

006 | Case Studies

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SURFACE CONDITIONING CLEAN & FINISH FLAP WHEELS

See how we have assisted companies and their productivity by using our 5-Step Productivity Analysis.

Lab Showcase

A collection of lab reports have been issued at the request of end users or for internal comparative testing against existing products. Use this section to compare your own operations to a sampling of our library.

022

Market Overview

Our products serve specific industries and understanding these industries is critical for innovative product development.

026

Materials

Understand the differences in grain structure, backing materials and other important factors to help with your abrasive choices.

104



Like our new logo, the PREDATOR™ brand has evolved into more than just a product, but into a way of thinking and attacking the market to bring value and savings to American manufacturing. We started with an idea to develop a range of products that would prove to be of value to customers in cost and performance. This basis has served us well for the past 4 years. However, like our new logo, PREDATOR™ has morphed into an innovative, cutting edge technology. This thinking has been proven in products like our Rapid Release System and Performance Coating. These products will continue to define



CONDITIONING | CLEAN & FINISH | FLAP WHEELS

SPECIALTIES NO LAP BANDS



CAPABILITIES

One very important part of our sales process is to provide samples for end user testing. We value our customers and make the delivery of your sample an important priority.

To share our knowledge of the metalworking industry, we allow you to request the specific samples needed. Going one step further, we can accompany you on a sales call to assist in closing



EDI & Trading Partners

To ease ordering, we use an industry standard EDI exchange software for the 'Trading Communities.' This allows us to receive your orders electronically, alleviating the need to keep track of physical paperwork.

Rebate Program

With a continuous interest in creating new business opportunities with our distributors, a rebate program can be offered for new sales. Not all distributor needs are similar, so we offer a wide range of incentive and rebates based on your preferences.

Private Label Program

For select distributors, we can implement and apply an unbranded, or private label to both packaging and individual products with your company logo.

Shipping Programs

Through our select carriers, we can ship overnight, provide competitive pallet rates, and drop ship directly to your customer. A free freight policy may also be available on select large orders.

CAPABILITIES

Productivity Analysis

Understanding how our products work within weld removal, deburring and flash removal, and surface finishing applications is critical. We are continually testing our innovative products on these applications and comparing our results to commonly used products and techniques. This gives us a very clear understanding of how our products will work for you and is the staple of our continuous improvement and product development. Let us show you how we approach every situation with our 5-Step Productivity Analysis.

STEP 1: Determine Process

Perform an in depth abrasive cost savings study on-site. The purpose is to completely understand the following:

- a. Metals being worked with
- b. Fabrication processes in the shop
- c. Current abrasive applications
- d. Current products used
- e. Customer objectives

STEP 2: Recreate Conditions

Duplicate the end user's conditions in our lab, eliminating testing in your facility, to develop a cost effective process for your particular abrasive application.

STEP 3: Demonstrate Modifications

Return to the end user with our lab results to perform focused end user testing.

STEP 4: Document Feedback

Document all test results with each operator in writing.

STEP 5: Provide Cost Savings and Process Improvements

Compare pricing and testing results to document product and process savings.

www.arcabrasives.com

Agricultural Equipment

Manufacturer of agricultural equipment, including tractors, combines, hay tools, sprayers, forage and tillage equipment.

Evaluation and Opportunity

Given the major operations involved with this manufacturer, several locations are utilized within the facilities. Although these operations are kept separate and involve different applications there is still product crossover between the two.

Acknowledging heavy stock and rust removal as separate applications, new products can be suggested to improve production efficiencies. Although the wire brush that is currently used for specific applications is a formidable solution, many other products can be adjusted or replaced for the benefit of remaining applications.

"...Saves hours of sandblasting..."

"...Removes all rust, not just the top layer..."

Billed Time for Rust Removal

Location 1	150 hrs/wk
Location 2	125 hrs/wk
Combined Total	13,750 hrs/yr
Annual Billed Cost x Labor Rate	\$412,500

Based on performance results and operator feedback, we can estimate the following product rates:

Performance Improvement	New SCD Hours/Yr	
2 to 1	6,875	\$206,250
3 to 1	4,583	\$275,000
4 to 1	3,438	\$309,375
Product	Usage	Savings
PREDATOR™ Quick-Lok Disc	39,360	\$9,052
PREDATOR™ Resin Fibre Disc	81,000	\$23,490
Zirconia Resin Fibre Disc	6,960	\$7,238
Surface Conditioning Disc	62,008	\$11,781
Total		\$51,561



Earth Moving Equipment

Manufacturer of small earth moving equipment specializing in compact loaders, excavators and attachments.

Evaluation and Opportunity

Several production departments were available for evaluation, including booms, mainframes, flat beds and rails. Most operators were using 9" 60 grit resin fibre discs on their various applications, with the addition of a knotted wire brush on certain welds.

The majority of all applications involved removal of large scratches or penetration marks and mill scale on mild steel plates or sheets. Relative to the required applications, large resin fibre discs are far too aggressive and their maximum potential is not realized.

ARC believes that we can provide better performance by product with a better base cost than what is currently being used as evidence in our mounted flap wheel quote and operator feedback. We provided a better mounted flap wheel at a \$1.53 savings per piece.

Conclusion

ARC identified 3 main products that provide cost savings in cut, life and head to head product savings. ARC was \$1.53 less than the current flap wheel that was being used with equal performance. This one item was a \$53,000 savings. Additional items such as the resin fibre disc and flap disc showed a faster cut and a 2 to 1 increase in life with a lower product cost.

Progressive Die Stamping

Evaluation and Opportunity

This customer had very specific finishing needs that required two applications for each part – deburring after stamping and finishing. The process consisted of using several grits and types of grains. With many different products used on each machine, down time was significantly increased.

Product dressing time was used to wear down a new belt to match the required finish. To avoid wasting machine down time or dressing belts to a certain grit, a compact grain product could last 15 to 20 times longer without any dressing required.

Conclusion

After much internal lab work each finishing requirement was matched with the appropriate compact grain size and confirmed by several surface measurements. Existing belt usage was cut by nearly 50% with a lower product cost.

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Aerospace Manufacturing

Manufacturer of military and private aircraft parts.

Evaluation and Opportunity

Operations involved removing machining marks from both titanium and aluminum parts. Conventional, single layer silicon carbide and aluminum oxide materials were used to smooth the flat surfaces and round outside edges.

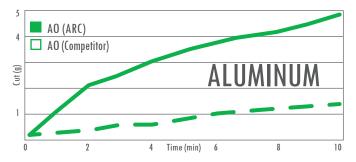
The titanium parts generated so much heat that conventional abrasive grains broke down, quickly depleting product life. The use of a compact grain is similar in cost, but has a much longer life with faster cutting action.

