CGW®

ABRASIVES

PRECISION & ROUGH GRINDING | CUTTING | FINISHING | BLENDING

2026 PRODUCT CATALOG

WHO IS CGW ABRASIVES?

OUR STORY

Founded in Israel in 1956. **Established U.S. operations in 1990.**
Today, we're focused on creating an exceptional customer experience and delivering premium abrasive solutions. We're proud to be oSa certified and committed to the highest standards of manufacturing excellence. From our advanced eXtreme line to a full range of flap discs, grinding wheels, cutting wheels, and coated abrasives, we deliver performance you can trust, backed by a team that's with you every step of the way.



97%
Fill Rate



Stock Items Ship Within
24 Hours



2,500+
Active Stock Items



Product Training Centers
Located in Chicago, IL and Los Angeles, CA



World Class
Product Testing Labs
Competitive & Performance Testing



Expert
R&D
Committed to Ongoing Product Additions and Category Expansions



Adheres to
3 Safety Standards
ANSI, oSa & Israeli Standards Institute



ISO 9000
Compliant

70+ YEARS EXPERIENCE

SOLD IN OVER **50** COUNTRIES

CGW Abrasives has more than 60 years of experience and sells products in more than 50 countries. Active in various industries, including:

- Metal Fabrication
- Construction
- Industrial
- Automotive
- MRO
- Aerospace
- Marine
- General Metal Working

CGW IS WORLDWIDE

OUR COMPANY

- 4 manufacturing & distribution plants in Chicago, California, Israel, & Germany; Approximately 400,000 sq. ft. total
- Training facilities in Chicago & California

OUR PEOPLE

- Over 300 employees
- Extensive field sales and technical application support

RESEARCH & SERVICES

- R&D: large technical staff; world-class testing facilities
- 2,500+ stock Items that ship same day/next day

OUR PROMISE

- Quality products
- Superior performance
- Value you can trust



SAFETY & MANUFACTURING

All products are recognized by the highest safety and manufacturing standards:

The Standards Institution of Israel (SII)

MANUFACTURING FACILITIES

MADE IN USA

CGW is one of the country's leading abrasives manufacturers. Our two facilities in the USA produce over 20,000,000 abrasive products a year.

- Manufactured in the USA
- Engineered In-house
- High-tech Automated Assembly
- In-house Packaging
- State-of-the-art Performance Testing Facilities
- OEM Pricing






ABRASIVE SAFETY TRAINING

CGW offers a comprehensive FREE on-site safety training.

Thousands of angle grinder related injuries are reported each year, injuries that could have been prevented.

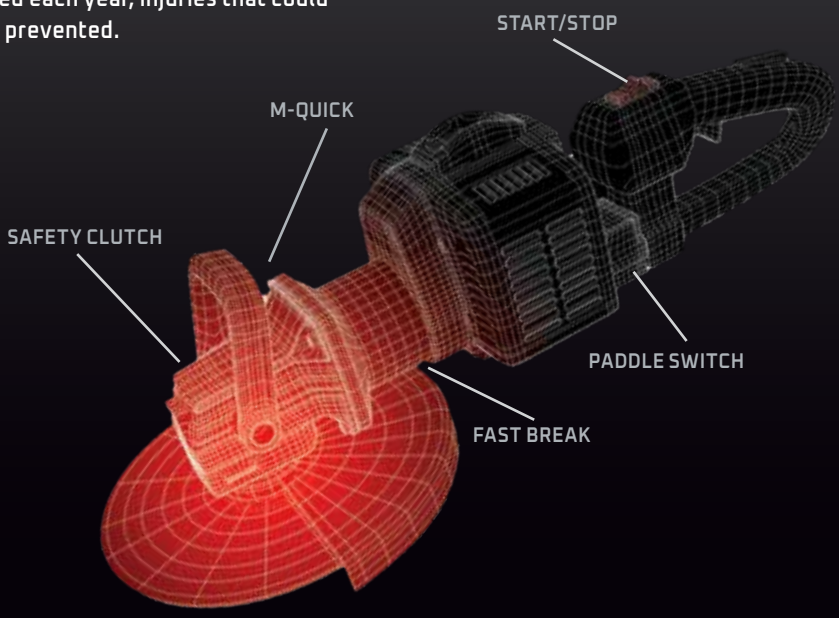
Learn why accidents happen and how to avoid them.

1. Fatigue
2. Rushing to finish a job
3. Lack of awareness of the potential risks
4. Use of the wrong tool or wrong accessories

Accidents Happen... F A S T !

CGW Safety training can help identify warning signs and keep your staff safe.

Reach out to marketing@cgwabrasives to schedule your FREE on-site training today!



IN-PERSON PRODUCT TRAINING

Join us at our Niles, IL headquarters for in-person training classes.

Topics covered include:

- Cut-off Wheels
- Grinding Wheels
- Flap Discs
- Vitrified Products
- Belts
- Discs

Spend dedicated time working with our sales experts to learn all about abrasives, CGW features/benefits, and how to effectively sell our products. Includes classroom and hands-on training.

Our team will assist with arrangements. Attendees are responsible for transportation, however transportation to and from the hotel on training days will be provided as requested.



INTERESTED IN ATTENDING?

Contact your local rep or **marketing@cgwabrasives.com** for current training dates.

SALES & MARKETING SUPPORT

Get the most out of partnering with the world's leading abrasives manufacturer. CGW has a full range of resources available to our customers. Face-to-face support in the field? Social, SEO, SEM? Whatever you need, we can help! Our team is dedicated to your success.



ADVERTISEMENTS & FLYERS

CGW's in-house design team can develop custom flyers, newsletters or shoppers to advertise or educate CGW products to your customer base.



WEBSITE & DIGITAL MARKETING SERVICES

Need website help or looking start a digital marketing program? The CGW Marketing team has the expertise to help you sell online!



FIELD SUPPORT

Our team of abrasive experts is available for field support, training, and application assistance. CGW has representatives strategically located across the country ready to support you!



ANALYTICS & TRACKING

What advertising campaign is complete without tracking? From your first to last touch, CGW can help track your complete customer journey and ROI with in-depth analytics.



OTHER SERVICES

- Targeted display and video
- Amazon Ads
- E-mail Marketing
- Data Lists
- Newsletters/ Shoppers

Contact our marketing team today for your complimentary marketing consultation!

Email marketing@cgwabrasives or call (800) 447-4248

UNLOCK EFFICIENCY & SAVINGS WITH CGW+

End-User Site Evaluations for Process Improvements

The CGW+ program provides tailored solutions to meet your unique application requirements.

By utilizing cutting-edge technology and on-site evaluation, CGW+ enhances high-volume production processes to help customers achieve greater efficiency. This program makes it easier to reach your goals for cost savings and improved productivity.

CGW+ is specifically designed to pinpoint opportunities for immediate improvements that lower the total cost per part, boost productivity, or achieve both.

With CGW+, CGW Abrasives brings its technical expertise directly to your facility, collaborating with your team to create a custom solution that meets your objectives.



Planning & Intro

STAGE PRE

- Identify target end users
- Meet with key decision makers
- Get buy in for site evaluations
- Discover pain points or needs of user

Site Evaluation

STAGE 1

- Observe current operation
- Identify tools and abrasives being used
- Identify material and application
- Understand finish reauirements

Solution Development

STAGE 2

- Benchmark current abrasives
- Life, removal, piece count, cut rate, finish, usage
- Internal testing to identify process improvements
- Find optimal products to rationalize skus

Proposal

STAGE 3

- Present test results to key decision makers
- Cost savings analysis
- Supply chain plan
- Schedule date for onsite testing

Onsite Testing

STAGE 4

- Technical support for testing
- Track performance to show improvements and cost savings
- Get buy in from operators
- Look for other improvements and make recommendations

Implementation

STAGE 5

- Burn through existing stock of competitors
- Build proper stock levels of new skus
- Technical support for roll out
- Track usage to ensure production savings

Follow up

STAGE 6

- Quarterly follow-up
- Continue end user support
- Look for other process improvement opportunities

Call your CGW representative for more details.

800.447.4248 | CGWAbrasives.com | orders@cgwabrasives.com

CGW IS HERE TO HELP!

APPLICATION QUESTIONS? **A-T-M**

Just answer these simple questions (**A-T-M**) and we'll help you find the right product for any application.

APPLICATION?	TOOL?	MATERIAL?	
Cutting, blending, grinding or finishing?	What type of tool/machine are you using? Electronic or Pneumatic?	Steel, stainless, non-ferrous, aluminum, etc? What material are you workin on?	CGW PRODUCT



ADDITIONAL CGW FIELD SALES SUPPORT

70+ reps located across the country to help serve you.

- Tool recommendations
- Cost analysis
- Process improvements
- Safety training
- Abrasive training

Sales Support
1-800-447-4248

CGW APPAREL



Rise & Grind White Pull Over Hoodie
Multiple Sizes Available



Every Cut Counts
Multiple Sizes Available



CGW American Flag Cap
Multiple Sizes Available

RETAIL MERCHANDISING

CGW Abrasives offers a full line of merchandising options to organize your specific product mix. Our display systems and merchandising pieces are designed to make your customers shopping experience clean and easy

We also recognize that no one solution fits the needs of every retail setting. If you need something specific, please reach out to your CGW representative for help.

Contact your CGW rep or **marketing@cgwabrasives.com** for details.

Reference code **"RETAIL DISPLAY"** on your order.

Tower Display | IT# 92002

26" W x 70" H | Holds Up to 432 qty 4.5 In Flap Discs

Contact your rep for availability



Wall System | IT# 99143

48" W x 84" H | Planogram Assistance Available

Contact your rep for availability



Counter Mat IT # 90004

30" W x 12" H

Contact your rep for availability





eXtreme II Point of Sale

7.5" W x 9.5" H x 9.5" D | Holds up to 30 Flap Discs

Contact your rep for availability



Tabletop Display

14" W x 20" H
Holds up to 144 Qty 4.5" Flap Discs

Lightning Cut/Clear | It# 99145

eXtreme II/Purple | It# 99144

Quickie, Pipeline Grind/Orange | It# 99146

Contact your rep for availability

Horizontal Selection Card
It# 99131

30" W 12" H

Branded Wall Card
IT# 99135

24" W 8" H

3 CT Abrasive Vertical Cards | IT# 99133

11" W x 8.5" H

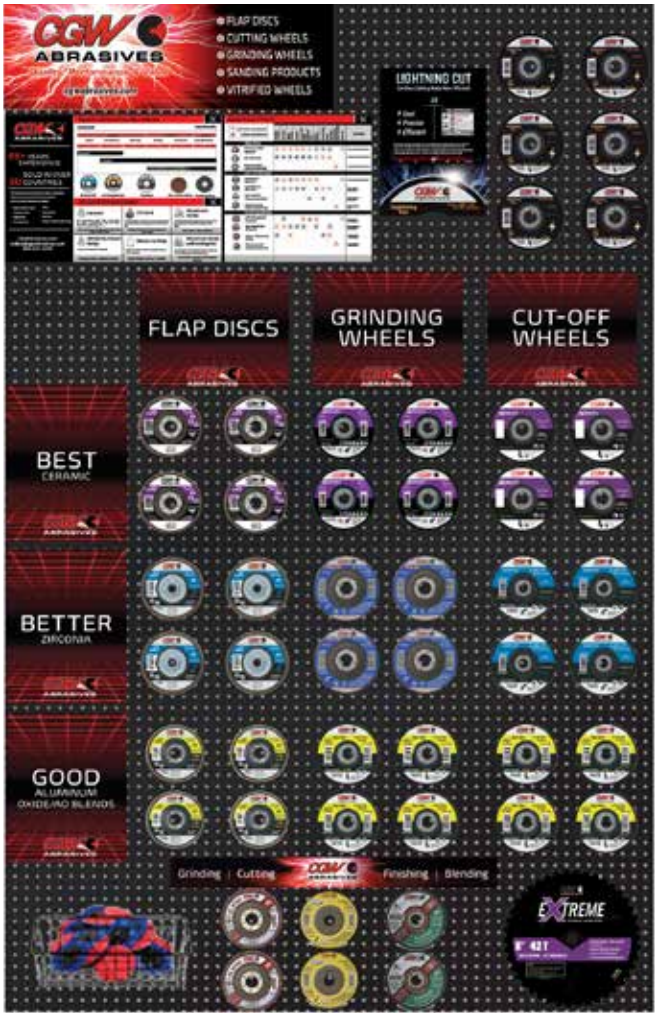
3 CT Good/Better/Best Cards
It# 99132

8.5" W x 11" H



Refill Hanger | IT# 99077

5.5" Dia.



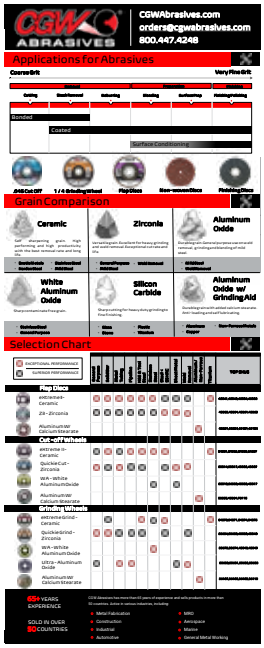
Vertical Selection Card
It# 99130

12" W x 30" H

Contact your rep for availability



Vertical Selection Card has slim display profile



Thin Branded Wall Card | IT# 99136

24"W x 2"H

Contact your Rep for availability



Banner | IT# 99134

48"W x 24"H

Contact your Rep for availability

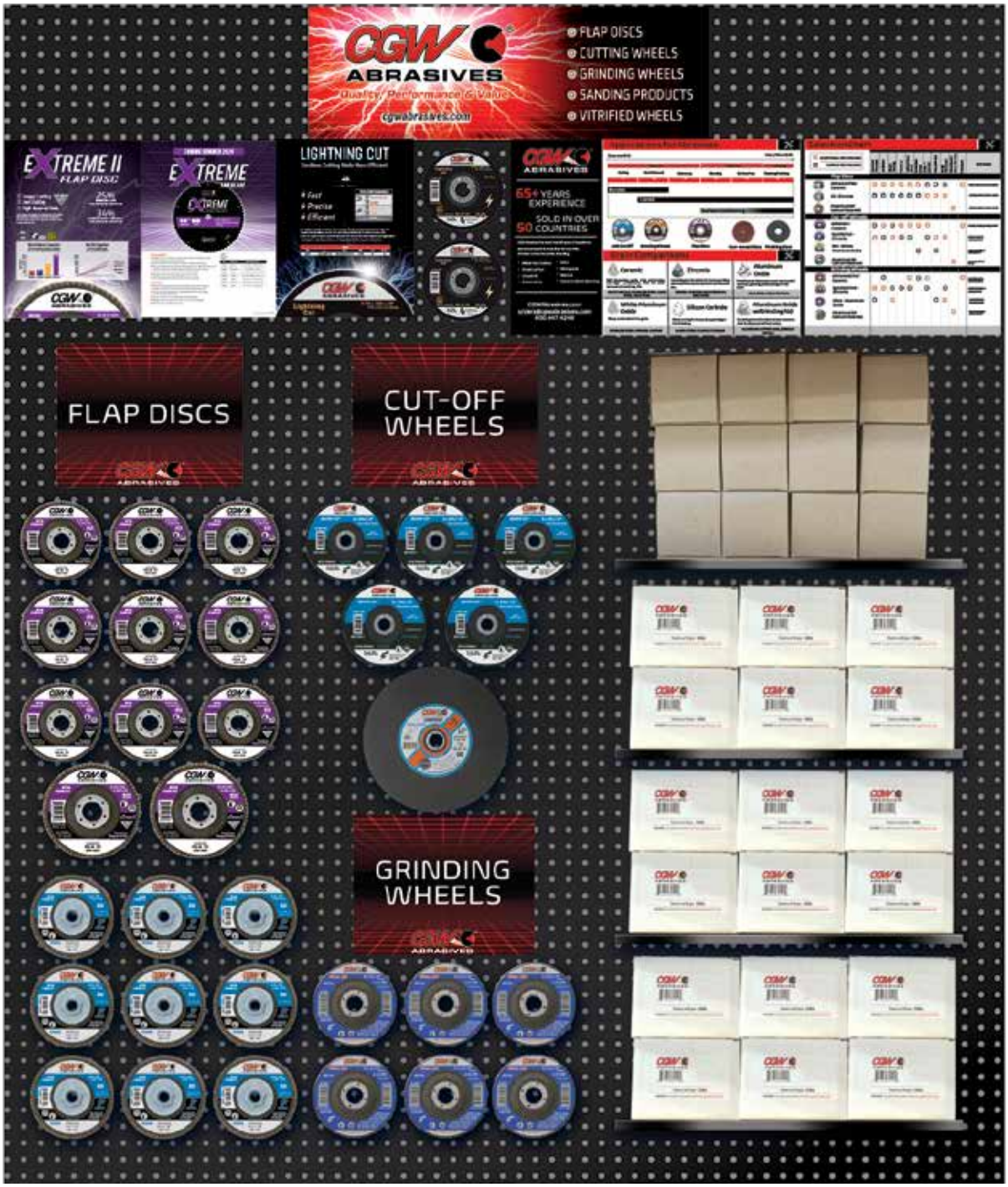


CUSTOM PLANOGRAMS AVAILABLE

CGW recognizes that not all customers are created equal. Need help putting together a retail planogram that fits your particular product mix? We can help. Belt bins, specialized shelving, custom retail marketing pieces...we are here to help. Contact **marketing@cgwabrasives.com** to get started today.

PLANOGRAM: Brown Welding Supply,
Store A, 8/21/2024

BROWN
WELDING SUPPLY



INTRODUCING

CGW's NEW ***EXTREME*** LINE OF PREMIUM ABRASIVES

THE NEW STANDARD IN CUTTING, GRINDING, BLENDING & POLISHING

CGW's ***EXTREME*** abrasives are built for serious professionals who demand maximum performance and unmatched results. Powered by a new and improved ceramic grain formula, these high-performance abrasives deliver:

Up to 50% Higher Material Removal Rate vs. the competition

Longer Life – Spend less time changing wheels

Faster Cutting Action – Boost productivity with every pass

Reduced Heat from Friction – Helps preserve workpiece integrity

Minimal Burr Formation – Cleaner cuts, less rework



CGW PRODUCT HIGHLIGHTS



FLAP DISCS &
SPECIALTY FLAP DISCS

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SURFACE CONDITIONING

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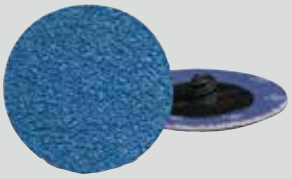
SEMI-FLEX DISCS

31



FIBER DISCS

32



QUICK CHANGE DISCS

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FLAP WHEELS

39



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NEW EXTREME SAW BLADE

48



CUTTING WHEELS

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GRINDING WHEELS

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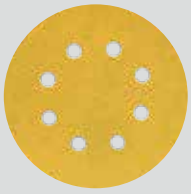
RESIN CONES, PLUGS,
CUP WHEELS

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DIAMOND WHEELS

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SANDING DISCS

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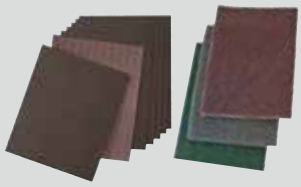
EXTREME SANDING DISCS

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SHOP ROLLS

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SHEET & HAND PADS

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BELTS

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WIRE BRUSHES

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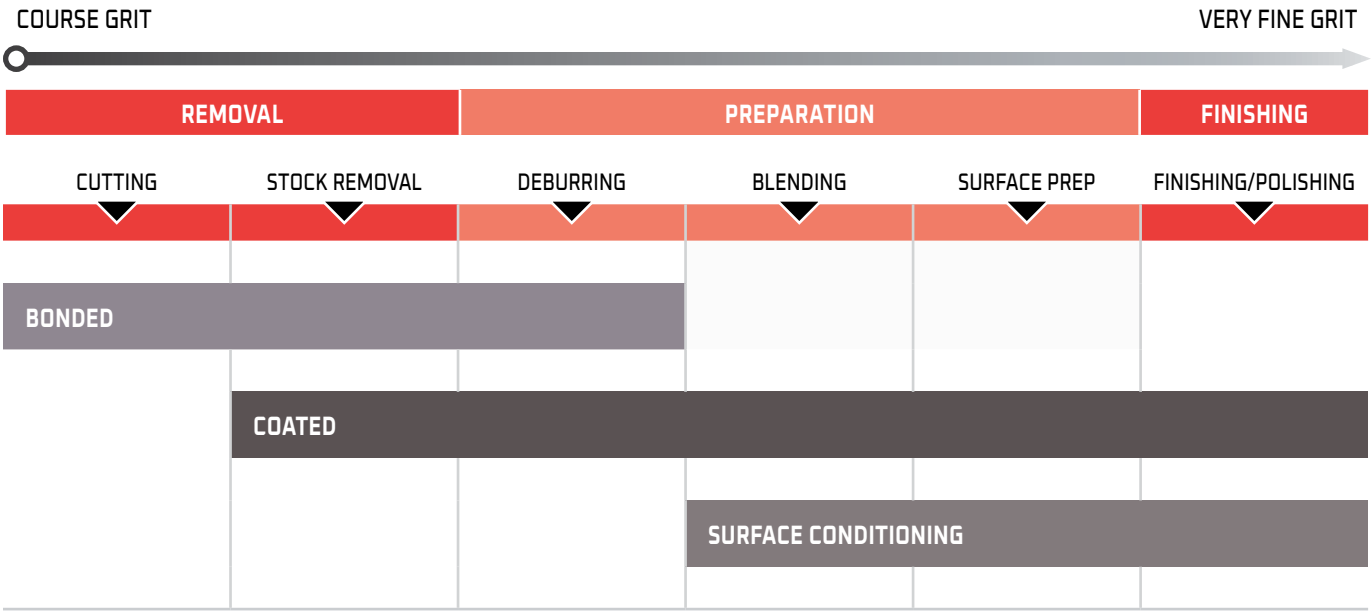
PRECISION GRINDING
VITRIFIED WHEELS

99



TOOL & CUTTER WHEELS

115





.045 Cut Off



1/4 Grinding Wheel



Flap Discs

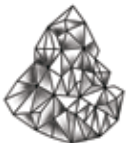


Non-woven Discs



Finishing Discs

GRAIN COMPARISON



CERAMIC

Self sharpening grain. High performing and high productivity with the best removal rate and long life.

Exotic Metals | Stainless Steel | Hard Steel | Mild Steel



ZIRCONIA

Versatile grain. Excellent for heavy grinding and weld removal. Exceptional cut rate and life.

General Purpose | Weld Removal Mild Steel



ALUMINUM OXIDE

Durable grain. General purpose use on weld removal, grinding and blending of mild steel.

Mild Steel | Weld Removal



WHITE ALUMINUM OXIDE

Sharp contaminate free grain.

Stainless Steel | General Purpose



SILICON CARBIDE

Sharp cutting for heavy duty grinding to fine finishing.

Glass | Stone | Plastic | Titanium



ALUMINUM OXIDE W/GRINDING AID

Durable grain with added calcium stearate. Anti-loading and self lubricating.

Aluminum | Copper | Non-Ferrous Metals

		General Purpose	Solid Bar	Metal Tubing	Pipeline	HSS & Tool Steel	Stainless Steel	Steel < 55 HRC	Sheet Metal	Weld Removal	Aluminum / Non-Ferrous	Titanium	TOP SKUS
★ EXCEPTIONAL PERFORMANCE ★ SUPERIOR PERFORMANCE													
FLAP DISCS													
	eXtreme II PSG Ceramic	★	★	★	★	★	★	★	★	★	★	★	42841, 42842, 42884, 42882
	Z3 Zirconia	★	★	★	★	★	★	★	★	★			42302, 42304, 42361, 42362
	Aluminum w/ Calcium Stearate										★		43081, 43084, 43101, 43104
CUT-OFF WHEELS													
	eXtreme II Ceramic	★	★	★	★	★	★	★				★	54281,54282, 54283,54287
	Quickie Cut - Zirconia	★	★	★	★	★		★	★	★			35514, 35517, 45002, 45007
	WA-White Aluminum Oxide						★		★				35515, 36302, 45003, 45017
	Aluminum w/ Calcium Stearate										★		53255, 45004, 70115
GRINDING WHEELS													
	eXtreme Grind-Ceramic		★			★	★	★				★	54270, 54271, 54274, 54275
	Quickie Grind-Zirconia	★	★	★	★	★	★	★		★			35624, 35625, 45039, 45040
	Aluminum w/ Calcium Stearate										★		36107, 36108, 36109, 36110
	Ultra-Aluminum Oxide	★		★	★				★	★			35620, 35621, 35632, 35633



BLENDING/LIGHT GRINDING/POLISHING CONTENT

FLAP DISCS	16
SPECIALTY FLAP DISCS	23
BUFFING/SURFACE PREP DISCS	27
SEMI-FLEX DISCS	31
FIBER DISCS	32
QUICK CHANGE DISCS	36
FLAP WHEELS	39



FEATURED PRODUCT

Extreme II

The sharpest flap disc on the market.

- Longer Lasting
- Precise
- High Removal Rate

PAGE 12

CGW FLAP DISCS REMOVE

25% MORE

MATERIAL THAN OUR CLOSEST COMPETITOR

READING FLAP DISC SPECIFICATIONS



MAXIMUM OPERATING SPEED

80 m/s, MAX.
13,300 R.P.M.

ABRASIVE GRAIN GUIDE

Precision Shaped Grain

WHEEL SIZE

4-1/2" x 7/8"
WIDTH ARBOR

GRIT

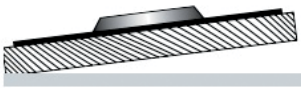
36

TYPE

T-27

GRAIN SIZE	
COARSE	8, 10, 12, 14, 16, 20, 24
MEDIUM	30, 36, 40, 46, 54, 60
FINE	80, 100, 120, 150, 180
VERY FINE	220, 240, 320, 400, 600

TYPE 27



GRIND AT FLATTER ANGLES:
0° – 15°

TYPE 29



GRIND AT STEEPER ANGLES:
15° – 25°

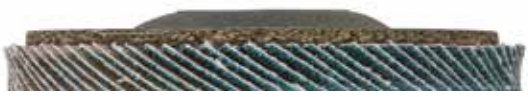
REGULAR

Firm grip and softer feel



XL

More Flaps and 35% more life



POLISHING/LIGHT GRINDING ICONS EXPLAINED

WHEEL TYPES

Type 27



Depressed center cut-off wheel for more versatile applications

Type 29



Depressed center with a curved angle ideal for steeper applications

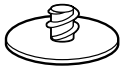
TOOL TYPES







DIE GRINDER FASTENING TYPES


Roll-On


Turn-On

CERTIFICATIONS

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

Contaminant free certification for rust & corrosion free results

MADE IN USA

All Flap Discs are made by CGW at our Chicagoland plant

FLAP DISCS



BEST

BEST PRODUCTIVITY



BETTER

BEST SELLER



GOOD

BEST VALUE

FLAP DISC APPLICATION CHART

Grain	Steel	Stainless Steel	Aluminum	Copper	Bronze	All-Purpose
PSG	○	○				○
Zirconia	●	●				●
Aluminum W/ Grinding Aid			○	○	○	

○=Maximum Output ●=Ideal Output

CROSS REFERENCE CHART / FLAP DISCS



eXtreme II PSG



eXtra Z3 Zirconia



Fast Cut



Al Edge Aluminum w/GrindingAid

	BEST	BETTER	GOOD	SPECIALTY
NORTON SAINT-GOBAIN	**BLAZE** R980P, **BLAZE**	**Gemini** R766, **BlueFire** R860, **Charger** R822/R842	**Gemini** R766, R822/R766, **Metal** R828	✕
3M	**Cubitron** 769F,967A, 969F	**577F**	✕	✕
FLOXOVIT	Zircotex Ceramic	Zircotex, Zircomax, Tornado	✕	✕
DEWALT	XP Ceramic	✕	HP High Performance, WP Extended	✕
METABO	Ceramic Flapper	Flapper Plus	Original Flapper	✕
PEARL	Redline Maxidics, Stainlessmax	Premium Zirconia Maxidiscs	Polifan Z SG	Polifan SG INOX+ALU
PFERD	Polifan CO-COOL SG. Polifan CO-FREEZE INOX	Polifan Z SG	Polifan Z PSF	Polifan SG INOX+ALU
SAIT	Encore Ceramic, Ovation Ceramic, Ovation Stainless	Encore ZA, Encore Plus, Ovation, Ovation Attacker, Ovation Plus	✕	✕
WALTER SURFACE TECHNOLOGIES	Enduro-Flex Turbo, Enduro-Flex Stainless	✕	✕	Enduro-Flex ALU.
WEILER	Tiger Ceramic, Tiger X	Tiger Paw	Wolverine	Tiger Aluminum
ARC	Ambush	Predator	Zirconia Alumina	✕

CROSS REFERENCE CHART / RESIN FIBER DISCS



eXtreme Ceramic Fiber Discs



eXtreme EZ-Grind: Fiber x Grinding Wheel



Zirconia Fiber Discs



Aluminum Oxide Fiber Discs

	BEST		BETTER	GOOD
NORTON SAINT-GOBAIN	**BLAZE** F980, **BLAZE** F970	⊗	**Gemini** R766, R822/R766 **Metal** R828	⊗
3M	982C, 987C, 787C, 1187C, 1182C	⊗	⊗	782C, 381C
ARC	Performance Coated Predator	⊗	Zirc	AO
DEWALT	XP3	⊗	Zirc w/Coolant	AO
METABO	⊗	Speed Flex	⊗	⊗
PEARL	SRT Max	⊗	HD Zirc	Silverline AO, Premium AO
PFERD	Victograin	CC-Grind	Zirconia, Z	A-Cool
SAIT	7S Ceramic, 7II Ceramic, 9S Ceramic, Powermax	⊗	AZ-X, Z, 3Z	AO, 2A, 3A
WALTER SURFACE TECHNOLOGIES	Coolcut XX	⊗	Coolcut	Topcut
WEILER	Tiger Ceramic	⊗	Tiger Zirc	Wolverine

eXTREME II
FLAP DISC

- Longer Lasting
- Fast Cutting
- High Removal Rate



The sharpest flap disc on the market. Precision Shaped Grain (PSG) stays sharper longer for more productivity. The result is a cooler, faster & more durable cut.

