187	35352	189	35551	178	35624	120	35678	120
34779	166	34952	176	35202	186	35273	187	35353	189	35554	178	35625	120	35679	119
34781	166	35005	170	35203	186	35274	190	35354	189	35559	178	35626	120	35680	119
34786	166	35006	170	35204	186	35277	187	35355	189	35563	178	35627	121	35681	119
34790	166	35007	170	35205	186	35278	187	35356	189	35566	178	35628	120	35682	119
34792	166	35008	170	35207	186	35279	187	35360	189	35567	178	35629	121	35683	119
34793	166	35009	170	35208	186	35280	187	35361	190	35569	178	35630	118	35685	130
34794	166	35010	170	35209	186	35281	187	35362	190	35571	178	35631	118	35686	130
34795	166	35011	170	35210	186	35282	187	35363	189	35572	178	35632	120	35687	126
34798	166	35012	170	35211	186	35283	187	35364	189	35573	128	35633	120	35688	126
34801	166	35013	170	35212	186	35284	187	35365	189	35574	128	35634	118	35689	126
34802	166	35014	170	35213	186	35285	187	35368	189	35575	130	35635	118	35690	126
34803	166	35015	170	35214	186	35286	187	35369	189	35576	130	35636	125	35691	126
34808	166	35017	170	35215	186	35287	187	35370	189	35577	129	35637	125	35697	125
34809	166	35018	170	35216	186	35288	190	35371	190	35578	130	35638	118	35698	125
34811	166	35019	170	35217	186	35289	190	35372	190	35579	129	35639	118	35699	121
34812	166	35020	170	35218	186	35290	190	35373	190	35580	129	35640	120	35830	28
34813	166	35021	170	35219	186	35291	190	35374	190	35581	129	35641	120	35831	28
34816	166	35022	170	35221	186	35292	188	35375	190	35582	129	35642	121	35832	28
34830	166	35023	170	35222	186	35293	188	35376	190	35584	129	35643	121	35833	28
34831	166	35024	170	35223	186	35294	188	35377	190	35587	132	35644	120	35834	28
34832	166	35031	170	35224	186	35295	188	35384	190	35589	132	35645	120	35835	28
34833	166	35032	170	35225	186	35296	188	35390	190	35590	133	35646	121	35836	28
34900	176	35033	170	35229	186	35297	188	35500	126	35592	133	35647	121	35837	28
34903	176	35034	170	35230	186	35298	188	35501	126	35593	133	35648	118	35838	28
34904	176	35035	170	35231	186	35299	188	35502	126	35595	133	35649	118	35839	28
34906	176	35036	170	35232	186	35300	188	35503	126	35596	133	35650	125	35840	28
34907	176	35037	170	35233	186	35301	188	35504	126	35598	133	35651	125	35841	28
34908	176	35038	170	35234	187	35302	190	35505	126	35599	132	35652	118	35842	28
34909	176	35039	170	35235	187	35303	190	35506	126	35600	132	35653	118	35843	28
34914	176	35040	170	35236	187	35304	190	35507	126	35601	133	35654	120	35844	28
34915	176	35041	170	35237	187	35306	188	35508	126	35602	133	35655	120	35845	28

PRODUCT INDEX

PRODUCT INDEX

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
35846	28	36156	124	36236	28	36293	28	36456	64	37723	166	37795	167	38017	172
35847	28	36157	124	36237	28	36294	28	36457	64	37724	166	37796	167	38018	172
35851	129	36158	132	36238	136	36301	113	36458	64	37726	166	37796	173	38019	172
35900	137	36159	132	36239	136	36302	113	36459	64	37728	164	37797	167	38020	172
35901	137	36160	133	36240	136	36303	113	36460	64	37729	164	37801	186	38021	172
35902	177	36161	133	36241	106	36304	113	36461	64	37730	164	37802	186	38022	172
35905	177	36162	135	36242	106	36306	113	37098	61	37731	164	37803	186	38023	172
35906	177	36163	135	36243	106	36310	19	37099	61	37732	164	37804	186	38024	172
35907	177	36173	127	36244	119	36311	19	37100	61	37733	164	37805	186	38025	172
35908	177	36174	127	36245	119	36312	19	37103	61	37734	164	37806	186	38026	172
35909	177	36175	127	36246	119	36313	19	37104	61	37736	164	37807	186	38027	172
35951	177	36176	127	36247	119	36314	19	37105	61	37737	165	37808	186	38028	172
35953	177	36177	127	36248	119	36315	19	37510	125	37738	165	37809	186	38029	172
35954	177	36178	127	36249	119	36316	19	37520	125	37739	165	37810	186	38030	172
35955	177	36179	127	36250	63	36317	19	37525	125	37740	165	37811	186	38031	172
35957	177	36180	127	36255	121	36318	19	37530	120	37742	165	37812	186	38032	172
35975	177	36189	118	36256	121	36319	19	37531	120	37744	165	37813	186	38033	172
35980	177	36190	118	36257	121	36320	19	37535	120	37745	166	37814	186	38034	172
35985	177	36203	33	36258	121	36321	19	37540	125	37746	166	37815	187	38035	172
36009	177	36203	35	36259	121	36322	19	37543	120	37747	166	37816	187	38036	172
36042	177	36204	37	36260	121	36323	19	37545	125	37748	166	37817	187	38038	172
36058	177	36205	37	36261	121	36324	19	37550	125	37749	166	37818	187	38039	172
36060	177	36206	37	36262	121	36325	19	37555	125	37750	166	37819	187	38041	173
36067	177	36207	63	36263	121	36326	19	37573	128	37751	166	37820	187	38042	173
36102	121	36208	63	36264	121	36327	19	37574	128	37752	166	37821	187	38043	173
36103	121	36209	63	36265	123	36328	21	37670	119	37753	166	37822	187	38044	173
36104	121	36210	63	36266	123	36329	21	37671	129	37754	165	37823	187	38046	173
36105	121	36211	63	36267	123	36330	21	37672	134	37755	165	37824	188	38047	173
36106	124	36212	63	36268	123	36331	21	37673	129	37757	166	37825	188	38048	173
36107	124	36213	63	36269	123	36332	21	37700	164	37759	166	37826	188	38049	173
36108	124	36214	63	36270	123	36333	21	37701	164	37761	166	37827	188	38050	173
36109	124	36215	63	36271	123	36334	21	37702	164	37764	166	37828	188	38051	173
36110	124	36216	63	36272	123	36335	21	37703	164	37765	166	37829	188	38052	173
36111	124	36217	63	36273	123	36336	21	37704	164	37768	164	37830	188	38053	173
36112	124	36218	63	36274	123	36337	21	37705	164	37769	164	37831	188	38054	173
36113	132	36219	118	36275	123	36338	21	37706	164	37771	164	37832	188	38055	173
36114	132	36220	118	36276	123	36339	21	37707	164	37773	165	37833	188	38111	171
36115	132	36221	118	36277	123	36348	19	37708	164	37775	165	38001	171	38113	171
36116	133	36222	118	36278	123	36349	19	37709	164	37777	165	38003	171	38114	171
36117	133	36223	118	36279	123	36350	19	37710	164	37779	166	38004	171	38116	171
36122	130	36224	118	36280	123	36402	120	37711	164	37780	166	38005	171	38121	171
36123	131	36225	118	36281	123	36403	120	37712	165	37782	166	38006	171	38123	171
36124	131	36226	118	36282	123	36404	120	37713	165	37783	166	38007	171	38126	171
36125	131	36227	118	36283	106	36405	120	37714	165	37786	167	38008	171	38161	172
36126	132	36228	118	36284	106	36406	120	37715	165	37787	167	38009	171	38163	172
36133	130	36229	119	36285	106	36407	120	37716	166	37788	167	38010	171	38164	172
36142	132	36230	119	36286	106	36450	64	37717	166	37789	167	38011	171	38166	172
36143	132	36231	121	36287	106	36451	64	37718	166	37790	167	38012	171	38201	172
36144	133	36232	121	36288	106	36452	64	37719	166	37791	167	38013	171	38203	172
36145	133	36233	128	36289	125	36453	64	37720	166	37792	167	38014	171	38204	172
36146	133	36234	130	36290	125	36454	64	37721	166	37793	167	38015	171	38206	172
36147	133	36235	28	36292	28	36455	64	37722	166	37794	167	38016	172	38501	171