Soft metals like aluminum melt and load into the grain structure, rendering products inoperable. Performance coating has the ability to limit loading by reducing heat and increasing performance nearly 10 to 1.

Conclusion

The products that were recommended by ARC increased life and cut with a 25% reduction in product cost. The compact grain increased cut rate and usable life by 5 to 1 over the conventional silicon carbide discs that were being used.





Aerospace Repair

Aircraft maintenance and quality control facility.

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Lab Showcase

Reference

Evaluation and Opportunity

Required processes included corrosion control, weld removal and general repair of titanium, nickel alloy and aluminum components.

Surface conditioning materials were currently used for corrosion control applications, but the current products were not lasting long. During evaluation ARC considered all surface conditioning grades in order to find the best balance of performance and finish.

Weld removal applications were required for all metals with titanium being the most demanding. The heat generated during grinding was actually melting the backing pad, sometimes rendering it useless after one application. Aluminum applications were treated differently, as the metal would melt, load the discs and prematurely deplete product life. This is the reason less expensive and much less technical aluminum oxide grains were being used.

Conclusion

Equivalent materials were recommended for corrosion control applications, providing similar performance and finish while lowering costs. On titanium, performance increases of 25% to 200% were seen with silicon carbide compact grain, versus the conventional silicon carbide that was being used.

Operators were impressed with all of the recommendations that ARC provided, but they were especially appreciative of the performance coating recommendation for their aluminum components. The Performance Coated PREDATOR™ quick-lok discs easily increased existing performance by 169% on aluminum.





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FLAP DISC

QUICK-LO

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SPECIALTIES

NO LAP BANDS

LAB SHOWCASE

Our research and development lab allows us to perform automated and off-hand application testing, and the ability to break down each step of an application while supplying performance results and specific direction.

One of the many goals of our research and development team is to save you production time by recreating your conditions in our facility, versus using your shop floor. Per request, we can fabricate custom pieces on which to test, receive an actual work piece, or review a customer submitted application video.

We have assembled lab reports that have been issued at the request of end users or for internal comparative testing against existing products.



Reference Page 014 172

Product Analysis

Send us a video

Offering a product-for-product recommendation based on performance tests conducted in our own lab.

Page 017 Cab Showcase 017 Cab Showcase

Process Improvement

Document your process

Improving production processes based on your application by testing and comparing all available techniques and product choices.

Page 021 Lab Showcase 425

Application Duplication

Send us your parts

Using customer submitted parts or custom fabrications, recommendations are well documented and extremely accurate.

To quickly associate our tests with your applications, use our reference table to tell you what metals and products are involved.

Our objective for the test is detailed

Our reason for implementing a test is outlined.

Products used are listed, including our SKUs

To learn more about a specific product used, reference the items listed in our Products chapter of the catalog.

Equipment, techniques or recording methods are explained

Each test is different and may require unique equipment.

Based on our results, our conclusions are presented

An assesment of our research is presented to conclude all tests.

Quick-Lok Disc		•	1000
Resin Fibre Disc		•	
Flap Disc	100		
PSA Disc	1		
Belt	No.	•	

Compare stainless steel performance results of PREDATOR™ in 2" Quick-Lok Disc and 1/2 x 24" Belt form against leading competitive materials.

ARC Products

71-31656 2" PREDATOR™ Quick-Lok Disc, 120 Grit **71-005024008** 1/2 x 24" PREDATOR™ Airfile Belt, 120 Grit

Competitive Products

2" Quick Change Disc, 120 Grit 1/2 x 24" Airfile Belt, 120 Grit

Test Method

All tests were performed by hand using the appropriate tooling. Each test lasted for 20 minutes on several stainless steel welds, approximately ¼" wide. The stainless work piece was weighed every minute, and the products were weighed before and after the test.

Conclusion

The same weight was lost from each quick change disc tested, and the PREDATOR™ material outperformed the competitive material by 9%. Although both belts lost the same amount of material, the PREDATOR™ airfile belt was outperformed in cut by 41.6%.



261 Quick-Lok Disc **Resin Fibre Disc** Flap Disc **PSA Disc** Belt

Comparative results of silicon carbide materials in various product forms and grits, as reference for Aerospace Market performance.

ARC Products

71-10825AF

4-1/2 x 7/8" PREDATOR™ Hard Edge, 60 Grit 71-10825AFW 4-1/2 x 7/8" PREDATOR™ Hard Edge, 60 Grit

> 4-1/2 x 7/8" SC/CG Flap Disc, 80 Grit 4-1/2 x 7/8" SC/CG Flap Disc, 120 Grit 1/2 x 1-1/2 x 1/8" SC/CG Cartridge Roll 1/2 x 1-1/2 x 1/8" AO/CG Cartridge Roll 1/2 x 1-1/2 x 1/8" SC/CG Cartridge Roll

Competitive Products

4-1/2 x 7/8" Flap Disc, 60 Grit 1/2 x 1-1/2 x 1/8" Silicon Carbide Cartridge Roll

Test Method

Flap discs were tested by hand with the use of a right angle grinder operating at 10,000 RPM. The work piece was weighed every minute to determine cut rate, and the discs were weighed before and after the test.

Cartridge rolls were tested by hand using a small pneumatic right angle grinder for 10 minutes, or until the cartridge roll was deemed unusable. The same methods for determining flap disc cut rates were used for cartridge rolls.

Conclusion

Both of the silicon carbide compact grain flap discs outperformed PREDATOR™ on titanium by 90% or more in cut. The compact grains were able to break down, while all other materials tested glazed over due to the heat of the titanium during grinding. Hard Edge PREDATOR™ flap discs performed two times better than silicon carbide compact grain materials on aluminum. However, Performance Coated PREDATOR™ Hard Edge flap discs performed approximately 3.5 times better than all silicon carbide compact grain discs on aluminum.

The X-Weight silicon carbide compact grain cartridge rolls performed well on titanium, and the ARC ABRASIVES, INC. product outperformed the competitor by 60%. All of the J-Weight cartridge rolls completely fell apart at 5 minutes, and were cutting 100% less than our silicon carbide compact grain material at the end of their life.

Quick-Lok Disc **Resin Fibre Disc** Flap Disc **PSA Disc**

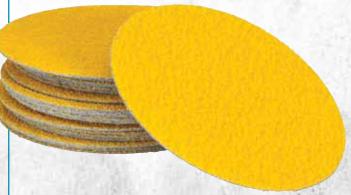
To test the performance and longevity of various PSA disc materials on cold rolled mild steel.