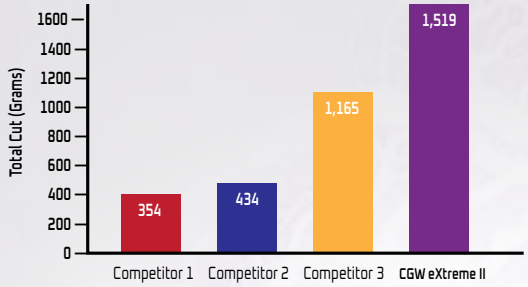
25%
MORE DISC LIFE
THAN OUR NEAREST COMPETITOR

34%
MORE MATERIAL REMOVAL
THAN OUR NEAREST COMPETITOR



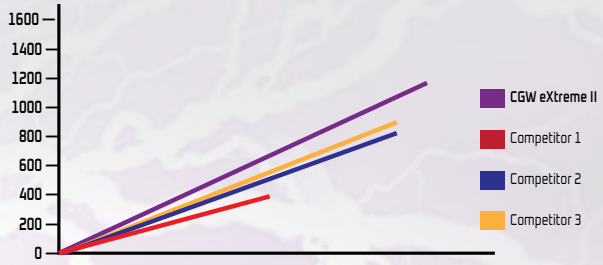
Material Removal Comparison

eXtreme II, plastic back flap discs, out-performs and removes more material than the competition



Disc LIfe Comparison

eXtreme II, by CGW Abrasives lasts longer than the competition



CGW® ABRASIVES

METAL **80 M/S, MAX.**

EXTREME II FLAP DISCS BEST

eXtreme II | PSG | Type 27 | Regular				
SKU	Size	Grit	RPM	Box Qty
42840	4-1/2 x 7/8	36	13,300	10
42841	4-1/2 x 7/8	40	13,300	10
42842	4-1/2 x 7/8	60	13,300	10
42843	4-1/2 x 7/8	80	13,300	10
43840	4-1/2 x 5/8-11	36	13,300	10
43841	4-1/2 x 5/8-11	40	13,300	10
43842	4-1/2 x 5/8-11	60	13,300	10
43843	4-1/2 x 5/8-11	80	13,300	10
43880	5 x 7/8	36	12,200	10
43881	5 x 7/8	40	12,200	10
43882	5 x 7/8	60	12,200	10
43930	6 X 7/8	36	10,200	10
43931	6 X 7/8	40	10,200	10
43932	6 X 7/8	60	10,200	10
43933	6 X 7/8	80	10,200	10
44000	7 X 7/8	36	8,600	10
44001	7 X 7/8	40	8,600	10
44002	7 X 7/8	60	8,600	10
44003	7 X 7/8	80	8,600	10
44100	7 X 5/8-11	36	8,600	10
44101	7 X 5/8-11	40	8,600	10
44102	7 X 5/8-11	60	8,600	10
44103	7 X 5/8-11	80	8,600	10

eXtreme II | PSG, | Type 29 | Regular				
SKU	Size	Grit	RPM	Box Qty
42851	4-1/2 x 7/8	40	13,300	10
42852	4-1/2 x 7/8	60	13,300	10
42853	4-1/2 x 7/8	80	13,300	10
43851	4-1/2 x 5/8-11	40	13,300	10
43852	4-1/2 x 5/8-11	60	13,300	10
43853	4-1/2 x 5/8-11	80	13,300	10
44010	7 X 7/8	36	8,600	10
44011	7 X 7/8	40	8,600	10
44012	7 X 7/8	60	8,600	10
44013	7 X 7/8	80	8,600	10
44110	7 X 5/8-11	36	8,600	10
44111	7 X 5/8-11	40	8,600	10
44112	7 X 5/8-11	60	8,600	10
44113	7 X 5/8-11	80	8,600	10

eXtreme II | PSG | Plastic Back | Regular				
SKU	Size	Grit	RPM	Box Qty
42881	4-1/2 x 5/8-11	40	13,300	10
42882	4-1/2 x 5/8-11	60	13,300	10
42883	4-1/2 x 5/8-11	80	13,300	10
43911	5 x 5/8-11	40	12,200	10
43912	5 x 5/8-11	60	12,200	10
43913	5 x 5/8-11	80	12,200	10
43920	6 X 5/8-11	36	10,200	10
43921	6 x 5/8-11	40	10,200	10
43922	6 x 5/8-11	60	10,200	10
43923	6 x 5/8-11	80	10,200	10
44021	7 X 5/8-11	40	8,600	10
44022	7 X 5/8-11	60	8,600	10
44023	7 X 5/8-11	80	8,600	10

EXTREME II XL FLAP DISCS BEST

eXtreme II | PSG | Type 27 | XL				
SKU	Size	Grit	RPM	Box Qty
42860	4-1/2 x 7/8	36	13,300	10
42861	4-1/2 x 7/8	40	13,300	10
42862	4-1/2 x 7/8	60	13,300	10
42863	4-1/2 x 7/8	80	13,300	10
43860	4-1/2 x 5/8-11	36	13,300	10
43861	4-1/2 x 5/8-11	40	13,300	10
43862	4-1/2 x 5/8-11	60	13,300	10
43863	4-1/2 x 5/8-11	80	13,300	10
43900	5 x 7/8	36	12,200	10
43901	5 x 7/8	40	12,200	10
43902	5 x 7/8	60	12,200	10

eXtreme II | PSG | Type 29 | XL				
SKU	Size	Grit	RPM	Box Qty
42871	4-1/2 x 7/8	40	13,300	10
42872	4-1/2 x 7/8	60	13,300	10
42873	4-1/2 x 7/8	80	13,300	10
43871	4-1/2 x 5/8-11	40	13,300	10
43872	4-1/2 x 5/8-11	60	13,300	10
43873	4-1/2 x 5/8-11	80	13,300	10

C3 CERAMIC FLAP DISCS

CERAMIC

- Self-sharpening high performance ceramic grain with a grinding aid for fast, aggressive cutting action.
- Ceramic flap discs are designed to last longer than zirconia flap discs.
- Polyester backing material for extra long life.
- Ceramic grain provides Contaminant-Free results; stainless steel will not rust.
- For steel and stainless and other heat sensitive materials.





Type 27

USA MADE

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

Right Angle Grinder



7/8 arbor



5/8-11 hub

eXtreme | Ceramic | Type 27 | Regular

SKU	Size	Grit	RPM	Box Qty
42401	4-1/2 x 7/8	36	13,300	10
42402	4-1/2 x 7/8	40	13,300	10
42404	4-1/2 x 7/8	60	13,300	10
42405	4-1/2 x 7/8	80	13,300	10
42411	4-1/2 x 5/8-11	36	13,300	10
42412	4-1/2 x 5/8-11	40	13,300	10
42414	4-1/2 x 5/8-11	60	13,300	10
42415	4-1/2 x 5/8-11	80	13,300	10

SKU	Size	Grit	RPM	Box Qty
42801	7 x 7/8	36	8,600	10
42802	7 x 7/8	40	8,600	10
42804	7 x 7/8	60	8,600	10
42805	7 x 7/8	80	8,600	10
42811	7 x 5/8-11	36	8,600	10
42812	7 x 5/8-11	40	8,600	10

Type 27 XL

eXtreme | Ceramic | Type 27 | XL

SKU	Size	Grit	RPM	Box Qty
42441	4-1/2 x 7/8	36	13,300	10
42442	4-1/2 x 7/8	40	13,300	10
42444	4-1/2 x 7/8	60	13,300	10
42445	4-1/2 x 7/8	80	13,300	10
42451	4-1/2 x 5/8-11	36	13,300	10
42452	4-1/2 x 5/8-11	40	13,300	10
42454	4-1/2 x 5/8-11	60	13,300	10
42455	4-1/2 x 5/8-11	80	13,300	10

Type 29

eXtreme | Ceramic | Type 29 | Regular

SKU	Size	Grit	RPM	Box Qty
42821	7 x 7/8	36	8,600	10
42822	7 x 7/8	40	8,600	10
42831	7 x 5/8-11	36	8,600	10
42832	7 x 5/8-11	40	8,600	10

eXtra

Z3® ZIRCONIA FLAP DISCS

BETTER | **ZIRCONIA**

- Premium Zirconia alumina grain on a poly/cotton backing. The poly/cotton combination provides both durability and finish while the Zirconia grain provides high stock removal.
- Fastest stock removal in the marketplace for steel applications.
- Recommended for aggressive use and heavy-duty applications.
- Active grinding aid provides cool cutting with light pressure.





Type 27

USA MADE

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

Right Angle Grinder



XL flap disc, T27



Regular flap disc, T29

eXtra | Zirconia | Type 27 | Regular

SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
42102	4 x 5/8	36	15,300	10	42505	5 x 7/8	80	12,200	10
42103	4 x 5/8	40	15,300	10	42511	5 x 5/8-11	36	12,200	10
42104	4 x 5/8	60	15,300	10	42512	5 x 5/8-11	40	12,200	10
42105	4 x 5/8	80	15,300	10	42514	5 x 5/8-11	60	12,200	10
42106	4 x 5/8	120	15,300	10	53001	6 x 7/8	36	10,200	10
42112	4 x 3/8-24	40	15,300	10	53002	6 x 7/8	40	10,200	10
42114	4 x 3/8-24	60	15,300	10	53004	6 x 7/8	60	10,200	10
42300	4-1/2 x 7/8	24	13,300	10	53006	6 x 7/8	120	10,200	10
42301	4-1/2 x 7/8	36	13,300	10	53011	6 x 5/8-11	36	10,200	10
42302	4-1/2 x 7/8	40	13,300	10	53012	6 x 5/8-11	40	10,200	10
42304	4-1/2 x 7/8	60	13,300	10	53114	6 x 5/8-11	60	10,200	10
42305	4-1/2 x 7/8	80	13,300	10	53015	6 x 5/8-11	80	10,200	10
42306	4-1/2 x 7/8	120	13,300	10	42701	7 x 7/8	36	8,600	10
42310	4-1/2 x 5/8-11	24	13,300	10	42702	7 x 7/8	40	8,600	10
42311	4-1/2 x 5/8-11	36	13,300	10	42704	7 x 7/8	60	8,600	10
42312	4-1/2 x 5/8-11	40	13,300	10	42705	7 x 7/8	80	8,600	10
42314	4-1/2 x 5/8-11	60	13,300	10	42706	7 x 7/8	120	8,600	10
42315	4-1/2 x 5/8-11	80	13,300	10	42711	7 x 5/8-11	36	8,600	10
42316	4-1/2 x 5/8-11	120	13,300	10	42712	7 x 5/8-11	40	8,600	10
42501	5 x 7/8	36	12,200	10	42714	7 x 5/8-11	60	8,600	10
42502	5 x 7/8	40	12,200	10	42715	7 x 5/8-11	80	8,600	10
42504	5 x 7/8	60	12,200	10	42716	7 x 5/8-11	120	8,600	10

eXtra Z3® ZIRCONIA FLAP DISCS CONT'D



USA MADE

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



eXtra | Zirconia | Type 27 | XL

SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
42142	4 x 5/8	40	15,300	10	42545	5 x 7/8	80	12,200	10
42144	4 x 5/8	60	15,300	10	42551	5 x 5/8-11	36	12,200	10
42145	4 x 5/8	80	15,300	10	42552	5 x 5/8-11	40	12,200	10
42146	4 x 5/8	120	15,300	10	42554	5 x 5/8-11	60	12,200	10
42341	4-1/2 x 7/8	36	13,300	10	53041	6 x 7/8	36	10,200	10
42342	4-1/2 x 7/8	40	13,300	10	53042	6 x 7/8	40	10,200	10
42344	4-1/2 x 7/8	60	13,300	10	53044	6 x 7/8	60	10,200	10
42345	4-1/2 x 7/8	80	13,300	10	53045	6 x 7/8	80	10,200	10
42346	4-1/2 x 7/8	120	13,300	10	53051	6 x 5/8-11	36	10,200	10
42351	4-1/2 x 5/8-11	36	13,300	10	53052	6 x 5/8-11	40	10,200	10
42352	4-1/2 x 5/8-11	40	13,300	10	53054	6 x 5/8-11	60	10,200	10
42354	4-1/2 x 5/8-11	60	13,300	10	53056	6 x 5/8-11	120	10,200	10
42355	4-1/2 x 5/8-11	80	13,300	10	42742	7 x 7/8	40	8,600	10
42356	4-1/2 x 5/8-11	120	13,300	10	42744	7 x 7/8	60	8,600	10
42541	5 x 7/8	36	12,200	10	42745	7 x 7/8	80	8,600	10
42542	5 x 7/8	40	12,200	10	42752	7 x 5/8-11	40	8,600	10
42544	5 x 7/8	60	12,200	10	42754	7 x 5/8-11	60	8,600	10



USA MADE

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



eXtra | Zirconia | Type 29 | Regular

SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
42121	4 x 5/8	36	15,300	10	42532	5 x 5/8-11	40	12,200	10
42122	4 x 5/8	40	15,300	10	42534	5 x 5/8-11	60	12,200	10
42124	4 x 5/8	60	15,300	10	53021	6 x 7/8	36	10,200	10
42125	4 x 5/8	80	15,300	10	53022	6 x 7/8	40	10,200	10
42321	4-1/2 x 7/8	36	13,300	10	53024	6 x 7/8	60	10,200	10
42322	4-1/2 x 7/8	40	13,300	10	53025	6 x 7/8	80	10,200	10
42324	4-1/2 x 7/8	60	13,300	10	53032	6 x 5/8-11	40	10,200	10
42325	4-1/2 x 7/8	80	13,300	10	53034	6 x 5/8-11	60	10,200	10
42326	4-1/2 x 7/8	120	13,300	10	53035	6 x 5/8-11	80	10,200	10
42331	4-1/2 x 5/8-11	36	13,300	10	42721	7 x 7/8	36	8,600	10
42332	4-1/2 x 5/8-11	40	13,300	10	42722	7 x 7/8	40	8,600	10
42334	4-1/2 x 5/8-11	60	13,300	10	42724	7 x 7/8	60	8,600	10
42335	4-1/2 x 5/8-11	80	13,300	10	42725	7 x 7/8	80	8,600	10
42521	5 x 7/8	36	12,200	10	42731	7 x 5/8-11	36	8,600	10
42522	5 x 7/8	40	12,200	10	42732	7 x 5/8-11	40	8,600	10
42524	5 x 7/8	60	12,200	10	42734	7 x 5/8-11	60	8,600	10
42525	5 x 7/8	80	12,200	10	42735	7 x 5/8-11	80	8,600	10

eXtra Z3® ZIRCONIA FLAP DISCS CONT'D

Type 29 XL

USA MADE

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

Right Angle Grinder

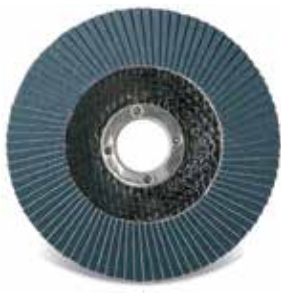
eXtra | Zirconia | Type 29 | XL									
SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
42161	4 x 5/8	36	15,300	10	42564	5 x 7/8	60	12,200	10
42162	4 x 5/8	40	15,300	10	42565	5 x 7/8	80	12,200	10
42164	4 x 5/8	60	15,300	10	42572	5 x 5/8-11	40	12,200	10
42165	4 x 5/8	80	15,300	10	42574	5 x 5/8-11	60	12,200	10
42361	4-1/2 x 7/8	36	13,300	10	42575	5 x 5/8-11	80	12,200	10
42362	4-1/2 x 7/8	40	13,300	10	53061	6 x 7/8	36	10,200	10
42364	4-1/2 x 7/8	60	13,300	10	53062	6 x 7/8	40	10,200	10
42365	4-1/2 x 7/8	80	13,300	10	53064	6 x 7/8	60	10,200	10
42366	4-1/2 x 7/8	120	13,300	10	53065	6 x 7/8	80	10,200	10
42371	4-1/2 x 5/8-11	36	13,300	10	53072	6 x 5/8-11	40	10,200	10
42372	4-1/2 x 5/8-11	40	13,300	10	53074	6 x 5/8-11	60	10,200	10
42374	4-1/2 x 5/8-11	60	13,300	10	53075	6 x 5/8-11	80	10,200	10
42375	4-1/2 x 5/8-11	80	13,300	10	42772	7 x 5/8-11	36	8,600	10
42561	5 x 7/8	36	12,200	10	42774	7 x 5/8-11	40	8,600	10
42562	5 x 7/8	40	12,200	10	42762	7 x 7/8	40	8,600	10

Fast Cut Z-PC FLAP DISCS

GOOD ZIRCONIA-BLEND

- Zirconia grain with a poly/cotton backing. The poly/cotton backing provides both durability and finish strength.
- For steel applications.







Regular



XL

Type 27

Type 27 XL

USA MADE

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

Right Angle Grinder

Fast Cut | Zirconia Blend | Type 27 | Regular				
SKU	Size	Grit	RPM	Box Qty
41702	4-1/2 x 7/8	40	13,300	10
41704	4-1/2 x 7/8	60	13,300	10
41705	4-1/2 x 7/8	80	13,300	10
41712	4-1/2 x 5/8-11	40	13,300	10
41714	4-1/2 x 5/8-11	60	13,300	10
41715	4-1/2 x 5/8-11	80	13,300	10

Fast Cut | Zirconia Blend | Type 27 | XL				
SKU	Size	Grit	RPM	Box Qty
41742	4-1/2 x 7/8	40	13,300	10
41744	4-1/2 x 7/8	60	13,300	10
41745	4-1/2 x 7/8	80	13,300	10
41752	4-1/2 x 5/8-11	40	13,300	10
41754	4-1/2 x 5/8-11	60	13,300	10

Fast Cut Z-PC FLAP DISCS CONT'D

Type 29

Fast Cut | Zirconia Blend | Type 29 | Regular				
SKU	Size	Grit	RPM	Box Qty
41722	4-1/2 x 7/8	40	13,300	10
41724	4-1/2 x 7/8	60	13,300	10
41725	4-1/2 x 7/8	80	13,300	10
41732	4-1/2 x 5/8-11	40	13,300	10
41734	4-1/2 x 5/8-11	60	13,300	10
41735	4-1/2 x 5/8-11	80	13,300	10

Type 29 XL

Fast Cut | Zirconia Blend | Type 29 | XL				
SKU	Size	Grit	RPM	Box Qty
41762	4-1/2 x 7/8	40	13,300	10
41764	4-1/2 x 7/8	60	13,300	10
41765	4-1/2 x 7/8	80	13,300	10
41772	4-1/2 x 5/8-11	40	13,300	10
41774	4-1/2 x 5/8-11	60	13,300	10

ALL PURPOSE FLAP DISCS

ALUMINUM OXIDE

- Premium Aluminum Oxide grain on a polyester backing.
- A3 can be used on ferrous and non ferrous metals as well as plastics and wood.

Type 27

Type 29

USA MADE

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

Right Angle Grinder



All-purpose Flap Discs | Type 27 | Regular				
SKU	Size	Grit	RPM	Box Qty
39202	4 x 5/8	40	15,300	10
39204	4 x 5/8	60	15,300	10
39205	4 x 5/8	80	15,300	10
39212	4 x 3/8-24	40	13,300	10
39214	4 x 3/8-24	60	13,300	10
39402	4-1/2 x 7/8	40	13,300	10
39404	4-1/2 x 7/8	60	13,300	10
39405	4-1/2 x 7/8	80	13,300	10
39412	4-1/2 x 5/8-11	40	13,300	10
39414	4-1/2 x 5/8-11	60	13,300	10
39415	4-1/2 x 5/8-11	80	13,300	10

All-purpose Flap Discs | Type 27 | XL				
SKU	Size	Grit	RPM	Box Qty
39442	4-1/2 x 7/8	40	13,300	10
39444	4-1/2 x 7/8	60	13,300	10
39445	4-1/2 x 7/8	80	13,300	10

All-purpose Flap Discs | Type 29 | Regular				
SKU	Size	Grit	RPM	Box Qty
39422	4-1/2 x 7/8	40	13,300	10
39424	4-1/2 x 7/8	60	13,300	10
39425	4-1/2 x 7/8	80	13,300	10
39432	4-1/2 x 5/8-11	40	13,300	10
39434	4-1/2 x 5/8-11	60	13,300	10
39435	4-1/2 x 5/8-11	80	13,300	10

All-purpose Flap Discs | Type 29 | XL				
SKU	Size	Grit	RPM	Box Qty
39462	4-1/2 x 7/8	40	13,300	10
39464	4-1/2 x 7/8	60	13,300	10
39465	4-1/2 x 7/8	80	13,300	10
39472	4-1/2 x 5/8-11	40	13,300	10
39474	4-1/2 x 5/8-11	60	13,300	10
39475	4-1/2 x 5/8-11	80	13,300	10

PLASTIC BACKED FLAP DISCS WITH INTERNAL 5/8-11 THREADS

NEW LOOK SAME FORMULA

CERAMIC | ZIRCONIA

- **C3 (Ceramic)** has 20% more material than regular flap discs.
- **Z3 (Zirconia)** has 20% more material than regular flap discs.
- 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.



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. Ideal for heavy-duty applications.

USA MADE | CFO CONTAMINANT-FREE Iron, Sulfur, and Chlorine ≤ 0.1% | Right Angle Grinder

Plastic Back Flap Discs | Ceramic Grain | Regular

SKU	Size	Grit	RPM	Box Qty
30202	4-1/2 x 5/8-11	40	13,300	10
30204	4-1/2 x 5/8-11	60	13,300	10
30205	4-1/2 x 5/8-11	80	13,300	10
30212	5 x 5/8-11	40	12,200	10
30214	5 x 5/8-11	60	12,200	10
30215	5 x 5/8-11	80	12,200	10
30222	6 x 5/8-11	40	10,200	10
30224	6 x 5/8-11	60	10,200	10
30225	6 x 5/8-11	80	10,200	10

Plastic Back Flap Discs | Zirconia | XL

SKU	Size	Grit	RPM	Box Qty
30162	6 x 5/8-11	40	10,000	10
30164	6 x 5/8-11	60	10,000	10

Plastic Back Flap Discs | Zirconia | Regular

SKU	Size	Grit	RPM	Box Qty
30142	4-1/2 x 5/8-11	40	13,300	10
30144	4-1/2 x 5/8-11	60	13,300	10
30145	4-1/2 x 5/8-11	80	13,300	10
30146	4-1/2 x 5/8-11	120	13,300	10



ALUMINUM GRINDING W/GRINDING AID

NEW LOOK SAME FORMULA

ALUMINUM OXIDE

- Unique design for aluminum and other non-ferrous applications.
- Aluminum Oxide with special treatment of calcium stearate to keep the material cooler and prevent loading with soft materials.



Type 27 Type 29 USA MADE CF CONTAMINANT-FREE Iron, Sulfur, and Chlorine ≤ 0.1% Right Angle Grinder

Aluminum Flap Discs | Type 27 | Regular

SKU	Size	Grit	RPM	Box Qty
43081	4-1/2 x 7/8	36	13,300	10
43084	4-1/2 x 7/8	60	13,300	10
43091	4-1/2 x 5/8-11	36	13,300	10
43094	4-1/2 x 5/8-11	60	13,300	10
43241	7 x 7/8	36	8,600	10
43251	7 x 5/8-11	36	8,600	10

Aluminum Flap Discs | Type 29 | Regular

SKU	Size	Grit	RPM	Box Qty
43101	4-1/2 x 7/8	36	13,300	10
43104	4-1/2 x 7/8	60	13,300	10
43111	4-1/2 x 5/8-11	36	13,300	10
43114	4-1/2 x 5/8-11	60	13,300	10
43181	5 x 7/8	36	12,200	10
43184	5 x 7/8	60	12,200	10

Z3® 2 – 3" MINI FLAP DISCS

ALUMINUM OXIDE

- Z3® Premium Zirconia alumina grain with a poly/cotton backing.
- Active grinding agent provides cool cutting with only light pressure.
- Mini flap discs are designed to access tight areas and reduce heat build-up.
- Roll-On and Turn-On attachment styles for quick disc changes.
- Type 27 shape for smooth finishes.



Roll-On CF CONTAMINANT-FREE Iron, Sulfur, and Chlorine ≤ 0.1% Portable Grinder

2 -3" Mini Flap Discs | Zirconia | Type 27

SKU	Size	Grit	RPM	Box Qty	Holder Pad
30001	2	36	24,000	10	
30002	2	40	24,000	10	
30004	2	60	24,000	10	59732
30005	2	80	24,000	10	
30006	2	120	24,000	10	

SKU	Size	Grit	RPM	Box Qty	Holder Pad
30011	3	36	24,000	10	
30012	3	40	24,000	10	
30014	3	60	24,000	10	59734
30015	3	80	24,000	10	
30016	3	120	24,000	10	

COTTON/FIBER, ALUMINUM OXIDE, TYPE 27

- 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.
- Operates at 3,000 RPM for optimal performance.



Type 27

Right Angle Grinder

USA MADE

Cotton/Fiber, Aluminum Oxide, Type 27				
SKU	Size	Grit	RPM	Box Qty
49549	4-1/2 x 1/4 x 7/8	36	13,300	25
49600	4-1/2 x 1/4 x 7/8	54	13,300	25

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.
- Operates at 3,000 RPM for optimal performance.



Type 29

Right Angle Grinder

Surface Conditioning Flap Discs, Type 29, Regular									
SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
70120	4-1/2 x 7/8	Coarse	13,300	10	70187	5 x 7/8	Medium	13,300	10
70121	4-1/2 x 5/8-11	Coarse	13,300	10	70124	4-1/2 x 7/8	Very Fine	13,300	10
70185	5 x 7/8	Coarse	13,300	10	70125	4-1/2 x 5/8-11	Very Fine	13,300	10
70122	4-1/2 x 7/8	Medium	13,300	10	70189	5 x 7/8	Very Fine	13,300	10

INTERLEAF FLAP DISCS

ALUMINUM OXIDE



- 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.
- Three grit levels of discs for a variety of work including stainless steel, aluminum, brass, steel sheet metal.
- Operates at 3,000 RPM for optimal performance.

Type 29

Right Angle Grinder

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

Interleaf Flap Discs | Type 29 | Regular				
SKU	Size	Grit	RPM	Box Qty
49686	4-1/2 x 7/8	Coarse	13,300	10
49689	4-1/2 x 5/8-11	Coarse	13,300	10
49687	4-1/2 x 7/8	Medium	13,300	10
49690	4-1/2 x 5/8-11	Medium	13,300	10
49693	5 x 7/8	Medium	13,300	10
49688	4-1/2 x 7/8	Very Fine	13,300	10
46691	4-1/2 x 5/8-11	Very Fine	13,300	10
49694	5 x 7/8	Very Fine	13,300	10

GRIND AND FINISH WITH ONE DISC – SAVE TIME AND MONEY



COARSE
Brown – 120 grit



MEDIUM
Maroon – 180 grit
Perfect satin finish, achieves #4 finish



VERY FINE
Blue – 320 grit
High mirror polish

EZ STRIP WHEELS

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



Right Angle Grinder

EZ Strip Wheels											
SKU	Size	Grain	Type	RPM	Box Qty	SKU	Size	Grain	Type	RPM	Box Qty
59204	4-1/2 x 7/8	Aluminum Oxide	Red	11,000	10	59200	4-1/2 x 7/8	Silicon Carbide	Black	11,000	10
59205	4-1/2 x 5/8-11	Aluminum Oxide	Red	11,000	10	59201	4-1/2 x 5/8-11	Silicon Carbide	Black	11,000	10
59208	5 x 7/8	Aluminum Oxide	Red	9,800	10	59210	5 x 7/8	Silicon Carbide	Black	9,800	10
59209	5 x 5/8 x 11	Aluminum Oxide	Red	9,800	10	59211	5 x 5/8 x 11	Silicon Carbide	Black	9,800	10
59206	7 x 7/8	Aluminum Oxide	Red	7,000	10	59202	7 x 7/8	Silicon Carbide	Black	7,000	10
59207	7 x 5/8-11	Aluminum Oxide	Red	7,000	10	59203	7 x 5/8-11	Silicon Carbide	Black	7,000	10

UNITIZED FIBERGLASS BACKED WHEELS

ALUMINUM OXIDE **SILICON CARBIDE**

- **Very Fine:** Light pressure for fine finishing and polishing; run at slower speeds for fine finish. Very conformable.
- **Medium Fine:** Light pressure for fine finishing and polishing. Conformable with strong edge durability.



Type 27



Unitized Fiberglass Wheels | Aluminum Oxide | Type 27

SKU	Size	Density	RPM	Box Qty
72070	4-1/2 x 7/8	Very Fine	11,000	10
72072	4-1/2 x 7/8-11	Medium	11,000	10

Unitized Fiberglass Wheels | Silicon Carbide | Type 27

SKU	Size	Density	RPM	Box Qty
72080	4-1/2 x 7/8	Very Fine	11,000	10
72082	4-1/2 x 7/8	Fine	11,000	10
72084	4-1/2 x 7/8	Medium	11,000	10

PREMIUM UNITIZED RIGHT ANGLE GRINDER WHEELS

ALUMINUM OXIDE **SILICON CARBIDE**

- 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.
- Operates at 3,000 RPM for optimal performance.



Type 27



Premium Unitized Right Angle Grinding Wheels, Silicon Carbide, Type 27

SKU	Size	Density/Grade	RPM	Box Qty
72050	4-1/2 x 7/8	2/S Fine	11,000	10
72055	4-1/2 x 5/8-11	2/S Fine	11,000	10
72053	5 x 7/8	2/S Fine	11,000	10
72051	4-1/2 x 7/8	3/S Fine	11,000	10

SURFACE PREPARATION WHEELS

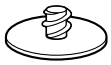
ALUMINUM OXIDE **SILICON CARBIDE**

- Non-woven material impregnated with abrasive grains for blending, finishing and removal of paint and rust.
- Blends and smoothes 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 non-ferrous metals.
- Extremely conformable.
- Operates at 3,000 RPM for optimal performance.











Surface Preps Wheels | Aluminum Oxide | Type 27				
SKU	Size	Density	RPM	Box Qty
53241	4 x 5/8	Fine	13,700	10
53242	4-1/2 x 7/8	Fine	13,300	10
53243	4-1/2 x 5/8-11	Fine	13,300	10
53244	7 x 7/8	Fine	8,500	10
53245	7 x 5/8-11	Fine	8,500	10
53251	2" Roll-on	Medium	25,000	25
53252	3" Roll-on	Medium	25,000	10

Surface Preps Wheels | Silicon Carbide | Type 27				
SKU	Size	Density	RPM	Box Qty
53247	4-1/2 x 7/8	Fine	13,300	10
53248	4-1/2 x 5/8-11	Fine	13,300	10

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.



Felt & Wool Buffing Discs | Type 27			
SKU	Size	RPM	Box Qty
49698	4-1/2 x 7/8	13,000	10
49699	5 x 7/8	12,200	10





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.



USA MADE

Buffing Compound			
SKU	Spec	Grit	Box Qty
49652	White SS51	1,200	1
49653	Green C-3	2,000	1

SEMI-FLEX DISCS – RED FIBER BACKING

SILICON CARBIDE **ALUMINUM OXIDE**

- **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 / Clay.
- **Aluminum Oxide (A)** for metal working and grinding down rough castings. Excellent on materials such as: Cold rolled steel, Stainless steel, Bronze, Aluminum, Iron.