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
38502	171	39255	24	39734	13	39939	61	41020	62	41518	62	41772	22	42121	16
38503	171	39400	24	39735	13	39941	62	41025	69	41519	62	41774	22	42122	16
38504	171	39401	24	39736	13	39942	62	41026	69	41520	62	41775	22	42124	16
38505	171	39402	24	39737	13	39943	62	41027	69	41521	62	41776	22	42125	16
38506	171	39404	24	39742	13	39947	62	41029	69	41522	62	41802	22	42126	16
38507	171	39405	24	39744	13	39948	62	41031	69	41523	62	41804	22	42131	16
38508	171	39406	24	39745	13	39949	62	41032	61	41524	62	41805	22	42132	16
38509	171	39407	24	39746	13	39950	62	41035	61	41525	62	41806	22	42134	16
38510	171	39410	24	39802	24	39951	62	41036	61	41526	62	41812	22	42135	16
38511	171	39411	24	39804	24	39952	62	41037	61	41527	62	41814	22	42142	16
38512	171	39412	24	39805	24	39953	62	41038	61	41528	62	41815	22	42144	16
38513	172	39414	24	39812	24	39954	62	41039	61	41529	62	41816	22	42145	16
38514	172	39415	24	39814	24	39955	62	41044	62	41530	62	41842	22	42146	16
38515	172	39416	24	39815	24	39956	62	41045	69	41608	63	41844	22	42152	16
38516	172	39417	24	39822	24	39960	63	41046	69	41630	61	41845	22	42154	16
38517	172	39420	24	39824	24	39961	63	41047	69	41631	61	41846	22	42155	16
38518	172	39421	24	39825	24	39962	63	41049	69	41701	22	41852	22	42156	16
38519	172	39422	24	39832	24	39964	63	41051	69	41702	22	41854	22	42161	16
38520	172	39424	24	39834	24	39965	63	41055	69	41704	22	41855	22	42162	16
38521	172	39425	24	39835	24	39966	63	41056	69	41705	22	41856	22	42164	16
38522	172	39426	24	39903	61	39967	63	41057	69	41706	22	41941	22	42165	16
38523	172	39430	24	39904	61	39968	63	41059	69	41711	22	41942	22	42300	16
38524	172	39431	24	39905	61	39977	63	41061	69	41712	22	41944	22	42301	16
38525	172	39432	24	39907	61	39978	63	41065	69	41714	22	41945	22	42302	16
38528	173	39434	24	39908	61	39979	63	41066	69	41715	22	41951	22	42304	16
38529	173	39435	24	39909	61	39980	63	41067	69	41716	22	41952	22	42305	16
38531	173	39442	24	39910	61	39988	63	41069	69	41721	22	41954	22	42306	16
38532	173	39444	24	39912	61	39989	63	41071	69	41722	22	41955	22	42310	16
38533	173	39445	24	39913	61	39990	63	41085	69	41724	22	41961	22	42311	16
38534	173	39446	24	39914	61	39991	63	41086	69	41725	22	41962	22	42312	16
38535	173	39452	24	39915	61	39992	63	41087	69	41726	22	41964	22	42314	16
38562	171	39454	24	39916	61	39998	63	41089	69	41731	22	41965	22	42315	16
38580	171	39455	24	39917	61	39999	63	41091	69	41732	22	41971	22	42316	16
38613	171	39456	24	39920	61	40002	61	41096	69	41734	22	41972	22	42320	16
38616	171	39462	24	39921	61	40003	61	41097	69	41735	22	41974	22	42321	16
38623	171	39464	24	39922	61	40004	61	41099	69	41736	22	41975	22	42322	16
38626	171	39465	24	39923	61	40005	61	41101	69	41741	22	41982	22	42324	16
38663	172	39466	24	39924	61	40006	61	41121	62	41742	22	41992	22	42325	16
38666	172	39472	24	39925	61	40007	63	41122	62	41744	22	42002	22	42326	16
38703	172	39474	24	39926	61	40008	63	41123	62	41745	22	42012	22	42330	16
38706	172	39475	24	39927	61	40009	63	41500	62	41746	22	42101	16	42331	16
39202	24	39602	24	39928	61	41000	63	41501	62	41751	22	42102	16	42332	16
39204	24	39604	24	39929	61	41004	63	41502	62	41752	22	42103	16	42334	16
39205	24	39605	24	39930	61	41005	63	41503	62	41754	22	42104	16	42335	16
39212	24	39712	13	39931	61	41006	63	41504	62	41755	22	42105	16	42336	16
39214	24	39714	13	39932	61	41007	63	41510	61	41756	22	42106	16	42341	16
39215	24	39715	13	39933	61	41008	63	41511	62	41761	22	42111	16	42342	16
39242	24	39716	13	39934	61	41015	61	41513	62	41762	22	42112	16	42344	16
39244	24	39722	13	39935	61	41016	61	41514	62	41764	22	42114	16	42345	16
39245	24	39724	13	39936	61	41017	61	41515	62	41765	22	42115	16	42346	16
39252	24	39725	13	39937	61	41018	62	41516	62	41766	22	42116	16	42351	16
39254	24	39726	13	39938	61	41019	62	41517	62	41771	22	42120	16	42352	16

PRODUCT INDEX

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
42354	16	42542	17	42732	17	43181	25	44648	77	44704	78	44761	78	44848	72
42355	16	42544	17	42734	17	43184	25	44649	77	44705	78	44762	78	44849	72
42356	16	42545	17	42735	17	43191	25	44650	77	44706	78	44763	78	44850	72
42361	16	42551	17	42736	17	43194	25	44651	77	44707	78	44764	78	44851	72
42362	16	42552	17	42742	17	43241	25	44652	77	44708	78	44765	78	44852	72
42364	16	42554	17	42744	17	43251	25	44653	77	44709	78	44767	80	44853	72
42365	16	42555	17	42745	17	43261	25	44654	77	44710	78	44791	74	44854	72
42366	16	42561	17	42752	17	43271	25	44655	77	44711	78	44792	74	44855	72
42371	16	42562	17	42754	17	44601	79	44656	77	44712	78	44793	74	44856	72
42372	16	42564	17	42755	17	44602	79	44657	77	44713	78	44794	74	44857	72
42374	16	42565	17	42762	17	44603	79	44658	77	44714	78	44795	74	44858	72
42375	16	42566	17	42764	17	44604	79	44659	77	44715	78	44796	74	44859	72
42376	16	42571	17	42765	17	44605	79	44660	77	44716	79	44797	74	44860	73
42401	14	42572	17	42772	17	44606	79	44661	77	44717	79	44798	74	44861	73
42402	14	42574	17	42774	17	44607	79	44662	77	44718	79	44799	74	44862	73
42404	14	42575	17	42775	17	44608	79	44663	77	44720	80	44800	74	44863	73
42405	14	42601	14	42801	15	44609	79	44664	77	44721	80	44801	74	44864	73
42411	14	42602	14	42802	15	44610	79	44665	77	44722	80	44802	74	44865	72
42412	14	42604	14	42804	15	44611	79	44666	77	44723	80	44803	74	44866	72
42414	14	42605	14	42805	15	44612	79	44667	77	44724	80	44804	74	44867	72
42415	14	42611	14	42811	15	44613	79	44668	77	44725	80	44805	74	44868	72
42441	14	42612	14	42812	15	44614	79	44669	77	44726	80	44806	74	44871	72
42442	14	42614	14	42814	15	44615	79	44670	77	44727	80	44807	74	44872	72
42444	14	42615	14	42815	15	44616	79	44671	77	44728	80	44808	74	44873	72
42445	14	42641	14	42821	15	44617	79	44672	77	44729	80	44809	74	44881	71
42451	14	42642	14	42822	15	44618	79	44673	77	44730	80	44821	75	44882	71
42452	14	42644	14	42824	15	44619	79	44674	77	44731	80	44822	75	44883	71
42454	14	42645	14	42825	15	44620	79	44675	77	44732	80	44823	75	44884	71
42455	14	42651	14	42831	15	44621	79	44676	77	44733	80	44824	75	44885	71
42500	17	42652	14	42832	15	44622	79	44677	77	44734	80	44825	75	44886	71
42501	17	42654	14	42834	15	44623	79	44678	77	44735	80	44826	75	44887	71
42502	17	42655	14	42835	15	44624	79	44679	77	44736	80	44827	75	44888	71
42504	17	42700	17	42942	13	44625	79	44680	77	44737	80	44828	75	44915	73
42505	17	42701	17	42944	13	44626	79	44681	77	44738	80	44829	71	44917	73
42506	17	42702	17	42945	13	44627	79	44682	77	44739	80	44830	71	44919	73
42510	17	42704	17	42952	13	44628	79	44683	77	44740	80	44831	71	44921	73
42511	17	42705	17	42954	13	44629	79	44684	77	44741	79	44832	71	44922	73
42512	17	42706	17	42955	13	44630	79	44685	77	44746	80	44833	71	44923	73
42514	17	42710	17	42962	13	44631	79	44686	77	44747	80	44834	71	44924	73
42515	17	42711	17	42964	13	44632	79	44687	77	44748	80	44835	71	44925	73
42516	17	42712	17	42965	13	44633	79	44688	77	44749	80	44836	71	45001	114
42520	17	42714	17	42972	13	44634	79	44689	77	44750	80	44837	71	45002	114
42521	17	42715	17	42974	13	44635	79	44694	78	44751	80	44838	71	45003	115
42522	17	42716	17	42975	13	44636	79	44695	78	44752	80	44839	71	45004	111
42524	17	42720	17	43081	25	44640	77	44696	78	44753	80	44840	71	45005	114
42525	17	42721	17	43084	25	44641	77	44697	78	44754	80	44841	71	45006	115
42526	17	42722	17	43091	25	44642	77	44698	78	44755	80	44842	71	45007	114
42531	17	42724	17	43094	25	44643	77	44699	78	44756	80	44843	72	45008	114
42532	17	42725	17	43101	25	44644	77	44700	78	44757	80	44844	72	45009	115
42534	17	42726	17	43104	25	44645	77	44701	78	44758	80	44845	72	45010	112
42535	17	42730	17	43111	25	44646	77	44702	78	44759	78	44846	72	45011	112
42541	17	42731	17	43114	25	44647	77	44703	78	44760	78	44847	72	45012	112