Customer

Belt

328

Manufacturer of small utility equipment to some of the largest earth movers in the world.



Products Used

71-30441 71-30442

5" PREDATOR™ PSA Disc, 60 Grit 5" PREDATOR™ PSA Disc, 80 Grit

5" Aluminum Oxide J-Wt PSA Disc. 60 Grit

5" Aluminum Oxide J-Wt PSA Disc, 80 Grit

5" Aluminum Oxide F-Wt PSA Disc, 60 Grit

5" Aluminum Oxide F-Wt PSA Disc, 80 Grit

Test Method

Each disc was used with an electric orbital sander at a speed of 12,000 RPM removing as many mild steel spot welds as possible in 5 minutes The metal was weighed every minute to determine rate of cut and each discs was weighed before and after the test to document product life.

Conclusion

Both 60 and 80 grit PREDATOR™ PSA discs outlasted the J and F weight paper discs by 150%. The 60 grit PREDATOR™ disc cut over 300% more, while the 80 grit cut nearly 250% more than either paper disc.

When considering cut, life and finish, the 80 grit PREDATOR™ PSA disc provides the best overall performance.

172 Quick-Lok Disc Resin Fibre Disc Flap Disc PSA Disc Belt

Document our material removal rates against top competitors commonly used for similar mild steel applications.

ARC Products

71-047802 4-1/2 x 7/8" PREDATOR™ Resin Fibre Disc, 36 Grit

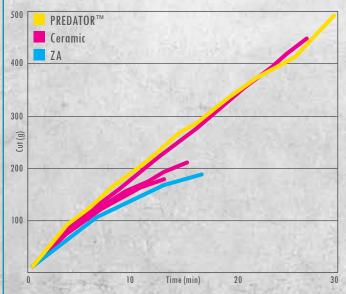
Competitive Products

4-1/2" x 7/8" Assorted Top Competitors, 36 Grit

Test Method

Each disc was tested by hand using a 4-1/2" angle grinder at 10,000 RPM. The goal was to remove as many 6" x 1/4" welds on a mild steel bar. The test was noted as complete once a disc was deemed to have stopped cutting or the cut rate had dropped significantly.

Each piece of mild steel was weighed before and after each weld was removed. Each disc was weighed at the start and end of the test to establish the life of the disc. The time needed to remove the weld was recorded to establish the removal rate.



Conclusion

PREDATOR $^{\text{TM}}$ and the next leading contender were similar in performance, but remaining competitors cut slower and only lasted approximately half of the test.

395	Mild Steel	Stainless Ste	Aluminum	Titanium
Quick-Lok Disc				
Resin Fibre Disc	7 %	•		
Flap Disc				
PSA Disc	1 6			
Belt				

Compare our resin fibre disc performance against leading zirconia and aluminum oxide products on stainless steel.

ARC Products

71-047802 4-1/2 x 7/8" PREDATOR™ Resin Fibre Disc, 36 Grit

Competitive Products

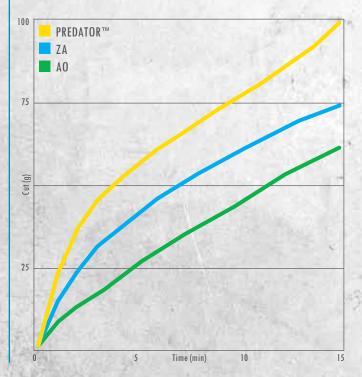
Zirconia alumina and aluminum oxide resin fibre discs.

Test Method

Each disc was tested off-hand using a 4-1/2" angle grinder at a speed of 11,000 RPM for 15 minutes. Tests were administered on the edge of a 12 x 2 x $\frac{1}{4}$ " stainless steel bar. The stainless steel bar was weighed every minute to determine product cut rate.

Conclusion

The 36 grit PREDATOR™ disc outperformed the competitive disc cut rates by an average of 34%.



419	Mild Steel	Stainless Steel	Aluminum	Titanium **
Quick-Lok Disc				
Resin Fibre Disc		1	•	
Flap Disc				
PSA Disc		1		
Belt				

Comparing performance of an untreated, high-end ceramic against Performance Coated PREDATOR™ on aluminum.

ARC Products

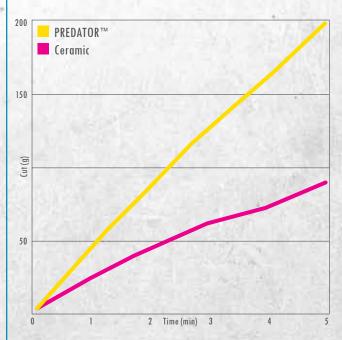
71-077802W 7 x 7/8" PREDATOR™ Resin Fibre Disc, 36 Grit

Competitive Products

Competitive full ceramic resin fibre disc

Test Method

Grinding was administered by hand using a 7" angle grinder at 6,000 RPM for five minutes. The work piece used was a 12 x 2 x $\frac{1}{2}$ " aluminum bar, focusing on the $\frac{1}{2}$ " face. The metal bar was weighed every minute, and the discs weights were documented before and after the test.



Conclusion

The loading and burning were substantial on the full ceramic disc, while the Performance Coating was preventative. In five minutes, the Performance Coated PREDATOR $^{\text{TM}}$ disc cut 205.6g, versus the 95.3g, for an improvement of 216% over the competitive product.

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Quick-Lok Disc			•	
Resin Fibre Disc	m		•	
Flap Disc				
PSA Disc	3 //	16-6	•	190
Belt				

ARC Products

71-077802W 7 x 7/8" PREDATOR™ Resin Fibre Disc, 36 Grit

71-31653W 2" PREDATOR™ Quick-Lok Disc, 60 Grit

59341 2" Type R Quick-Lok Disc, CRS **71-30444W** 5" PREDATOR™ PSA Disc, 120 Grit



Test Method

All resin fibre discs were tested by hand using an electric angle grinder operating at 6,000 RPM. Intentions of the test were to allow each disc to remove as many 12" aluminum welds as possible.

Using a small pneumatic right angle die grinder, the coated quick change discs were tasked with removing as many 2" aluminum welds as possible before depleting their life. The surface conditioning discs were then used to clean the work area.

Each occurrence of a weld completely removed was timed and documented, as was the time to clean the areas removed after weld removal.

PSA discs were tested using a pneumatic orbital sander by hand. Unused discs were tested on both a bare aluminum plate, and a layer of two-part body filler applied to each 12 x 12 x 1/4" plate. The bare plates were ground for 10 minutes by each disc, whereas the body filler was only ground for five minutes. Surface profile measurements were taken from the bare plates every two minutes to document the finishing properties of each PSA disc. The metal work pieces were weighed before and after each test or, in some cases, every minute to determine cut rates of the various products.