Type 29
Domed



Back-Up Pad Required

Semi-Flex Discs / Red Fiber Backing | Aluminum Oxide | Type 29

SKU	Size	Grit	RPM	Box Qty
35831	4-1/2 x 7/8	24	13,300	25
35832	4-1/2 x 7/8	36	13,300	25
49626	4-1/2 x 7/8	60	13,300	25
35839	7 x 7/8	16	8,600	25
35840	7 x 7/8	24	8,600	25
35841	7 x 7/8	36	8,600	25

Semi-Flex Discs/Flex Red Fiber Backing | Silicon Carbide | Type 29

SKU	Size	Grit	RPM	Box Qty
35833	4-1/2 x 7/8	16	13,300	25
35834	4-1/2 x 7/8	24	13,300	25
35835	4-1/2 x 7/8	36	13,300	25
35836	4-1/2 x 7/8	60	13,300	25
35837	4-1/2 x 7/8	80	13,300	25
35842	7 x 7/8	16	8,600	25
35843	7 x 7/8	24	8,600	25
35844	7 x 7/8	36	8,600	25
35845	7 x 7/8	60	8,600	25

SEMI-FLEX DISCS – RIGID *STRONG, PHENOLIC BACKING*

SILICON CARBIDE

- Rigid phenolic (fiberglass) backing for aggressive grinding applications, stronger than plastic and vulcanized fiber backings.
- Rigid disc design allows for more control when grinding corners and edges.
- No deformation due to use, heat or humidity. Use wet or dry. **No back-up pad needed.**



Type 27



Rigid Semi-Flex Discs | Silicon Carbide | Type 27

SKU	Size	Grit	RPM	Box Qty
49606	4-1/2 x 7/8	16	13,300	25
49608	4-1/2 x 7/8	24	13,300	25
49610	4-1/2 x 7/8	36	13,300	25
49607	4-12 x 5/8-11	16	13,300	10
49609	4-12 x 5/8-11	24	13,300	10
49611	4-12 x 5/8-11	36	13,300	10
49618	7 x 7/8	16	8,600	25

eXtreme EZ-GRIND CERAMIC FIBER DISC WITH GRINDING AID

BEST | CERAMIC



RESIN FIBER x GRINDING WHEEL = EXTREME EZ-GRIND

- 2x More Removal Rate then a ¼" Wheel
- Improved Productivity
- Reduction in Rework

EXTREME EZ-GRIND discs are the perfect abrasive for quickly removing stock welds as well as heavy duty sanding. All the power of a fiber disc with the extended life of a flap disc. For use on :

- Mild Steel
- Cast Iron
- Aluminum
- Hard Metals
- Stainless Steel
- High Intensive Alloys

Right Angle Grinder

Type 29

EXTREME EZ-GRIND | Type 29 | Ceramic w/ Grinding Aid				
SKU	Size	Grit	RPM	Box Qty
79200	4-1/2 x 7/8	24	13,300	10
79201	4-1/2 x 5/8-11	24	13,300	10
79202	4-1/2 x 7/8	36	13,300	10
79203	4-1/2 x 5/8-11	36	13,300	10

eXtreme CERAMIC FIBER DISC WITH GRINDING AID

BEST | CERAMIC



- Premium Ceramic grain is extremely hard and self-sharpens during operation. Ceramic grain breaks down with less pressure than Zirconia discs without heat damage.
- Improved grain technology allows for higher stock removal rates and longer product life.
- Advanced grinding aid for cool cutting technology that reduces heat and increases performance.
- Suitable for high pressure grinding applications.

Right Angle Grinder

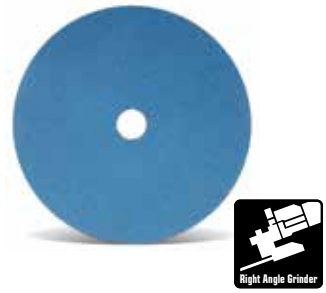
High Concentrate Ceramic Fiber Disc With Grinding Aid									
SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
59801	4-1/2 x 7/8	24	13,300	25	59806	5 x 7/8	36	12,200	25
59802	4-1/2 x 7/8	36	13,300	25	59807	5 x 7/8	60	12,200	25
59814	4-1/2 x 7/8	50	13,300	25	59808	5 x 7/8	80	12,200	25
59803	4-1/2 x 7/8	60	13,300	25	59809	7 x 7/8	24	8,600	25
59804	4-1/2 x 7/8	80	13,300	25	59810	7 x 7/8	36	8,600	25
59819	4-1/2 x 7/8	120	13,300	25	59811	7 x 7/8	60	8,600	25
59805	5 x 7/8	24	12,200	25	59812	7 x 7/8	80	8,600	25

Hubbed eXtreme Ceramic Fiber Discs *SPECIAL ORDER ONLY														
SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
59851	4-1/2 x 5/8-11	24	13,300	25	59855	5 x 5/8-11	24	12,200	25	59859	7 x 5/8-11	24	8,600	25
59852	4-1/2 x 5/8-11	36	13,300	25	59856	5 x 5/8-11	36	12,200	25	59860	7 x 5/8-11	36	8,600	25
59873*	4-1/2 x 5/8-11	50	13,300	25	59864*	5 x 5/8-11	50	12,200	25	59895*	7 x 5/8-11	50	8,600	25
59853*	4-1/2 x 5/8-11	60	13,300	25	59857*	5 x 5/8-11	60	12,200	25	59861*	7 x 5/8-11	60	8,600	25
59862*	4-1/2 x 5/8-11	80	13,300	25	59865*	5 x 5/8-11	80	12,200	25	59867*	7 x 5/8-11	80	8,600	25
59863*	4-1/2 x 5/8-11	120	13,300	25	59866*	5 x 5/8-11	120	12,200	25	59868*	7 x 5/8-11	120	8,600	25

FIBER DISCS | ZIRCONIA – HIGH PERFORMANCE

BETTER **ZIRCONIA**

- 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, steel and stainless steel.



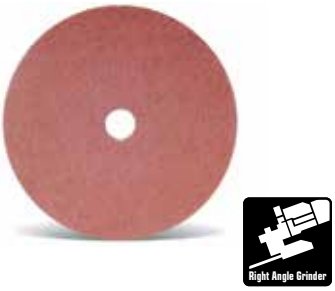
Zirconia Fiber Discs

SKU	Size	Grit	RPM	Box Qty
48232	4 x 5/8	36	15,300	25
48234	4 x 5/8	50	15,300	25
48101	4-1/2 x 7/8	24	13,300	25
48102	4-1/2 x 7/8	36	13,300	25
48104	4-1/2 x 7/8	50	13,300	25
48105	4-1/2 x 7/8	60	13,300	25
48106	4-1/2 x 7/8	80	13,300	25
48111	5 x 7/8	24	12,200	25
48112	5 x 7/8	36	12,200	25
48114	5 x 7/8	50	12,200	25
48115	5 x 7/8	60	12,200	25
48116	5 x 7/8	80	12,200	25
48121	7 x 7/8	24	8,600	25
48122	7 x 7/8	36	8,600	25
48124	7 x 7/8	50	8,600	25
48125	7 x 7/8	60	8,600	25
48126	7 x 7/8	80	8,600	25

FIBER DISCS | ALUMINIUM OXIDE

GOOD **ALUMINIUM OXIDE**

- Premium quality Aluminum Oxide designed for long life, high stock removal and cool cutting action on steel.
- Sharp, heat-treated Aluminum Oxide grain electrostatically coated to a heavy duty vulcanized Fiber backing.



Aluminum Oxide Fiber Discs

SKU	Size	Grit	RPM	Box Qty
48010	4-1/2 x 7/8	16	13,300	25
48011	4-1/2 x 7/8	24	13,300	25
48012	4-1/2 x 7/8	36	13,300	25
48014	4-1/2 x 7/8	50	13,300	25
48015	4-1/2 x 7/8	60	13,300	25
48016	4-1/2 x 7/8	80	13,300	25
48017	4-1/2 x 7/8	100	13,300	25
48018	4-1/2 x 7/8	120	13,300	25
48020	5 x 7/8	16	12,200	25
48021	5 x 7/8	24	12,200	25
48022	5 x 7/8	36	12,200	25
48024	5 x 7/8	50	12,200	25
48025	5 x 7/8	60	12,200	25
48026	5 x 7/8	80	12,200	25
48027	5 x 7/8	100	12,200	25
48028	5 x 7/8	120	12,200	25
48030	7 x 7/8	16	8,600	25
48031	7 x 7/8	24	8,600	25
48032	7 x 7/8	36	8,600	25
48034	7 x 7/8	50	8,600	25
48035	7 x 7/8	60	8,600	25
48036	7 x 7/8	80	8,600	25
48037	7 x 7/8	100	8,600	25
48038	7 x 7/8	120	8,600	25
48033	7 x 7/8	150	8,600	25
48039	7 x 7/8	180	8,600	25
48041	9 x 7/8	24	6,600	25
48042	9 x 7/8	36	6,600	25
48044	9 x 7/8	50	6,600	25
48045	9 x 7/8	60	6,600	25
48046	9 x 7/8	80	6,600	25

FIBER DISCS SPINDLES

ZIRCONIA | ALUMINUM OXIDE



- Spindle-spool design provides convenient storage and keeps discs flat.

Zirconia Fiber Disc Spindles

SKU	Size	Grit	RPM	Box Qty
48528	4-1/2 x 7/8	24	13,300	50
48529	4-1/2 x 7/8	36	13,300	100
48530	4-1/2 x 7/8	50	13,300	100
48531	4-1/2 x 7/8	60	13,300	100
48532	4-1/2 x 7/8	80	13,300	100
48533	5 x 7/8	24	12,200	50
48534	5 x 7/8	36	12,200	100
48535	5 x 7/8	50	12,200	100
48536	5 x 7/8	60	12,200	100
48537	5 x 7/8	80	12,200	100

Aluminum Oxide Fiber Disc Spindles

SKU	Size	Grit	RPM	Box Qty
48501	4-1/2 x 7/8	24	13,300	50
48502	4-1/2 x 7/8	36	13,300	100
48503	4-1/2 x 7/8	50	13,300	100
48504	4-1/2 x 7/8	60	13,300	100
48505	4-1/2 x 7/8	80	13,300	100

RUBBER FIBER DISCS 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%.
- 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.

Standard Thread Rubber Fiber Disc Back-up Pads

SKU	Size	Spec	Box Qty
48220	4-1/2 x 5/8-11	Medium	1
48221	5 x 5/8-11	Medium	1
48222	7 x 5/8-11	Medium	1
48239	9 x 5/8-11	Medium	1
49510	7 x 5/8-11	Flexible	1
48270	4-1/2 x 5/8-11	Rigid	1
48271	5 x 5/8-11	Rigid	1
49511	7 x 5/8-11	Rigid	1
49527	9 x 5/8-11	Rigid	1

Smooth Bore Rubber Fiber Disc Back-up Pads

SKU	Size	Spec	Box Qty
49521	4 x 1/2	Medium	1
49519	5	Medium	1

SMOOTH BORE RUBBER FIBER DISC BACK-UP PADS



- Polypropylene Back-up Pads – Use with medium to fine grits.

Smooth Bore Rubber Fiber Disc Back-up Pads

SKU	Size	Spec	Box Qty
48224	4-1/2 x 5/8-11	Medium	1
48226	7 x 5/8-11	Flexible	1

Standard Thread Polypropylene Fiber Disc Back-up Pads

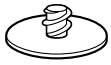
SKU	Size	Spec	Box Qty
36204	4 x 1/2	Medium	1

2 – 3" QUICK CHANGE DISCS – SURFACE CONDITIONING



- For stainless steel, and ferrous & non-ferrous metals.
- **Premium** – Blending and rust/burr removal.
- **Finish Pro** – Economy choice, high performance design for demanding cleaning, deburring, and finishing.
- **Heavy Duty** – Aggressive surface conditioning discs for tough cleaning, deburring and finishing. 2X longer working life than standard discs.





Roll-On

PREMIUM Roll-On | Surface Conditioning | Quick Change Discs

SKU	Size	Density/Grain	RPM	Box Qty
59503	2"	Coarse/60	25,000	50
59504	2"	Medium/80-120	25,000	50
59505	2"	Very Fine/180-240	25,000	50
59608	2"	Ultra Fine/240-320	25,000	50
59506	3"	Coarse/60	20,000	25
59507	3"	Medium/80-120	20,000	25

SKU	Size	Density/Grain	RPM	Box Qty
59508	3"	Very Fine/180-240	20,000	25
59609	3"	Ultra Fine/240-320	20,000	25
59509	4"	Coarse/60	12,000	25
59510	4"	Medium/80-120	12,000	25
59511	4"	Very Fine/180-240	12,000	25

FINISH PRO Roll-On | Surface Conditioning | Quick Change Discs

SKU	Size	Grit	RPM	Box Qty
59743	2"	Coarse/60	25,000	50
59744	2"	Medium/80-120	25,000	50
59745	2"	Very Fine/180-240	25,000	50
59746	3"	Coarse/60	20,000	25
59747	3"	Medium/80-120	20,000	25
59748	3"	Very Fine/180-240	20,000	25

HEAVY DUTY Roll-On | Surface Conditioning | Quick Change Discs

SKU	Size	Grit	RPM	Box Qty
59739	2"	Coarse/50-60	25,000	50
59740	2"	Medium/60-100	25,000	50
59741	3"	Coarse/50-60	20,000	25
59742	3"	Medium/60-100	20,000	25



Turn-On



PREMIUM Turn-On | Surface Conditioning | Quick Change Discs

SKU	Size	Grit	RPM	Box Qty
59610	2"	Coarse/60	25,000	50
59611	2"	Medium/80-120	25,000	50
59612	2"	Very Fine/180-240	25,000	50
59614	3"	Coarse/60	20,000	25
59615	3"	Medium/80-120	20,000	25

FINISH PRO Turn-On | Surface Conditioning | Quick Change Discs

SKU	Size	Grit	RPM	Box Qty
59749	2"	Coarse/60	25,000	50
59750	2"	Medium/80-120	25,000	50
59751	2"	Very Fine/180-240	25,000	50
59752	3"	Coarse/60	20,000	25
59753	3"	Medium/80-120	20,000	25

eXtreme CERAMIC QUICK CHANGE DISCS

BEST **CERAMIC**

- 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.



Roll-On — Die Grinder

Turn-On — Die Grinder

Ceramic | Roll-On | Quick Change Discs

SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
59910	2"	24	25,000	50	59920	3"	24	20,000	25
59911	2"	36	25,000	50	59921	3"	36	20,000	25
59912	2"	40	25,000	50	59922	3"	40	20,000	25
59913	2"	50	25,000	50	59923	3"	50	20,000	25
59914	2"	60	25,000	50	59924	3"	60	20,000	25
59915	2"	80	25,000	50	59925	3"	80	20,000	25
59916	2"	100	25,000	50	59926	3"	100	20,000	25
59917	2"	120	20,000	50	59927	3"	120	20,000	25

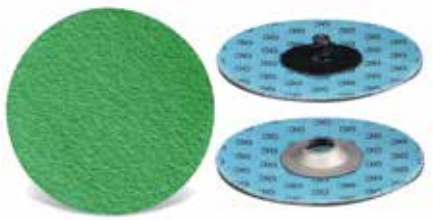
Ceramic | Turn-on Quick Change Discs

SKU	Size	Grit	RPM	Box Qty
59951	2"	36	25,000	50
59952	2"	40	25,000	50
59953	2"	50	25,000	50
59954	2"	60	25,000	50
59955	2"	80	25,000	50
59956	2"	100	25,000	50
59957	2"	120	25,000	50

ZIRCONIA W/ GRINDING AID QUICK CHANGE DISCS

BETTER **ZIRCONIA**

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



Roll-On — Die Grinder

Turn-On — Die Grinder

Zirconia w/ Grinding Aid | Roll-On | Quick Change Discs

SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
59587	2"	24	25,000	50	59594	3"	24	20,000	50
59588	2"	36	25,000	50	59595	3"	36	20,000	25
59589	2"	40	25,000	50	59596	3"	40	20,000	25
59590	2"	50	25,000	50	59597	3"	50	20,000	25
59591	2"	60	25,000	50	59598	3"	60	20,000	25
59592	2"	80	25,000	50	59599	3"	80	20,000	25
59593	2"	120	25,000	50	59600	3"	120	20,000	25

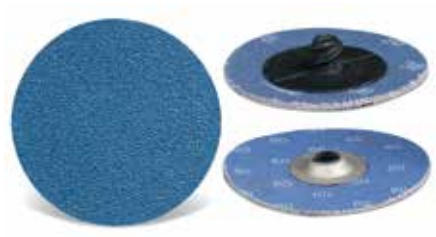
Zirconia w/ Grinding Aid | Turn-on Quick Change Discs

SKU	Size	Grit	RPM	Box Qty
59697	2"	36	25,000	50
59698	2"	40	25,000	50
59700	2"	60	25,000	50
59701	2"	80	25,000	50
59702	2"	120	25,000	50

ZIRCONIA QUICK CHANGE DISCS

BETTER **ZIRCONIA**

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



Roll-On



Turn-On



Zirconia | Roll-On | Quick Change Discs

SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
59718	2"	24	25,000	50	59719	3"	24	20,000	25
59565	2"	36	25,000	50	59570	3"	36	20,000	25
59566	2"	40	25,000	50	59571	3"	40	20,000	25
59567	2"	50	25,000	50	59572	3"	50	20,000	25
59568	2"	60	25,000	50	59573	3"	60	20,000	25
59569	2"	80	25,000	50	59574	3"	80	20,000	25

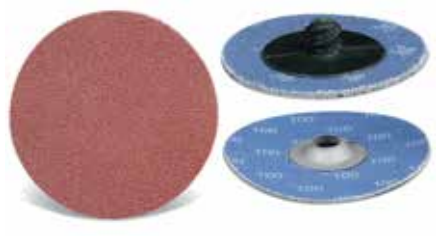
Zirconia | Turn-On | Quick Change Discs

SKU	Size	Grit	RPM	Box Qty
59674	2"	36	25,000	50
59676	2"	50	25,000	50
59677	2"	60	25,000	50
59678	2"	80	25,000	50

ALUMINUM OXIDE QUICK CHANGE DISCS

GOOD **ALUMINUM OXIDE**

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



Roll-On



Turn-On



Aluminum Oxide | Roll-On | Quick Change Discs

SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
59524	2"	24	25,000	50	59536	3"	24	20,000	25
59525	2"	36	25,000	50	59537	3"	36	20,000	25
59526	2"	40	25,000	50	59538	3"	40	20,000	25
59527	2"	50	25,000	50	59539	3"	50	20,000	25
59528	2"	60	25,000	50	59540	3"	60	20,000	25
59529	2"	80	25,000	50	59541	3"	80	20,000	25
59530	2"	100	25,000	50	59542	3"	100	20,000	25
59531	2"	120	25,000	50	59543	3"	120	20,000	25

Aluminum Oxide | Turn-On | Quick Change Discs

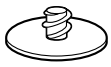
SKU	Size	Grit	RPM	Box Qty
59634	2"	36	25,000	50
59635	2"	40	25,000	50
59636	2"	50	25,000	50
59637	2"	60	25,000	50
59638	2"	80	25,000	50
59639	2"	100	25,000	50
59640	2"	120	25,000	50

COTTON FIBER QUICK CHANGE DISCS – ROLL ON

- Aircraft/Aerospace, Food Service, Automotive, 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 specific applications.
- Ideal for light weld removal, blending, deburring and finishing.







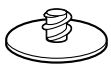
Cotton/Fiber Quick Change Discs | Aluminum Oxide | Roll-On				
SKU	Size	Grit	RPM	Box Qty
49558	3	36	20,000	25

EZ STRIP QUICK CHANGE DISCS

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





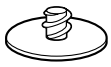


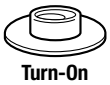
EZ Strip Quick Change Discs					
SKU	Size	Grain	Type	RPM	Box Qty
59060	2 x 1/2	Aluminum Oxide	Red	10,500	10
59062	3 x 1/2	Aluminum Oxide	Red	7,000	10
59061	2 x 1/2	Silicon Carbide	Black	10,500	10
59063	3 x 1/2	Silicon Carbide	Black	7,000	10

RUBBER HOLDER PADS – 1-1/2 – 4" ROLL ON / TURN ON











Roll-On | External Thread | Die Grinder Holder Pads		
SKU	Size	Box Qty
59730	1-1/2 x 1/4	5
59732	2 x 1/4	5
59734	3 x 1/4	5
59736	4 x 1/4	5

Turn-On | Internal Thread | Die Grinder Holder Pads			
SKU	Size	Thread	Box Qty
59731	1-1/2 x 1/4	Standard	5
59733	2 x 1/4	M6	5
59738	2 x 1/4	M10	5
59735	3 x 1/4	Standard	5

ALUMINUM OXIDE FLAP WHEELS

ALUMINUM OXIDE

- 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 steel, stainless steel, iron, brass, aluminum, plastic, fiberglass, wood and glass. Excellent for working in small, difficult to reach places.





Aluminum Oxide Flap Wheels w ¼ in Shank

SKU	Size	Grit	RPM	Box Qty
37098	3/4 x 3/4 x 1/4	60	30,000	10
37099	3/4 x 3/4 x 1/4	80	30,000	10
37100	3/4 x 3/4 x 1/4	120	30,000	10
39903	1 x 5/8 x 1/4	60	30,000	10
39904	1 x 5/8 x 1/4	80	30,000	10
39905	1 x 5/8 x 1/4	120	30,000	10
39907	1 x 1 x 1/4	40	30,000	10
39908	1 x 1 x 1/4	60	30,000	10
39909	1 x 1 x 1/4	80	30,000	10
39910	1 x 1 x 1/4	120	30,000	10
39912	1 x 1 x 1/4	180	30,000	10
39913	1 x 1 x 1/4	240	30,000	10
39914	1 x 1 x 1/4	320	30,000	10
39915	1-1/2 x 1/2 x 1/4	60	25,000	10
39916	1-1/2 x 1/2 x 1/4	80	25,000	10
39917	1-1/2 x 1/2 x 1/4	120	25,000	10
39920	1-1/2 x 1 x 1/4	40	25,000	10
39921	1-1/2 x 1 x 1/4	60	25,000	10
39922	1-1/2 x 1 x 1/4	80	25,000	10
39923	1-1/2 x 1 x 1/4	120	25,000	10
39924	2 x 1/2 x 1/4	40	25,000	10
39925	2 x 1/2 x 1/4	60	25,000	10
39926	2 x 1/2 x 1/4	80	25,000	10
39927	2 x 1/2 x 1/4	120	25,000	10
39931	2 x 1 x 1/4	40	25,000	10
39932	2 x 1 x 1/4	60	25,000	10
39933	2 x 1 x 1/4	80	25,000	10
39934	2 x 1 x 1/4	120	25,000	10
39935	2 x 1 x 1/4	180	25,000	10
39937	2 x 1 x 1/4	320	25,000	10
40003	2 x 1-1/2 x 1/4	40	25,000	10
40004	2 x 1-1/2 x 1/4	60	25,000	10
40005	2 x 1-1/2 x 1/4	80	25,000	10
40006	2 x 1-1/2 x 1/4	120	25,000	10
39938	2 x 2 x 1/4	60	25,000	10
39939	2 x 2 x 1/4	80	25,000	10
39941	2-1/2 x 1 x 1/4	60	20,000	10
39942	2-1/2 x 1 x 1/4	80	20,000	10
39943	2-1/2 x 1 x 1/4	120	20,000	10
41121	2-1/2 x 1-1/2 x 1/4	60	20,000	10
41122	2-1/2 x 1-1/2 x 1/4	80	20,000	10
41018	3 x 1/2 x 1/4	60	20,000	10
41019	3 x 1/2 x 1/4	80	20,000	10
41020	3 x 1/2 x 1/4	120	20,000	10
39947	3 x 1 x 1/4	40	20,000	10
39948	3 x 1 x 1/4	60	20,000	10
39949	3 x 1 x 1/4	80	20,000	10
39950	3 x 1 x 1/4	120	20,000	10
39951	3 x 1 x 1/4	180	20,000	10
41513	3 x 1-1/2 x 1/4	60	20,000	10
41514	3 x 1-1/2 x 1/4	80	20,000	10
41515	3 x 1-1/2 x 1/4	120	20,000	10
41044	3 x 2 x 1/4	40	20,000	10
39954	3 x 2 x 1/4	60	20,000	10
39955	3 x 2 x 1/4	80	20,000	10
39956	3 x 2 x 1/4	120	20,000	10

Aluminum Oxide Flap Wheels w ¼-20 in Shank

SKU	Size	Grit	RPM	Box Qty
39964	1 x 1 x 1/4-20	40	30,000	10
39965	1 x 1 x 1/4-20	60	30,000	10
39966	1 x 1 x 1/4-20	80	30,000	10
39967	1 x 1 x 1/4-20	120	30,000	10
39977	1-1/2 x 1 x 1/4-20	40	25,000	10
39978	1-1/2 x 1 x 1/4-20	60	25,000	10
39979	1-1/2 x 1 x 1/4-20	80	25,000	10
40007	2 x 1/2 x 1/4-20	60	25,000	10
40008	2 x 1/2 x 1/4-20	80	25,000	10
39988	2 x 1 x 1/4-20	40	25,000	10
39989	2 x 1 x 1/4-20	60	25,000	10
39990	2 x 1 x 1/4-20	80	25,000	10
39998	2-1/2 x 1 x 1/4-20	60	20,000	10

INTERLEAF FLAP WHEELS

ALUMINUM OXIDE

- Alternating flaps of non-woven and coated abrasive materials for fast, uniform surface preparation and finishes.
- Medium grade wheels easily clean, blend, and deburr 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.



USA MADE

Die Grinder

Interleaf Flap Wheels

SKU	Size	Cloth Density	Grit	RPM	Box Qty
36207	2 x 1 x 1/4	Medium	60	11,000	10
36208	2 x 1 x 1/4	Medium	80	11,000	10
36209	2 x 1 x 1/4	Very Fine	120	11,000	10
36210	2 x 1 x 1/4	Very Fine	180	11,000	10
36211	3 x 1 x 1/4	Medium	60	8,000	10
36212	3 x 1 x 1/4	Medium	80	8,000	10
36213	3 x 1 x 1/4	Very Fine	120	8,000	10
36214	3 x 1 x 1/4	Very Fine	180	8,000	10
36250	3 x 2 x 1/4	Extra Course	60	8,000	10
36215	3 x 2 x 1/4	Medium	60	8,000	10
36216	3 x 2 x 1/4	Medium	80	8,000	10
36217	3 x 2 x 1/4	Very Fine	120	8,000	10
36218	3 x 2 x 1/4	Very Fine	180	8,000	10

MINI FLAP WHEELS

ALUMINUM OXIDE



Mini Flap Wheels

SKU	Size	Grit	RPM	Box Qty
70086	1-3/16 x 3/16 x 1/8	60	38,000	10
70087	1-3/16 x 3/16 x 1/8	80	38,000	10
70088	1-3/16 x 3/16 x 1/8	120	38,000	10

- Quality Aluminum Oxide grain with X-flex weight backing.
- Use on stainless steel, steel, alloyed steel, non-ferrous materials, aluminum, titanium, and glass.

Die Grinder

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.

Die Grinder

USA MADE



Non-Woven Flap Wheels

SKU	Size	Cloth Density	RPM	Box Qty
36450	1 x 1 x 1/4	Coarse	12,000	10
36451	1 x 1 x 1/4	Medium	12,000	10
36452	1 x 1 x 1/4	Fine	12,000	10
36453	2 x 1 x 1/4	Coarse	12,000	10
36454	2 x 1 x 1/4	Medium	12,000	10
36455	2 x 1 x 1/4	Fine	12,000	10
36456	3 x 1 x 1/4	Coarse	10,000	10
36457	3 x 1 x 1/4	Medium	10,000	10
36458	3 x 1 x 1/4	Fine	10,000	10
36459	3 x 2 x 1/4	Coarse	10,000	10
36460	3 x 2 x 1/4	Medium	10,000	10
36461	3 x 2 x 1/4	Fine	10,000	10

UNMOUNTED FLAP WHEELS

ALUMINUM OXIDE

- Quality Aluminum Oxide grain for consistent finishes.
- Unmounted flap wheels are recommended for cleaning, blending, deburring and finishing.



Bench Grinder

Unmounted Flap Wheels									
SKU	Size	Grit	RPM	Box Qty	SKU	Size	Grit	RPM	Box Qty
41045	6 x 1 x 1	40	5,000	5	41056	6 x 1-1/2 x 1	60	5,000	5
41046	6 x 1 x 1	60	5,000	5	41065	6 x 2 x 1	40	5,000	5
41047	6 x 1 x 1	80	5,000	5	41066	6 x 2 x 1	60	5,000	5
41049	6 x 1 x 1	120	5,000	5	41067	6 x 2 x 1	80	5,000	5
41055	6 x 1-1/2 x 1	40	5,000	5	41069	6 x 2 x 1	120	5,000	5

CONVOLUTE WHEELS

ALUMINUM OXIDE **SILICON CARBIDE**

- 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.



Bench Grinder Benchstand Grinder

Medium Aluminum Oxide Convolute Wheels				
SKU	Size	Density/Grade	RPM	Box Qty
70131	6 x 1/2 x 1	8/A Medium	6,000	4
70135	6 x 1 x 1	8/A Medium	6,000	2
70143	8 x 1 x 3	8/A Medium	4,500	2

Fine Silicon Carbide Convolute Wheels				
SKU	Size	Density/Grade	RPM	Box Qty
70130	6 x 1/2 x 1	7/S Fine	6,000	4
70134	6 x 1 x 1	7/S Fine	6,000	2
70132	6 x 1/2 x 1	8/S Fine	6,000	4
70136	6 x 1 x 1	8/S Fine	6,000	2
70144	8 x 1 x 3	8/S Fine	4,500	2
70133	6 x 1/2 x 1	9/S Fine	6,000	4
70137	6 x 1 x 1	9/S Fine	6,000	2
70145	8 x 1 x 3	9/S Fine	4,500	2



CUTTING CONTENT

CUTTING WHEELS	47
SPECIALTY CUTTING WHEELS	51
DIE GRINDER WHEELS	54
STATIONARY & GAS SAW WHEELS	56



FEATURED PRODUCT

LIGHTNING CUT

Cordless cutting made more efficient.

- Thin
- Fast
- Precise

PAGE 40

CGW WHEELS CUT UP TO 30% MORE

READING CUTTING WHEEL SPECIFICATIONS



TYPE

Type 27

WHEEL SIZE

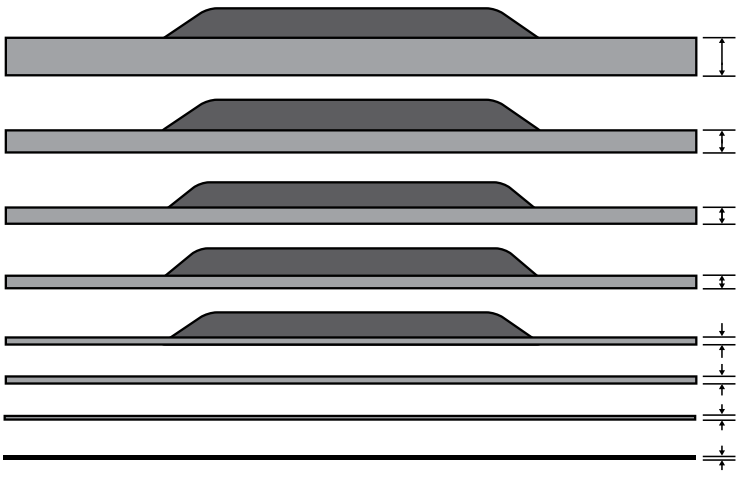
4-1/2	x	.045"	x	7/8
WIDTH		THICKNESS		ARBOR

ABRASIVE GRAIN GUIDE

CER	36	T
Ceramic Grain	Grain Size	Grade

MAXIMUM OPERATING SPEED

80 m/s, MAX.
13,300 R.P.M.