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
45013	112	45106	112	45230	113	48049	33	48227	127	48530	35	48821	34	49023	136
45014	112	45113	116	45231	113	48100	34	48228	121	48531	35	48822	34	49024	136
45016	112	45114	116	45232	113	48101	34	48229	37	48532	35	48824	34	49026	136
45017	115	45141	114	45233	115	48102	34	48230	34	48533	35	48825	34	49027	136
45019	116	45142	114	45234	117	48104	34	48231	34	48534	35	48826	34	49028	136
45020	116	45143	114	45235	117	48105	34	48232	34	48535	35	48831	34	49029	136
45021	116	45144	114	45238	114	48106	34	48234	34	48536	35	48832	34	49030	136
45022	116	45145	114	46691	26	48110	34	48235	34	48537	35	48834	34	49031	136
45023	116	45146	111	48000	32	48111	34	48236	34	48538	35	48835	34	49032	136
45024	116	45147	111	48001	32	48112	34	48239	37	48539	35	48836	34	49033	136
45025	116	45148	111	48002	32	48113	34	48240	37	48540	35	48881	36	49035	136
45026	116	45149	114	48004	32	48114	34	48245	127	48541	35	48882	36	49036	136
45027	116	45150	114	48005	32	48115	34	48250	63	48542	35	48884	36	49037	136
45028	116	45151	114	48006	32	48116	34	48251	33	48572	65	48885	36	49038	136
45030	116	45152	114	48007	32	48120	34	48251	35	48573	65	48886	36	49039	136
45032	116	45153	114	48008	32	48121	34	48252	33	48574	65	48891	36	49040	136
45036	120	45154	115	48010	32	48122	34	48252	35	48575	65	48892	36	49042	136
45037	118	45155	115	48011	32	48123	34	48261	37	48621	33	48894	36	49043	136
45038	118	45156	115	48012	32	48124	34	48262	37	48622	33	48895	36	49233	33
45039	120	45157	115	48013	32	48125	34	48264	37	48624	33	48896	36	49406	54
45040	120	45158	115	48014	32	48126	34	48266	37	48625	33	48901	36	49407	54
45041	113	45159	115	48015	32	48141	34	48320	35	48626	33	48902	36	49408	54
45042	113	45200	119	48016	32	48142	34	48321	35	48711	32	48904	36	49413	54
45043	118	45201	119	48017	32	48144	34	48322	35	48712	32	48905	36	49414	54
45044	118	45202	119	48018	32	48145	34	48330	35	48714	32	48906	36	49415	54
45045	119	45203	119	48020	32	48146	34	48331	35	48715	32	48921	34	49423	54
45046	116	45204	119	48021	32	48181	36	48332	35	48716	32	48922	34	49424	54
45047	114	45205	119	48022	32	48182	36	48333	35	48721	32	48924	34	49425	54
45048	120	45206	119	48023	32	48184	36	48334	35	48722	32	48925	34	49426	54
45049	120	45207	119	48024	32	48185	36	48335	35	48724	32	48926	34	49427	54
45050	112	45208	111	48025	32	48186	36	48336	35	48725	32	49000	137	49428	54
45051	112	45209	111	48026	32	48191	36	48338	35	48726	32	49001	137	49441	30
45052	118	45210	118	48027	32	48192	36	48339	35	48731	33	49002	137	49442	30
45053	121	45211	118	48028	32	48194	36	48350	35	48732	33	49003	137	49443	30
45066	126	45212	118	48030	33	48195	36	48352	35	48734	33	49004	137	49444	30
45071	129	45213	118	48031	33	48196	36	48501	33	48735	33	49005	137	49445	30
45072	129	45214	118	48032	33	48201	36	48502	33	48736	33	49006	137	49446	30
45080	113	45215	118	48033	33	48202	36	48503	33	48741	33	49007	137	49447	30
45081	120	45216	118	48034	33	48204	36	48504	33	48742	33	49008	137	49448	30
45082	120	45217	118	48035	33	48205	36	48505	33	48744	33	49009	137	49449	30
45085	126	45218	117	48036	33	48206	36	48508	33	48745	33	49010	137	49450	30
45086	126	45219	117	48037	33	48218	37	48509	33	48746	33	49011	137	49451	30
45087	126	45220	117	48038	33	48220	37	48510	33	48801	34	49012	137	49452	30
45088	126	45221	117	48039	33	48221	37	48511	33	48802	34	49013	137	49453	30
45089	129	45222	117	48040	33	48222	37	48512	33	48804	34	49014	137	49454	30
45098	114	45223	117	48041	33	48223	37	48515	33	48805	34	49015	137	49455	30
45099	115	45224	112	48042	33	48224	37	48516	33	48806	34	49016	136	49456	30
45100	112	45225	114	48044	33	48224	101	48517	33	48811	34	49017	136	49457	30
45102	112	45226	112	48045	33	48225	37	48518	33	48812	34	49018	136	49458	30
45103	114	45227	112	48046	33	48225	101	48519	33	48814	34	49019	136	49459	30
45104	113	45228	114	48047	33	48226	37	48528	35	48815	34	49021	136	49460	30
45105	112	45229	113	48048	33	48226	101	48529	35	48816	34	49022	136	49461	30

PRODUCT INDEX

PRODUCT INDEX

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
49462	30	49553	104	49604	104	49683	126	49795	40	49852	40	49951	41	50006	41
49463	30	49554	104	49605	104	49684	126	49796	40	49853	40	49952	41	50007	41
49464	30	49555	104	49606	29	49685	28	49797	40	49854	40	49953	41	50008	41
49471	30	49556	104	49607	29	49686	26	49798	40	49855	40	49955	41	50009	41
49472	30	49557	104	49608	29	49687	26	49799	40	49856	40	49956	41	50010	41
49473	30	49558	104	49609	29	49688	26	49800	40	49857	40	49957	41	50011	41
49474	30	49559	104	49610	29	49689	26	49801	40	49858	40	49958	41	50012	41
49475	30	49560	104	49611	29	49690	26	49802	40	49859	40	49959	41	50013	41
49476	30	49561	105	49612	29	49692	26	49803	40	49860	40	49960	41	50360	42
49477	30	49562	105	49613	29	49693	26	49805	40	49861	40	49961	41	50361	42
49478	30	49563	105	49614	29	49694	26	49806	40	49862	40	49962	41	50362	42
49479	30	49564	105	49615	29	49695	26	49807	40	49863	40	49963	41	50363	42
49480	30	49565	105	49616	29	49696	26	49808	40	49865	40	49964	41	50364	42
49481	30	49566	105	49617	29	49697	26	49809	40	49866	40	49965	41	50365	42
49482	30	49567	105	49618	29	49698	27	49810	40	49867	40	49966	41	50366	42
49483	30	49568	105	49619	29	49699	27	49811	40	49868	40	49967	41	50375	42
49484	30	49569	105	49620	29	49700	27	49812	40	49869	40	49968	41	50376	42
49485	30	49570	105	49621	29	49701	27	49813	40	49870	40	49970	41	50377	42
49501	37	49571	105	49622	29	49702	31	49814	40	49871	40	49971	41	50378	42
49503	37	49572	105	49623	29	49703	31	49815	40	49872	40	49972	41	50379	42
49504	37	49573	105	49624	155	49704	31	49816	40	49873	40	49973	41	50380	42
49505	37	49574	105	49625	28	49705	31	49817	40	49874	40	49974	41	50381	42
49506	37	49575	105	49626	28	49706	31	49818	40	49875	40	49975	41	50390	42
49508	37	49576	105	49627	28	49707	31	49822	40	49876	40	49976	41	50391	42
49510	37	49577	105	49628	28	49708	31	49823	40	49877	40	49977	41	50392	42
49511	37	49578	105	49629	28	49709	31	49824	40	49878	40	49978	41	50393	42
49514	37	49579	105	49630	28	49710	31	49825	40	49925	41	49979	41	50394	42
49515	37	49580	105	49631	28	49711	31	49826	40	49926	41	49980	41	50395	42
49519	37	49581	105	49632	28	49712	31	49827	40	49927	41	49981	41	50396	42
49521	37	49582	29	49633	28	49713	31	49828	40	49928	41	49982	41	50397	42
49526	37	49583	29	49634	28	49750	122	49829	40	49929	41	49983	41	50398	42
49527	37	49584	29	49635	154	49751	122	49830	40	49930	41	49985	41	50399	42
49529	37	49585	29	49636	154	49761	40	49831	40	49931	41	49986	41	50400	42
49530	37	49586	29	49637	154	49762	40	49832	40	49932	41	49987	41	50405	42
49531	37	49587	29	49638	154	49763	40	49833	40	49933	41	49988	41	50406	42
49532	101	49588	29	49639	154	49764	40	49835	40	49934	41	49989	41	50407	42
49533	101	49589	29	49640	154	49765	40	49836	40	49935	41	49990	41	50408	42
49534	101	49590	29	49641	154	49766	40	49837	40	49936	41	49991	41	50409	42
49535	101	49591	29	49642	154	49767	40	49838	40	49937	41	49992	41	50410	42
49536	101	49592	29	49643	155	49776	40	49839	40	49938	41	49993	41	50411	42
49537	101	49593	29	49644	155	49777	40	49840	40	49940	41	49994	41	50412	42
49543	122	49594	29	49645	155	49778	40	49841	40	49941	41	49995	41	50413	42
49544	122	49595	29	49646	155	49779	40	49842	40	49942	41	49996	41	50414	42
49545	122	49596	29	49647	155	49780	40	49843	40	49943	41	49997	41	50415	42
49546	122	49597	29	49648	155	49781	40	49844	40	49944	41	49998	41	50420	42
49547	122	49598	29	49649	155	49782	40	49845	40	49945	41	50000	41	50421	42
49548	122	49599	29	49650	155	49790	40	49846	40	49946	41	50001	41	50422	42
49549	104	49600	104	49652	27	49791	40	49847	40	49947	41	50002	41	50423	42
49550	104	49601	104	49653	27	49792	40	49848	40	49948	41	50003	41	50424	42
49551	104	49602	104	49660	27	49793	40	49850	40	49949	41	50004	41	50425	42
49552	104	49603	104	49682	126	49794	40	49851	40	49950	41	50005	41	50426	42