Comparing performance of an existing series of aluminum applications, ranging from heavy stock removal to moderate surface finishing.

Customer

Manufacturer of custom fire trucks such as aerials, pumpers, rescues, tankers and specialty vehicles.

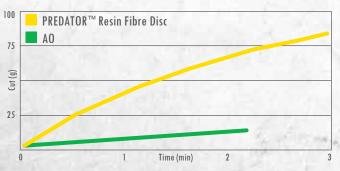
Competitive Products

7 x 7/8" Resin Fibre Disc, 36 Grit

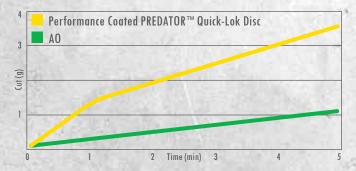
- 2" Quick Change Disc, 60 Grit
- 2" Surface Conditioning Quick Change Disc, CRS
- 5" PSA Disc, 100 & 500 Grit

Conclusion

Performance Coated PREDATOR™ resin fibre discs were able to remove 60" of aluminum weld material quicker than the competitive material, which could remove only 10", at which point it was deemed to have stopped cutting.



PREDATOR™ quick-lok discs were able to remove 6" of weld material in 2-1/2 minutes, versus the 3 minutes taken to remove 2" of material by the competitive material. After cleaning each work area with the surface conditioning discs, the resulting finishes were extremely similar.



All PSA disc tests showed increased efficiency and performance with PREDATOR™ materials. Surface profile measurements were recorded and PREDATOR™ materials ended with a finish slightly coarser than the competitive materials.

Quick-Lok Disc

Resin Fibre Disc
Flap Disc
PSA Disc

Document an efficient process for a reproducible finish on stainless steel parts.

Customer

Belt

Appliance manufacturer of all major categories, including fabric care, cooking, refrigeration, dishwashers, countertop appliances, garage organization and water filtration.

Products Used

10817AF 4-1/2 x 5/8"-11 Zirconia Alumina Flap Disc, 120 Grit 1061578-2 4-1/2 x 5/8"-11 Aluminum Oxide Flap Disc, 120 Grit 71-10817AF PREDATOR™ Hard Edge Flap Disc, 120 Grit 3720608 4-1/2 x 7/8" Zirconia Alumina Resin Fibre Disc, 120 Grit 31660-5 2" Compact Grain Type R Quick-Lok Disc, 320 Grit 31660Z1-5 2" Compact Grain Type R Quick-Lok Disc, 400 Grit 3 x 2 x 1/4" Interleaf Mounted Flap Wheel, 180 Grit 3 x 2 x 1/4" Interleaf Mounted Flap Wheel, 320 Grit 6 x 9" General Purpose Handpad, AL SIL

Test Method

Our process steps involved stock removal to scratch removal and surface blending. Starting with a PREDATOR™ flap disc, welds were removed on each plane of the provided appliance control panel. The 120 grit scratches were then removed with 320 or 400 grit compact grain quick-lok discs, and blended and finished with a hook and loop film disc.

The remaining smaller welds were initially removed with compact grain quick-loks, again followed by a small diameter hook and loop film disc, using a small orbital sander.

Less severe scratch or swirl marks were finished with a general purpose handpad or, depending on the particular geometry of the piece, an interleaf mounted flap wheel.

Conclusion

Each face or outside corner of the provided range top control panel can be finished within seven steps, providing a consistent finish suitable for showroom use. The new processes can be completed in approximately 7 to 12 minutes, per face. Results were presented to the customer for comparative analysis against their current processes.

Stainless Steel Aluminum 256 **Quick-Lok Disc Resin Fibre Disc** Flap Disc **PSA Disc** Belt Performance Coated AO Untreated AO Cut(g) Time (min) 6 Surface Conditioning (ARC) ☐ Surface Conditioning (Competitor) Cut(g) Time (min) SPECTRA™ A0 1.00 0.75 Cut (g) 0.50 0.25

Performance testing of current products used versus our comparable offerings.

Customer

A global player in major aviation hubs that offers a spectrum of maintenance and engineering services that include airframe, engine and component maintenance, repair and overhaul; engineering design and technical services; and aviation materials.

ARC Products

31654W 2" Performance Coated AO Quick-Lok Disc, 80 Grit
31656W 2" Performance Coated AO Quick-Lok Disc, 120 Grit
59343 2" Surface Conditioning Quick-Lok Disc, VFN
59342 2" Surface Conditioning Quick-Lok Disc, MED
36615 6" SPECTRA™ PSA Paper Disc, 400 Grit
903161403W 3 x 1/16 x 1/4" Type 1 Cut Off Wheel, A46T
904161403W 4 x 1/16 x 1/4" Type 1 Cut Off Wheel, A46T

Competitive Products

- 2" Aluminum Oxide Quick Change Discs, 80 and 120 Grit
- 2" Surface Conditioning Quick Change Discs, MED and VFN
- 6" Paper PSA Disc, 400 Grit
- 3" Reinforced Cut Off Wheel
- 4" Reinforced Cut Off Wheel

Test Method

Our customer manufactured specific work pieces to be used for our testing, consisting of aluminum, which allows us to formulate accurate performance of existing products. The quick change discs and PSA discs were tested for 10 minutes by hand using a pneumatic right angle die grinder and pneumatic orbital sander, respectively. The work pieces were weighed every minute, and a surface profile measurement was taken following the test.

The reinforced cut off wheel tests were performed with an automated flexshaft machine operating at 15,000 RPM. The weight and outside diameter of the wheel were documented before and after the test was done. Tests consisted of making 40 or 50 cuts, depending on wheel diameter, on an extruded aluminum tube of 34" diameter.

Conclusion

80 grit, Performance Coated aluminum oxide quick-lok discs outperformed comparable competitive discs by 73%, and the 120 grit was an improvement by 75%. The MED and VFN quick-lok discs outperformed current products by up to 33%. ARC's SPECTRA™ Paper Disc outperformed one competitive paper disc by 50% in performance. ARC's 3" Performance Coated Cut-Off Wheel made all 40 cuts, while the current Aerospace product wore away quicker and could only make 23 cuts in the same amount of time. ARC's 4" Performance Coated Cut-Off Wheel made its 50 cuts 35% faster in time than one competitor could on the same 50 cuts, and ARC's wheel wore out less than the competitor wheel.

Time (min)

120	Mild Steel	Stainless	Aluminum	Titanium
Quick-Lok Disc				
Resin Fibre Disc		1	•	
Flap Disc				
PSA Disc				
Belt				

Compare the benefits of Performance Coated zirconia alumina to untreated abrasives on aluminum applications.