1/4" Grinding, .25, 6.4mm

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

1/8" Cutoff, .125, 3.2mm

3/32" Cutoff, .094, 2.4mm

T27 Quickie Cut, .045, 1.6mm

T1 Quickie Cut, 045, 1.6mm

T1 Quickie Cut, 035, 1.2mm

Lightning Cut, .030, 0.8mm



EXPIRATION DATE

3 years from date of Manufacture

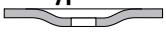
CUTTING ICONS EXPLAINED

WHEEL TYPES

Type 1

Completely flat cut-off wheel for efficient all-purpose cutting

Type 27



Depressed center cut-off wheel for more versatile applications

TOOL TYPES











CERTIFICATIONS



Contaminant free certification for rust & corrosion free results



Approved product from the Organization of Safety Standards

CUTTING WHEELS



BEST

BEST PRODUCTIVITY



BETTER

BEST SELLER



GOOD

BEST VALUE

SELECT THE BEST CUTTING WHEEL FOR YOUR APPLICATION

Grain	Steel	Stainless Steel	Aluminum	Copper	Bronze	All-Purpose
Ceramic	●	○				○
Zirconia	○					●
Aluminun W/Grinding Aid			○	○	○	
White Aluminum Oxide		●				

○=Maximum Output ●=Ideal Output

CROSS REFERENCE CHART / CUTOFF WHEELS



eXtreme Cut II, PSG Ceramic



Quickie Cut, Zirconia



Fast Cut



Al Edge Aluminum w/Grinding Aid

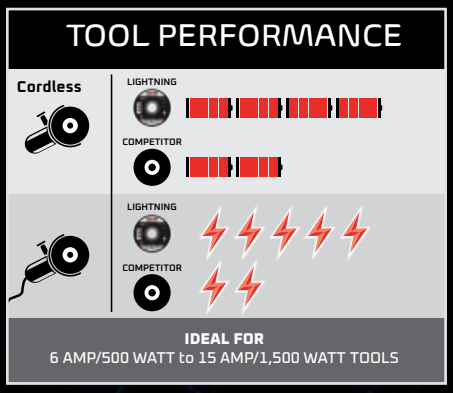
	BEST	BETTER	GOOD	SPECIALTY
NORTON SAINT-GOBAIN	Quantum 3, Blaze	Bluefire, Clipper	Gemini. Metal	AU ALU
3M	C3, C2	Silver	✗	✗
ARC	✗	Predator A60T	✗	Performance Coated A46T
DEWALT	Elite	Elite	HP	HP ALU
METABO	✗	Original, Super, Slicer, Long Life	✗	Plus
PEARL	SlimcutRedline, Slimcut SRT	Slimcut Zirc	Slimcut AO, Slimcut Plus AO	Slimcut ALU, Slimcut Pro-V
PFERD	SG INOX, SGP	SG Elastic, SG Steelox	✗	SG ALU
SAIT	Saitech Ultimate Ceramic	Z-tech Ultimate Cut	A60S	A46N
WALTER SURFACETECNHOLOGIES	Zip XX, Zip SS	Zip Wheel	✗	Zip ALU
WEILER	Tiger Ceramic, Tiger INOX	Tiger Zirc, Tiger Zirc Ultracut	Wolverine, Tiger AO	Tiger ALU60S

LIGHTNING CUT

Cordless Cutting Made More Efficient.

.030
THICKNESS

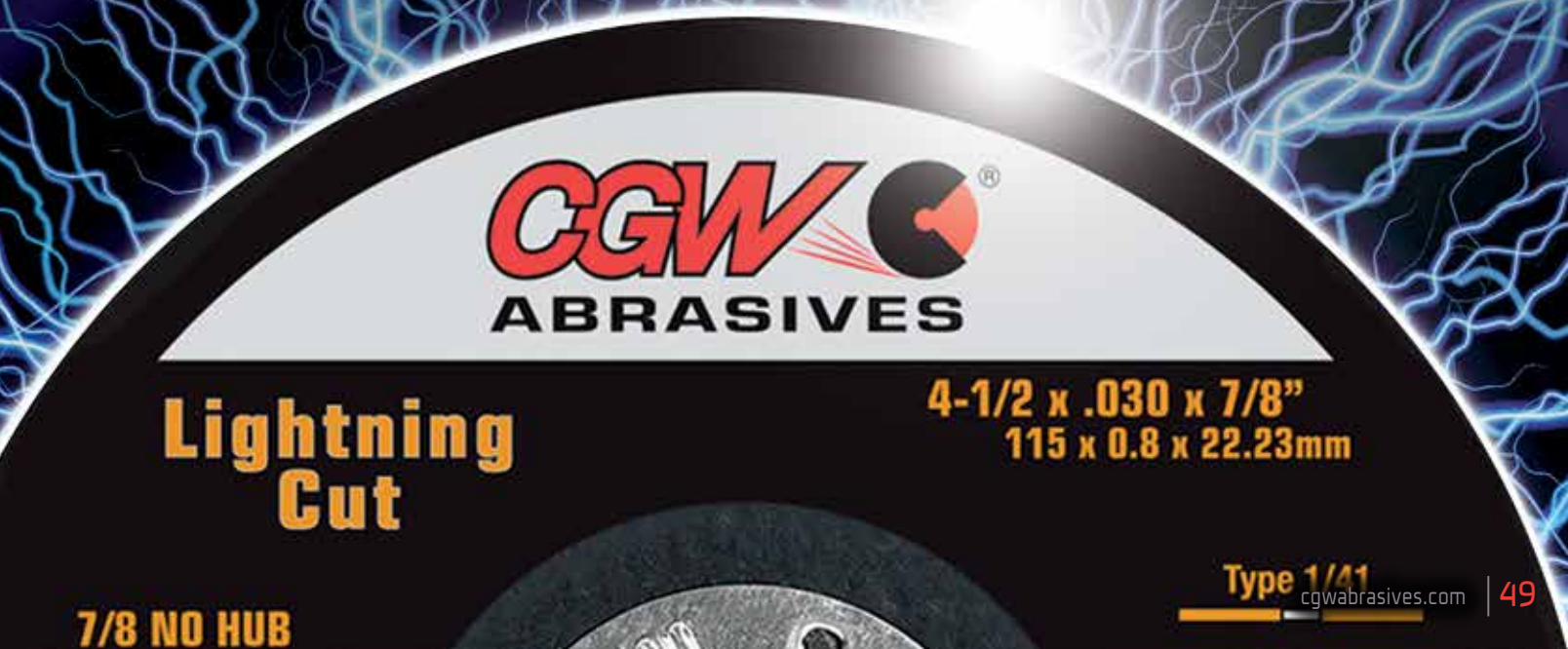
Fast
Precise
Efficient



Our thinnest and lightest wheel ever, made specifically for battery powered low-amp tools. Forged from the highest quality resin, providing an optimal performance to value ratio.

Clean cutting performance with minimal burrs. Perfect for steel and stainless-steel applications. Lightning fast, lightning precision, providing maximum efficiency on cordless tools.

Type 1					
SKU	Size	Grain	RPM	Grit	Box QTY
35150	4-1/2 x .030 x 7/8	White Aluminum Oxide	13,300	46	25



EXTREME SAW BLADE

THE SHARPEST & MOST PRECISE SAW BLADE ON THE MARKET



- Cuts 4X Faster
- Reduced Heat
- Minimal Burrs



Ferrous (CERMET)

- CERMET tips in combination with advanced thin kerf design provide outstanding wear and heat resistance.
- Cut faster with 2X-3X the life of standard carbide tipped blades.
- Precision hardened and tensioned flat plates ensure safer and cooler cuts with less sparks and no need for post-cut deburring and clean-up.
- Lowest cost per cut for angle/channel/tubing/plates.
- Designed to cut mild steel, pipe, angle iron and more.
- Use in dedicated metal cutting saws, and dry cut saws.

Non-Ferrous

- Precision hardened and tensioned flat plates ensure fast, smooth, precise cuts without need of post-cut deburring and clean-up.
- TCG Micro-Grain carbide tips in combination with thin kerf design provide outstanding cut-life.
- Lowest cost per cut for angle/channel/tubing/plates.
- Designed to cut aluminum and other non-ferrous materials.
- Ideal for use in woodworking saws.

Extreme Saw Blade

SKU	Material	Size	Arbor	Thickness	RPM	Box QTY
45400	Aluminum/ Non-ferrous	7-1/4" x 60T	5/8" w KO	1/4"	5,800	1
45401	Aluminum/ Non-ferrous	12" x 80T	1"	3/8"	5,870	1
45402	Heavy Guage Steel	7-1/4" x 36T	5/8" w KO	1/8"-1/4"	4,800	1
45403	Heavy Guage Steel	8" x 42T	5/8" x KO	1/2"	4,300	1
45404	Heavy Guage Steel	12" x 54T	1"	1/8"-1/2"	2,000	1
45405	Heavy Guage Steel	14" x 66T	1"	1/8"-1/2"	1,800	1
45406	Light Guage Steel	14" x 81T	1"	1/4"	1,800	1

ORDERS | QUESTIONS?

800.447.4248
orders@cgwabrasives.com

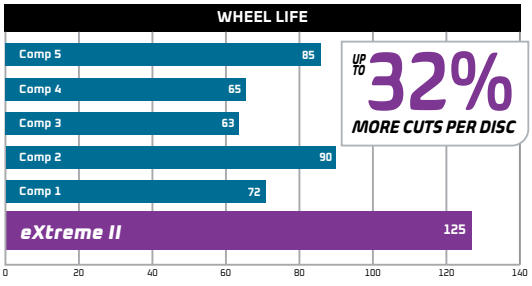
See It In Action



- *Reengineered Formula*
- *Consistent Results*
- *Increased Cut Count*
- *Reduced Operator Fatigue*
- *Extended Lifespan*
- *Versatile Application*
- *Improved Cutting Performance*



The new and improved EXTREME CUT II delivers significantly more cuts per wheel compared to previous formulations, maximizing productivity. Enhanced durability allows for longer usage before replacement, reducing downtime and cost. Optimized ceramic grain structure offers faster, smoother, and cooler cuts with less effort. Performs exceptionally well across a wide range of materials, including hardened steel and stainless alloys.





PREMIUM CERAMIC GRAIN: Self sharpening grain. High performing and high productivity with the best removal rate and long life.

Right Angle Grinder

Type 1

Extreme Cut II | Ceramic | Type 1				
SKU	**Size**	**Spec**	**RPM**	**Box Qty**
54280	4-1/2 x .045 x 7/8	CER36T	13,300	25
54281	5 x .045 x 7/8	CER36T	12,200	25
54282	6 x .045 x 7/8	CER36T	10,200	25

Type 27

Extreme Cut II | Ceramic | Type 27				
SKU	**Size**	**Spec**	**RPM**	**Box Qty**
54283	4-1/2 x .045 x 7/8	CER36T	13,300	25
54284	4-1/2 x .045 x 5/8-11	CER36T	13,300	10
54285	5 x .045 x 7/8	CER36T	12,200	25
54286	5 x .045 x 5/8-11	CER36T	12,200	10
54287	6 x .045 x 7/8	CER36T	10,200	25
54288	6 x .045 x 5/8-11	CER36T	10,200	10

Quickie Cut™

STRAIGHT CUT-OFF WHEELS, TYPE 1, ENGINEERED IN BOTH A FLEX AND RIGID DESIGN

BETTER **ZIRCONIA**

- A Zirconia and Aluminum Oxide mixture allowing for faster cutting and longer life.
- Excellent on steel and stainless steel.



Flex



Rigid



Type 1

Right Angle Grinder

FLEX				
SKU	Size	Spec	RPM	Box Qty
45014	4 x .040 x 5/8	ZA60T	15,300	25
45010	4-1/2 x .035 x 7/8	ZA60T	13,300	25
45011	5 x .040 x 7/8	ZA60T	12,200	25
45012	6 x .040 x 7/8	ZA60T	10,200	25
45013	7 x .045 x 7/8	ZA60T	8,500	25

RIGID				
SKU	Size	Spec	RPM	Box Qty
35514	4-1/2 x .045 x 7/8	ZA36T	13,300	25
35516	5 x .045 x 7/8	ZA36T	12,200	25
35517	6 x .045 x 7/8	ZA36T	10,200	25
35518	7 x .045 x 7/8	ZA36T	8,500	25

DEPRESSED CENTER CUT-OFF WHEELS, TYPE 27

BETTER **ZIRCONIA**



Type 27

Right Angle Grinder

Quickie Cut | Type 27				
SKU	Size	Spec	RPM	Box Qty
45001	4-1/2 x .045 x 5/8	ZA60S	15,300	25
45002	4-1/2 x .045 x 7/8	ZA60S	13,300	25
45141	4-1/2 x .045 x 5/8-11	ZA60S	13,300	10
45005	5 x .045 x 7/8	ZA60S	12,200	25
45142	5 x .045 x 5/8-11	ZA60S	12,200	10
45007	6 x .045 x 7/8	ZA60S	10,200	25

SKU	Size	Spec	RPM	Box Qty
45143	6 x .045 x 5/8-11	ZA60S	10,200	10
45008	7 x .045 x 7/8	ZA60S	8,500	25
45144	7 x .045 x 5/8-11	ZA60S	8,500	10
45047	9 x .045 x 7/8	ZA60S	6,600	25
45145	9 x .045 x 5/8-11	ZA60S	6,600	10

CONTAMINANT-FREE CUT-OFF WHEELS, TYPE 1 & 27

WHITE ALUMINUM OXIDE

- 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.



Type 1

Right Angle Grinder

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

Type 27

Contaminant-Free Cut-Off Wheels | Type 1				
SKU	Size	Spec	RPM	Box Qty
35515	4-1/2 x .045 x 7/8	WA36T	13,300	25
36301	5 x .045 x 7/8	WA36T	12,200	25
36302	6 x .045 x 7/8	WA36T	10,200	25
53260	9 x .045 x 7/8	WA36T	6,600	25

Contaminant-Free Cut-Off Wheels | Type 27				
SKU	Size	Spec	RPM	Box Qty
45003	4-1/2 x .045 x 7/8	WA60R	13,300	25
45154	4-1/2 x .045 x 5/8-11	WA60R	13,300	10
45006	5 x .045 x 7/8	WA60R	12,200	25
45017	6 x .045 x 7/8	WA60R	10,200	25
45009	7 x .045 x 7/8	WA60R	8,500	25

ALUMINUM W/GRINDING AID CUT OFF WHEELS, TYPE 1 & 27

NEW LOOK SAME FORMULA

ALUMINUM OXIDE

- Premium Aluminum Oxide grain 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.



Type 1

Right Angle Grinder

Type 27

Aluminum W/Grinding Aid Cut-Off Wheels | Type 1				
SKU	Size	Spec	RPM	Box Qty
53255	4-1/2 x .045 x 7/8	A46N	13,300	25
53256	5 x .045 x 7/8	A46N	12,200	25

Aluminum W/Grinding Aid Cut-Off Wheels | Type 27				
SKU	Size	Spec	RPM	Box Qty
45004	4-1/2 x .045 x 7/8	A46N	13,300	25
70114	5 x .045 x 7/8	A46N	12,200	25
70115	6 x .045 x 7/8	A46N	10,200	25

3-IN-1 WHEELS .094 CUT/GRIND/FINISH – *HIGH PERFORMANCE!*

ALUMINUM OXIDE



- High performance wheels made to cut quickly, grind easily and finish work surfaces with ONE wheel.
- Contaminant free wheel has ≤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.

Type 27

Right Angle Grinder

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

CUT 90° GRIND 30° FINISH 15°

3-in-1 Wheel

3-in-1 Wheels | .094, Cut/Grind/Finish | Type 27				
SKU	Size	Spec	RPM	Box 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	12,200	25
45221	5 x .094 (3/32) x 5/8-11	A36S	12,200	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

THIN REINFORCED CUT-OFF WHEELS

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.

Type 27

Right Angle Grinder

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

Thin Reinforced Cut-Off Wheels | Type 27				
SKU	Size	Spec	RPM	Box Qty
45020	4-1/2 x 3/32 x 7/8	WA36S	13,300	25
45021	4-1/2 x 3/32 x 5/8-11	WA36S	13,300	10
45024	6 x 3/32 x 7/8	WA36S	10,200	25
45025	6 x 3/32 x 5/8-11	WA36S	10,200	10
45026	7 x 3/32 x 7/8	WA36S	8,500	25
45027	7 x 3/32 x 5/8-11	WA36S	8,500	10

1/8" (.125) DEPRESSED CENTER CUTTING AND NOTCHING WHEELS

ALUMINUM OXIDE **BETTER**



- Premium wheels made from superior raw materials and advanced technologies for longer working life.
- Ultra Wheels give consistent cutting action for faster and easier performance.
- **A24R: Aluminum Oxide** grain. R-grade bond for fast cutting and long life. Works well on steel, cast iron, and welds.

Type 27



Ultra | Type 27 | Aluminum Oxide									
SKU	Size	Spec	RPM	Box Qty	SKU	Size	Spec	RPM	Box Qty
35612	4-1/2 x 1/8 x 7/8	A24R	13,300	25	35631	6 x 1/8 x 5/8-11	A24R	10,200	10
35613	4-1/2 x 1/8 x 5/8-11	A24R	13,300	10	35634	7 x 1/8 x 7/8	A24R	8,600	25
35675	5 x 1/8 x 7/8	A24R	12,250	25	35635	7 x 1/8 x 5/8-11	A24R	8,600	10
35676	5 x 1/8 x 5/8-11	A24R	12,250	10	35648	9 x 1/8 x 7/8	A24R	6,650	25
35630	6 x 1/8 x 7/8	A24R	10,200	25	35649	9 x 1/8 x 5/8-11	A24R	6,650	10

1/8" (.125) WHITE ALUMINUM OXIDE CUTTING & NOTCHING WHEELS

WHITE



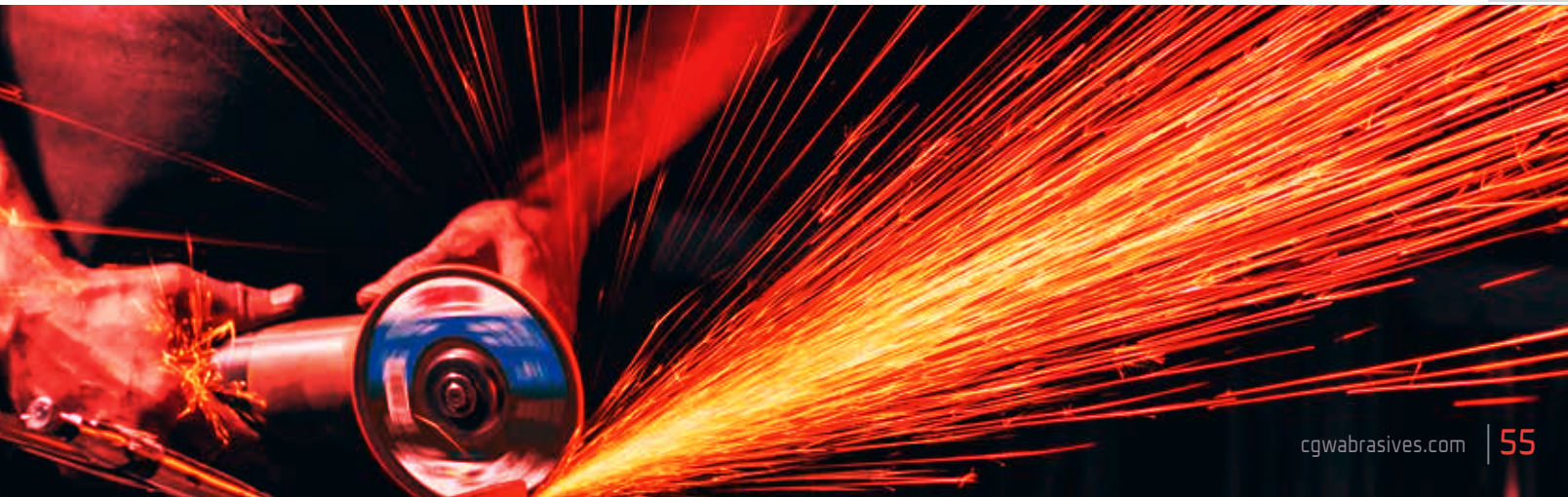
- **White Aluminum Oxide** grain with S-grade bond. Contaminant-free design for fast-cutting of stainless steel & ferrous metals. Contains less than .01% iron, sulfur, or chlorine for rust-free and corrosion-free results.

Type 27





Ultra | Type 27 | White Aluminum Oxide | Stainless Steel				
SKU	Size	Spec	RPM	Box Qty
35616	4-1/2 x 1/8 x 7/8	WA24S	13,300	25
35617	4-1/2 x 1/8 x 5/8-11	WA24S	13,300	10
36189	6 x 1/8 x 7/8	WA24S	10,200	25
36190	6 x 1/8 x 5/8-11	WA24S	10,200	10



CERAMIC DIE GRINDER WHEELS

BEST | CERAMIC

Type 1





Ceramic Die Grinder Wheels				
SKU	Size	Spec	RPM	Box Qty
36181	3 x 1/32 x 3/8	CE46V	25,000	50
36182	3 x 1/16 x 3/8	CE46V	25,000	50
36183	4 x 1/32 x 3/8	CE46V	19,100	50
36184	4 x 1/16 x 3/8	CE46V	19,100	50

ZIRCONIA DIE GRINDER WHEELS,1/4" & 3/8" ARBOR HOLE

BETTER | ZIRCONIA

Type 1





Zirconia Die Grinder Wheels | 1/4" Arbor				
SKU	Size	Spec	RPM	Box Qty
36175	3 x 1/32	Z60T	25,000	50
36173	3 x 1/16	Z60T	25,000	50

Zirconia Die Grinder Wheels | 3/8" Arbor				
SKU	Size	Spec	RPM	Box Qty
36176	3 x 1/32	Z60T	25,000	50
36174	3 x 1/16	Z60T	25,000	50
36180	4 x 1/32	Z60T	19,100	50
36178	4 x 1/16	Z60T	19,100	50

DIE GRINDER MANDREL ADAPTOR

Die Grinder Mandrel Adaptor		
SKU	Size	Box Qty
48227	1/4"-3/8" Mandrel Adaptor	1
48245	3/8"-24 Mandrel Adaptor	1



ALUMINUM OXIDE DIE GRINDER WHEELS

GOOD | ALUMINUM OXIDE

- **A:** Aluminum Oxide for cutting steel.

Type 1





Aluminum Oxide Die Grinder Wheels | 1/4" Arbor Hole

SKU	Size	Spec	Type	RPM	Box Qty
35687	1-1/2 x 1/32	A60R	R	45,000	50
45066	2 x 1/16	A60R	R	30,000	50
35500	3 x 1/32	A60T	R	23,900	50
35502	3 x 1/16	A46T	R	23,900	50
45085	3 x 1/16	A46T	R	23,900	50
35504	3 x 1/8	A46T	R	23,900	25
35506	4 x 1/32	A60T	R	22,000	50
35508	4 x 1/16	A46T	R	22,000	50
45088	4 x 1/16	A46T	R	22,000	50
35511	4 x 1/8	A46T	R	22,000	25

Aluminum Oxide Die Grinder Wheels | 5/8" Arbor Hole

SKU	Size	Spec	RPM	Box Qty
35510	4 x 1/16	A46T	22,000	50

Aluminum Oxide Die Grinder Wheels | 3/8" Arbor Hole

SKU	Size	Spec	RPM	Box Qty
35688	1-1/2 x 1/32	A60R	45,000	50
35689	2 x 1/32	A60R	30,000	50
35690	2 x 1/16	A60R	30,000	50
35691	2 x 1/8	A24R	30,000	50
35501	3 x 1/32	A60T	23,900	50
35503	3 x 1/16	A46T	23,900	50
45086	3 x 1/16	A46T	23,900	50
35505	3 x 1/8	A46T	23,900	25
35507	4 x 1/32	A46T	22,000	50
35509	4 x 1/16	A46T	22,000	50
45087	4 x 1/16	A46T	22,000	50
35512	4 x 1/8	A46T	22,000	25

PREMIUM & PRIMARY BOND 12-20" STATIONARY SAW WHEELS

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

- A: Aluminum Oxide – Metal & Steel.

Type 1





Stationary Saw Wheels | Premium Bond

SKU	Siz	Spec	RPM	Box Qty
35582	14 x 1/8 x 1	A24R	4,400	10
35584	16 x 5/32 x 1	A24R	3,820	10
35851	20 x 7/32 x 1	A30R	3,100	10

Stationary Saw Wheels | Primary Bond

SKU	Size	Spec	RPM	Box Qty
70105	12 x 1/8 x 1	A24R	5,100	10
70108	20 x 5/32 x 1	A24R	3,100	10
70109	20 x 3/16 x 1	A24R	3,100	10

12 – 16" CHOP SAW WHEELS

ALUMINUM OXIDE

- **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.

Type 1



10"-16" Chop Saw Wheels					
SKU	Size	Spec	RPM	Box Qty	Layers
35575	12 x 3/32 x 1	A36P	5,100	10	DR
35576	14 x 3/32 x 1	A36P	4,400	10	DR
35670	14 x 3/32 x 1	A30P	4,400	10	SR
36234	14 x 7/64 x 1	A36S	4,400	10	DR
36133	16 x 3/32 x 1	A36P	3,820	10	DR

14" CHOP SAW SPECIALTY WHEELS

ZIRCONIA

14" Specialty Chop Saw Wheel For Iron/Heavy Bars

- Zirconia grain, excellent on all ferrous metal applications, especially thicker stock.
- Our #1 performing chop saw cut-off wheel.

Type 1



14" Chop Saw Specialty Wheels					
SKU	Size	Spec	RPM	Box Qty	Layers
36125	14 x 3/32 x 1	ZA24S	4,400	10	DR

WHITE ALUMINUM

14" Specialty Chop Saw Wheel For Stainless Steel

- Designed for stainless steel applications.
- Contaminant-Free, Fe+S+Cl≤0.1%

14" Speialty Chop Saw Wheels for Stainless Wheels					
SKU	Size	Spec	RPM	Box Qty	Layers
36123	14 x 3/32 x 1	WA36P	4,400	10	SR

ALUMINUM OXIDE

14" Specialty Chop Saw Wheel For Studs

- Designed for aluminum drywall stud, aluminum shelving, light gauge steel.

14" Speialty Chop Saw Wheels for Studs					
SKU	Size	Spec	RPM	Box Qty	Layers
36124	14 x 3/32 x 1	A30R	4,400	10	DR

ALUMINUM OXIDE

14" Chop Saw Wheel For Aluminum

- Aluminum Oxide – Special non-loading formulation for cutting aluminum.

14" Chop Saw Wheel for Aluminum					
SKU	Size	Grit	RPM	Box Qty	Layers
36122	14 x 3/32 x 1	A30N	4,400	10	DR

12-16" GENERAL USE HIGH SPEED GAS SAWS FOR METAL, STEEL & STAINLESS

ALUMINUM OXIDE

Type 1

Gas Saw

General Use High Speed Gas Saw | Metal, Steel, & Stainless					
SKU	Size	Spec	RPM	Box Qty	Layers
35587	12 x 5/32 x 20mm	A24R	6,400	10	DR
35589	12 x 5/32 x 1	A24R	6,400	10	DR
36158	14 x 5/32 x 20mm	A24R	5,500	10	DR
36159	14 x 5/32 x 1	A24R	5,500	10	DR
35599	14 x 5/32 x 20mm	A24R-TR	5,500	10	TR
35600	14 x 5/32 x 1	A24R-TR	5,500	10	TR
36143	16 x 5/32 x 1	A24R-TR	4,800	10	TR



EB – Electronically Balanced. All 12-14" wheels are safer, cause less vibration and are more consistent.

Triple reinforced (TR) to provide extra safety.

12-16" HIGH SPEED GAS SAWS FOR DUCTILE IRON

ALUMINUM OXIDE/SILICON CARBIDE

Type 1

Gas Saw

High Speed Gas Saw | Ductile Iron					
SKU	Size	Spec	RPM	Box Qty	Layers
36160	14 x 5/32 x 20mm	AC24R	5,500	10	DR
36161	14 x 5/32 x 1	AC24R	5,500	10	DR
35601	14 x 5/32 x 20mm	A24R-TR	5,500	10	TR
35602	14 x 5/32 x 1	A24R-TR	5,500	10	TR

14-16" RAIL TRACK CUT-OFF WHEELS

ZIRCONIA

- Premium mix of Zirconia and Aluminum Oxide to maximize number of cuts while cutting quickly and not burning the work piece.

Gas Saw

Rail Track Cut-Off Wheels					
SKU	Size	Spec	RPM	Box Qty	Layers
36162	14 x 1/8 x 1	ZA24R	5,500	10	DR
36163	16 x 1/8 x 1	ZA24R	4,800	10	DR





HEAVY GRINDING CONTENT

GRINDING WHEELS 62

RESIN CONES & PLUGS 68



FEATURED PRODUCT

QUICKIE GRIND/ PIPELINE

Backed by a premium zirconia grain.

- Reengineered
- Increased Removal Rate
- Improved Wheel Life

PAGE 62

20% MORE

REMOVAL & DISC LIFE THAN OUR NEAREST COMPETITOR

READING GRINDING WHEEL SPECIFICATIONS



TYPE

Type 27

WHEEL SIZE

5" WIDTH x 1/4" THICKNESS

ABRASIVE GRAIN GUIDE

CER	24	T
Ceramic Grain	Grain Size	Grade

MAXIMUM OPERATING SPEED

80 m/s, MAX.
12,200 R.P.M.

GRAIN SIZE	
COARSE	8, 10, 12, 14, 16, 20, 24
MEDIUM	30, 36, 46, 54, 60
FINE	80, 100, 120, 150, 180
VERY FINE	220, 240, 320, 400, 600

GRADE	
SOFT	B, D, E, F, G, H
MEDIUM	I, J, K, L, M, N, O, P
HARD	Q, R, S, T, U, V, W, X

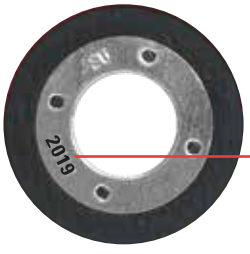
WHEEL THICKNESS



1/4" Grinding, .25, 6.4mm

1/8" Pipeline Grind/Cut, .160, 4mm

1/8" Grinding, .125, 3.2mm

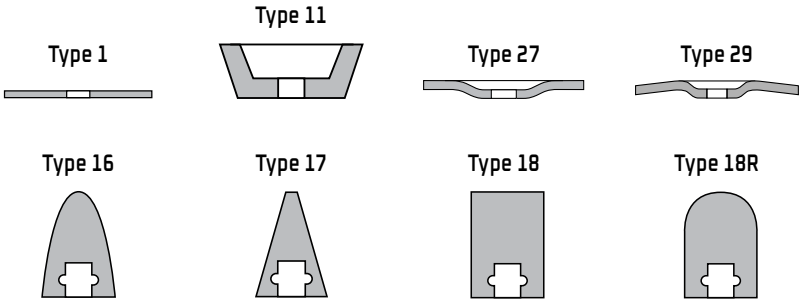


EXPIRATION DATE

3 years from date of Manufacture

GRINDING ICONS EXPLAINED

WHEEL TYPES



TOOL TYPES



CERTIFICATIONS

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

Contaminant free certification for rust & corrosion free results

OSA®

Approved product from the Organization of Safety Standards

GRINDING WHEELS



BEST

BEST PRODUCTIVITY



BETTER

BEST SELLER



GOOD

BEST VALUE

GRINDING WHEEL APPLICATION CHART						
	Mild Steel	Hardened Steel	Stainless Steel	Exotic Metals	Aluminum	Non-Ferrous
CERT24 T		⭘	⭘	⭘		
ZA24T	⭘	•	•	•		
WA24T			•			
A24R	•					
A30N					⭘	⭘

⭘ = Maximum Output • = Ideal Output

NEW AND IMPROVED FORMULAS

QUICKIEGRIND & PIPELINE

A new & improved formula backed by a premium zirconia grain. These premium quick grind discs are the new standard for high efficiency grinding wheels. Ideal for steel, cast iron & stainless-steel applications.