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
50427	42	50543	43	50610	43	50738	44	50846	45	50910	45	51069	48	51126	48
50428	42	50544	43	50660	44	50739	44	50847	45	50911	45	51070	48	51127	48
50429	42	50545	43	50661	44	50740	44	50848	45	50965	40	51071	48	51128	48
50430	42	50546	43	50662	44	50741	44	50849	45	50966	40	51072	48	51129	48
50435	42	50547	43	50663	44	50742	44	50850	45	50970	40	51073	48	51130	48
50436	42	50548	43	50664	44	50743	44	50851	45	50971	40	51074	48	51131	48
50437	42	50549	43	50665	44	50744	44	50855	45	50975	40	51075	48	51132	48
50438	42	50550	43	50675	44	50745	44	50856	45	50976	40	51076	48	51133	48
50439	42	50555	43	50676	44	50746	44	50857	45	50985	40	51077	48	51134	48
50440	42	50556	43	50677	44	50750	44	50858	45	50986	40	51078	48	51135	48
50441	42	50557	43	50678	44	50751	44	50859	45	50990	40	51079	48	51136	48
50442	42	50558	43	50679	44	50752	44	50860	45	50991	40	51080	48	51137	48
50443	42	50559	43	50680	44	50753	44	50861	45	50995	40	51081	48	51138	48
50444	42	50560	43	50690	44	50754	44	50862	45	50996	40	51082	48	51141	48
50445	42	50561	43	50691	44	50755	44	50863	45	51000	173	51083	48	51142	48
50450	42	50562	43	50692	44	50756	44	50864	45	51001	173	51084	48	51143	48
50451	42	50563	43	50693	44	50757	44	50865	45	51002	173	51087	48	51144	48
50452	42	50564	43	50694	44	50758	44	50866	45	51003	173	51088	48	51145	48
50453	42	50565	43	50695	44	50759	44	50870	45	51004	173	51089	48	51146	48
50454	42	50570	43	50696	44	50760	44	50871	45	51005	173	51090	48	51147	48
50455	42	50571	43	50697	44	50761	44	50872	45	51006	173	51091	48	51148	48
50456	42	50572	43	50698	44	50765	44	50873	45	51007	173	51092	48	51149	48
50457	42	50573	43	50699	44	50766	44	50874	45	51008	173	51093	48	51150	48
50458	42	50574	43	50700	44	50767	44	50875	45	51015	48	51094	48	51151	48
50459	42	50575	43	50701	44	50768	44	50876	45	51016	48	51095	48	51152	48
50460	42	50576	43	50705	44	50769	44	50877	45	51017	48	51096	48	51153	48
50465	42	50577	43	50706	44	50770	44	50878	45	51018	48	51097	48	51154	48
50466	42	50578	43	50707	44	50771	44	50879	45	51019	48	51098	48	51155	48
50467	42	50579	43	50708	44	50772	44	50880	45	51020	48	51099	48	51156	48
50468	42	50580	43	50709	44	50773	44	50881	45	51033	48	51100	48	51231	49
50469	42	50585	43	50710	44	50774	44	50885	45	51034	48	51101	48	51232	49
50470	42	50586	43	50711	44	50775	44	50886	45	51035	48	51102	48	51233	49
50471	42	50587	43	50712	44	50776	44	50887	45	51036	48	51105	48	51234	49
50472	42	50588	43	50714	44	50825	45	50888	45	51037	48	51106	48	51235	49
50473	42	50589	43	50715	44	50826	45	50889	45	51038	48	51107	48	51236	49
50474	42	50590	43	50716	44	50827	45	50890	45	51051	48	51108	48	51237	49
50475	42	50591	43	50720	44	50828	45	50892	45	51052	48	51109	48	51238	49
50525	43	50592	43	50721	44	50829	45	50893	45	51053	48	51110	48	51239	49
50526	43	50593	43	50722	44	50830	45	50894	45	51054	48	51111	48	51240	49
50527	43	50594	43	50723	44	50831	45	50895	45	51055	48	51112	48	51241	49
50528	43	50595	43	50724	44	50832	45	50896	45	51056	48	51113	48	51242	49
50529	43	50600	43	50725	44	50833	45	50900	45	51057	48	51114	48	51243	49
50530	43	50601	43	50726	44	50834	45	50901	45	51058	48	51115	48	51244	49
50531	43	50602	43	50727	44	50835	45	50902	45	51059	48	51116	48	51245	49
50532	43	50603	43	50728	44	50836	45	50903	45	51060	48	51117	48	51246	49
50533	43	50604	43	50729	44	50840	45	50904	45	51061	48	51118	48	51249	49
50534	43	50605	43	50730	44	50841	45	50905	45	51062	48	51119	48	51250	49
50535	43	50606	43	50731	44	50842	45	50906	45	51063	48	51120	48	51251	49
50540	43	50607	43	50735	44	50843	45	50907	45	51064	48	51123	48	51252	49
50541	43	50608	43	50736	44	50844	45	50908	45	51065	48	51124	48	51253	49
50542	43	50609	43	50737	44	50845	45	50909	45	51066	48	51125	48	51254	49