Customer

Designer and manufacturer of high performance aluminum vessels specializing in fast ferries and luxury yachts.

ARC Products

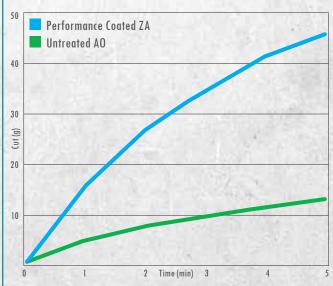
37203W 4-1/2 x 7/8" Zirconia Alumina Resin Fibre Disc, 36 Grit

Competitive Products

4-1/2 x 7/8" Aluminum Oxide Resin Fibre Disc, 36 Grit

Test Method

Testing was administered by hand using a 4-1/2" angle grinder operating at 10,000 RPM. Products were used for 5 minutes each on a 12 x 2 x 1/4" 6061 aluminum bar, weighed every minute. The discs were weighed before and after testing to determine product life.



Conclusion

The Performance Coated zirconia disc performed over 250% better than the untreated aluminum oxide disc. The competitive material quickly loaded with aluminum, slowing the cutting action of the resin fibre disc.

,	Mild	Stain	Alum	Titan
Quick-Lok Disc				
Resin Fibre Disc				
Flap Disc		•		
PSA Disc				
Belt				
DEII				

Direct performance comparison of PREDATOR™ against zirconia and aluminum oxide flap discs on stainless steel.

Products Used

71-10825AF 4-1/2 x 7/8" PREDATOR™ Flap Disc, 60 Grit **10825AF** 4-1/2 x 7/8" Zirconia Flap Disc, 60 Grit **1061355-2** 4-1/2 x 7/8" Aluminum Oxide Flap Disc, 60 Grit

Test Method

Testing was administered by hand, using a 4-1/2" angle grinder operating at 11,000 RPM for 15 minutes. The work piece, a 12 x 2 x 1/4" stainless steel bar, was weighed every minute to determine accurate cut rates. All flap discs were weighed before and after the test to help determine product life.

BELTS

Conclusion

The 60 grit PREDATOR™ flap disc outperformed the zirconia product by 17% in total cut.

The aluminum oxide flap disc was unable to last the entire 15 minute test. At the end of the test, the aluminum oxide product only cut 27% of the PREDATOR™ total.



Achieve faster cut and longer life with PREDATOR™ Hard Edge Flap Discs.

Quick-Lok Disc Resin Fibre Disc Flap Disc PSA Disc Belt

Compare proposed rust removal processes and products versus materials currently used on mild steel.

Customer

Manufacturer of agricultural equipment, including tractors, combines, hay tools, sprayers, forage and tillage equipment.

ARC Products

62023CM 7" Surface Conditioning Hook & Loop Disc, XCRS **0732-0508** 5" ARCSTRIP™ Finishing Disc w/ Fiberglass Backing

Competitive Products

- 5" Zirconia Resin Fibre Disc, 60 Grit
- 5" Aluminum Oxide PSA Disc, 120 Grit
- 3" Surface Conditioning Quick Change Disc, CRS

Test Method

A large plate of A36 mild steel was divided into several 6 x 6" and 12 x 12" squares and allowed to rust over a period of several weeks, mimicking the expected surface conditions of our customer.



The time needed to remove all rust from one square was documented, and video was recorded showing the process used.

Conclusion

Compared to current products used, the proposed surface conditioning, and ARCSTRIP $^{\text{TM}}$ discs both removed rust nearly twice as fast, while the coarse surface conditioning disc provided the finer finish of the two.

284	Mild Steel	Stainless Ste _l	Aluminum	Titanium
Quick-Lok Disc			•	•
Resin Fibre Disc				
Flap Disc				
PSA Disc				
Relt				

Document performance and aesthetic finish differences between suggested products versus current products used in a variety of aluminum and titanium applications.

Customer

Aircraft maintenance and quality control facility,

ARC Products

71-31654W	2" PREDATOR™ Type R Quick-Lok Disc, 80 Grit
31654-8	2" SC/CG Type R Quick-Lok Disc, 80 Grit
31656-8	2" SC/CG Type R Quick-Lok Disc, 120 Grit
59342	2" SCM Type R Quick-Lok Disc, MED
59343	2" SCM Type R Quick-Lok Disc, VFN

Competitive Products

- 2" Quick Change Disc, 80 Grit
- 2" Silicon Carbide Quick Change Discs, 36 and 60 Grit
- 2" Aluminum Oxide Quick Change Disc, 120 Grit
- 2" Surface Conditioning Quick Change Discs, MED and VFN

Test Method

All quick change discs were tested with an automated flex shaft tool on aluminum and titanium, at 6,800 RPM and 15,000 RPM, respectively. The aluminum test piece was of 12 x 12 x 1/4" bar form, and the titanium was cut into 6 x 6 x 1/4" plates. Surface profile measurements were documented from the surface conditioning tests on aluminum.

Conclusion

On aluminum, Performance Coated PREDATOR™ quick-lok discs were able to cut 169% more than the competitive material currently used by our customer.

The 80 grit silicon carbide compact grain discs proved better than top performing competitive materials on titanium by 25%; however, the 120 grit discs improved existing performance by over 200%.

Surface conditioning materials proved to be similar in performance and finish on aluminum, with marginal maximum cut rate differences of 0.6g.

Quick-Lok Disc
Resin Fibre Disc
Flap Disc
PSA Disc
Belt

Performance comparison of Performance Coated Quick-Lok Discs versus two top competitors.

ARC Products

71-31653 2" PREDATOR™ Type R Quick-Lok Disc, 60 Grit
71-31662 3" PREDATOR™ Type R Quick-Lok Disc, 36 Grit
71-31665 3" PREDATOR™ Type R Quick-Lok Disc, 60 Grit

Competitive Products

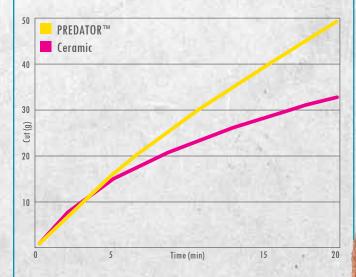
Various 2 and 3" Quick Change Discs, 36 or 60 grit

Test Method

Testing was administered using an automated flex shaft tool, fixed at 30°, operating at 6,800 RPM. The mild steel work piece was weighed at every minute of the 20 minute test, and the discs were weighed every two minutes to determine performance margins.

Conclusion

The automated testing showed the 2" PREDATOR™ discs outperformed the competitive material by 51%, with 50g removed in 20 minutes.