- REENGINEERED
- INCREASED REMOVAL RATE
- IMPROVED WHEEL LIFE

Pipeline | Zirconia Grain | Type 27

UPC	Size	Spec	RPM	Box Qty
35667	4-1/2 x 1/8 x 7/8	ZA24T	13,300	25
35665	4-1/2 x 1/8 x 5/8-11	ZA24T	13,300	10
45204	5 x 1/8 x 7/8	ZA24T	12,250	25
45205	5 x 1/8 x 5/8-11	ZA24T	12,250	10
45203	6 x 1/8 x 7/8	ZA24T	10,200	25
45202	6 x 1/8 x 5/8-11	ZA24T	10,200	10
35681	7 x 1/8 x 7/8	ZA24T	8,600	25
35682	7 x 1/8 x 5/8-11	ZA24T	8,600	10
35683	9 x 1/8 x 7/8	ZA24T	6,600	25
35684	9 x 1/8 x 5/8-11	ZA24T	6,600	10

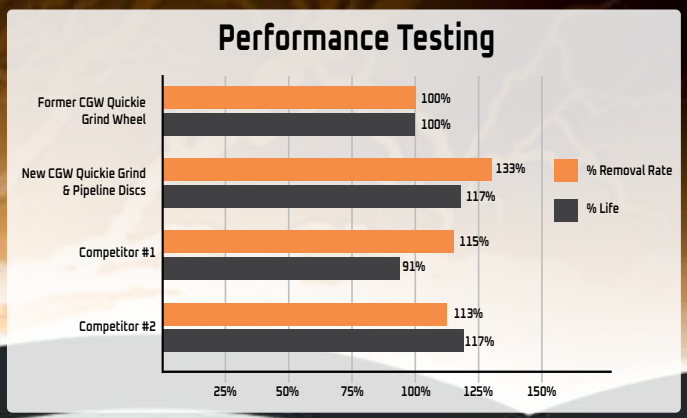
Quickie Grind | Zirconia Grain | Type 27

UPC	Size	Spec	RPM	Box Qty
35619	4 x 1/4 x 3/8	ZA24T	15,300	25
35618	4 x1/4 x 5/8	ZA24T	15,300	25
35624	4-1/2 x 1/4 x 7/8	ZA24T	13,300	25
35625	4-1/2 x 1/4 x 5/8-11	ZA24T	13,300	10
37535	5 x 1/4 x 7/8	ZA24T	12,250	25
37530	5 x 1/4 x 5/8-11	ZA24T	12,250	10
45039	6 x 1/4 x 7/8	ZA24T	10,200	25
45040	6 x 1/4 x 5/8-11	ZA24T	10,200	10
35644	7 x 1/4 x 7/8	ZA24T	8,600	25
35645	7 x 1/4 x 5/8-11	ZA24T	8,600	10
35658	9 x 1/4 x 7/8	ZA24T	6,600	25
35659	9 x 1/4 x 5/8-11	ZA24T	6,600	10

Zirconia Grain



Right Angle Grinder



CGW ABRASIVES

CGW ABRASIVES

Quickie Grind

Quickie Cut & Grind PIPELINE 4-

Notching, Cutting and Light Grin

CROSS REFERENCE CHART / GRINDING WHEELS








	eXtreme Ceramic	Quickie Grind, Zirconia	PIPELINE	Ultra AO	Fast Cut	UltraWA
	BEST	BETTER			GOOD	
NORTON SAINT-GOBAIN	Quantum 3, Ceramic	BlueFire	Gemini Combo/Pipeline	Gemini	Gemini-Fast Cut Metal, Clipper	⊗
3M	Cubitron II, Cubitron III, Silver, Green Corps	⊗	⊗	General Purpose	⊗	⊗
ARC	⊗	⊗	⊗	Predator	⊗	⊗
DEWALT	XP Ceramic	Elite Series	Pipeliner	HP	Metal	⊗
METABO	M-Calibur	Plus-Z	Plus-Z	Long Life	Original	Plus-Z
PEARL	SRT, CBT	Redline	CBT PRO	Premium	Silverline	⊗
PFERD	SGP Steelox	Zirkon	SGP/PSF Steelox	Steel PSF	Steel SG	SGP/PSF Steelox
SAIT	Ultimate Performance, Ultimate Grind Ceramic	The Ultimate Grind, Sait Z-tech	Sait Grind CF XA24Q	Long Life, General Purpose, Tough Grind, Attacker	Fast Grind	Sait Grind CF XA24Q
WALTER SURFACE-TECHNOLOGIES	Xcavator XX	Xcavator	Stainless	HP XX	HP	Stainless
WEILER	Tiger Ceramic	Tiger Zirc	Tiger Inox	Wolverine	Wolverine	Tiger Inox

eXtreme GRINDING WHEELS

BEST **CERAMIC**



- Extremely fast stock removal – high performance CERAMIC grain.
- Advanced bonding system – specially engineered to provide longer life and fast grind.
- Dual layer structure:
  - Grinding layer with aggressive coarse ceramic grains
  - Supporting layer for better surface finish and smoother grinding
- High density, uniform grain structure is self-sharpening and provides a cooler cut.
- Labor cost savings – grinds fast and much more efficiently compared to conventional grinding wheels.
- Can be used on steel, stainless steel, and high tensile metals.
- Best choice for heavy material removal applications.
- Maximum performance on high power machines.

Type 27

Right Angle Grinder

eXtreme Grind | Type 27 | Ceramic

SKU	Size	Spec	RPM	Box Qty	SKU	Size	Spec	RPM	Box Qty
54270	4-1/2 x 1/4 x 7/8	CER24T	13,300	25	54274	6 x 1/4 x 7/8	CER24T	10,200	25
54271	4-1/2 x 1/4 x 5/8-11	CER24T	13,300	10	54275	6 x 1/4 x 5/8-11	CER24T	10,200	10
54272	5 x 1/4 x 7/8	CER24T	12,250	25	54276	7 x 1/4 x 7/8	CER24T	8,500	25
54273	5 x 1/4 x 5/8-11	CER24T	12,250	10	54277	7 x 1/4 x 5/8-11	CER24T	8,500	10

1/4" (.25, 6.4MM) DEPRESSED CENTER GRINDING WHEELS

BETTER **ALUMINUM OXIDE**

- **A24R: Aluminum Oxide Grain**
- #1 selling 1/4" Depressed Center Grinding Wheel.
- R-grade bond for longer life and excellent stock removal.

#1 BEST SELLER

Our Best Selling Grinding Wheel



Type 27

Right Angle Grinder

Ultra | Type 27 | Aluminum Oxide

SKU	Size	Spec	RPM	Box Qty	SKU	Size	Spec	RPM	Box Qty
35620	4-1/2 x 1/4 x 7/8	A24R	13,300	25	35633	6 x 1/4 x 5/8-11	A24R	10,200	10
35621	4-1/2 x 1/4 x 5/8-11	A24R	13,300	10	35640	7 x 1/4 x 7/8	A24R	8,600	25
35626	5 x 1/4 x 7/8	A24R	12,250	25	35641	7 x 1/4 x 5/8-11	A24R	8,600	10
35628	5 x 1/4 x 5/8-11	A24R	12,250	10	35654	9 x 1/4 x 7/8	A24R	6,600	25
35632	6 x 1/4 x 7/8	A24R	10,200	25	35655	9 x 1/4 x 5/8-11	A24R	6,600	10

WHITE ALUMINUM OXIDE STAINLESS STEEL GRINDING WHEELS

WHITE ALUMINUM OXIDE

- Contaminant-free design for fast-cutting of stainless steel, ferrous metals.
- Contains less than .01% iron, sulfur, or chlorine for rust-free and corrosion-free results.

Type 27

CF0 CONTAMINANT-FREE Iron, Sulfur, and Chlorine ≤ 0.1%

Right Angle Grinder



1/4" (.25) | Stainless Steel | Type 27 | White Aluminum Oxide				
SKU	Size	Spec	RPM	Box Qty
35673	4-1/2 x 1/4 x 7/8	WA24S	13,300	25
35674	4-1/2 x 1/4 x 5/8-11	WA24S	13,300	10
37543	5 x 1/4 x 7/8	WA24S	12,250	25
37531	5 x 1/4 x 5/8-11	WA24S	12,250	10
45048	6 x 1/4 x 7/8	WA24S	10,200	25
45049	6 x 1/4 x 5/8-11	WA24S	10,200	10
35677	7 x 1/4 x 7/8	WA24S	8,600	25
35678	7 x 1/4 x 5/8-11	WA24S	8,600	10
45081	9 x 1/4 x 7/8	WA24S	6,600	25
45082	9 x 1/4 x 5/8-11	WA24S	6,600	10

Fast Cut 1/4" (.25) DEPRESSED CENTER GRINDING WHEELS

GOOD **ALUMINUM OXIDE**

A24N *Fast Cut:* Aluminum Oxide Grain

- Soft N-grade bond for fast stock removal.
- Excellent ratio of stock removal/wheel loss.

A24R *Fast Cut:* Aluminum Oxide Grain

- R-grade bond for excellent life and stock removal.

Type 27

Right Angle Grinder



Fast Cut | Type 27 | Aluminum Oxide | N - Grade Bond				
SKU	Size	Spec	RPM	Box Qty
35699	4-1/2 x 1/4 x 5/8	A24N	15,300	25
35622	4-1/2 x 1/4 x 7/8	A24N	13,300	25
35623	4-1/2 x 1/4 x 5/8-11	A24N	13,300	10
35627	5 x 1/4 x 7/8	A24N	12,250	25
35629	5 x 1/4 x 5/8-11	A24N	12,250	10
36231	6 x 1/4 x 7/8	A24N	10,200	25
36232	6 x 1/4 x 5/8-11	A24N	10,200	10
35642	7 x 1/4 x 7/8	A24N	8,600	25
35643	7 x 1/4 x 5/8-11	A24N	8,600	10
35656	9 x 1/4 x 7/8	A24N	6,600	25
35657	9 x 1/4 x 5/8-11	A24N	6,600	10

Fast Cut | Type 27 | Aluminum Oxide | R - Grade Bond				
SKU	Size	Spec	RPM	Box Qty
36255	4-1/2 x 1/4 x 7/8	A24R	13,300	25
36256	4-1/2 x 1/4 x 5/8-11	A24R	13,300	10
36259	6 x 1/4 x 7/8	A24R	10,200	25
36260	6 x 1/4 x 5/8-11	A24R	10,200	10
36261	7 x 1/4 x 7/8	A24R	8,600	25
36262	7 x 1/4 x 5/8-11	A24R	8,600	10

ALUMINUM W/GRINDING AID DEPRESSED CENTER WHEELS

NEW LOOK SAME FORMULA

ALUMINUM | ALUMINUM OXIDE

- **Premium AO Grain – Aluminum A30N**
- 1/4" (.25 Thick) Type 27 grinding wheels for aluminum guaranteed to outperform competitor wheels.
- Soft N-grade bond for weld removal.
- Recommended for aluminum, copper, zinc, and other non-ferrous materials.



Type 27

Right Angle Grinder

Aluminum | Type 27 | Aluminum Oxide

SKU	Size	Spec	RPM	Box Qty	SKU	Size	Spec	RPM	Box Qty
36107	4-1/2 x 1/4 x 7/8	A30N	13,300	25	36110	5 x 1/4 x 5/8-11	A30N	12,200	10
36108	4-1/2 x 1/4 x 5/8-11	A30N	13,300	10	36156	9 x 1/4 x 7/8	A30N	6,600	25
36109	5 x 1/4 x 7/8	A30N	12,200	25	36157	9 x 1/4 x 5/8-11	A30N	6,600	10

1/8" (.160) ULTRA PIPELINE T-BOND GRINDING WHEELS

BETTER | ALUMINUM OXIDE

- Ideal for cutting & light grinding.



Type 27

Right Angle Grinder

Ultra T-Bond | Type 27 | Aluminum Oxide

SKU	Size	Spec	RPM	Box Qty
35666	4-1/2 x 1/8 x 7/8	A24T	13,300	25
35664	4-1/2 x 1/8 x 5/8-11	A24T	13,300	10
45200	5 x 1/8 x 7/8	A24T	12,250	25
45201	5 x 1/8 x 5/8-11	A24T	12,250	10
45206	6 x 1/8 x 7/8	A24T	10,200	25
45207	6 x 1/8 x 5/8-11	A24T	10,200	10
35679	7 x 1/8 x 7/8	A24T	8,600	25
35680	7 x 1/8 x 5/8-11	A24T	8,600	10

Fast Cut 1/8" (.160) PIPELINE T-BOND GRINDING WHEELS

GOOD



Type 27

Right Angle Grinder

Fast Cut T-Bond | Type 27 | Aluminum Oxide

SKU	Size	Spec	RPM	Box Qty
59100	4-1/2 x 1/8 x 7/8	A24T	13,300	25
59101	4-1/2 x 1/8 x 5/8-11	A24T	13,300	10
36246	6 x 1/8 x 7/8	A24T	10,200	25
36247	6 x 1/8 x 5/8-11	A24T	10,200	10
36248	9 x 1/8 x 7/8	A24T	6,650	25
36249	9 x 1/8 x 5/8-11	A24T	6,650	10

C3 GREEN WHEEL

BEST **CERAMIC**

- High concentration of ceramic grain provides for very fast grinding and long life.
- Contains less than 0.1% of iron , sulfur & chlorine.
- Use on: stainless steel, steel, hard face, titanium, inconel, aluminum.

Type 27



1/8" / 3.2mm / .125

Aluminum C3 Grinding Wheels | Ceramic | Type 27				
SKU	Size	Spec	RPM	Box Qty
49750	4-1/2 x 1/8 x 7/8	ASL36P	13,300	25
49751	4-1/2 x 1/8 x 5/8-11	ASL36P	13,300	10

GREEN GRIND GRINDING WHEELS

BETTER **ZIRCONIA**

- Zirconia Premium grain allows for high performance grinding action.
- Faster metal removal than aluminum oxide wheels.
- Ideal for tank fabrication, power plant maintenance and metal fabrication.
- Contains less than 0.1% of iron, sulfur & chlorine.
- 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, steel, hard face, titanium, inconel, aluminum.

Type 27



5/32" / 4mm / .16

Aluminum Green Grind Grinding Wheels | Zirconia | Type 27									
SKU	Size	Spec	RPM	Box Qty	SKU	Size	Spec	RPM	Box Qty
49543	4-1/2 x 5/32 x 7/8	ZA36	13,300	25	49548	7 x 5/32 x 5/8-11	ZA36	8,500	10
49544	4-1/2 x 5/32 x 5/8-11	ZA36	13,300	10	49752	4-1/2 x 1/4 x 7/8	ZA36	13,300	10
49545	5 x 5/32 x 7/8	ZA36	12,250	25	49753	4-1/2 x 1/4 x 5/8-11	ZA36	13,300	10
49547	7 x 5/32 x 7/8	ZA36	8,500	25					

MINI DEPRESSED CENTER GRINDING WHEEL

ALUMINUM OXIDE

- 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.



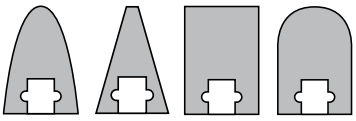
Type 27



Mini Grinding Discs | Aluminum Oxide				
SKU	Size	Spec	RPM	Box 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

RESIN CONES & PLUGS

- **A:** Aluminum Oxide Grain; Used for grinding and finishing metals in hard to reach areas.







Resin Cones | Aluminum Oxide | Type 16				
SKU	Size	Spec	RPM	Box Qty
49017	1-1/2 x 2-1/2 x 5/8-11	A16R	24,100	10
49018	1-1/2 x 3 x 3/8-24	A16R	24,100	10
49019	1-1/2 x 3 x 5/8-11	A16R	24,100	10
36238	2 x 3 x 5/8-11	A24R	18,800	10
49021	2 x 3 x 5/8-11	A16R	18,800	10
49022	2-3/4 x 3-1/2 x 5/8-11	A16R	13,200	10
49023	3 x 3 x 5/8-11	A16R	13,200	10

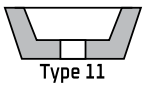
Resin Cones | Aluminum Oxide | Type 17				
SKU	Size	Spec	RPM	Box Qty
49027	1-1/2 x 2-1/2 x 5/8-11	A16R	24,100	10
49028	2-1/2 x 3 x 5/8-11	A16R	18,800	10
49029	2 x 3 x 5/8-11	A16R	18,800	10

Resin Plugs | Aluminum Oxide | Type 18				
SKU	Size	Spec	RPM	Box Qty
49031	1-1/2 x 2-1/2 x 5/8-11	A16R	24,100	10
49032	1-1/2 x 3 x 3/8-24	A16R	24,100	10
49033	1-1/2 x 3 x 5/8-11	A16R	24,100	10
36239	2 x 3 x 5/8-11	A24R	18,800	10
49035	2 x 3 x 5/8-11	A16R	18,800	10

Resin Plugs | Aluminum Oxide | Type 18R				
SKU	Size	Spec	RPM	Box Qty
49038	1-1/2 x 2-1/2 x 5/8-11	A16R	24,100	10
49039	1-1/2 x 3 x 3/8-24	A16R	24,100	10
49040	1-1/2 x 3 x 5/8-11	A16R	24,100	10
36240	2 x 3 x 5/8-11	A24R	18,800	10
49042	2 x 3 x 5/8-11	A18R	18,800	10
49043	3x 3 x 5/8-11	A16R	13,200	10

RESIN CUP WHEELS

- **A:** Aluminum Oxide; For tough steel applications.
- **CA:** Aluminum Oxide/Silicon Carbide Mix; Excellent for castings, cast iron, aluminum.
- **SC:** Silicon Carbide....Ideal for grinding and cleaning concrete, masonry and stone.







Resin Cup Wheels | Type 11 | No Steel Back				
SKU	Size	Spec	RPM	Box Qty
49000	4/3 x 2 x 5/8-11	A16Q	9,070	1
49002	4/3 x 2 x 5/8-11	SC16N	9,070	1
49003	4/3 x 2 x 5/8-11	CA16N	9,070	1
49004	5/4 x 2 x 5/8-11	A16Q	7,260	1
49005	5/4 x 2 x 5/8-11	A24Q	7,260	1
49007	5/4 x 2 x 5/8-11	CA16N	7,260	1
35900	6/4-3/4 x 2 x 5/8-11	A16Q	6,048	5
49010	6/4-3/4 x 2 x 5/8-11	A24Q	6,048	5

Resin Cup Wheels | Type 11 | W/ Steel Back				
SKU	Size	Spec	RPM	Box Qty
49001	4/3 x 2 x 5/8-11	A16Q	9,070	1
49009	6/4-3/4 x 2 x 5/8-11	A16Q	6,048	1
49012	6/4-3/4 x 2 x 5/8-11	A24Q	6,048	1
49013	6/4-3/4 x 2 x 5/8-11	SC16N	6,048	1
49015	6/4-3/4 x 2 x 5/8-11	CA16Q	6,048	1

D3-DIAMOND – DEPRESSED CENTER DIAMOND

- Longer working life - advanced brazing process and high-quality diamonds for less down time for increased production times.
- Can be used on sheet metal up to 3/8" thick or metal bar up to 3/4" thick.
- Cleaner and easier working – designed to produce fewer sparks, no odor and less material debris.
- Safer working – solid steel body. No fractures and breaks.

At Least
25X
the Life of
Resin Wheels



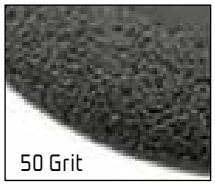




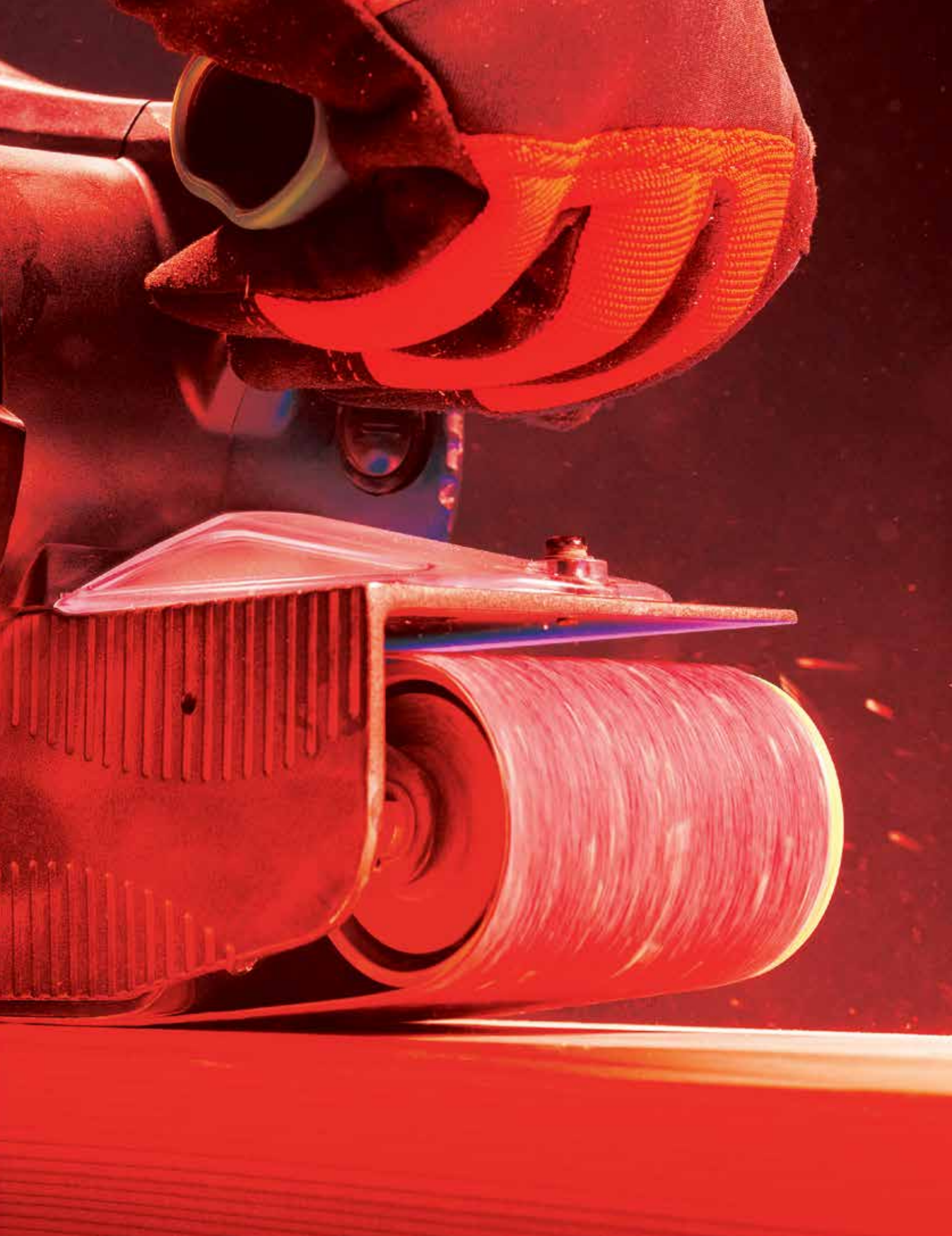


Diamond Depressed Center Grinding Wheel | Type 29				
SKU	Size	Use	Grit	Box Qty
70401	4-1/2 x 5/8-11	Notch/Cut/Grind	24	1
70407	7 x 5/8-11	Notch/Cut/Grind	24	1
70408	7 x 7/8	Notch/Cut/Grind	24	1



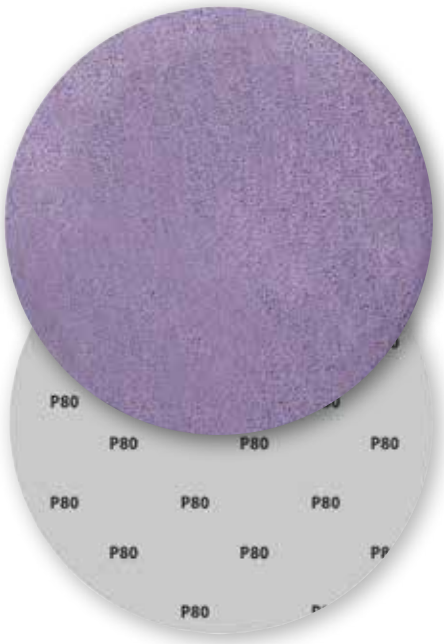


Diamond High Speed Grinding Wheels | Type 1				
SKU	Size	Use	Grit	Box Qty
70430	16 x .15 x 1	Cut-Off Wheel	30	1
70432	20 x .17 x 1	Cut-Off Wheel	30	1



SANDING CONTENT

PAPER SANDING DISCS	74
FILM SANDING DISCS	76
CLOTH SANDING DISCS	77
FINISHING SANDING DISCS	78
SANDING DISC PADS	79
SANDING SHEETS	81
BELTS	83



FEATURED PRODUCT

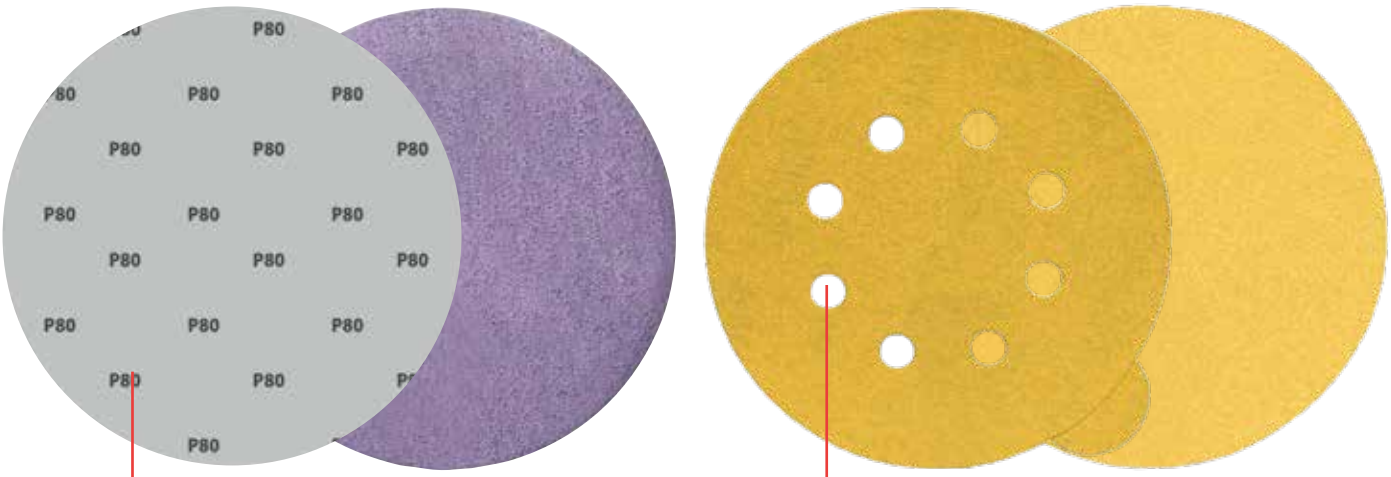
eXtreme paper sanding discs

- Premium sharp ceramic grain for best sanding results.
- Consistent finish with 2X life over conventional discs.
- Anti-clogging with stearate coating resists loading.
- Maximum performance relative to cost.

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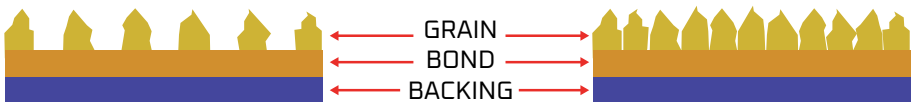
UP TO 2X THE LIFE OF CONVENTIONAL SANDING PRODUCTS

READING SANDING SPECIFICATIONS



Flexibility	Paper Backing Weight	Cloth Backing Weight	Application/Use
Higher	B		Light
	C	F	
	D	J	
	E	X	
Lower	F	Y	Heavy

ABRASIVE GRAIN SPACING AND WEIGHT



OPEN COAT

Greater flexibility, faster cutting, coarser finish and provide a greater resistance to loading.

CLOSED COAT

Better finish and a higher amount of stock removal during the life of the product.