PRODUCT INDEX

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
51255	49	51317	49	51762	47	51856	47	51918	47	52006	46	52381	50	52446	50
51256	49	51318	49	51763	47	51857	47	51945	46	52009	46	52382	50	52447	50
51257	49	51321	49	51764	47	51858	47	51946	46	52010	46	52383	50	52448	50
51258	49	51322	49	51765	47	51861	47	51947	46	52011	46	52384	50	52449	50
51259	49	51323	49	51766	47	51862	47	51948	46	52012	46	52385	50	52450	50
51260	49	51324	49	51767	47	51863	47	51949	46	52013	46	52386	50	52452	50
51261	49	51325	49	51768	47	51864	47	51950	46	52014	46	52392	50	52453	50
51262	49	51326	49	51769	47	51865	47	51953	46	52015	46	52393	50	52454	50
51263	49	51327	49	51770	47	51866	47	51954	46	52016	46	52394	50	52455	50
51264	49	51328	49	51773	47	51867	47	51955	46	52017	46	52395	50	52456	50
51267	49	51329	49	51774	47	51868	47	51956	46	52018	46	52396	50	52457	50
51268	49	51330	49	51775	47	51869	47	51957	46	52021	46	52397	50	52458	50
51269	49	51331	49	51776	47	51870	47	51958	46	52022	46	52398	50	52459	50
51270	49	51332	49	51777	47	51873	47	51959	46	52023	46	52404	50	52460	50
51271	49	51333	49	51778	47	51874	47	51960	46	52024	46	52405	50	52461	50
51272	49	51334	49	51781	47	51875	47	51961	46	52025	46	52406	50	52462	50
51273	49	51335	49	51782	47	51876	47	51962	46	52026	46	52407	50	52464	50
51274	49	51336	49	51783	47	51877	47	51965	46	52027	46	52408	50	52465	50
51275	49	51657	52	51784	47	51878	47	51966	46	52028	46	52409	50	52466	50
51276	49	51658	52	51785	47	51879	47	51967	46	52029	46	52410	50	52467	50
51277	49	51659	52	51786	47	51880	47	51968	46	52030	46	52411	50	52468	50
51278	49	51660	52	51787	47	51881	47	51969	46	52165	41	52412	50	52469	50
51285	49	51661	52	51788	47	51882	47	51970	46	52166	41	52413	50	52470	50
51286	49	51662	52	51789	47	51885	47	51971	46	52170	41	52414	50	52471	50
51287	49	51663	52	51790	47	51886	47	51972	46	52171	41	52416	50	52472	50
51288	49	51729	47	51793	47	51887	47	51973	46	52175	41	52417	50	52473	50
51289	49	51730	47	51794	47	51888	47	51974	46	52176	41	52418	50	52474	50
51290	49	51731	47	51795	47	51889	47	51977	46	52180	41	52419	50	52524	51
51291	49	51732	47	51796	47	51890	47	51978	46	52181	41	52420	50	52525	51
51292	49	51733	47	51797	47	51891	47	51979	46	52185	41	52421	50	52526	51
51293	49	51734	47	51798	47	51892	47	51980	46	52186	41	52422	50	52527	51
51294	49	51737	47	51799	47	51893	47	51981	46	52190	41	52423	50	52528	51
51295	49	51738	47	51800	47	51894	47	51982	46	52191	41	52424	50	52529	51
51296	49	51739	47	51801	47	51897	47	51983	46	52200	50	52425	50	52530	51
51297	49	51740	47	51802	47	51898	47	51984	46	52205	50	52426	50	52531	51
51298	49	51741	47	51805	47	51899	47	51985	46	52210	50	52428	50	52532	51
51299	49	51742	47	51806	47	51900	47	51986	46	52220	50	52429	50	52533	51
51300	49	51743	47	51807	47	51901	47	51989	46	52225	50	52430	50	52534	51
51303	49	51744	47	51808	47	51902	47	51990	46	52230	50	52431	50	52536	51
51304	49	51745	47	51809	47	51903	47	51991	46	52235	51	52432	50	52537	51
51305	49	51746	47	51810	47	51904	47	51992	46	52240	51	52433	50	52538	51
51306	49	51749	47	51811	47	51905	47	51993	46	52245	51	52434	50	52539	51
51307	49	51750	47	51812	47	51906	47	51994	46	52250	51	52435	50	52540	51
51308	49	51751	47	51813	47	51909	47	51997	46	52255	51	52436	50	52541	51
51309	49	51752	47	51814	47	51910	47	51998	46	52260	51	52437	50	52542	51
51310	49	51753	47	51849	47	51911	47	51999	46	52265	52	52438	50	52543	51
51311	49	51754	47	51850	47	51912	47	52000	46	52266	52	52440	50	52544	51
51312	49	51755	47	51851	47	51913	47	52001	46	52267	52	52441	50	52545	51
51313	49	51756	47	51852	47	51914	47	52002	46	52268	52	52442	50	52546	51
51314	49	51757	47	51853	47	51915	47	52003	46	52269	52	52443	50	52548	51
51315	49	51758	47	51854	47	51916	47	52004	46	52270	52	52444	50	52549	51
51316	49	51761	47	51855	47	51917	47	52005	46	52380	50	52445	50	52550	51

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
52551	51	52646	53	52709	53	52779	53	52861	85	53036	17	53315	53	53369	82
52552	51	52647	53	52710	53	52780	53	52862	85	53041	17	53316	53	53370	82
52553	51	52648	53	52711	53	52781	53	52863	85	53042	17	53317	53	53371	82
52554	51	52649	53	52714	53	52782	53	52864	85	53044	17	53319	53	53372	82
52555	51	52650	53	52715	53	52783	53	52865	85	53045	17	53320	53	53373	82
52556	51	52651	53	52716	53	52784	53	52866	85	53046	17	53321	53	53374	82
52557	51	52652	53	52717	53	52785	53	52867	85	53051	17	53322	53	53375	82
52558	51	52653	53	52718	53	52787	53	52868	85	53052	17	53326	53	53376	82
52560	51	52654	53	52719	53	52788	53	52869	85	53054	17	53327	53	53377	82
52561	51	52655	53	52720	53	52789	53	52870	84	53055	17	53328	53	53378	82
52562	51	52656	53	52722	53	52790	53	52871	84	53056	17	53329	53	53379	82
52563	51	52657	53	52723	53	52791	53	52872	84	53061	17	53330	53	53380	82
52564	51	52658	53	52724	53	52792	53	52873	84	53062	17	53335	53	53381	82
52565	51	52659	53	52725	53	52793	53	52874	84	53064	17	53336	53	53382	81
52566	51	52660	53	52726	53	52803	53	52875	84	53065	17	53337	53	53383	81
52567	51	52661	53	52727	53	52804	53	52876	84	53066	17	53338	53	53384	81
52568	51	52662	53	52728	53	52805	53	52877	84	53071	17	53340	53	53385	81
52569	51	52663	53	52730	53	52806	53	52878	84	53072	17	53358	83	53386	81
52570	51	52664	53	52731	53	52807	53	52879	84	53074	17	53358	83	53387	81
52572	51	52665	53	52732	53	52808	53	52885	84	53075	17	53358	83	53388	81
52573	51	52666	53	52733	53	52809	53	52886	84	53076	17	53358	83	53389	81
52574	51	52667	53	52734	53	52811	53	52887	84	53241	97	53358	83	53390	81
52575	51	52679	53	52735	53	52812	53	52888	84	53242	97	53359	83	53391	81
52576	51	52680	53	52736	53	52813	53	52889	84	53243	97	53359	83	53392	81
52577	51	52681	53	52746	53	52814	53	52890	84	53244	97	53359	83	53393	81
52578	51	52682	53	52747	53	52815	53	52892	84	53245	97	53359	83	53394	81
52579	51	52683	53	52748	53	52816	53	52894	84	53246	97	53359	83	53395	81
52580	51	52684	53	52749	53	52817	53	52895	84	53247	97	53360	83	53396	81
52581	51	52685	53	52750	53	52819	53	52897	84	53248	97	53360	83	53397	81
52582	51	52686	53	52751	53	52820	53	52899	84	53249	97	53360	83	53398	81
52584	51	52687	53	52752	53	52821	53	52901	84	53250	97	53360	83	53399	81
52585	51	52688	53	52754	53	52822	53	52902	84	53251	97	53360	83	53400	81
52586	51	52689	53	52755	53	52823	53	52903	84	53252	97	53361	83	53401	81
52587	51	52690	53	52756	53	52824	53	53001	17	53253	97	53361	83	53402	81
52588	51	52691	53	52757	53	52825	53	53002	17	53254	97	53361	83	53403	81
52589	51	52692	53	52758	53	52828	76	53004	17	53255	111	53361	83	53404	81
52590	51	52693	53	52759	53	52829	76	53005	17	53256	111	53361	83	53405	81
52591	51	52694	53	52760	53	52830	76	53006	17	53257	110	53362	83	53406	81
52592	51	52695	53	52762	53	52831	76	53011	17	53258	110	53362	83	53407	81
52593	51	52696	53	52763	53	52832	76	53012	17	53259	113	53362	83	53408	81
52594	51	52697	53	52764	53	52833	76	53014	17	53260	113	53362	83	53409	81
52635	53	52698	53	52765	53	52834	76	53015	17	53301	53	53362	83	53410	81
52636	53	52699	53	52766	53	52835	76	53016	17	53302	53	53363	83	53411	81
52637	53	52700	53	52767	53	52836	76	53021	17	53303	53	53363	83	53412	81
52638	53	52701	53	52768	53	52837	76	53022	17	53304	53	53363	83	53413	81
52639	53	52702	53	52771	53	52838	76	53024	17	53307	53	53363	83	54001	18
52640	53	52703	53	52772	53	52839	76	53025	17	53308	53	53363	83	54002	18
52641	53	52704	53	52773	53	52840	76	53026	17	53309	53	53364	82	54004	18
52642	53	52705	53	52774	53	52841	76	53031	17	53310	53	53365	82	54005	18
52643	53	52706	53	52775	53	52844	76	53032	17	53311	53	53366	82	54011	18
52644	53	52707	53	52776	53	52846	76	53034	17	53313	53	53367	82	54012	18
52645	53	52708	53	52777	53	52847	76	53035	17	53314	53	53368	82	54014	18