The larger discs, both 36 and 60 grit, provided performance improvements ranging from 10% to over 200%, removing up to 86g in 20 minutes.

	Mild	Stain	Alum	Titanı
Quick-Lok Disc				
Resin Fibre Disc				
Flap Disc				
PSA Disc		•		
Belt				

Comparing performance and finish qualities of aluminum oxide compact grain and conventional aluminum oxide PSA discs.

ARC Products

5" Aluminum Oxide Compact Grain PSA disc, 180 Grit

Competitive Products

5" Aluminum Oxide PSA disc, 180 Grit

Test Method

Using a pneumatic orbital sander, each disc was tested by hand on 12 x 12", 16 gauge stainless steel plates. The completion of each test was determined by a substantial drop in material removal, or once a disc stopped cutting. The steel plates were weighed every minute to calculate cut rate, and discs were weighed before and after the test to determine product life. A surface scratch measurement was taken every two minutes to determine the finish.

Conclusion

The aluminum oxide compact grain PSA disc lasted 50% longer than conventional aluminum oxide, and outperformed cut rate by 81%. Consistent surface scratch measurements between the two products were taken after several readings.

www.arcabrasives.com



Heavy Mild Steel Fabrication

Description	Example
General steel fabricators of plate and structural steel	Jacobs Incorporated
Mild steel tanks and general plate fabrication	Chicago Metal Fabricators
Farm equipment manufacturers	CNH, John Deere, Kubota
Military Vehicles, including tanks	United Defense Systems
Earth moving equipment manufacturers	Caterpillar, Kobelco, Vermeer

Metals Used

Primarily plate and structural mild steel grades such as A36, AR400, 4140, 8620 and PVQ.

Heavy mild steel fabrication can be broken into two major categories. The first consists of finished products such as tanks, farm equipment and earth moving vehicles. The second includes mild steel fabricators that supply the individual components of the finished products. These companies make a wide variety of weldments per print, and larger companies will typically bid hard to fabricate parts to this second group.

Both of these groups follow three main applications: removal of large MIG welds on fabricated parts; surface finishing on all parts not sandblasted before paint; and general deburring of thermal and mechanically cut parts. These three applications will include approximately 90% of the abrasives usage.

General steel fabricators have a flexible working environment to produce a wide variety of parts. Most general plate manufactures have thermal and mechanical cutting, bending, rolling, MIG welding and finishing capabilities.

Farm equipment manufacturers make a variety of combines, spreaders and general farming equipment, primarily from mild steel sheet or plate. All companies are precision fabricators with a great selection of laser, forming and MIG welding equipment. Metal conditioning equipment is also used, as final appearance is important.

Military vehicles include tanks, transports, and other ground based vehicles. The military and their contactors focus applications on general mild steel grades, but also some high alloy grades. Capable of fabricating materials from 3 inch plate to 20 gauge steel sheet, thermal and mechanical cutting equipment, MIG welding and finishing equipment are all commonplace.

Earth moving equipment manufacturers are similar to military vehicle fabricators, using plate mild steel and high alloy materials. Premier metal fabrication abilities include laser, plasma, oxy fuel and mechanical cutting, and the ability to bend, form and weld difficult to fabricate weldments.

Light Mild Steel Fabrication OVERVIEW

PSA DISCS

Metals Used

Description

1018, 1008, A36, HSLA, Abrasion Resistant

Focused on cold rolled sheet fabrication, companies manufacturing lawn mowers, small tractors, work and sport utility vehicles know final appearances are critical. These companies use several abrasive products per facility. To uphold appearance, visible welds are removed to a 150 grit finish before painting. Depending on the location of the weld, a variety of flap, resin fibre or quick-lok discs, belts or PSA discs may be used.

Lawn, garden and light equipment manufacturers utilize a wide variety of fabrication processes, including state of the art thermal and mechanical cutting, and light MIG and TIG welding, all of which may require many types of grinding and finishing applications.

Automotive and other stamping companies produce a wide range of parts. Most require light finishing, but the most common application is removing burrs by hand after a part has been stamped.

Similar to fabricators of heavy plate steel, laser cutting, bending and finishing are primary processes for steel sheet fabricators. With this range of activities, many types of abrasives may be used for both light grinding and finishing applications.

General Aluminum Fabrication

Description	Example
Architectural and ornamental metalwork	.Triangle Metals
Boat building and repair	.Tracker Boats
Truck trailers	.Great Dane

Metals Used

Aluminum; 2024, 6061, 7075

From general fabrication to industry specific, aluminum fabricators commonly see both weld removal and weld cleanup applications. More technical boat and aircraft companies will finish every aluminum part, as it will be painted and appearance is a critical aspect of the finished product. A variety of discs are used, but semi-open PSA discs are recommended for mill scale and general clean up.

Architectural and ornamental metalworking companies specialize in attaining a particular finish for fabricated parts. These parts could include railing, decorative plates or structural shapes.

Aluminum boat building and repair encompasses fishing boats and ferries to military boats and luxury yachts. The common functions are welding, fabricating and finishing of aluminum plate.

Aluminum is not exclusive to truck trailer fabrication, but is the most common metal used. Typically, parts are cleaned and painted, after heavier removal or finishing applications.



Example



Aerospace Manufacturing

Description	Example
Aircraft manufacturing	Boeing Co.
Aircraft maintenance	First Wave
Aircraft engine manufacturing	General Electric Co.
Other aircraft parts	Pryer Machine

Metals Used

Titanium, High Nickel Alloy, Stainless, 6061 and 7075 Aluminum

Aircraft manufacturers machine and fabricate a variety of titanium, stainless and aluminum parts. Given the complexity of aircraft, several levels of fabrication and assembly are required, although engine and landing gear assemblies may be outsourced. Common abrasive applications include light material removal and blending or removal of machining marks from titanium and aluminum. Surface finishing of aluminum wing and fuselage components are also commonplace.

Repair and routine maintenance of aircraft parts, such as nonengine or wing components will usually involve some form of finishing, after the critical work has been completed.

Aircraft engine manufacturers, such as Pratt & Whitney or GE Aviation, use and machine exotic metals like proprietary high nickel alloys and various titanium grades. Most of the fabrication involves turbine blades, shrouds and airfoils. Refining machining marks and removing spot welds are the most common applications seen.