SANDING ICONS EXPLAINED

DISC TERMS

DOR=Disc on roll
DWT=Disc with tab

PSA=Pressure sensitive adhesive
VAC=Vacuum holes

Hook & Loop=Rapid change and reusable discs

TOOL TYPES















MATERIAL APPLICATIONS





CERTIFICATIONS





Contaminant free certification for rust & corrosion free results

SANDING GRAINS

BEST



CERAMIC
BEST PRODUCTIVITY

BETTER



ZIRCONIA
BEST SELLER

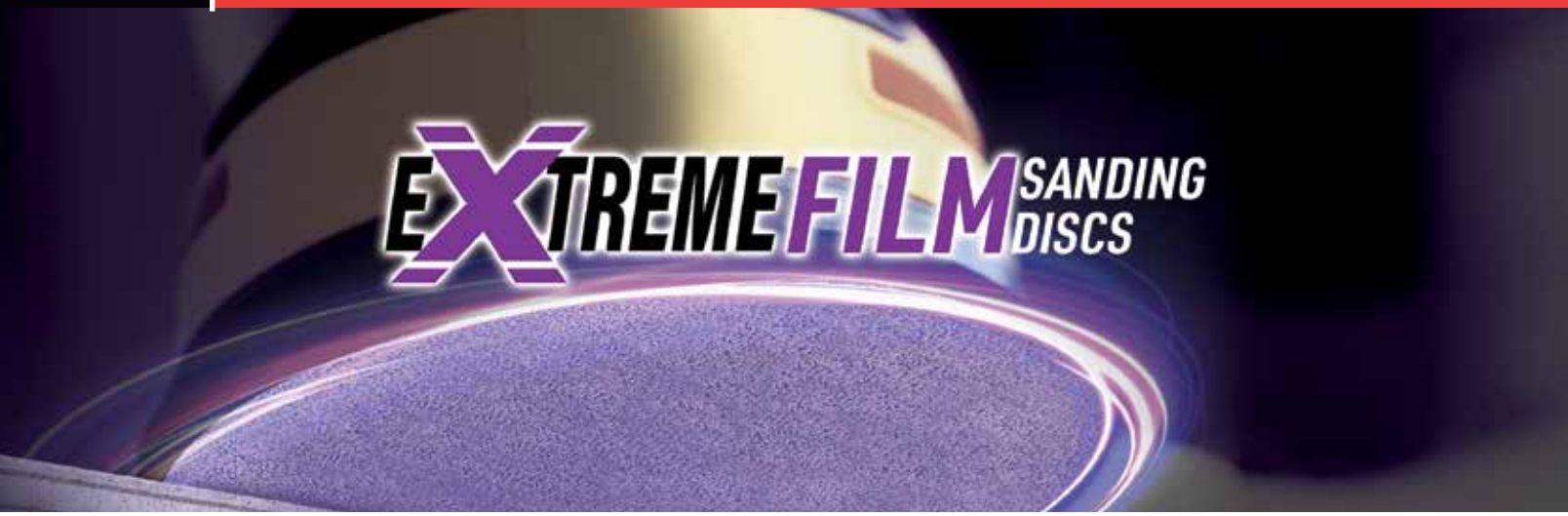
GOOD



ALUMINUM OXIDE
BEST VALUE

WOODWORKING					
	BETTER		GOOD		
GRAIN	Aluminum Oxide	Silicon Carbide	Aluminum Oxide Poly Cotton Back	Silicon Carbide, Paper Back	Aluminum Oxide, Paper Back
APPLICATION	Long life on solid woods, plywood	MDF, particle board, panel	General purpose: all wood types	Best choice for superior finish	Antistatic coating to minimize dust

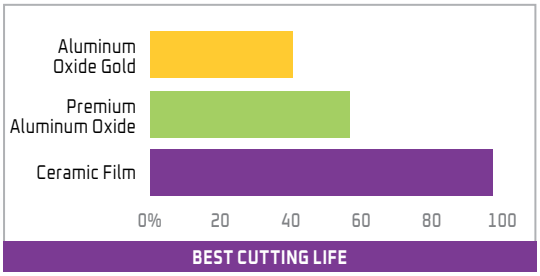
METALWORKING			
	BEST	BETTER	GOOD
GRAIN	Ceramic	Zirconia Zirconia w/Grinding Aid	Aluminum Oxide
APPLICATION	Heavy stock removal on metals Stainless steel, exotic metals	Excels on stainless steel Metal, stainless steel, wood	General purpose: metal, aluminum,brass, wood



BEST **CERAMIC**

- Premium sharp ceramic grain for the best sanding results.
- Best choice for dry or wet sanding applications.
- Film offers up to 4X the life of paper sanding discs.





FEATURES

- **Premium Abrasive Grain –** premium ceramic grain for the finest sanding and most consistent finishing.
- **Anti-clogging stearate coating** – minimal loading and clogging.
- **Duel applications** – can be used in wet or dry surfaces.
- **Tear resistant film backing** – 100 micron/.004 mil durable film backing.
- **Grit range 60-600** – H&L and PSA.
- **Heat dissipation** – protects the workpiece from warping, burning, or discoloration.

MATERIAL APPLICATIONS:

- **Ferrous metals** - steel, stainless steel
- **Non-ferrous metals** – aluminum, copper, brass
- **Softwoods** – Cedar, pine, spruce, fir
- **Hardwoods** – Walnut, cherry, maple, mahogany, teak ash, oak
- **Composites** – carbon fiber, fiberglass
- **Plastics** – PVC, polycarbonate, acrylic



eXtreme Film Sanding Discs | Ceramic | Pressure Sensitive Adhesive | Disc With Tab

SKU	Size	VAC	Grit	QTY
51600	5	0	P60	100
51601	5	0	P80	100
51602	5	0	P100	100
51603	5	0	P120	100
51604	5	0	P150	100
51605	5	0	P180	100
51606	5	0	P220	100
51607	5	0	P320	100
51608*	5	0	P400	100
51609	5	0	P600	100
51610*	5	0	P800	100
51611*	5	0	P1200	100
51612*	5	0	P2000	100

***SPECIAL ORDER ONLY**

eXtreme Film Sanding Discs | Ceramic | Hook & Loop

SKU	Size	VAC	Grit	QTY
51620	5	0	P60	100
51621	5	0	P80	100
51622	5	0	P100	100
51623	5	0	P120	100
51624	5	0	P150	100
51625	5	0	P180	100
51626	5	0	P220	100
51627	5	0	P320	100
51628*	5	0	P400	100
51629*	5	0	P600	100
51630*	5	0	P800	100
51631*	5	0	P1200	100
51632*	5	0	P2000	100

***SPECIAL ORDER ONLY**

eXtreme PAPER SANDING DISCS

BEST | CERAMIC



Ceramic, C-Weight Latex Paper Backing, Open Coat

- Premium sharp ceramic grain for best sanding results.
- Consistent finish with 2X life over conventional discs.
- Anti-clogging with stearate coating resists loading.
- Maximum performance relative to cost.



5" | Ceramic | Hook & Loop

SKU	Size	VAC	Grit	QTY
52274	5	0	P60	100
52275	5	0	P80	100
52276	5	0	P100	100
52277	5	0	P120	100
52278	5	0	P150	100
52279	5	0	P180	100
52280	5	0	P220	100
52281	5	0	P320	100
52311	5	0	P400	100
52312	5	0	P600	100
52313	5	0	P800	100

5" | Ceramic | Pressure Sensitive Adhesive | Disc on a Roll

SKU	Size	VAC	Grit	QTY
52370	5	0	P60	100
52289	5	0	P80	100
52290	5	0	P100	100
52291	5	0	P120	100
52292	5	0	P150	100
52293	5	0	P180	100
52294	5	0	P220	100
52295	5	0	P320	100
52308	5	0	P400	100
52309	5	0	P600	100
52310	5	0	P800	100

6" | Ceramic | Hook & Loop

SKU	Size	VAC	Grit	QTY
52314	6	0	P60	100
52282	6	0	P80	100
52283	6	0	P100	100
52284	6	0	P120	100
52285	6	0	P150	100
52286	6	0	P180	100
52287	6	0	P220	100
52288	6	0	P320	100
52315	6	0	P400	100
52316	6	0	P600	100
52317	6	0	P800	100

6" | Ceramic | Pressure Sensitive Adhesive | Disc on a Roll

SKU	Size	VAC	Grit	QTY
52306	6	0	P60	100
52296	6	0	P80	100
52297	6	0	P100	100
52298	6	0	P120	100
52299	6	0	P150	100
52300	6	0	P180	100
52301	6	0	P220	100
52302	6	0	P320	100
52303	6	0	P400	100
52304	6	0	P600	100
52305	6	0	P800	100

5" | Ceramic | Hook & Loop | Vac Hole

SKU	Size	VAC	Grit	QTY
51640	5	5	P60	100
51641	5	5	P80	100
51642	5	5	P100	100
51643	5	5	P120	100

SKU	Size	VAC	Grit	QTY
51644	5	5	P150	100
51645	5	5	P180	100
51646	5	5	P220	100
51647	5	5	P320	100

ALUMINUM OXIDE PAPER SANDING DISCS

BETTER **ALUMINUM OXIDE**

- Made with a strong tear resistant material that out performs other gold weight 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.





Aluminum Oxide Paper Sanding Discs | Discs on a Roll

SKU	Size	VAC	Grit	QTY
49761	5	0	P60	50
49762	5	0	P80	100
49763	5	0	P100	100
49764	5	0	P120	100
49765	5	0	P150	100
49766	5	0	P180	100
49767	5	0	P220	100
49776	6	0	P60	50
49777	6	0	P80	100
49778	6	0	P100	100
49779	6	0	P120	100
49780	6	0	P150	100
49781	6	0	P180	100
49782	6	0	P220	100

Aluminum Oxide Paper Sanding Discs | Disc with Tab

SKU	Size	VAC	Grit	QTY
49790	5	0	P40	50
49791	5	0	P60	50
49792	5	0	P80	100
49793	5	0	P100	100
49794	5	0	P120	100
49795	5	0	P150	100
49796	5	0	P180	100
49797	5	0	P220	100
49798	5	0	P240	100
49800	5	0	P320	100
49801	5	0	P400	100
49852	5	8	P80	100
49853	5	8	P100	100
49854	5	8	P120	100

SKU	Size	VAC	Grit	QTY
49855	5	8	P150	100
49805	6	0	P40	50
49806	6	0	P60	50
49807	6	0	P80	100
49808	6	0	P100	100
49809	6	0	P120	100
49810	6	0	P150	100
49811	6	0	P180	100
49812	6	0	P220	100
49813	6	0	P240	100
49815	6	0	P320	100
49816	6	0	P400	100
49818	6	0	P600	100

Aluminum Oxide Paper Sanding Discs | Hook & Loop

SKU	Size	VAC	Grit	QTY
49925	5	0	P40	50
49926	5	0	P60	50
49927	5	0	P80	100
49928	5	0	P100	100
49929	5	0	P120	100
49930	5	0	P150	100
49931	5	0	P180	100
49932	5	0	P220	100
49935	5	0	P320	100
49936	5	0	P400	100

Aluminum Oxide Paper Sanding Discs | Hook & Loop

SKU	Size	VAC	Grit	QTY
49956	5	5	P60	50
49957	5	5	P80	100
49958	5	5	P100	100
49959	5	5	P120	100
49960	5	5	P150	100
49961	5	5	P180	100
49962	5	5	P220	100
49985	5	8	P40	50

SKU	Size	VAC	Grit	QTY
49986	5	8	P60	50
49987	5	8	P80	100
49988	5	8	P100	100
49989	5	8	P120	100
49990	5	8	P150	100
49991	5	8	P180	100
49992	5	8	P220	100
49995	5	8	P320	100

PREMIUM ZA Y-WEIGHT RESIN CLOTH PSA DISCS W/GRINDING AID

BEST | **ZIRCONIA AD**



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



Premium ZA Y-Weight Resin Cloth | Pressure Sensitive Adhesive | Sanding Discs			
SKU	Size	Grit	QTY
52819	20	36	25
52820	20	40	25
52773	5	50	50
52774	5	60	50
52822	20	60	25
52775	5	80	50
52823	20	80	80

PREMIUM ZA Y-WEIGHT RESIN CLOTH PSA DISCS

BEST | **ZIRCONIA**



- Y-Weight resin bond polyester cloth disc with active filler for fast cutting action.
- Very cool cutting action and long disc life. Applications: Stainless steel, steel & aluminum.



Premium ZA Y-Weight Resin Cloth | Pressure Sensitive Adhesive | Sanding Disc							
SKU	Size	Grit	QTY	SKU	Size	Grit	QTY
52714	5	36	50	52747	12	40	25
52716	5	50	50	52748	12	50	25
52717	5	60	50	52749	12	60	25
52718	5	80	50	52750	12	80	25
52720	5	120	50	52762	20	36	25
52746	12	36	25				

PREMIUM AO X-WEIGHT RESIN CLOTH SANDING DISCS

GOOD | ALUMINUM OXIDE

- Tough and durable X-Weight resin bond cloth disc for general purpose work.

Sander



Premium AO X-Weight Resin Cloth Pressure Sensitive Adhesive Sanding Discs

SKU	Size	Grit	QTY	SKU	Size	Grit	QTY
52636	5	36	50	52651	6	80	50
52637	5	40	50	52653	6	120	50
52638	5	50	50	52680	12	36	25
52639	5	60	50	52681	12	40	25
52640	5	80	50	52682	12	50	25
52642	5	120	50	52683	12	60	25
52647	6	36	50	52684	12	80	25
52648	6	40	50	52686	12	120	25
52650	6	60	50				

ALUMINUM OXIDE J-WEIGHT SANDING DISCS

GOOD | ALUMINUM OXIDE

- Flexible J-Weight 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.

Sander



Aluminum Oxide J-Weight Cloth Pressure Sensitive Adhesive Sanding Discs

SKU	Size	Grit	QTY	SKU	Size	Grit	QTY
51657	5	P60	50	51661	5	P150	100
51658	5	P80	50	51662	5	P180	100
51659	5	P100	100	51663	5	P220	100
51660	5	P120	100				

FINISHING DISCS – HOOK & 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, fiber glass, plastic and glass fiber.

Right Angle Grinder



Finishing Discs | Hook & Loop

SKU	Size	Spec	RPM	Box Qty	SKU	Size	Spec	RPM	Box Qty
70006	4-1/2	Coarse/Brown	12,000	10	70013	5	Medium/Maroon	10,000	10
70007	4-1/2	Medium/Maroon	12,000	10	70014	5	Very Fine/Blue	10,000	10
70008	4-1/2	Very Fine/Blue	12,000	10	70022	7	Heavy Duty/Brown/Coarse	6,000	10
70010	4-1/2	Heavy Duty/Brown/Coarse	12,000	10	70023	7	Coarse/Brown	6,000	10
70011	4-1/2	Heavy Duty/Maroon/Medium	12,000	10	70024	7	Medium/Maroon	6,000	10
70012	5	Coarse/Brown	10,000	10	70025	7	Very Fine/Blue	6,000	10

FINISHING DISCS – HOOK & LOOP WITH ARBOR HOLE

Finishing Discs | Hook & Loop with Arbor Hole				
SKU	Size	Spec	RPM	Box Qty
70029	4-1/2 x 7/8	Coarse/Tan	12,000	10
70030	4-1/2 x 7/8	Medium/Maroon	12,000	10
70031	4-1/2 x 7/8	Very Fine/Blue	12,000	10
70032	5 x 7/8	Coarse/Tan	10,000	10
70033	5 x 7/8	Medium/Maroon	10,000	10
70034	5 x 7/8	Very Fine/Blue	10,000	10



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 – finer.

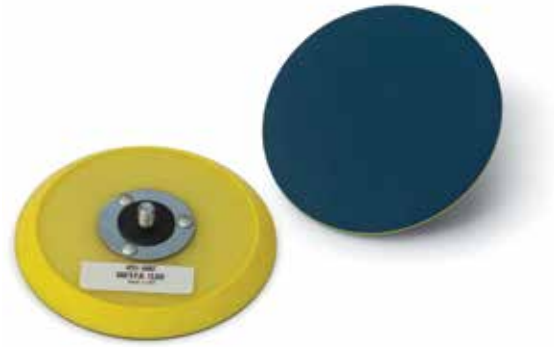
Molded urethane body:

- Hub, foam & facing are all one molded unit.
- More durable and longer lasting than bonded pads.

FIBERGLASS HUBBED PSA DISC PADS

- Durable vinyl face for production sanding.
- Strong hub for heat resistance.
- To use with Orbital Sander only.

Fiberglass Hubbed PSA Disc Pads				
SKU	Size	Pad Type	RPM	Qty
49406	5 x 5/16-24	Medium	10,000	1
49407	5 x 5/16-24	Firm	12,000	1
49423	6 x 5/16-24	Medium	10,000	1
49424	6 x 5/16-24	Firm	10,000	1



FIBERGLASS HUBBED HOOK & LOOP DISC PADS

- "J" hook face for strong hook & loop attachment for production sanding.
- Strong hub for heat resistance.
- **To use with Orbital Sander only.**

Fiberglass Hubbed Hook & Loop Disc Pads				
SKU	Size	Pad Type	RPM	Qty
49413	5 x 5/16-24	Medium	10,000	1
49426	6 x 5/16-24	Medium	10,000	1



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.

Backing Pads					
SKU	Size	Qty	SKU	Size	Qty
49532	4 x 5/8-11	1	49534	5 x 5/8-11	1
49533	4-1/2 x 5/8-11	1	49536	7 x 5/8-11	1



SHOP ROLLS

ALUMINUM OXIDE

- High flexibility cotton cloth and bonding technology with special flexible Phenolic Resin. This bonding technology provides limited grain shedding.
- Semi-friable Aluminum Oxide abrasive grains provides aggressive sanding while long lasting performance.
- Perfect for plumbing, working on lathes, details of fine craftsmanship.



Hand Applications

Shop Rolls

SKU	Grit	Size	Qty	SKU	Grit	Size	Qty	SKU	Grit	Size	Qty
63092	40	1" x 50 YDS	1	63095	40	1-1/2" x 50 YDS	1	63098	40	2" x 50 YDS	1
63062	60	1" x 50 YDS	1	63072	60	1-1/2" x 50 YDS	1	63082	60	2" x 50 YDS	1
63063	80	1" x 50 YDS	1	63073	80	1-1/2" x 50 YDS	1	63083	80	2" x 50 YDS	1
63064	100	1" x 50 YDS	1	63074	100	1-1/2" x 50 YDS	1	63084	100	2" x 50 YDS	1
63065	120	1" x 50 YDS	1	63075	120	1-1/2" x 50 YDS	1	63085	120	2" x 50 YDS	1
63066	150	1" x 50 YDS	1	63076	150	1-1/2" x 50 YDS	1	63086	150	2" x 50 YDS	1
63067	180	1" x 50 YDS	1	63077	180	1-1/2" x 50 YDS	1	63087	180	2" x 50 YDS	1
63068	220	1" x 50 YDS	1	63078	220	1-1/2" x 50 YDS	1	63088	220	2" x 50 YDS	1
63069	240	1" x 50 YDS	1	63079	240	1-1/2" x 50 YDS	1	63089	240	2" x 50 YDS	1
63070	320	1" x 50 YDS	1	63080	320	1-1/2" x 50 YDS	1	63090	320	2" x 50 YDS	1
63071	400	1" x 50 YDS	1	63081	400	1-1/2" x 50 YDS	1	63091	400	2" x 50 YDS	1

FLEXIBLE CLOTH SHEETS, J-WEIGHT - CLOSED COAT

- Used extensively for metal working and maintenance departments.



Hand Applications

9" x 11" | Flexible Cloth Sheets | J-Weight					
SKU	Grit	Box Qty	SKU	Grit	Box Qty
44925	60	50	44923	180	50
44862	80	50	44922	220	50
44861	100	50	44921	240	50
44924	120	50	44919	320	50
44860	150	50	44917	400	50

WATERPROOF SILICON CARBIDE SHEET, B-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.



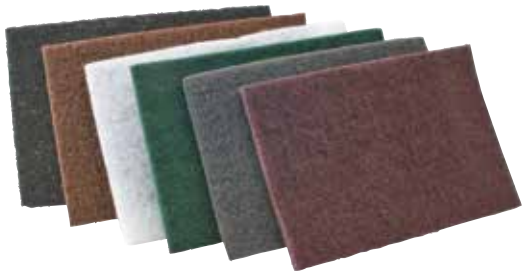
Hand Applications

9" x 11" | B-Weight		
SKU	Grit	Box Qty
44871	240	50
44845	320	50
44844	400	50
44843	600	50
44867	800	50
44866	1000	50
44865	1200	50
44889	2000	50

9" x 11" | C-Weight		
SKU	Grit	Box Qty
44873	80	50
44849	100	50
44848	120	50
44847	180	50
44846	220	50

PREMIUM HAND PADS

BEST



- 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.

Premium, Longer Lasting, Hand Pads

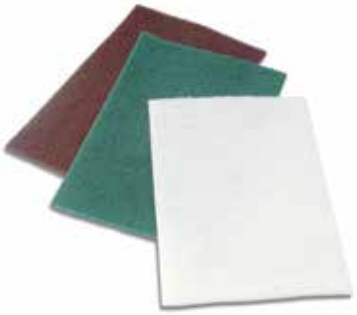
SKU	Color	Box Qty
36287	Maroon	20
36283	Grey	20
36284	Green	20
36285	White	20

SKU	Color	Box Qty
36286	Tan	20
36288	Maroon	100
71151	Black	20



HAND PADS – ECONOMY

GOOD



- 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 applicatic
- **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.

Economy Hand Pads

SKU	Color	Box Qty
36241	Maroon	60
36242	Green	60
36243	White	60



WIDE X-WEIGHT WOODWORKING BELTS

ALUMINUM OXIDE

- Durable grain on X-Weight backing, open coat for rapid stock removal and long life.
- For plastics and wood.



Wide X-Weight Woodworking Belts

SKU	Size	Grit	Qty	SKU	Size	Grit	Qty
52870	37 x 60	80	3	52886	43 x 75	100	5
52871	37 x 60	100	5	52887	43 x 75	120	5
52872	37 x 60	120	5	52888	43 x 75	150	5
52873	37 x 60	150	5	52889	43 x 75	180	5
52874	37 x 60	180	5	52890	52 x 103	80	3
52875	37 x 75	80	3	52892	52 x 103	120	5
52876	37 x 75	100	5	52895	52 x 75	80	3
52877	37 x 75	120	5	52897	52 x 75	120	5
52878	37 x 75	150	5	52899	52 x 75	180	5
52879	37 x 75	180	5	52901	54 x 103	120	3
52885	43 x 75	80	3	52902	54 x 103	150	5

WIDE **X-WEIGHT** METALWORKING BELTS

ALUMINUM OXIDE

- Durable grain on X-Weight backing, closed coat for rapid stock removal and long life.
- For ferrous metals, stainless steel, non ferrous metals, & composites

Wide X-Weight Metalworking Belts

SKU	Size	Paper Weight	Grit	Qty
52865	37 x 60	X	180	5
52868	37 x 75	X	180	5
52869	37 x 75	X	220	5

WIDE **Y-WEIGHT** METALWORKING BELTS



Wide Y-Weight Metalworking Belts

SKU	Size	Paper Weight	Grit	Qty
52861	37 x 60	Y	80	3
52863	37 x 60	Y	120	5
52864	37 x 60	Y	150	5
52866	37 x 75	Y	120	5

NARROW BELTS: FILE & PORTABLE, BENCHSTAND/BACKSTAND BELTS

ALUMINUM OXIDE **GOOD**

- Durable grain on X-Weight backing, closed coat for rapid stock removal and long life.
- For ferrous metals, stainless steel, non ferrous metals, composites, plastics and wood.



ZIRCONIA **BETTER**

- **Premium Zirconia** on Y-Weight backing, closed coat for aggressive use and heavy duty applications.
- For steel and stainless steel.





Aluminum Oxide File Belts			
SKU	Size	Grit	Box Qty
61033	1/2 x 18	36	50
61034	1/2 x 18	40	50
61036	1/2 x 18	60	50
61037	1/2 x 18	80	50
61039	1/2 x 18	120	50
61041	1/2 x 24	36	50
61042	1/2 x 24	40	50
61044	1/2 x 24	60	50
61045	1/2 x 24	80	50
61047	1/2 x 24	120	50
61057	3/4 x 18	36	50
61060	3/4 x 18	60	50
61061	3/4 x 18	80	50
61063	3/4 x 18	120	50

Zirconia File Belts			
SKU	Size	Grit	Box Qty
61525	1/2 x 18	36	50
61526	1/2 x 18	40	50
61527	1/2 x 18	50	50
61528	1/2 x 18	60	50
61529	1/2 x 18	80	50
61531	1/2 x 24	36	50
61532	1/2 x 24	40	50
61534	1/2 x 24	60	50
61535	1/2 x 24	80	50
61543	3/4 x 18	36	50
61546	3/4 x 18	60	50
61547	3/4 x 18	80	50





Aluminum Oxide Portable Metalworking Belts			
SKU	Size	Grit	Box Qty
61249	4 x 24	36	50
61250	4 x 24	40	50
61252	4 x 24	60	50
61253	4 x 24	80	50
61255	4 x 24	120	50

Aluminum Oxide Bench & Backstand Belts			
SKU	Size	Grit	Box Qty
61118	2 x 48	40	50
61120	2 x 48	60	50
61121	2 x 48	80	50
61123	2 x 48	120	50
61291	6 x 48	36	50
61292	6 x 48	40	50
61293	6 x 48	50	50
61294	6 x 48	60	50
61295	6 x 48	80	50
61297	6 x 48	120	50

Zirconia Bench & Backstand Belts			
SKU	Size	Grit	Box Qty
61579	2 x 48	36	50
61580	2 x 48	40	50
61581	2 x 48	50	50
61582	2 x 48	60	50
61583	2 x 48	80	50
61633	6 x 48	36	50
61634	6 x 48	40	50
61635	6 x 48	50	50
61636	6 x 48	60	50
61637	6 x 48	80	50

SURFACE CONDITIONING BELTS

- 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.











X-Flex Surface Conditioning Belts

SKU	Size	Spec	Box Qty
59223	1/4 x 24	Coarse/Brown	50
59226	1/2 x 12	Coarse/Brown	50
59229	1/2 x 18	Coarse/Brown	50
59232	1/2 x 24	Coarse/Brown	50
59235	3/4 x 18	Coarse/Brown	50
59241	1 x 18	Coarse/Brown	50
59271	3 x 10-11/16	Coarse/Brown	50
59283	3-1/2 x 15-1/2	Coarse/Brown	50
59221	1/4 x 18	Medium/Maroon	50
59224	1/4 x 24	Medium/Maroon	50
59227	1/2 x 12	Medium/Maroon	50
59230	1/2 x 18	Medium/Maroon	50
59233	1/2 x 24	Medium/Maroon	50
59236	3/4 x 18	Medium/Maroon	50
59272	3 x 10-11/16	Medium/Maroon	50
59284	3-1/2 x 15-1/2	Medium/Maroon	10
59228	1/2 x 12	Very Fine/Blue	50
59231	1/2 x 18	Very Fine/Blue	50
59234	1/2 x 24	Very Fine/Blue	50
59237	3/4 x 18	Very Fine/Blue	50
59285	3-1/2 x 15-1/2	Very Fine/Blue	50


WEAR EYE
PROTECTION

WIRE BRUSH CONTENT

WIRE KNOT WHEEL BRUSHES	90
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CGW WIRE BRUSHES

20%

MORE LIFE THAN TRADITIONAL ABRASIVES





READING WIRE BRUSH SPECIFICATIONS



BRUSH SIZE
4"

TRIM LENGTH
13/13"

MAXIMUM OPERATING SPEED
20,000 R.P.M.

ARBOR SIZE
5/8-11

WIRE PATTERN & SIZE
Standard Knot - .014

FACE WIDTH
1/2"

SHANK SIZE
1"



Wire Size Specifications			
0.014	Finer Finish	↕	Longer Life
0.020			
0.025			
0.035	More Aggressive		Decreased Production Time

WIRE BRUSHES ICONS EXPLAINED

WIRE BRUSH TYPES



Knot Wire Wheel Brush – Standard

- Standard wire twist knot design for aggressive, yet uniform brushing action.
- For surface preparation, weld cleaning, heavy duty applications, 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 – Cable Twist

- Sharp wire tip for aggressive action.



Crimped Wire

- Frayed wire design for pieces requiring rigorous work.
- For deburring, cleaning, blending, polishing and finishing.

WIRE BRUSH MATERIAL



Carbon Steel, the most durable, high strength fill material available for general purpose cleaning applications, is suitable for light to heavy duty cleaning depending on the wire diameter.



Stainless Steel fill material is suitable on metals such as aluminum and stainless steel when corrosion resistance and non-contaminant brushing actions are desired.



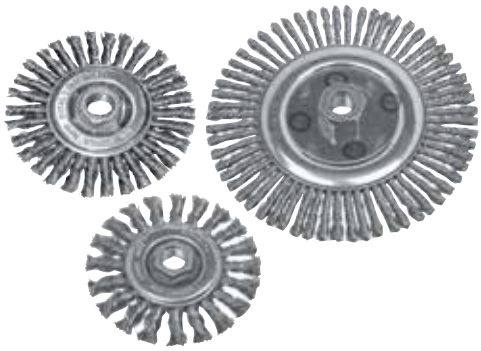
Oil Drawn Wire-Enhanced durability and flexibility, making it suitable for various applications such as springs and wire forms. Increased resistance to fatigue, improved strength, and the ability to withstand high stress and repeated bending.

WIRE APPLICATIONS

Workplace Material	Carbon Steel	Stainless Steel
Iron		
Carbon Stee/Metal		
Stainless Steel		

REINFORCED KNOT WIRE WHEEL BRUSHES - STANDARD TWIST

- Knotted steel wire brushes designed for long time use.
- Optimal rust, corrosion, and paint removal.
- Ideal for contouring edges, corners and surfaces.





MADE IN USA

Reinforced Knot Wire Wheel Brushes - Standard Twist							
SKU	Size	Type	Wire Size	Arbor Size	Trim Length	RPM	Box Qty
60001	4"	Carbon	0.014	5/8-11	13/16"	20,000	6
60006	4"	Stainless	0.014	5/8-11	13/16"	20,000	6
60011	4"	Stainless	0.020	5/8-11	13/16"	20,000	6
60012	4"	Carbon	0.020	5/8-11	7/8"	20,000	6
60013	5"	Carbon	0.020	5/8-11	1"	12,000	6
60014	5"	Stainless	0.020	5/8-11	1"	12,000	6
60052	6"	Carbon	0.020	5/8-11	1-1/2"	9,000	6

REINFORCED KNOT WIRE WHEEL BRUSHES - STRINGER BEAD



MADE IN USA

Reinforced Knot Wire Wheel Brushes - Stringer Bead							
SKU	Size	Type	Wire Size	Arbor Size	Trim Length	RPM	Box Qty
60020	4"	Carbon	0.020	5/8-11	13/16"	20,000	6
60025	4"	Stainless	0.020	5/8-11	13/16"	20,000	6
60035	5"	Carbon	0.020	5/8-11	1"	12,000	6
60037	5"	Stainless	0.020	5/8-11	1"	12,000	6

FAST CUT KNOT WIRE WHEEL BRUSHES - STANDARD TWIST



Knot Wire Wheel Brushes - Standard Twist							
SKU	Size	Type	Wire Size	Arbor Size	Trim Length	RPM	Box Qty
60502	4"	Carbon	0.020	5/8-11	7/8"	20,000	5
60503	5"	Carbon	0.020	5/8-11	1"	12,000	5
60505	6"	Carbon	0.020	5/8-11	1-3/8"	9,000	5

FAST CUT KNOT WIRE WHEEL BRUSHES - STRINGER BEAD



Knot Wire Wheel Brushes - Stringer Bead							
SKU	Size	Type	Wire Size	Arbor Size	Trim Length	RPM	Box Qty
60520	4"	Carbon	0.020	5/8-11	7/8"	20,000	5
60521	4"	Stainless	0.020	5/8-11	7/8"	20,000	5
60522	5"	Carbon	0.020	5/8-11	7/8"	11,000	5
60523	6"	Carbon	0.020	5/8-11	1-1/4"	12,000	5
60524	6"	Stainless	0.020	5/8-11	1-1/4"	12,000	5

FAST CUT KNOT WIRE WHEEL BRUSHES - CABLE TWIST



Knot Wire Wheel Brushes - Cable Twist							
SKU	Size	Type	Wire Size	Arbor Size	Trim Length	RPM	Box Qty
60514	4"	Carbon	0.020	5/8-11	7/8"	20,000	5
60515	4"	Stainless	0.020	5/8-11	7/8"	20,000	5

REINFORCED WIRE CUP BRUSHES - KNOT

- Wire brushes made from oil tempered wire.
- Wire twist knot for high productivity and long life.
- For scale removal, deburring, weld cleaning and flat surfaces.
- For general cleaning and cleaning of corners and flat or curved work pieces.