PRODUCT INDEX

PRODUCT INDEX

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
54015	18	58018	164	58071	173	59082	167	59233	91	59285	91	59553	56	59628	58
54021	18	58019	164	58072	167	59084	167	59234	91	59286	91	59554	56	59633	58
54022	18	58021	164	59000	164	59085	167	59235	91	59287	91	59555	56	59634	58
54024	18	58023	164	59001	164	59086	167	59236	91	59288	91	59560	56	59635	58
54025	18	58024	164	59002	164	59087	167	59237	91	59289	91	59561	56	59636	58
54031	18	58025	164	59003	164	59088	167	59238	91	59290	91	59562	56	59637	58
54032	18	58026	164	59004	164	59089	167	59239	91	59291	91	59563	56	59638	58
54034	18	58028	165	59005	164	59090	167	59240	91	59292	91	59564	56	59639	58
54035	18	58029	165	59006	164	59090	173	59241	91	59293	91	59565	56	59640	58
56002	25	58031	165	59007	164	59091	167	59242	91	59294	91	59566	56	59645	58
56003	25	58032	165	59008	164	59100	119	59243	91	59295	91	59567	56	59646	58
56004	25	58033	165	59009	164	59101	119	59244	91	59296	91	59568	56	59647	58
56005	25	58034	165	59010	165	59102	127	59245	91	59297	91	59569	56	59648	58
56006	25	58035	165	59011	165	59103	127	59246	91	59503	59	59570	56	59649	58
56007	25	58036	165	59012	165	59104	127	59247	91	59504	59	59571	56	59650	58
56008	25	58037	165	59013	165	59105	127	59248	91	59505	59	59572	56	59651	58
56009	25	58038	165	59014	165	59106	127	59249	91	59506	59	59573	56	59652	58
56012	25	58039	166	59015	165	59107	127	59250	91	59507	59	59574	56	59657	58
56013	25	58040	166	59016	165	59108	127	59251	91	59508	59	59575	56	59658	58
56014	25	58041	166	59017	165	59109	128	59252	91	59509	59	59576	56	59659	58
56015	25	58042	166	59018	165	59110	128	59253	91	59510	59	59577	56	59660	58
56016	25	58043	166	59019	166	59111	127	59254	91	59511	59	59578	56	59661	58
56017	25	58044	166	59020	166	59112	127	59255	91	59512	56	59579	56	59662	58
56018	25	58045	166	59021	166	59113	127	59256	91	59513	56	59587	55	59663	58
56019	25	58046	166	59022	166	59114	127	59257	91	59514	56	59588	55	59664	58
56022	25	58047	166	59023	166	59115	127	59258	91	59515	56	59589	55	59668	58
56023	25	58048	166	59024	166	59116	127	59259	91	59516	56	59590	55	59669	58
56024	25	58049	166	59025	164	59200	98	59260	91	59517	56	59591	55	59670	58
56025	25	58050	166	59033	164	59201	98	59261	91	59518	56	59592	55	59671	58
56026	25	58054	176	59034	165	59202	98	59262	91	59519	56	59593	55	59672	58
56027	25	58054	176	59035	165	59203	98	59263	91	59524	56	59594	55	59673	58
56028	25	58055	176	59036	165	59204	98	59264	91	59525	56	59595	55	59674	58
56029	25	58055	176	59038	165	59205	98	59265	91	59526	56	59596	55	59675	58
56035	25	58056	176	59041	166	59206	98	59266	91	59527	56	59597	55	59676	58
56036	25	58056	176	59042	166	59207	98	59267	91	59528	56	59598	55	59677	58
56185	25	58057	176	59043	166	59208	98	59268	91	59529	56	59599	55	59678	58
56186	25	58057	176	59045	166	59209	98	59269	91	59530	56	59600	55	59679	58
58000	164	58058	176	59049	166	59210	98	59270	91	59531	56	59608	59	59680	58
58001	164	58058	176	59050	169	59211	98	59271	91	59534	56	59609	59	59681	58
58002	164	58059	176	59051	169	59220	91	59272	91	59536	56	59610	59	59682	58
58003	164	58059	176	59052	169	59221	91	59273	91	59537	56	59611	59	59683	58
58004	164	58060	176	59053	169	59222	91	59274	91	59538	56	59612	59	59696	57
58006	164	58060	176	59054	169	59223	91	59275	91	59539	56	59614	59	59697	57
58007	164	58062	167	59055	169	59224	91	59276	91	59540	56	59615	59	59698	57
58008	164	58063	167	59056	169	59225	91	59277	91	59541	56	59616	59	59699	57
58010	164	58065	167	59057	169	59226	91	59278	91	59542	56	59621	58	59700	57
58011	164	58066	167	59060	98	59227	91	59279	91	59543	56	59622	58	59701	57
58012	164	58067	167	59061	98	59228	91	59280	91	59548	56	59623	58	59702	57
58013	164	58068	167	59062	98	59229	91	59281	91	59549	56	59624	58	59703	57
58015	164	58069	167	59063	98	59230	91	59282	91	59550	56	59625	58	59704	57
58016	164	58070	167	59080	167	59231	91	59283	91	59551	56	59626	58	59705	57
58017	164	58071	167	59081	167	59232	91	59284	91	59552	56	59627	58	59706	57

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
59707	57	59915	55	60051	144	60208	148	60590	152	61045	86	61097	87	61149	88
59708	57	59916	55	60052	144	60209	148	60591	152	61046	86	61098	87	61150	88
59709	57	59917	55	60053	144	60210	148	60592	152	61047	86	61099	87	61151	88
59717	56	59920	55	60055	144	60211	148	60593	152	61048	87	61100	87	61152	88
59718	56	59921	55	60060	145	60212	148	60650	153	61049	87	61101	87	61153	88
59719	56	59922	55	60065	145	60213	148	60651	153	61050	87	61102	87	61154	88
59720	56	59923	55	60070	145	60220	149	60665	153	61051	87	61103	87	61155	88
59722	58	59924	55	60076	145	60221	149	61000	86	61052	87	61104	87	61156	88
59723	58	59925	55	60090	145	60222	149	61001	86	61053	87	61105	87	61157	88
59728	60	59926	55	60091	145	60223	149	61002	86	61054	87	61106	87	61158	88
59729	60	59927	55	60100	145	60224	149	61003	86	61055	87	61107	87	61159	88
59730	60	59940	57	60101	145	60225	149	61004	86	61056	87	61108	87	61160	88
59731	60	59941	57	60102	145	60226	149	61005	86	61057	87	61109	87	61161	88
59732	20	59942	57	60103	145	60227	149	61006	86	61058	87	61110	87	61162	88
59732	60	59943	57	60104	145	60228	149	61007	86	61059	87	61111	87	61163	88
59733	20	59944	57	60105	145	60229	149	61008	86	61060	87	61112	87	61164	88
59733	60	59945	57	60106	145	60230	149	61009	86	61061	87	61113	87	61165	88
59734	20	59946	57	60110	145	60250	155	61010	86	61062	87	61114	87	61166	88
59734	60	59947	57	60111	145	60500	150	61011	86	61063	87	61115	87	61167	88
59735	20	59950	57	60112	145	60501	150	61012	86	61064	87	61116	88	61168	88
59735	60	59951	57	60113	145	60502	150	61013	86	61065	87	61117	88	61169	88
59736	60	59952	57	60120	145	60503	150	61014	86	61066	87	61118	88	61170	88
59738	60	59953	57	60125	145	60505	150	61015	86	61067	87	61119	88	61171	88
59739	59	59954	57	60126	145	60514	150	61016	86	61068	87	61120	88	61172	88
59740	59	59955	57	60127	145	60515	150	61017	86	61069	87	61121	88	61173	88
59741	59	59956	57	60130	146	60520	150	61018	86	61070	87	61122	88	61174	88
59742	59	59957	57	60131	146	60521	150	61019	86	61071	87	61123	88	61175	88
59743	59	59960	57	60132	146	60522	150	61020	86	61072	87	61124	88	61176	88
59744	59	59961	57	60133	155	60523	150	61021	86	61073	87	61125	88	61177	88
59745	59	59962	57	60140	146	60524	150	61022	86	61074	87	61126	88	61178	88
59746	59	59963	57	60141	146	60525	150	61023	86	61075	87	61127	88	61179	88
59747	59	59964	57	60150	147	60526	150	61024	86	61076	87	61128	88	61180	88
59748	59	59965	57	60160	147	60535	151	61025	86	61077	87	61129	88	61181	88
59749	59	59966	57	60161	147	60536	151	61026	86	61078	87	61130	88	61182	88
59750	59	59967	57	60162	147	60537	151	61027	86	61079	87	61131	88	61183	88
59751	59	60000	148	60170	147	60538	151	61028	86	61080	87	61132	88	61184	88
59752	59	60001	144	60171	147	60539	151	61029	86	61081	87	61133	88	61185	88
59753	59	60006	144	60172	147	60540	151	61030	86	61082	87	61134	88	61186	88
59754	59	60011	144	60180	147	60541	151	61031	86	61083	87	61135	88	61187	88
59900	55	60012	144	60181	147	60542	151	61032	86	61084	87	61136	88	61188	88
59901	55	60013	144	60182	147	60560	151	61033	86	61085	87	61137	88	61189	88
59902	55	60014	144	60190	147	60561	151	61034	86	61086	87	61138	88	61190	88
59903	55	60020	144	60195	147	60562	151	61035	86	61087	87	61139	88	61191	88
59904	55	60025	144	60196	147	60563	151	61036	86	61088	87	61140	88	61192	88
59905	55	60035	144	60200	148	60564	151	61037	86	61089	87	61141	88	61193	88
59906	55	60037	144	60201	148	60565	151	61038	86	61090	87	61142	88	61194	88
59907	55	60038	144	60202	148	60575	152	61039	86	61091	87	61143	88	61195	88
59910	55	60039	144	60203	148	60576	152	61040	86	61092	87	61144	88	61196	88
59911	55	60040	144	60204	148	60577	152	61041	86	61093	87	61145	88	61197	88
59912	55	60041	144	60205	148	60578	152	61042	86	61094	87	61146	88	61198	88
59913	55	60043	154	60206	148	60579	152	61043	86	61095	87	61147	88	61199	88
59914	55	60050	144	60207	148	60580	152	61044	86	61096	87	61148	88	61200	88