Non-Ferrous Foundry

Description	Example
Aluminum die casting	Able Die Cast
Non-ferrous die casting	JL French Co.
Aluminum foundry	Milwaukee Precision Casting

Metals Used

Cast aluminum, brass, bronze and copper

Non-ferrous foundries specialize in melting and casting desired shapes used in automobiles, motorcycles, plumbing fixtures, train locomotives, airplanes or as decorative art pieces. Foundries are divided between sand casting and investment casting processes. Sand casting is typical for larger, less complex shapes while investment casting is for small, intricate parts. Both types of casting create flash and gate materials that need to be ground flush to the part.

Larger companies may outsource parts to a finishing specialist, who may use air tools with carbide burrs to take down parting lines and perform general shaping of the parts. An alternative to carbide burrs are small diameter coated or nonwoven discs and combination wheels, such as interleaf mounted flap wheels.

Aluminum and other soft metals can be cast using a metal die, rather than a sand or investment process. This is the cleanest form of casting, but flash, gate and parting line removal may still be necessary.

DescriptionExampleFood products machinery fabricatorsPaul Mueller Co.Special food products machineryStainless Fabricators Co.Packaging machineryFleetwood Inc.Industrial valvesAlfa Laval Tri-CloverArchitectural and ornamental metal workIrving Metal Polishers

Metals Used

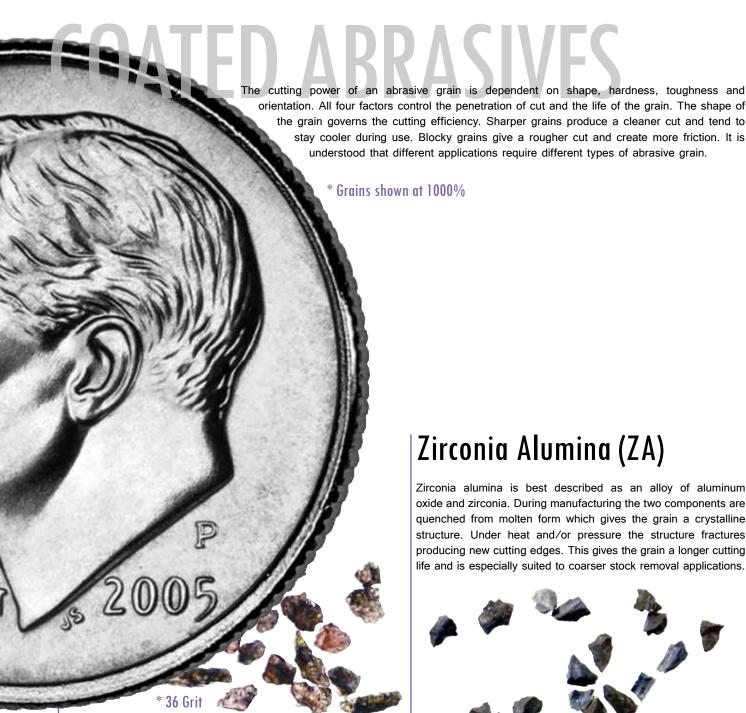
Stainless Steel, Austenitic, 304, 316

Stainless steel fabrication is an extremely diverse market with demanding applications. From ID bore polishing to flat finishing a specific Ra value, or roughness average, stainless fabricators follow technical requirements for their applications. The stainless fabrication industry commonly measures scratch depth and relies on the aesthetic finish of products, ranging from tanks and piping to structural components.

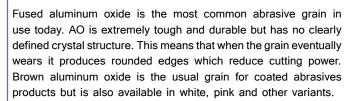
Food, beverage and pharmaceutical equipment fabrication is extremely specialized, and so are the processes involved. Intense finishing requirements mandated by the FDA command a specific catalog of abrasive applications. Packaging machinery is similar to food, beverage and pharmaceutical equipment, due to the similarities in materials used.

Industrial valves or fluid transfer valves also require FDA mandates, in which the internal tubing must meet a required finish to pass inspection.





Aluminum Oxide (AO)



Suggested Applications

Aluminum and ferrous metals, including alloy steel

- · Brown or brownish-red man-made abrasive
- · Durable with tough cutting edges
- · Wear resistant and long lasting, even under stress applications

Zirconia Alumina (ZA)

Zirconia alumina is best described as an alloy of aluminum oxide and zirconia. During manufacturing the two components are quenched from molten form which gives the grain a crystalline structure. Under heat and/or pressure the structure fractures producing new cutting edges. This gives the grain a longer cutting life and is especially suited to coarser stock removal applications.



Suggested Applications

Heavy duty grinding on all ferrous and non-ferrous metals

- · Ultra rugged synthetic abrasive that self-sharpens as it cuts
- · Sharper, more blocky grain than aluminum oxide with large fracture planes
- · Commonly used for heavy grinding applications where a cool cut is required
- · Available only in coarser grits; bluish gray in color

Compact Grain

Individual grains are clumped, or clustered together to form a larger grain shape. This type of large grain construction will give extended life when compared to conventional abrasives. Compact grain is ideal for finishing applications on any metal in belt, PSA and quick-lok disc form.



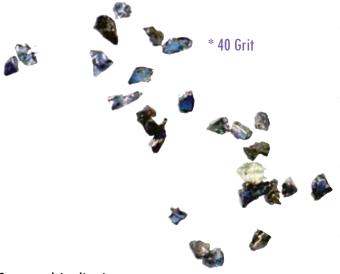
Suggested Applications

Mild and stainless steel, titanium and nickel alloys. Not suggested for non-ferrous materials.

- · Long life finishing applications
- · Available in belt, PSA and quick-lok disc form
- · Aluminum oxide and silicon carbide options

Silicon Carbide

Silicon carbide is the hardest of all common abrasive materials. It is very sharp, but friable, leaving new sharp edges for cutting. For this reason, it is initially fast cutting, but short in life. It is ideal for use on non-ferrous metals like aluminum, brass, bronze, magnesium and titanium. For final finishing, the sharp crystal structure produces fine, straight edged grind lines that reflect light better than the rounded aluminum oxide grind lines.



Suggested Applications

Non-ferrous metals, non-metallics

- · Hard, sharp, synthetic abrasive, black in color
- · Grains fracture to continually expose new cutting edges
- · Permits fast stock removal

Ceramic



Unlike fused aluminum oxide, ceramic aluminum oxides are formed via a chemical process. The grain from this process comprises millions of smaller crystals which fracture off during use and continuously form a new cutting surface. This selfsharpening process requires heavy pressure to ensure that the grains do not glaze.

Suggested Applications

Highly recommended for high heat applications on stainless steel, titanium and high nickel alloys. Ceramic works best in coarser grits in belt, quick-lok and resin fibre disc form.

- Self-sharpening grain
- · Cuts at rated grit throughout its life
- · Controls heat during the grinding process
- · High cut rate



Vulcanized Fibre Vulcanized fibre is a product made from cotton rage and treated. The fibre is a product made from cotton rage and treated.