MADE IN USA

Reinforced Wire Cup Brushes - Knot							
SKU	Size	Type	Wire Size	Arbor Size	Trim Length	RPM	Box Qty
60060	2-3/4"	Carbon	0.014	5/8-11	1"	14,000	6
60065	2-3/4"	Stainless	0.014	5/8-11	1"	14,000	6
60070	2-3/4"	Carbon	0.020	5/8-11	1"	14,000	6
60076	2-3/4"	Stainless	0.020	5/8-11	1"	14,000	6
60090	3-1/2"	Carbon	0.020	5/8-11	1-3/8"	12,500	1
60091	3-1/2"	Stainless	0.020	5/8-11	1-3/8"	12,500	1
60104	4"	Carbon	0.020	5/8-11	1-1/4"	9,000	1
60105	4"	Stainless	0.020	5/8-11	1-1/4"	9,000	1
60106	6"	Carbon	0.020	5/8-11	1-3/4"	6,600	1
60100	6"	Carbon	0.035	5/8-11	1-3/4"	6,600	1

REINFORCED WIRE CUP BRUSHES - CRIMPED

- Knot wire cup brushes are designed for rigorous work pieces.
- For metal surface preparation, cleaning, removal of weld scale and rust.
- Removing scale, deburring, cleaning welds or flat surfaces, heavy duty application burr removal.





MADE IN USA

Reinforced Wire Cup Brushes - Crimped							
SKU	Size	Type	Wire Size	Arbor Size	Trim Length	RPM	Box Qty
60120	2-3/4"	Carbon	0.014	5/8-11	7/8"	14,000	6
60125	2-3/4"	Stainless	0.014	5/8-11	7/8"	14,000	6
60110	4"	Carbon	0.020	5/8-11	1-1/8"	9,000	1
60112	6"	Carbon	0.020	5/8-11	1-1/2"	6,600	1

FAST CUT WIRE CUP BRUSHES - KNOT





Wire Cup Brushes - Knot							
SKU	Size	Type	Wire Size	Arbor Size	Trim Length	RPM	Box Qty
60535	2-3/4"	Carbon	0.014	5/8-11	1"	12,500	5
60536	2-3/4"	Stainless	0.014	5/8-11	1"	12,500	5
60537	2-3/4"	Carbon	0.020	5/8-11	1"	12,500	5
60538	2-3/4"	Stainless	0.020	5/8-11	1"	12,500	5
60539	4"	Carbon	0.020	5/8-11	1-1/4"	8,500	5
60540	4"	Stainless	0.020	5/8-11	1-1/4"	8,500	5
60541	6"	Carbon	0.020	5/8-11	1-3/4"	6,500	5
60542	6"	Stainless	0.020	5/8-11	1-3/4"	6,500	5

FAST CUT WIRE CUP BRUSHES - CRIMPED





Wire Cup Brushes - Crimped							
SKU	Size	Type	Wire Size	Arbor Size	Trim Length	RPM	Box Qty
60560	3"	Carbon	0.012	5/8-11	7/8"	12,500	5
60561	3"	Stainless	0.012	5/8-11	7/8"	12,500	5
60562	4"	Carbon	0.014	5/8-11	1-1/8"	8,500	5
60563	4"	Stainless	0.014	5/8-11	1-1/8"	8,500	5
60564	6"	Carbon	0.020	5/8-11	1-1/2"	6,500	5

REINFORCED WIRE END BRUSHES - KNOT

- Wire brushes made from oil tempered wire.
- Designed for tight work spaces and higher brushing speeds (up to 22,000 RPM).
- For pipeline cleaning, CNC equipment maintenance/cleaning, removal of rust or scale.





MADE IN USA

Reinforced Wire End Brushes - Knot						
SKU	Size	Type	Wire Size	Trim Length	RPM	Box Qty
60130	3/4"	Carbon	0.014	1-1/8"	22,000	12
60131	1"	Carbon	0.020	1"	22,000	12
60132	1"	Stainless	0.020	1"	22,000	12

REINFORCED WIRE END BRUSHES - CRIMPED

- Wire brushes made from oil tempered wire.
- Designed for tight work spaces and higher brushing speeds (up to 22,000 RPM).
- For general use including blending, cleaning, and polishing.





MADE IN USA

Reinforced Wire End Brushes - Crimped						
SKU	Size	Type	Wire Size	Trim Length	RPM	Box Qty
60140	3/4"	Carbon	0.014	1"	22,000	12
60141	1"	Carbon	0.020	1"	22,000	12

FAST CUT WIRE END BRUSHES - KNOT



Wire End Brushes - Knot						
SKU	Size	Type	Wire Size	Trim Length	RPM	Box Qty
60575	3/4"	Carbon	0.014	1-1/8"	20,000	5
60576	3/4"	Carbon	0.020	1-1/8"	20,000	5
60577	3/4"	Stainless	0.014	1-1/8"	20,000	5
60578	1"	Carbon	0.014	1"	20,000	5
60579	1"	Stainless	0.014	1"	20,000	5
60580	1"	Carbon	0.020	1"	20,000	5

FAST CUT WIRE END BRUSHES - CRIMPED



Wire End Brushes - Crimped							
SKU	Size	Type	Wire Size	Trim Length	Shank	RPM	Box Qty
60590	3/4"	Carbon	0.014	1"	1/4"	20,000	5
60591	3/4"	Stainless	0.014	1"	1/4"	20,000	5
60592	1"	Carbon	0.014	1"	1/4"	20,000	5
60593	1"	Stainless	0.012	1"	1/4"	20,000	5

REINFORCED CRIMPED WIRE WHEEL BRUSHES - CONCAVE WITH SHANK

- Wire brushes made from oil tempered wire.
- 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.





MADE IN USA

Reinforced Crimped Wire Wheel Brushes - Concave with Shank							
SKU	Size	Type	Wire Size	Trim Length	Shank	RPM	Box Qty
60160	1-1/2"	Carbon	0.012	1"	1/4"	20,000	10
60161	2-1/2"	Carbon	0.014	2/3"	1/4"	20,000	10
60162	3"	Carbon	0.014	1"	1/4"	20,000	10

REINFORCED CRIMPED WIRE WHEEL BRUSHES - WITH SHANK

- Wire brushes made from oil tempered wire.
- 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.



MADE IN USA

Reinforced Crimped Wire Wheel Brushes - with Shank							
SKU	Size	Type	Wire Size	Trim Length	Shank	RPM	Box Qty
60170	2"	Carbon	0.014	1/2"	1/4"	25,000	10
60171	2"	Carbon	0.014	1"	1/4"	25,000	10
60172	3"	Stainless	0.014	1"	1/4"	25,000	10

REINFORCED CRIMPED WIRE WHEEL BRUSHES - HIGH SPEED



MADE IN USA

Reinforced Crimped Wire Wheel Brushes - High Speed							
SKU	Size	Type	Wire Size	Trim Length	Arbor Hole	RPM	Box Qty
60150	4"	Carbon	0.014	5/6"	5/8"-11	15,000	6

REINFORCED CRIMPED WIRE WHEEL BRUSHES - NARROW FACE

- Flexible design can easily be paired to work on wide surfaces.
- For deburring narrow work pieces and paint and rust removal.



MADE IN USA

Reinforced Crimped Wire Wheel Brushes - Narrow Face							
SKU	Size	Type	Wire Size	Trim Length	Arbor Hole	RPM	Box Qty
60180	8"	Carbon	0.014	1-1/2"	5/8"	4,500	1
60182	6"	Carbon	0.014	1-1/8"	1/2-5/8"	6,000	1

REINFORCED CRIMPED WIRE WHEEL BRUSHES - MEDIUM FACE

- For edge blending, deburring, rust removal, surface finishing.



MADE IN USA

Reinforced Crimped Wire Wheel Brushes - Medium Face							
SKU	Size	Type	Wire Size	Trim Length	Arbor Hole	RPM	Box Qty
60190	6"	Carbon	0.014	1"	1/2-5/8"	6,000	1

REINFORCED CRIMPED WIRE WHEEL BRUSHES - WIDE FACE

- For deburring, rust removal, surface finishing.



MADE IN USA

Reinforced Crimped Wire Wheel Brushes - Wide Face							
SKU	Size	Type	Wire Size	Trim Length	Arbor Hole	RPM	Box Qty
60195	7"	Carbon	0.014	1-5/9"	5/8"	6,000	1

FAST CUT CRIMPED WIRE WHEEL BRUSHES - HIGH SPEED



Crimped Wire Wheel Brushes - High Speed						
SKU	Size	Type	Wire Size	Trim Length	RPM	Box Qty
60650	4"	Carbon	0.014	5/6"	15,000	5
60651	4"	Stainless	0.014	5/6"	15,000	5

SCRATCH BRUSHES - CURVED

- Designed with kiln-dried hardwood handles for maximum tuft retention and high-quality, staple set wire for long life.



Curved Scratch Brushes With Hang-up Hole			
SKU	Rows	Type	Box Qty
60201	3 x 19	Carbon Steel	12
60202	3 x 19	Stainless	12

Small Cleaning Scratch Brush			
SKU	Rows	Type	Box Qty
60211	3 x 7	Stainless	36

CHIP BRUSHES

Chip / Paint Brushes		
SKU	Size	Box Qty
60226	1"	36
60228	2"	24
60229	3"	12
60230	4"	12



WIRE BRUSHES - IN BULK



Bulk Knot Wire Wheel Brushes - Standard Twist									
SKU	Size	Type	Wire Size	Arbor Hole	RPM	Boxes	Qty	Indiv. UPC	Page #
49635	4"	Carbon	0.020	5/8-11	20,000	10	50	60502	92
49636	4"	Stainless	0.020	5/8-11	20,000	10	50	60011	92

Bulk Knot Wire Wheel Brushes - Cable Twist Wheel Brush									
SKU	Size	Type	Wire Size	Arbor Hole	RPM	Boxes	Qty	Indiv. UPC	Page #
49638	4"	Stainless	0.020	5/8-11	20,000	10	50	60515	93

Bulk Knot Wire Wheel Brushes- Stinger Bead									
SKU	Size	Type	Wire Size	Arbor Hole	RPM	Boxes	Qty	Indiv. UPC	Page #
49639	4"	Carbon	0.020	5/8-11	20,000	10	50	60520	93
49640	4"	Stainless	0.020	5/8-11	20,000	10	50	60521	93
49641	6"	Carbon	0.020	5/8-11	12,000	10	50	60523	93

Bulk Knot Wire Cup Brushes									
SKU	Size	Type	Wire Size	Arbor Hole	RPM	Boxes	Qty	Indiv. UPC	Page #
49645	2-3/4"	Carbon	0.014	5/8-11	12,500	10	50	60535	94
49646	2-3/4"	Carbon	0.020	5/8-11	12,500	10	50	60537	94
49647	4"	Carbon	0.020	5/8-11	8,500	10	50	60539	94

Bulk Reinforced Knot End Brushes with 1/4" Shank									
SKU	Size	Type	Wire Size	Shank	RPM	Boxes	Qty	Indiv. UPC	Page #
60133	1"	Carbon	0.006	1/4"	22,000	12	144	60131	95

Bulk Knot End Brushes with 1/4" Shank									
SKU	Size	Type	Wire Size	Shank	RPM	Boxes	Qty	Indiv. UPC	Page #
49650	1"	Carbon	0.020	1/4"	22,000	20	100	60580	95

Bulk Crimped Wire Wheel Brushes with 1/4" Shank									
SKU	Size	Type	Wire Size	Shank	RPM	Boxes	Qty	Indiv. UPC	Page #
49643	2"	Carbon	0.014	1/4"	25,000	20	200	60170	96
49644	3"	Carbon	0.014	1/4"	25,000	20	200	60171	96

Bulk Crimped Wire Wheel Brushes									
SKU	Size	Type	Wire Size	Arbor Hole	RPM	Boxes	Qty	Indiv. UPC	Page #
49642	4"	Carbon	0.014	5/8-11	15,000	10	50	60650	98



PRECISION GRINDING VITRIFIED WHEEL CONTENT

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FEATURED PRODUCT

Custom Vitrified Wheels

Made-to-order vitrified wheels are available in a range of sizes down to the millimeter.

- 12-week lead time
- Available in all grains and grit
- OSA and ANSI certified

PAGE 97

TOP PERFORMING VITRIFIED PRODUCTS SINCE 1956

READING VITRIFIED WHEEL SPECIFICATIONS



WHEEL SIZE

8	x	1/2	x	7/8
WIDTH		THICKNESS		ARBOR

ABRASIVE GRAIN GUIDE

RA	46	H	12	VP
ABRASIVE	GRAIN SIZE	GRADE	STRUCTURE	BOND

MAXIMUM OPERATING SPEED

3,600 R.P.M.

GRADE		Bond	
SOFT	B, D, E, F, G, H	Vitrified	V, VN18, V32A, VD18, VD, VN
MEDIUM	I, J, K, L, M, N	Vitrified Porous	VP, V18P, VPB, VCERP

STRUCTURE

DENSE ←										→ OPEN/POROUS
3	4	5	6	7	8	9	10	11	12	18
Closed-Non-Porous							Open-Porous			



5-8 Structures



10-14 Structures

VITRIFIED WHEEL SAFETY RING TEST

Vitrified wheels have a long shelf-life, however it can be damaged in storage.
ALWAYS TEST THE WHEEL BEFORE OPERATING.

1. Suspend the wheel on a pin within the center hole.
2. Tap the wheel with the back of a screwdriver on four sections at 45° intervals.

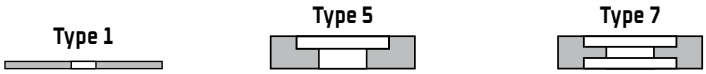
-If a **sharp distinct ring** is heard the **wheel is safe**.

-If it sounds dull, the wheel is damaged-*DISCARD WHEEL.*
DO NOT USE DAMAGED WHEELS.



VITRIFIED WHEEL ICONS EXPLAINED

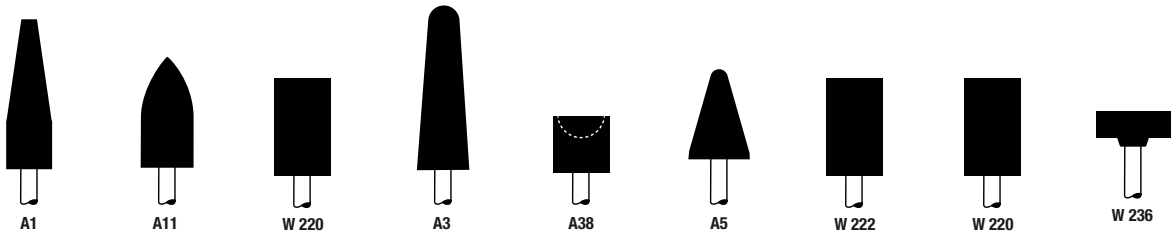
SURFACE, BENCH, PEDESTAL & CENTERLESS WHEEL TYPES



TOOL & CUTTER WHEEL TYPES



MOUNTED POINT TYPES



CERTIFICATIONS

BEST



AS3
High Performance
with most Durability

BETTER



32A
Versatility and
Performance



AZ/BAS
Combination of Sharpness
and Durability

GOOD



PA/PASP
Sharpening and Grinding
of Tool Steel



WA/WAG
Light Stock Removal,
General Purpose Use

TYPES OF GRINDING

Surface Grinding - Wheels with straight recessed, or profiled wheels, as well as segments, cups, and cylindrical wheels.

Cylindrical Grinding - Mostly associated with outside diameter grinding where the part being ground is held and turns between center, while the grinding wheels turns and moves across the part.

Centerless Grinding - The process of removing material from the outside diameter of a workpiece held between two wheels; the grinding wheel and the feed regulating wheel.

ABRASIVE GRAIN SELECTION CHART



Vitrified Cross Reference					
		SAINT-GOBAIN		TYROLIT	
CGW Spec	Abrasive Grain	NORTON	CARBORUNDUM	CINCINNATI / BAYSTATE	RADIAC
AS3	Ceramic Aluminum Oxide	3SG, 5SG, 3NQ, 5NQ	3SG, 5SG	3BP, 5MSB, 3MSB, 3GA, 5GA	7BW, 8BW, 8BP
32A	Mono-Chrystalline Aluminum Oxide	32A	32AR	32A	32A
AZ / 91AB / 94AB	Premium Blue Aluminum Oxide	19A, 23A, 32A, 38A, 53A, 55A, 57A, 64A	GA, DA	2A, 3A, 9A, 12A, 17A, 32A, 48A, 97A	32A, SA WAA, WA, JA, FA, NA
PA / PASP	Pink Aluminum Oxide	55A, 32A, 25A, 86A	PA	87A, 12A, 17A, 32A	WAA, RAA, WRA
WA / WAG / 83A	White Aluminum Oxide	38A, 23A, 19A	98A, AA	9A, 97A, 12A, 48A	WA, 9A, RAA, WPA, SA, WA
A	Brown Aluminum Oxide	A, 57A	A	A	A
RA	Ruby Aluminum Oxide	48A	-	-	RA
GC	Green Silicon Carbide	39C	GC	51C, 1C	GC

ABRASIVE GRAINS & CUSTOM VITRIFIED WHEELS



AS3 – CERAMIC ALUMINUM OXIDE

BEST – HIGH PERFORMANCE WITH MOST DURABILITY

- 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.

32A – MONO-CRYSTALLINE ALUMINUM OXIDE

BETTER – VERSATILITY AND PERFORMANCE

- Mono-crystalline Aluminum Oxide grain offers excellent versatility and performance on a wide range of applications and materials.
- Ideal for medium to heavy stock removal.

AZ / BAS– PREMIUM BLUE ALUMINUM OXIDE

BETTER – COMBINATION OF SHARPNESS AND DURABILITY

#1 SELLING DISC

- The premium grain and bond technology makes AZ the best choice for applications that demand both sharpness and durability.
- Exceptionally fast and cool cutting characteristics suitable for grinding heat sensitive, alloy steels and mold steels (high speed steels under 58RC).
- More durable than WA and PA with superior sharpness.

PA / PASP – PINK ALUMINUM OXIDE

GOOD – SHARPENING AND GRINDING OF TOOL STEEL

- Ideal for fast & cool cutting of heat sensitive & hard alloys.
- More durable than WA on tool steel & stainless at light to moderate feed rates.

WA / WAG – WHITE ALUMINUM OXIDE

GOOD – LIGHT STOCK REMOVAL, GENERAL PURPOSE USE

- Used when easy cutting action is needed on all surfaces.
- Ideal for grinding heat-sensitive steels and easy to grind high speed steels.

A – BROWN ALUMINUM OXIDE

GENERAL PURPOSE **– THE CHOICE FOR BENCH WHEELS**

- The most common of all grains. This grain is used for heavy-duty applications.

RA – RUBY ALUMINUM OXIDE

SPECIALTY **– THE CHOICE FOR SPECIAL MATERIAL APPLICATIONS**

- Ideal for rough grinding of all tool steels including steel with high levels of chromium.
- A tough, sharp friable abrasive with high material removal and strong form holding.

GC – GREEN SILICON CARBIDE

- Non-Ferrous Metals
- Carbide, Granite, Ceramic and Chrome.

BC-BLACK SILICON CARBIDE

- Non-Ferrous Metals
- Carbide, Granite, Ceramic and Chrome.

For any inquiries on specialty, made-to-order, vitrified wheels please contact
orders@cgwabrasives.com | 800.447.4248

SURFACE GRINDING WHEELS

- Surface grinding is the most common of the grinding operations. Surface grinding wheels can be used for 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.
- Surface grinding is done on both planer and rotary-type machines, using either vertical and horizontal spindle design.
- Popular Markets – Machine shops, cutting tools, aerospace, food processing, automotive, mold and fixture shops.

Vitrified Surface Grinding Wheels

Size	Type	Grit	Grade	A53 Ceramic	32A Mono-Crystalline	AZ/BAS Premium Blue AluminumOxide	RA Ruby	PA/PASP Pink	WA/WAG White	GC Green Silicon Carbide
6 x 1/2 x 1-1/4	T1	60	K			34301				
7 x 1/4 x 1-1/4	T1	46	H		34250		59081			
7 x 1/4 x 1-1/4	T1	46	I			34303			34600	
7 x 1/4 x 1-1/4	T1	60	I			34308			34603	34611
7 x 1/4 x 1-1/4	T1	60	J			34309	59025		34604	
7 x 1/4 x 1-1/4	T1	60	K			34310			34605	
7 x 1/4 x 1-1/4	T1	80	I							34612
7 x 1/4 x 1-1/4	T1	80	J			34312			34606	
7 x 1/4 x 1-1/4	T1	80	K	34207		34313		58002	34607	
7 x 1/4 x 1-1/4	T1	100	I							34613
7 x 1/4 x 1-1/4	T1	100	K			34315				
7 x 1/4 x 1-1/4	T1	120	K						34609	
7 x 1/4 x 1-1/4	T1	150	K			34317			34610	
7 x 1/2 x 1-1/4	T1	46	H	34208	37700	34318	34633	58004	34615	
7 x 1/2 x 1-1/4	T1	46	I	34210	37701	34319			34616	
7 x 1/2 x 1-1/4	T1	46	J	34209	37702	34320	34634	58006	34617	
7 x 1/2 x 1-1/4	T1	46	K		37703	34321			34618	
7 x 1/2 x 1-1/4	T1	60	H						34619	
7 x 1/2 x 1-1/4	T1	60	I			34324			34620	34627
7 x 1/2 x 1-1/4	T1	60	J	34212	37705	34325	34635		34621	
7 x 1/2 x 1-1/4	T1	60	K	34213	37706	34326		58011	34622	
7 x 1/2 x 1-1/4	T1	80	H			34328				
7 x 1/2 x 1-1/4	T1	80	I							34628
7 x 1/2 x 1-1/4	T1	80	K	37768	37728	34329	59000	58012	34623	
7 x 1/2 x 1-1/4	T1	100	I							34629
7 x 1/2 x 1-1/4	T1	100	K			34330			34624	
7 x 1/2 x 1-1/4	T1	120	K						34625	
7 x 1/2 x 1-1/4	T1	150	K			34332			34626	
7 x 1/2 x 1-1/4	T1	46	H-12 Porous			34333				
7 x 3/4 x 1-1/4 (R/1-3 x 1/4)	T5	46	H			34335			34636	
7 x 3/4 x 1-1/4 (R/1-3 x 1/4)	T5	46	I			34336				
7 x 3/4 x 1-1/4 (R/1-3 x 1/4)	T5	46	J			34337	59001		34638	
7 x 3/4 x 1-1/4 (R/1-3 x 1/4)	T5	60	I							34644
7 x 3/4 x 1-1/4 (R/1-3 x 1/4)	T5	60	J			34341	59002			

Vitrified Surface Grinding Wheels Cont'd

Size	Type	Grit	Grade	AS3 Ceramic	32A Mono-Crystalline	AZ/BAS Premium Blue Aluminum Oxide	RA Ruby	PA/PASP Pink	WA/WAG White	GC Green Silicon Carbide
7 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	46	H		37732	34342			34647	
7 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	46	I			34343			34648	
7 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	46	J		37733	34344	59003	58017		
7 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	46	K			34345				
7 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	60	I						34652	34655
7 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	60	J			34348			34653	
7 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	60	K			34349				
7 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	80	I							34656
7 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	100	I							34657
8 x 1/4 x 1-1/4	T1	60	J	34114						
8 x 1/4 x 1-1/4	T1	60	K						34663	
8 x 1/4 x 1-1/4	T1	60	I							34669
8 x 1/4 x 1-1/4	T1	80	J						34664	
8 x 1/2 x 1-1/4	T1	46	H		37707	34350	59005	58019	34671	
8 x 1/2 x 1-1/4	T1	46	I		37708	34351			34672	
8 x 1/2 x 1-1/4	T1	46	J	37771	37709	34352	59006 J/K	58021	34673	
8 x 1/2 x 1-1/4	T1	46	G-12 Porous	34252						
8 x 1/2 x 1-1/4	T1	46	H-12 Porous				59084			
8 x 1/2 x 1-1/4	T1	46	K	34214		34353			34674	
8 x 1/2 x 1-1/4	T1	60	H			34354				
8 x 1/2 x 1-1/4	T1	60	I							34680
8 x 1/2 x 1-1/4	T1	60	H-12 Porous				59085			
8 x 1/2 x 1-1/4	T1	60	I			34355			34676	
8 x 1/2 x 1-1/4	T1	60	J	34215	37710	34356		58023	34677	
8 x 1/2 x 1-1/4	T1	60	K			34357	59007		34678	
8 x 1/2 x 1-1/4	T1	80	I							34681
8 x 1/2 x 1-1/4	T1	80	K		37736	34358		58025	34679	
8 x 1/2 x 1-1/4	T1	100	I							34682
8 x 3/4 x 1-1/4 (R/1-3 x 1/4)	T5	46	H			34359	59009	58026	34683	
8 x 3/4 x 1-1/4 (R/1-3 x 1/4)	T5	46	J			34360				
8 x 3/4 x 1-1/4 (R/1-3 x 1/4)	T5	60	I						34688	34692
8 x 3/4 x 1-1/4 (R/1-3 x 1/4)	T5	60	J			34364	59033		34689	
8 x 3/4 x 1-1/4 (R/1-3 x 1/4)	T5	60	K						34690	
8 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	46	H			34366				
8 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	46	J			34367	59010	58028	34697	
8 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	60	I						34700	34703
8 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	60	J			34369	59011			
8 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	60	K						34702	

Vitrified Surface Grinding Wheels Cont'd

Size	Type	Grit	Grade	AS3 Ceramic	32A Mono-Crystalline	AZ/BAS Premium Blue Aluminum Oxide	RA Ruby	PA/PASP Pink	WA/WAG White	GC Green Silicon Carbide
8 x 1 x 1-1/4 (R/1-3 x 1/2)	T5	100	I							34705
10 x 3/4 x 3	T1	60	H			34383				
10 x 1 x 3	T1	46	I			34390				
10 x 1 x 3	T1	46	J	37773		34391	59012	58031	34725	
10 x 1 x 3	T1	60	J			34395			34729	
10 x 1 x 3	T1	60	K			34396				
12 x 1 x 3	T1	46	H	34219	37712	34411	59013	58033	34742	
12 x 1 x 3	T1	46	J	34220		34413		58034	34744	
12 x 1 x 3	T1	46	J/K				59014			
12 x 1 x 3	T1	46	K			34414				
12 x 1 x 3	T1	60	I	34221						
12 x 1 x 3	T1	60	K		37739	34418				
12 x 1 x 5	T1	46	H	34222		34419			34752	
12 x 1 x 5	T1	46	J	34223		34421			34755	
12 x 1 x 5	T1	46	K			34422				
12 x 1 x 5	T1	60	J		37742	34425			34759	
12 x 1 x 5	T1	60	K			34426				
12 x 1 x 5	T1	80	K		37754					
12 x 1-1/2 x 3 (R/1-7-1/2 x 1/2)	T5	46	H						34761	
12 x 1-1/2 x 3 (R/1-7-1/2 x 1/2)	T5	46	I						34762	
12 x 1-1/2 x 3 (R/1-7-1/2 x 1/2)	T5	46	J						34763	
12 x 1-1/2 x 3 (R/1-7-1/2 x 1/2)	T5	60	I						34766	
12 x 1-1/2 x 5 (R/1-7-1/2 x1/2)	T5	46	H	34225	37714	34427	59017	58037	34769	
12 x 1-1/2 x 3 (R/1-7-1/2 x 1/2)	T5	46	I						34770	
12 x 1-1/2 x 3 (R/1-7-1/2 x 1/2)	T5	46	J	34226	37715	34429	59018	58038	34771	
12 x 1-1/2 x 3 (R/1-7-1/2 x 1/2)	T5	46	K			34430				
12 x 1-1/2 x 3 (R/1-7-1/2 x 1/2)	T5	60	I						34774	
12 x 1-1/2 x 3 (R/1-7-1/2 x 1/2)	T5	60	J	34227	37755	34433			34775	
12 x 2 x 3 (R/2-7-1/2 x 1/2)	T7	46	I			34434				
12 x 2 x 3 (R/2-6-1/2 x 1/2)	T7	60	J			34435				
12 x 2 x 5 (R/2-6-1/2 x 1/2)	T7	46	H		37716	34436				
12 x 2 x 5 (R/2-7-1/2 x 1/2)	T7	46	I		37717	34437			34778	
12 x 2 x 5 (R/2-7-1/2 x 1/2)	T7	46	J				59020		34779	
12 x 2 x 5 (R/2-7-1/2 x 1/2)	T7	60	H			34440				
14 x 1 x 3	T1	46	H	37779						
14 x 1 x 3	T1	46	I			34445				
14 x 1 x 3	T1	46	J	34115						
14 x 1 x 3	T1	60	J	37780						

Vitrified Surface Grinding Wheels Cont'd

Size	Type	Grit	Grade	AS3 Ceramic	32A Mono-Crystalline	AZ/BAS Premium Blue AluminumOxide	RA Ruby	PA/PASP Pink	WA/WAG White	GC Green Silicon Carbide
14 x 1 x 5	T1	46	H	34230	37745	34447		58048		
14 x 1 x 5	T1	46	I		37718	34448		58049	34786	
14 x 1 x 5	T1	46	J	34232		34449				
14 x 1 x 5	T1	60	I			34452			34790	
14 x 1 x 5	T1	60	J	34233						
14 x 1 x 5	T1	60	K		37746	34454		58050		
14 x 1 x 5	T1	80	K		37761					
14 x 1-1/2 x 5	T1	46	H	34238	37719	34456	59022		34801	
14 x 1-1/2 x 5	T1	46	I		37747				34802	
14 x 1-1/2 x 5	T1	46	J	34239	37720	34458			34803	
14 x 1-1/2 x 5	T1	46	K			34459	59045			
14 x 1-1/2 x 5	T1	60	H			34460				
14 x 1-1/2 x 5	T1	60	I	34240						
14 x 1-1/2 x 5	T1	60	J			34462				
14 x 1-1/2 x 5 (R/1-8 x 1/2)	T5	46	H	34234	37721	34464		58041	34793	
14 x 1-1/2 x 5 (R/1-8 x 1/2)	T5	46	I	34235	37722	34465	59023 I/J		34794	
14 x 1-1/2 x 5 (R/1-8 x 1/2)	T5	46	J	37782		34466		58042	34795	
14 x 1-1/2 x 5 (R/1-8 x 1/2)	T5	60	I	34236		34469			34798	
14 x 1-1/2 x 5 (R/1-8 x 1/2)	T5	60	J	37783	37749	34470				
14 x 2 x 5	T1	46	H		37750	34472				
14 x 2 x 5	T1	46	I			34473				
14 x 2 x 5	T1	46	J		37723	34474				
14 x 2 x 5	T1	60	J		37764				34809	
14 x 2 x 5 (R/1-8 x 1)	T5	46	H	34241		34480	59024	58043	34811	
14 x 2 x 5 (R/1-8 x 1)	T5	46	I			34481		58044	34812	
14 x 2 x 5 (R/1-8 x 1)	T5	46	J			34482			34813	
14 x 2 x 5 (R/1-8 x 1)	T5	60	I						34816	
14 x 2 x 5 (R/1-8 x 1)	T5	60	J	34116		34486	59059 J/K			
14 x 2 x 5 (R/1-8 x 1)	T5	60	K		37726	34487		58045		
14 x 2 x 5 (R/2-8 x 3/8)	T7	46	H		37752					
14 x 2 x 5 (R/2-8 x 3/8)	T7	46	I			34488		58046		
14 x 2 x 5 (R/2-8 x 3/8)	T7	46	J			34489		58047		
14 x 2 x 5 (R/2-8 x 3/8)	T7	46	K			34490				
14 x 2 x 5 (R/2-8 x 3/8)	T7	60	J		37753					
16 x 1-1/2 x 5	T1	46	H			34491				
16 x 1-1/2 x 5	T1	60	J			34493				
16 x 2 x 5	T1	46	I			34495				
16 x 2 x 5	T1	46	J			34496				