PRODUCT INDEX

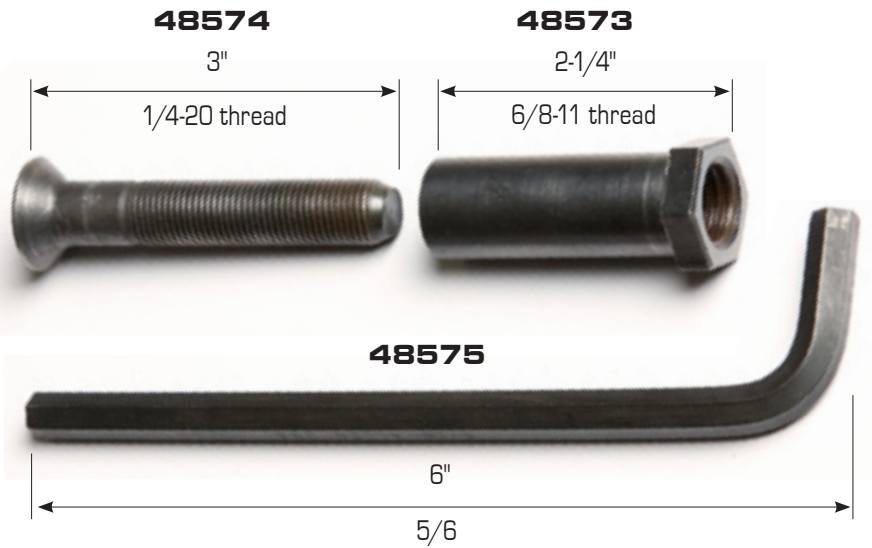
PRODUCT INDEX

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
61201	88	61253	89	61305	89	61546	87	61598	88	62023	138	62148	140	62366	139
61202	88	61254	89	61306	89	61547	87	61599	88	62025	138	62149	140	62376	139
61203	88	61255	89	61307	89	61548	87	61600	88	62028	138	62150	140	62377	139
61204	88	61256	89	61308	89	61549	87	61601	88	62029	138	62153	141	62379	139
61205	88	61257	89	61309	89	61550	87	61602	88	62030	138	62154	141	62381	139
61206	88	61258	89	61310	89	61551	87	61603	88	62033	138	62161	141	62383	139
61207	88	61259	89	61500	86	61552	87	61604	88	62036	138	62162	141	62385	139
61208	88	61260	89	61501	86	61553	87	61605	88	62039	138	62163	141	62386	139
61209	88	61261	89	61502	86	61554	87	61606	88	62049	138	62165	141	62387	139
61210	88	61262	89	61503	86	61555	87	61607	88	62050	138	62166	141	62388	139
61211	88	61263	89	61504	86	61556	87	61608	88	62053	138	62168	141	62391	139
61212	88	61264	89	61505	86	61557	87	61609	88	62057	138	62169	141	62394	139
61213	88	61265	89	61506	86	61558	87	61610	88	62065	139	62173	141	62395	139
61214	88	61266	89	61507	86	61559	87	61611	88	62066	139	62177	141	62403	139
61215	88	61267	89	61508	86	61560	87	61612	88	62076	139	62178	141	62404	139
61216	88	61268	89	61509	86	61561	87	61613	88	62077	139	62179	141	62405	139
61217	88	61269	89	61510	86	61562	87	61614	88	62079	139	62180	141	62407	139
61218	88	61270	89	61511	86	61563	87	61615	88	62081	139	62181	141	62408	139
61219	88	61271	89	61512	86	61564	87	61616	88	62083	139	62186	141	62410	139
61220	88	61272	89	61513	86	61565	87	61617	88	62086	139	62187	141	62411	139
61221	88	61273	89	61514	86	61566	87	61618	88	62087	139	62193	142	62412	139
61222	88	61274	89	61515	86	61567	87	61619	88	62088	139	62194	142	62413	139
61223	88	61275	89	61516	86	61568	87	61620	89	62091	139	62198	142	62416	140
61224	88	61276	89	61517	86	61569	87	61621	89	62094	139	62199	142	62422	140
61225	88	61277	89	61518	86	61570	87	61622	89	62095	139	62202	142	62423	140
61226	88	61278	89	61519	86	61571	87	61623	89	62103	139	62205	142	62424	140
61227	88	61279	89	61520	86	61572	87	61624	89	62104	139	62206	142	62425	140
61228	88	61280	89	61521	86	61573	87	61625	89	62105	139	62209	142	62426	140
61229	88	61281	89	61522	86	61574	87	61626	89	62107	139	62210	142	62427	140
61230	88	61282	89	61523	86	61575	87	61627	89	62108	139	62211	142	62428	140
61231	88	61283	89	61524	86	61576	87	61628	89	62110	139	62222	142	62429	140
61232	88	61284	89	61525	86	61577	87	61629	89	62111	139	62224	142	62430	140
61233	88	61285	89	61526	86	61578	88	61630	89	62112	139	62226	142	62432	140
61234	88	61286	89	61527	86	61579	88	61631	89	62113	139	62301	138	62439	140
61235	89	61287	89	61528	86	61580	88	61632	89	62116	140	62305	138	62440	140
61236	89	61288	89	61529	86	61581	88	61633	89	62122	140	62308	138	62441	140
61237	89	61289	89	61530	86	61582	88	61634	89	62123	140	62318	138	62442	140
61238	89	61290	89	61531	86	61583	88	61635	89	62124	140	62319	138	62443	140
61239	89	61291	89	61532	86	61584	88	61636	89	62125	140	62321	138	62446	140
61240	89	61292	89	61533	86	61585	88	61637	89	62126	140	62323	138	62447	140
61241	89	61293	89	61534	86	61586	88	61700	88	62127	140	62325	138	62448	140
61242	89	61294	89	61535	86	61587	88	61701	88	62128	140	62328	138	62449	140
61243	89	61295	89	61536	87	61588	88	61702	88	62129	140	62329	138	62450	140
61244	89	61296	89	61537	87	61589	88	61703	88	62130	140	62330	138	62453	141
61245	89	61297	89	61538	87	61590	88	61704	88	62132	140	62333	138	62454	141
61246	89	61298	89	61539	87	61591	88	61705	88	62139	140	62336	138	62461	141
61247	89	61299	89	61540	87	61592	88	62001	138	62140	140	62339	138	62462	141
61248	89	61300	89	61541	87	61593	88	62005	138	62141	140	62349	138	62463	141
61249	89	61301	89	61542	87	61594	88	62008	138	62142	140	62350	138	62465	141
61250	89	61302	89	61543	87	61595	88	62018	138	62143	140	62353	138	62466	141
61251	89	61303	89	61544	87	61596	88	62019	138	62146	140	62357	138	62468	141
61252	89	61304	89	61545	87	61597	88	62021	138	62147	140	62365	139	62469	141

UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #	UPC #	Page #
62473	141	63027	70	70004	100	70058	64	70110	130	70224	134	72046	96
62477	141	63028	70	70005	100	70059	64	70111	128	70225	134	72047	96
62478	141	63029	70	70006	100	70060	64	70112	130	71000	60	72050	96
62479	141	63031	70	70007	100	70061	64	70113	130	71001	60	72051	96
62480	141	63032	70	70008	100	70062	64	70114	111	71002	60	72052	96
62481	141	63042	70	70009	100	70063	64	70115	111	71033	60	72053	96
62486	141	63043	70	70010	100	70064	64	70120	26	71034	60	72054	96
62487	141	63044	70	70011	100	70065	64	70121	26	71035	60	72055	96
62493	142	63045	70	70012	100	70066	64	70122	26	71036	60	72056	96
62494	142	63046	70	70013	100	70067	64	70123	26	71040	60	72057	96
62498	142	63047	70	70014	100	70068	64	70124	26	71041	60	72058	96
62499	142	63048	70	70015	100	70069	64	70125	26	71042	60	72059	96
62502	142	63049	70	70016	100	70070	64	70130	94	71043	60	72100	65
62505	142	63051	70	70017	100	70071	64	70131	94	71088	60	72101	65
62506	142	63052	70	70018	100	70072	64	70132	94	71089	60	72102	65
62508	142	63062	70	70019	100	70073	64	70133	94	71090	60	72103	65
62509	142	63063	70	70020	100	70074	64	70134	94	71091	60	72106	65
62510	142	63064	70	70021	100	70075	64	70135	94	71114	60	72107	65
62511	142	63065	70	70022	100	70076	64	70136	94	71115	60	72108	65
62522	142	63066	70	70023	100	70077	64	70137	94	71116	60	72109	65
62524	142	63067	70	70024	100	70078	64	70138	94	71147	60	72110	66
62526	142	63068	70	70025	100	70079	64	70139	94	71148	60	72111	66
62604	138	63069	70	70026	100	70080	64	70140	94	71149	60	72112	66
62608	138	63070	70	70027	100	70081	64	70141	94	71150	60	72113	66
62613	138	63071	70	70028	100	70082	64	70142	94	71151	106	72114	66
62614	138	63072	70	70029	101	70083	64	70143	94	72000	95	72115	66
62621	139	63073	70	70030	101	70084	64	70144	94	72001	95	72116	66
62625	139	63074	70	70031	101	70085	64	70145	94	72002	95	72117	66
62630	139	63075	70	70032	101	70086	64	70146	128	72003	95	72118	66
62634	139	63076	70	70033	101	70087	64	70147	128	72004	95	72119	66
62642	140	63077	70	70034	101	70088	64	70148	94	72005	95	72121	67
62646	140	63078	70	70035	101	70089	64	70149	94	72006	95	72122	67
62654	140	63079	70	70036	101	70090	64	70150	94	72007	95	72123	67
62658	140	63080	70	70037	101	70091	64	70151	94	72008	95	72124	67
62668	142	63081	70	70038	99	70092	64	70152	94	72009	95	72125	67
62669	142	63082	70	70039	99	70093	64	70153	94	72010	95	72126	67
62700	143	63083	70	70040	99	70094	117	70154	95	72011	95	72127	67
63002	70	63084	70	70041	99	70095	117	70155	95	72012	95	72128	67
63003	70	63085	70	70042	99	70096	117	70156	95	72013	95	72129	67
63004	70	63086	70	70043	99	70097	117	70157	95	72014	95	72130	67
63005	70	63087	70	70044	99	70098	124	70159	95	72015	95	72131	67
63006	70	63088	70	70045	99	70099	124	70160	95	72016	95	72132	67
63007	70	63089	70	70046	99	70100	124	70185	26	72017	95	72133	67
63008	70	63090	70	70047	99	70101	124	70186	26	72018	95	72134	67
63009	70	63091	70	70048	99	70102	124	70187	26	72019	95	72135	67
63011	70	63092	70	70049	99	70103	124	70188	26	72020	95	72136	67
63012	70	63095	70	70050	99	70104	124	70189	26	72040	96	75000	65
63022	70	63098	70	70051	99	70105	128	70190	26	72041	96		
63023	70	70000	100	70052	99	70106	128	70211	60	72042	96		
63024	70	70001	100	70053	99	70107	128	70212	60	72043	96		
63025	70	70002	100	70054	99	70108	128	70220	134	72044	96		
63026	70	70003	100	70057	64	70109	128	70221	134	72045	96		

RIGHT ANGLE ADAPTER KIT

Right Angle Adapter Kit **48572**



RIGHT ANGLE ADAPTER KIT



CGW-Camel Grinding Wheels is one of the world's leading suppliers of grinding wheels since 1956. Providing superior quality products (complying with ISO 9001: 2000 standards) and service at competitive prices has led to our rapid world wide growth.

We encourage you to contact a CGW sales representative to obtain samples for testing. You'll immediately realize the advantages CGW offers.



CGW, Camel Grinding Wheels plant in Kibbutz Sarid, Israel





120,000 square foot CGW, Camel Grinding Wheels facility in Nilus, IL USA.

oSa – The Missing Element for Safety

CGW-Camel Grinding Wheels, is a proud member of the international organization oSa (www.osa-abrasives.org).

oSa – the Organization for the Safety of Abrasives – is a society formed by leading international abrasive manufacturers to ensure the quality of their products is consistently high and adheres to standards to minimize risks to product users.

In the year 2000, a collective of European abrasive manufacturers recognized the need for global abrasive safety requirements and created oSa. oSa members voluntarily agree to manufacture market safe and accident-preventing quality abrasives in accordance with European safety standards and oSa testing regulations.

oSa member products are monitored for conformity with the most up-to-date standards and provisions.

Products marked with the oSa logo reflect high-grade production and high safety test standards.

As a member of oSa, CGW excels at minimizing the potential for risk by controlled production, adherence to and implementation of quality assurance measures and thorough in-company production. When purchasing bonded abrasive products, insist the manufacturer is an official oSa member for quality, safe products.



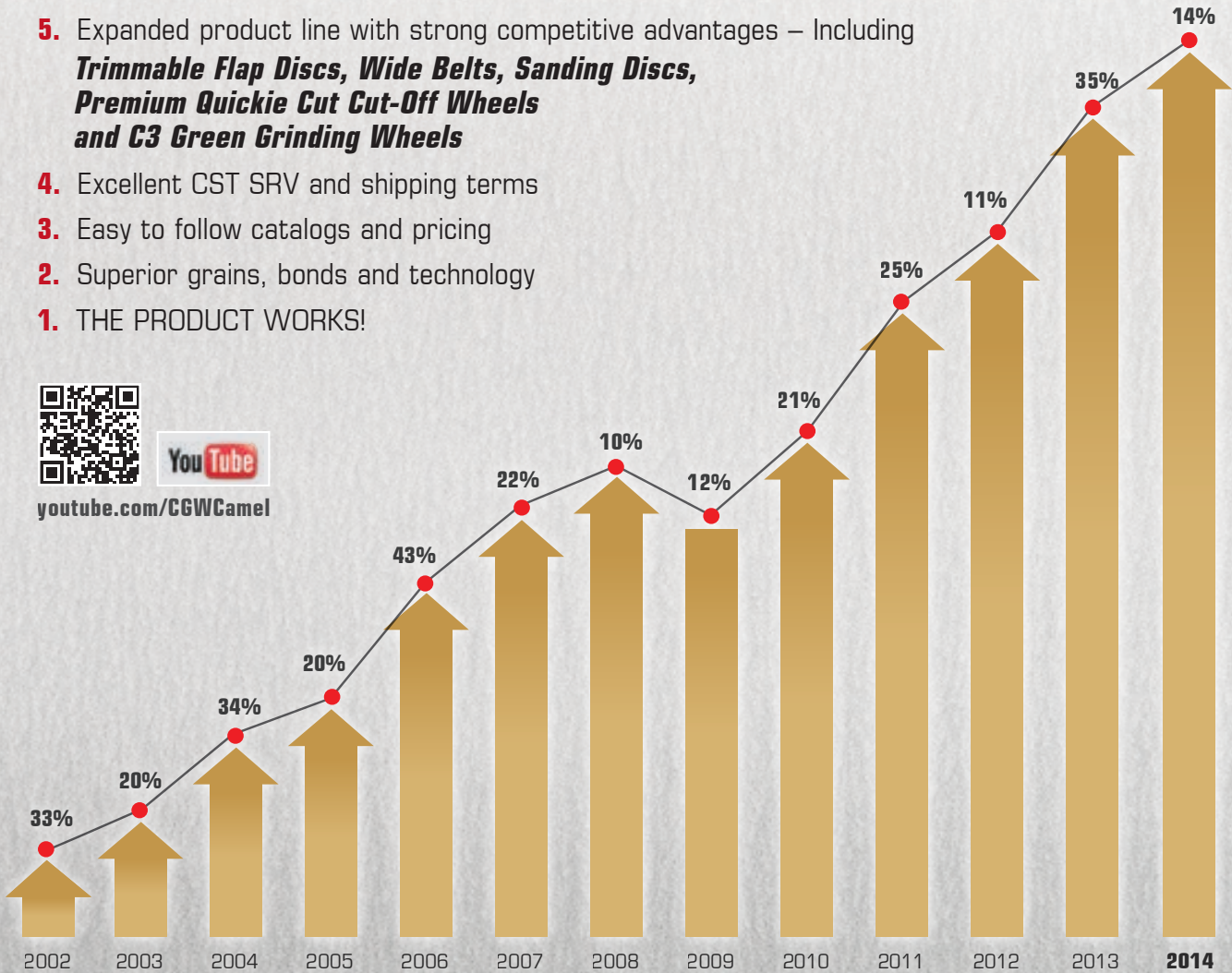
Cutting + Grinding + Sanding Away the Competition

TOP 5 REASONS FOR CGW's RAPID GROWTH

5. Expanded product line with strong competitive advantages – Including *Trimmable Flap Discs, Wide Belts, Sanding Discs, Premium Quickie Cut Cut-Off Wheels and C3 Green Grinding Wheels*
4. Excellent CST SRV and shipping terms
3. Easy to follow catalogs and pricing
2. Superior grains, bonds and technology
1. THE PRODUCT WORKS!

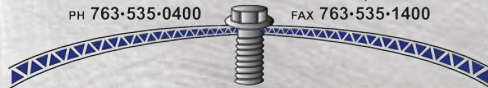


youtube.com/CGWCamel



CLASS C COMPONENTS

6825 SUNWOOD DRIVE N.W. RAMSEY, MN 55303
PH 763-535-0400 FAX 763-535-1400



ISO 9001 Certified Company
www.classccomponents.com
Quality • Service • Versatility