Vitrified Surface Grinding Wheels Cont'd										
Size	Type	Grit	Grade	AS3 Ceramic	32A Mono-Crystalline	AZ/BAS Premium Blue Aluminum Oxide	RA Ruby	PA/PASP Pink	83A/WA White	GC Green Silicon Carbide
16 x 2 x 5	T1	60	K			34497				
18 x 2 x 8 (R/2-11-1/2 x 1/2)	T7	46	I		34003					
18 x 2 x 8 (R/2-11-1/2 x 1/2)	T7	46	H						34004	
20 x 1 x 8	T1	46	H						34006	
20 x 1 x 8	T1	60	J						34007	
20 x 1-1/2 x 8 (R/1-11-1/2 x 1/2)	T5	46	H						34014	
20 x 2 x 8 (R/2-11-1/2 x 1/2)	T7	46	I		34021					
20 x 2 x 8 (R/2-11-1/2 x 1/2)	T7	46	H						34022	
20 x 2 x 8 (R/2-11-1/2 x 1/2)	T7	60	J						34023	
20 x 2 x 8 (R/2-11-1/2 x 1/2)	T7	46	G						34025	
20 x 2 x 10	T1	36	J						34027	
20 x 2 x 10	T1	46	H						34028	
20 x 2 x 10	T1	60	J						34029	
20 x 3 x 8	T1	80	H						37817	
20 x 3 x 8 (R/2-11-1/2 x 1/2)	T7	46	I		34032	34034				
20 x 3 x 8 (R/2-11-1/2 x 1/2)	T7	46	H						34033	
20 x 3 x 8 (R/2-11-1/2 x 1/2)	T7	60	J						34048	
20 x 3 x 8 (R/2-11-1/2 x 1/2)	T7	46	D						34036	
20 x 3 x 8 (R/2-11-1/2 x 1/2)	T7	46	G						34037	
20 x 3 x 10 (R/2-12-1/2 x 5/8, O-12-1/2 x 3/4)	T7	46	I		34039	34043				
20 x 3 x 10 (R/2-12-1/2 x 5/8, O-12-1/2 x 3/4)	T7	46	H	34245					34040	
20 x 3 x 10 (R/2-12-1/2 x 5/8, O-12-1/2 x 3/4)	T7	36	J/K						34044	
20 x 3 x 10 (R/2-12-1/2 x 5/8, O-12-1/2 x 3/4)	T7	46	G						34046	
20 x 4 x 8 (R/2-11-1/2 x 1/2)	T7	46	H						34051	
20 x 4 x 10 (R/2-12-1/2 x 7/8, O-12-1/2 x 1)	T7	46	I		34055					
20 x 4 x 10 (R/2-12-1/2 x 7/8, O-12-1/2 x 1)	T7	46	H						34057	
20 x 4 x 10 (R/2-12-1/2 x 7/8, O-12-1/2 x 1)	T7	46	D						34059	
20 x 4 x 10 (R/2-12-1/2 x 7/8, O-12-1/2 x 1)	T7	46	G						34060	
20 x 6 x 10 (R/2-12-1/2 x 1, O-12-1/2 x 2)	T7	46	I		34063					
20 x 6 x 10 (R/2-12-1/2 x 1, O-12-1/2 x 2)	T7	46	H	34067					34064	
20 x 6 x 10 (R/2-12-1/2 x 1, O-12-1/2 x 2)	T7	36	J/K						34069	
20 x 6 x 10 (R/2-12-1/2 x 1, O-12-1/2 x 2)	T7	46	B						34070	
20 x 6 x 10 (R/2-12-1/2 x 1, O-12-1/2 x 2)	T7	46	D						34071	
20 x 6 x 10 (R/2-12-1/2 x 1, O-12-1/2 x 2)	T7	46	G						34072	
20 x 6 x 10 (R/2-12-1/2 x 1, O-12-1/2 x 2)	T7	46	C			34074				
20 x 6 x 10 (R/2-12-1/2 x 1, O-12-1/2 x 2)	T7	36/46	I/J					34075		
20 x 6 x 12 (R/2-14-1/4 x 1)	T7	46	H		34078					
20 x 6 x 12 (R/2-14-1/4 x 1)	T7	46	G						34080	

BLACK SILICON CARBIDE (BC) SURFACE GRINDING WHEELS

- Larger size surface grinding wheel.
- Perfect for non-ferrous metals.
- For use on carbide, granite, ceramic & chrome.

Black Silicon Carbide (BC) Surface Grinding Wheels					
SKU	Size	Type	Grit	Grade	Box Qty
34038	20 x 3 x 8 (R/2-11-1/2 x 1/2)	T7	46	I	1
34049	20 x 3 x 10 (R/2-12-1/2 x 5/8, O-12-1/2 x 3/4)	T7	46	I	1

BLANCHARD GRINDING SEGMENTS

CGW Segments are used to grind flat workpiece surfaces. Our Segment product offering ranges from general purpose precision grinding to fast, heavy stock removal to meet your job requirement.

- **AS5**: 50/50 ceramic and aluminum oxide blend for heavy and fast stock removal.
- **AS3**: 30/70 ceramic and aluminum oxide blend for heavy stock removal.
- **WA**: White aluminum oxide for general purpose performance.



* Additional size and shapes available as special make.

Blanchard Grinding Segments

SKU	Size	Spec	Box Qty
34148	11-1/4 x 2-1/4 x 6	AS5-36-E12V	6
34150	11-1/4 x 2-1/4 x 8	AS5-36-E12V	5
34153	11-1/4 x 3 x 8	AS5-36-E12V	5
34147	11-1/4 x 2-1/4 x 6	AS3-36-E12V	6
34149	11-1/4 x 2-1/4 x 8	AS3-36-E12V	5

SKU	Size	Spec	Box Qty
34152	11-1/4 x 3 x 8	AS3-36-E12V	5
34094	11-1/4 x 2-1/4 x 6	WA-36-E12V	6
34154	11-1/4 x 3 x 8	WA-36-E12V	5
34151	11-1/4 x 2-1/4 x 8	WA-36-E12V	5

BENCH & PEDESTAL WHEELS, 6" – 18" DIAMETER

- CGW Bench and pedestal grinding wheels are used for general stock removal, sharpening, deburring, and shaping. Bench grinder and pedestal grinder wheels are available in diameters up to 18".
- Common settings for bench and pedestal grinders are in maintenance departments, tool & die shops, and metal fabrication shops.



Type 1



Box Qty: 1 for all Bench Wheel Sizes

Vitrified Bench and Pedestal Wheels | Type 1

Size	Grit	Grade	A Brown	AZ/BAS Premium Blue	GC Green Silicon Carbide
6 x 1/2 x 1	60	M	38004		
6 x 1/2 x 1	60	I			38501
6 x 1/2 x 1	80	I			38502
6 x 1/2 x 1	100	I			38503
6 x 3/4 x 1	36	O	38007		
6 x 3/4 x 1	46	M	38008		
6 x 3/4 x 1	60	M	38009		
6 x 3/4 x 1	80	M	38010		
6 x 3/4 x 1	36	K		38111	
6 x 3/4 x 1	60	K		38113	
6 x 3/4 x 1	80	K		38114	
6 x 3/4 x 1	120	K		38116	

Size	Grit	Grade	A Brown	AZ/BAS Premium Blue	GC Green Silicon Carbide
6 x 3/4 x 1	60	I			38504
6 x 3/4 x 1	80	I			38505
6 x 3/4 x 1	100	I			38506
6 x 1 x 1	24	Q	38011		
6 x 1 x 1	36	O	38012		
6 x 1 x 1	46	M	38013		
6 x 1 x 1	60	M	38014		
6 x 1 x 1	80	M	38015		
6 x 1 x 1	36	K		38121	
6 x 1 x 1	60	K		38123	
6 x 1 x 1	120	K		38126	
6 x 1 x 1	60	I			38507

BENCH & PEDESTAL WHEELS, 6" – 18" DIAMETER - CONT'D

Vitrified Bench and Pedestal Wheels | Type 1 Cont'd

Size	Grit	Grade	A Brown	AZ/BAS Premium Blue	GC Green Silicon Carbide
6 x 1 x 1	80	I			38508
6 x 1 x 1	100	I			38509
6 x 1 x 1	120	I			38580
7 x 3/4 x 1	60	I			38510
7 x 3/4 x 1	80	I			38511
7 x 3/4 x 1	100	I			38512
7 x 1 x 1	36	O	38017		
7 x 1 x 1	46	M	38018		
7 x 1 x 1	60	M	38019		
7 x 1 x 1	80	M	38020		
7 x 1 x 1	36	K		38161	
7 x 1 x 1	60	K		38163	
7 x 1 x 1	60	I			38513
7 x 1 x 1	80	I			38514
7 x 1 x 1	100	I			38515
8 x 3/4 x 1	46	M	35044		
8 x 1 x 1-1/4	24	Q	38021		
8 x 1 x 1-1/4	36	O	38022		
8 x 1 x 1-1/4	46	M	38023		
8 x 1 x 1-1/4	60	M	38024		
8 x 1 x 1-1/4	80	M	38025		
8 x 1 x 1-1/4	36	K		38201	
8 x 1 x 1-1/4	60	K		38203	
8 x 1 x 1-1/4	80	K		38204	
8 x 1 x 1-1/4	120	K		38206	
8 x 1 x 1-1/4	60	I			38516
8 x 1 x 1-1/4	80	I			38517
8 x 1 x 1-1/4	120	I			38518
10 x 1 x 1-1/4	24	Q	38026		
10 x 1 x 1-1/4	36	O	38027		
10 x 1 x 1-1/4	46	M	38028		
10 x 1 x 1-1/4	60	M	38029		
10 x 1 x 1-1/4	80	M	38030		
10 x 1 x 1-1/4	60	I			38519
10 x 1 x 1-1/4	80	I			38520
10 x 1 x 1-1/4	80	I			38521
10 x 1-1/2 x 1-1/4	46	M	38033		
10 x 1-1/2 x 1-1/4	60	M	38034		
10 x 1-1/2 x 1-1/4	80	M	38035		
10 x 1-1/2 x 1-1/4	60	I			38522
10 x 1-1/2 x 1-1/4	80	I			38523
10 x 2 x 1-1/4	30/36	O	35073		
10 x 2 x 1-1/4	54	M	35074		
12 x 1 x 1-1/4	24	Q	38036		
12 x 1 x 1-1/4	46	M	38038		
12 x 1 x 1-1/4	60	M	38039		
12 x 1 x 1-1/4	60	I			38525
12 x 1-1/2 x 1-1/4	60	M	38044		
12 x 1-1/2 x 1-1/4	60	I			38528
12 x 1-1/2 x 1-1/4	80	I			38529
12 x 2 x 1-1/2	24	Q	38046		
12 x 2 x 1-1/2	36	O	38047		
12 x 2 x 1-1/2	46	M	38048		
12 x 2 x 1-1/2	60	M	38049		
12 x 2 x 1-1/2	80	M	38050		
12 x 2 x 1-1/2	60	I			38531
12 x 2 x 1-1/2	80	I			38532
12 x 2 x 1-1/2	100	I			38533
14 x 2 x 1-1/2	24	Q	38051		
14 x 2 x 1-1/2	36	O	38052		
14 x 2 x 1-1/2	46	M	38053		
14 x 2 x 1-1/2	60	M	38054		
14 x 2 x 1-1/2	60	I			38534
14 x 2 x 1-1/2	80	I			38535
14 x 3 x 1-1/2	24/30	Q	35107		
14 x 3 x 1-1/2	46/54	M	35108		
16 x 2 x 1-1/2	24	Q	35109		
16 x 2 x 1-1/2	36	M	35110		
18 x 3 x 1-1/2	36	O	35113		
18 x 3 x 1-1/2	46	M	35114		

WHEEL BUSHINGS



Wheel Bushings

SKU	Width	Description	Box Qty
51000	1/2	1" Hole Reduces to 3/4", 5/8", 1/2"	1
51001	3/4	1" Hole Reduces to 3/4", 5/8", 1/2"	1
51002	1	1" Hole Reduces to 3/4", 5/8", 1/2"	1
51003	1/2	1-1/4" Hole Reduces to 1"	1
51004	3/4	1-1/4" Hole Reduces to 1"	1
51005	1	1-1/4" Hole Reduces to 1"	1
51006	1/2	1-1/2" Hole Reduces to 1-1/4"	1
51007	3/4	1-1/2" Hole Reduces to 1-1/4"	1
51008	1	1-1/2" Hole Reduces to 1-1/4"	1

CENTERLESS, CYLINDRICAL 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].

THREE BASIC TYPES OF CENTERLESS GRINDING

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.

Cylindrical Grinding – The precision grinding of the outer surface of any round workpiece. The workpiece is held between centers or in chucks.

- Popular Markets – machine shops, aerospace, automotive, and bearings.
- Common Applications – needle bearing, aerospace fasteners, motor shafts, transmission and engine components.



94AB BAS – Advanced grain technology used in Cylindrical and Centerless applications. This grain can be used to grind steels in either soft or hard state.



Premium Aluminum Oxide Centerless, Cylindrical Wheels

Size	Type	Grit	Grade	AZ/BAS Premium Blue Aluminum Oxide	PA/PASP Pink	WA/WAG White	BC Black Silicon Carbide	GC Green Silicon Carbide	Box Qty
14 x 1 x 5	T1	54	K	35201					2
14 x 1 x 5	T1	80	M	35203					2
14 x 1-1/2 x 5	T5	54	K	35207					2
14 x 2 x 5	T5	54	K	35210					1
14 x 2 x 5	T5	60	L	35211					1
14 x 2 x 5	T5	80	M	35212					1
16 x 1 x 5	T1	60	L	35213					3
16 x 1 x 5	T1	80	M	35214					3
16 x 1-1/2 x 5	T1	60	L	35218					2
16 x 1-1/2 x 8	T1	60	K		37807				2

Premium Aluminum Oxide Centerless, Cylindrical Wheels Cont'd									
Size	Type	Grit	Grade	AZ/BAS Premium Blue Aluminum Oxide	PA/PASP Pink	WA/WAG White	BC Black Silicon Carbide	GC Green Silicon Carbide	Box Qty
16 x 1-1/2 x 5	T1	80	M	35219					2
16 x 2 x 5	T1	60	L	35224					2
16 x 2 x 5	T1	80	M	35225					2
16 x 2 x 5	T1	60	K		37809				
16 x 2 x 5	T1	80	H			37808			2
16 x 2 x 8	T1	60	L	35230					2
16 x 3 x 5	T1	60	K		37814				1
16 x 3 x 5	T1	80	H			37813			1
16 x 4 x 10	T1	60	L	35232					1
16 x 4 x 10	T1	80	L	35233					1
20 x 1 x 12	T1	60	M	35236					3
20 x 1 x 8	T1	80	K					37815	3
20 x 2 x 8	T1	60	K		37816				2
20 x 3 x 8	T1	60	K		37818				2
20 x 2 x 12	T1	60	K	35241					2
20 x 2 x 12	T1	60	L	35242					2
20 x 2 x 12	T1	80	P	35246					2
20 x 2 x 12	T1	80	K					37821	2
20 x 2 x 12-80N/120S	T1	80	N	35247					2
20 x 2-1/2 x 12 -80N/120S	T1	80	N	35251					2
20 x 3 x 8	T1	80	H			37817			2
20 x 3 x 12	T1	60	K	35254					2
20 x 4 x 12	T1	60	K	35266					1
20 x 4 x 12	T1	60	L	35267					1
20 x 4 x 12	T1	80	M	35270					1
20 x 4 x 12-80N/120S	T1	80	N	35273					1
20 x 6 x 12	T1	60	J	35277					1
20 x 6 x 12	T1	60	K	35278					1
20 x 6 x 12	T1	60	L	35279					1
20 x 6 x 12	T1	60	M	35280					1
20 x 6 x 12	T1	80	J	35281					1
20 x 6 x 12	T1	80	L	35282					2
20 x 6 x 12-80N/120S	T1	80	M	35283					1
20 x 6 x 12	T1	80	N	35286					1



Premium Aluminum Oxide Centerless, Cylindrical Wheels Cont'd									
Size	Type	Grit	Grade	AZ/BAS Premium Blue Aluminum Oxide	PA/PASP Pink	WA/WAG White	BC Black Silicon Carbide	GC Green Silicon Carbide	Box Qty
20 x 6 x 12	T1	60	L				35287		1
20 x 8 x 12	T1	60	K	35293					1
20 x 8 x 12	T1	60	L	35294					1
20 x 8 x 12	T1	60	M	35295					1
20 x 8 x 12	T1	80	J	35296					1
20 x 8 x 12	T1	80	L	35297					1
20 x 8 x 12	T1	80	M	35298					1
20 x 8 x 12	T1	80	O	35299					1
20 x 8 x 12-80N/120S	T1	80	N	35300					1
24 x 2 x 12	T1	60	K	35314					2
24 x 2 x 12	T1	60	K		37831				2
24 x 2 x 12-80N/120S	T1	80	N	35319					2
24 x 2-1/2 x 12-80N/120S	T1	80	N	35321					2
24 x 3 x 12	T1	60	K	35324					1
24 x 3 x 12	T1	80	H			37833			1
24 x 4 x 12	T1	60	K	35333					1
24 x 4 x 12	T1	80	M	35337					1
24 x 4 x 12-80N/120S	T1	80	S	35339					1
24 x 6 x 12	T1	60	K	35342					1
24 x 6 x 12	T1	60	L	35343					1
24 x 6 x 12-80N/120S	T1	80	J	35345					1
24 x 6 x 12-80N/120S	T1	80	N	35349					1
24 x 8 x 12	T1	60	K	35352					1
24 x 8 x 12	T1	60	L	35353					1
24 x 8 x 12	T1	60	M	35354					1
24 x 8 x 12	T1	80	J	35355					1
24 x 8 x 12	T1	80	L	35356					1
24 x 8 x 12	T1	60	L				35360		1
24 x 10 x 12	T1	60	K	35363					1
24 x 20 x 12	T1	60	K	35368					1

FEED REGULATING WHEELS

BENEFITS OF CALENDERED RUBBER FEED WHEELS (CDR)

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.

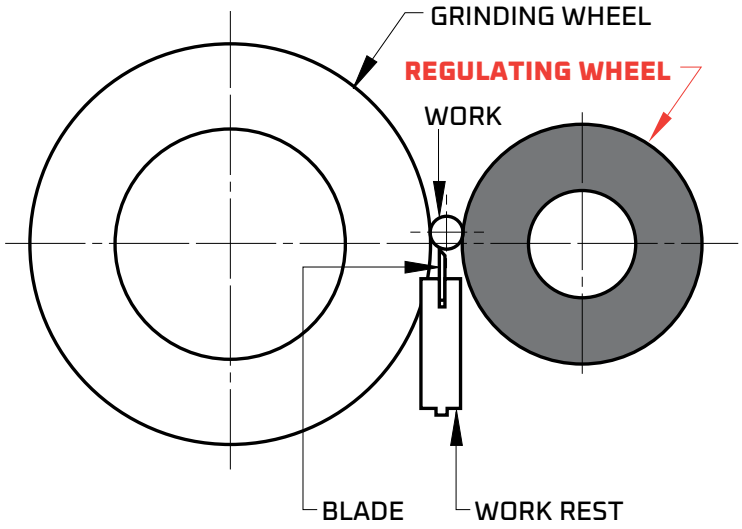
BENEFITS OF CAST NATURAL RUBBER FEED WHEELS (RX)

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.

- 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

R/2: Recess Two Sides – Type 7 Wheel
R/1: Recess One Side – Type 5 Wheel
D/S: Other Side of Wheel



Feed Regulating Wheels				
SKU	Size	Type	Spec	Recess
35376	9 x 4 x 4	T7	A80-R2-RX	R/2 - 5-1/4 x 5/8
35239	12 x 1 x 5	T1	A80-R2-RX	No Recess
35248	12 x 2 x 5	T1	A80-R2-RX	No Recess
35384	12 x 2-1/2 x 5	T1	A80-R2-RX	No Recess
35274	12 x 4 x 5	T7	A80-R2-RX	R/2 - 7-1/2 x 1/2
35290	12 x 6 x 5	T7	A80-R2-RX	R/2 - 7-1/2 x 1/2 O/S - 7-1/2 x 1-1/2
35288	12 x 6 x 5	T7	A80-R2-RX	R/2 - 7-1/2 x 1/2
35302	12 x 8 x 5	T5	A80-R2-RX	R/1 - 7-1/2 x 1/2
35390	12 x 8 x 5	T7	A80-R2-RX	R/2 - 7-1/2 x 1/2
35303	12 x 8 x 5	T7	A80-R2-RX	R/2 - 7-1/2 x 1-1/2 O/S - 7-1/2 x 2-1/2
35362	14 x 8 x 5	T7	A80-R2-RX	R/2 - 8 x 1-1/2 O/S - 8 x 2-1/2
35372	14 x 20 x 6	T7	A80-R2-RX	R/2 - 8-1/2 x 1-1/2
35289	12 x 6 x 5	T7	A80-R2-CDR	R/2 - 7-1/2 x 1-1/2
35304	12 x 8 x 5	T7	A80-R2-CDR	R/2 - 7-1/2 x 1-1/2 O/S - 7-1/2 x 2-1/2

TOOL & CUTTER WHEELS

The standard shapes most commonly used in tool & cutter grinding are:

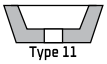
T-11 – Flaring Cup

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.



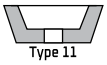
surface speed = 35 m/s



Type 11

White Aluminum Tool & Cutter Wheels | Type 11

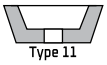
SKU	Size	Grit	Grade	Box Qty
34903	4/3 x 1-1/2 x 1-1/4	46	J	10
34904	4/3 x 1-1/2 x 1-1/4	46	K	10
34907	4/3 x 1-1/2 x 1-1/4	60	J	10
34908	4/3 x 1-1/2 x 1-1/4	60	K	10
34909	4/3 x 1-1/2 x 1-1/4	80	J	10
34914	5/3-3/4 x 1-3/4 x 1-1/4	46	H	10
34915	5/3-3/4 x 1-3/4 x 1-1/4	46	I	10
34916	5/3-3/4 x 1-3/4 x 1-1/4	46	J	10
34917	5/3-3/4 x 1-3/4 x 1-1/4	46	K	10
34919	5/3-3/4 x 1-3/4 x 1-1/4	60	I	10
34920	5/3-3/4 x 1-3/4 x 1-1/4	60	J	10
34921	5/3-3/4 x 1-3/4 x 1-1/4	60	K	10
34923	5/3-3/4 x 1-3/4 x 1-1/4	80	K	10



Type 11

Pink Aluminum Tool & Cutter Wheels | Type 11

SKU	Size	Grit	Grade	Box Qty
58054	4/3 x 1-1/2 x 1-1/4	46	K	10
58057	4/3 x 1-1/2 x 1-1/4	80	K	10
58058	5/3-3/4 x 1-3/4 x 1-1/4	46	I	10
58059	5/3-3/4 x 1-3/4 x 1-1/4	46	K	10
58060	5/3-3/4 x 1-3/4 x 1-1/4	60	K	10



Type 11

Ceramic Aluminum Tool & Cutter Wheels | Type 11

SKU	Size	Grit	Grade	Box Qty
34200	4/3 x 1-1/2 x 1-1/4	46	I	10
34201	4/3 x 1-1/2 x 1-1/4	60	K	10
34203	5/3-3/4 x 1-3/4 x 1-1/4	46	I	10
34204	5/3-3/4 x 1-3/4 x 1-1/4	60	J	10



Type 50

Green Silicon Carbide Tool & Cutter Wheels | Type 50

SKU	Size	Grit	Grade	Box Qty
34949	6 x 1 x 4	60	I	10
34950	6 x 1 x 4	80	I	10
34951	6 x 1 x 4	100	I	10
34952	6 x 1 x 4	120	I	10
34948	6 x 1 x 4	46	K	10

DRESSING WHEELS, STICKS

- Combination Stone: Designed to clean magnetic chucks.
- Dressing Wheels: Brake controlled truing devices used for dressing/ opening diamond wheels.
- Dressing Sticks: Dressing and opening resin bonded wheels.
- Silicon Carbide abrasive grain.



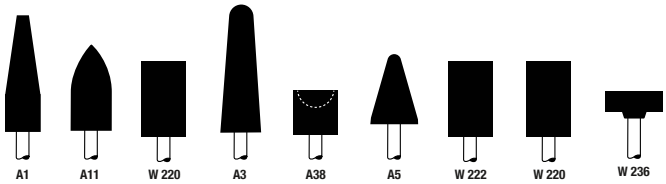
Dressing Wheels				
SKU	Size	Spec	RPM	Box Qty
35905	3 x 1/2 x 1/2	72C-80-L-V	10,823	50
35906	3 x 1 x 1/2	72C-60-L-V	10,823	20
35907	3 x 1 x 1/2	72C-80-J-XV	10,823	20
35908	3 x 1 x 1/2	72C-80-L-V	10,823	20

Round Combination Stone			
SKU	Size	Spec	Box Qty
35902	4 x 1/2	C150/320-MN7	20

Dressing Sticks			
SKU	Size	Spec	Box Qty
35909	1 x 1 x 6	C24-S-V	50

PREMIUM PINK ALUMINUM OXIDE MOUNTED POINTS

- 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 and W.
- The semi-friable pink PA abrasive is used to produce sharp, consistent cutting action.





Premium Pink Aluminum Oxide Mounted Points I 1/4 Shank							
SKU	Size	Spec	Box Qty	SKU	Size	Spec	Box Qty
35951	7/8 x 2-1/2	A1	10	35975	1 x 1	A38	10
35953	7/8 x 2-3/4	A3	10	36058	1 x 1	W220	10
35955	3/4 x 1-1/8	A5	10	36060	1 x 2	W222	10
35957	7/8 x 2	A11	10	36067	1-1/2 x 1/2	W236	10

SKU	PG#	SKU	PG#	SKU	PG#	SKU	PG#	SKU	PG#	SKU	PG#	SKU	PG#	SKU	PG#
30001	28	34064	110	34303	106	34422	108	34616	106	34755	108	35203	113	35337	115
30002	28	34067	110	34308	106	34425	108	34617	106	34759	108	35207	113	35339	115
30004	28	34069	110	34309	106	34426	108	34618	106	34761	108	35210	113	35342	115
30005	28	34070	110	34310	106	34427	108	34619	106	34762	108	35211	113	35343	115
30006	28	34071	110	34312	106	34429	108	34620	106	34763	108	35212	113	35345	115
30011	28	34072	110	34313	106	34430	108	34621	106	34766	108	35213	113	35349	115
30012	28	34074	110	34315	106	34433	108	34622	106	34769	108	35214	113	35352	115
30014	28	34075	110	34317	106	34434	108	34623	106	34770	108	35218	113	35353	115
30015	28	34078	110	34318	106	34435	108	34624	106	34771	108	35219	114	35354	115
30016	28	34080	110	34319	106	34436	108	34625	106	34774	108	35224	114	35355	115
30142	27	34094	111	34320	106	34437	108	34626	106	34775	108	35225	114	35356	115
30144	27	34114	107	34321	106	34440	108	34627	106	34778	108	35230	114	35360	115
30145	27	34115	108	34324	106	34445	108	34628	106	34779	108	35232	114	35362	116
30146	27	34116	109	34325	106	34447	109	34629	106	34786	109	35233	114	35363	115
30162	27	34147	111	34326	106	34448	109	34633	106	34790	109	35236	114	35368	115
30164	27	34148	111	34328	106	34449	109	34634	106	34793	109	35239	116	35372	116
30202	27	34149	111	34329	106	34452	109	34635	106	34794	109	35241	114	35376	116
30204	27	34150	111	34330	106	34454	109	34636	106	34795	109	35242	114	35384	116
30205	27	34151	111	34332	106	34456	109	34638	106	34798	109	35246	114	35390	116
30212	27	34152	111	34333	106	34458	109	34644	106	34801	109	35247	114	35500	57
30214	27	34153	111	34335	106	34459	109	34647	107	34802	109	35248	116	35501	57
30215	27	34154	111	34336	106	34460	109	34648	107	34803	109	35251	114	35502	57
30222	27	34200	117	34337	106	34462	109	34652	107	34809	109	35254	114	35503	57
30224	27	34201	117	34341	106	34464	109	34653	107	34811	109	35266	114	35504	57
30225	27	34203	117	34342	107	34465	109	34655	107	34812	109	35267	114	35505	57
34003	110	34204	117	34343	107	34466	109	34656	107	34813	109	35270	114	35506	57
34004	110	34207	106	34344	107	34469	109	34657	107	34816	109	35273	114	35507	57
34006	110	34208	106	34345	107	34470	109	34663	107	34903	117	35274	116	35508	57
34007	110	34209	106	34348	107	34472	109	34664	107	34904	117	35277	114	35509	57
34014	110	34210	106	34349	107	34473	109	34669	107	34907	117	35278	114	35510	57
34021	110	34212	106	34350	107	34474	109	34671	107	34908	117	35279	114	35511	57
34022	110	34213	106	34351	107	34480	109	34672	107	34909	117	35280	114	35512	57
34023	110	34214	107	34352	107	34481	109	34673	107	34914	117	35281	114	35514	13
34025	110	34215	107	34353	107	34482	109	34674	107	34915	117	35282	114	35514	52
34027	110	34219	108	34354	107	34486	109	34676	107	34916	117	35283	114	35515	13
34028	110	34220	108	34355	107	34487	109	34677	107	34917	117	35286	114	35515	53
34029	110	34221	108	34356	107	34488	109	34678	107	34919	117	35287	115	35516	52
34032	110	34222	108	34357	107	34489	109	34679	107	34920	117	35288	116	35517	13
34033	110	34223	108	34358	107	34490	109	34680	107	34921	117	35289	116	35517	52
34034	110	34225	108	34359	107	34491	109	34681	107	34923	117	35290	116	35518	52
34036	110	34226	108	34360	107	34493	109	34682	107	34948	117	35293	115	35575	58
34037	110	34227	108	34364	107	34495	109	34683	107	34949	117	35294	115	35576	58
34038	110	34230	109	34366	107	34496	109	34688	107	34950	117	35295	115	35582	57
34039	110	34232	109	34367	107	34497	110	34689	107	34951	117	35296	115	35584	57
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34043	110	34234	109	34383	108	34603	106	34692	107	35044	112	35298	115	35589	59
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