Vulcanized fibre is a product made from cotton rags and treated with chemicals to form a gelatinous substance which is then layered into plies. The plies are heat vulcanized and calendered to give a strong and stiff base material. Due to its high stiffness, vulcanized fibre products can only be used in disc form such as resin fibre discs. The recommended use is for heavy duty stock removal, typically in grits 80 and coarser.

Suggested Applications

Fibre is a hard, durable material with great mechanical strength, used to make resin fibre discs. Used in aggressive operations.

The first two cloths in the U.S. market were cotton drills (X-wt.) and cotton jeans (J-wt.), both utilized a twill weave. Drill uses fewer yarns per inch but each yarn is heavier. The next advancement was a heavier weight drill commonly known as Y-wt. Sometimes an F is added as a suffix to denote extra flexing (e.g. JF and XF).

Cotton was the first cloth available. However, synthetic cloths, polyester and polyester/cotton mixes have become more prominent as they tend to be stronger and more stable in use. The synthetic polyesters are inherently waterproof while the cotton products need treatment to be waterproof.

Suggested Applications

Mechanized belt, disc or wheel applications.

Options

The two types of cloth backings offered are cotton and polyester. Cotton is lightweight and flexible, but not waterproof. Polyester backings are stronger than cotton. In addition, they are waterproof, fray resistant and they absorb shock. 800.888.4885 97% on time shipping.

029

BACKING Maper Generally heavier papers are less flexible, more tear resistant and are suited to mechanical applications. The lighter papers are more flexible and better suited for hand sanding operations and finer finishing. Because the surface of the paper can be made extremely flat, paper is used for extremely fine grits where any surface imperfection in the substrate would cause inconsistent sanding patterns in the polishing applications.

Suggested Applications

and other water resistant resins.

Heavier mechanical to flexible hand sanding operations. Available in waterproof for more specialized applications.

Paper can also be made waterproof by the addition of latex

Film

If the variation in the thickness of any product backing is greater than the size of the grain particle, non-uniform grinding may occur. This is a problem for finer grits in tight tolerance or high performance grinding, such as cam shafts. Film backing is a recent development to solve this problem. Films can be made with exceptional flatness and with tight thickness tolerance making them suitable for technical operations. Film has added advantages of being tear-resistant and waterproof.

Suggested Applications

Fine grinding with tight tolerances and most technical operations.



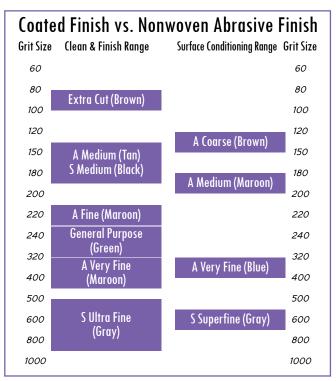
ARRASIVES

To understand the cutting action of nonwovens, imagine the grit particle held by a helical spring rather than a solid block. As a nonwoven product runs over a contoured surface the "springs" compress and expand allowing the grain to constantly be in contact with the entire surface. A coated product would skip over the valleys and remove excess metal on the peaks as the force of application would be concentrated on the smaller area of the peaks. The nonwoven finishes more uniformly contoured surfaces without compromising critical tolerances obtained in earlier machine or molding operations. This feature is especially important during a finishing process.

The conventional method for removing deep scratches is to use a progression of coated abrasives, e.g. 80, 120 and 180 grit, each giving a progressively finer finish while removing the previous deeper scratch. The conforming nature of nonwovens allows deeper scratches to be removed while providing a fine finish. This reduces the number of steps in the process – a major savings in labor costs.

The wear characteristics of nonwoven abrasives are different from coated abrasives. In use, the abrasive grain within coated abrasives wears down and changes shape which results in different scratch patterns. With nonwoven abrasives, as the product wears away, the substrate breaks down and the grain is lost which reveals a new sharp grain. This process leads to uniform finishing throughout the life of the product.

In nonwoven abrasives the fibre and resin are fully waterproof so the product can be used wet or dry. The structure of a nonwoven abrasive is extremely open so that the product resists loading and is cool running.



Surface Conditioning

Surface conditioning materials, or SCM, have the basic nonwoven structure but are scrim reinforced and are one-sided. The scrim adds strength for use in high speed belt and disc operations.

For airfile belts, the base nonwoven is modified to give increased flexibility as the belt has to travel around a small diameter contact wheel (less than 1") without cracking. For longer belts the base has been modified to resist stretch in the length direction. Discs and quick-lok discs use a regular scrim product.

Cleaning & Finishing

Non-reinforced, or clean and finish (C&F) products are made of the nonwoven base and have not been reinforced with a woven scrim.

Performance Qualities

The performance qualities of SCM and C&F products versus coated abrasives are notable, as there is little overlap in use.

The conformability of nonwoven products leaves them less likely to gouge a work piece, avoiding disturbances to critical tolerances. The 3D structure disperses abrasive grains for a uniform scratch pattern throughout product life, and requires fewer finishing steps than coated materials.

The open structure of nonwoven material is resistant to loading. The synthetic components are also waterproof and resistant to cutting fluids and other metalworking chemicals.

Suggested Applications

Surface conditioning, which is generally performed near the end of a manufacturing process, refers to the changing of a product's surface without damaging or removing the base material. Typically used in mechanical operations, surface conditioning products include belts and discs.

Clean and finish nonwoven products are typically hand-operated type products. They are much weaker in nature than surface conditioning products, because not as much grain, fibre and resin is used in the production of these products. Clean and finish products include hand pads, sheets, rolls and flap wheels.

www.arcabrasives.com 031

Performance Coating available on select nonwoven products.

PRODUCT OVERVIEW

Aggressive steel applications produce substantial heat during grinding, resulting in shortened disc life. A resin fibre disc is intended for aggressive applications, but the grain structure determines product longevity.

By reconstructing our proprietary blend of PREDATOR™ grains in resin fibre disc form, we have achieved top-tier gram removal ratios for both mild and stainless steel applications. PREDATOR™ resin fibre discs provide a long-lasting, aggressive cut throughout their life and reduce heat with an integrated grinding aid.



Rapid Release

Our patent pending rapid release system was developed not only to provide a quick change process, but to challenge the industry standard of adding an expensive button. The quick change function of the resin fibre disc requires no tools and can be performed nearly 75% faster than standard disc and tooling assemblies.

Along with established labor and productivity savings, our rapid release resin fibre discs can be as little as half of the cost of competitor discs.





Stocking programs are available to assist our distributor partners.

General Purpose Perf

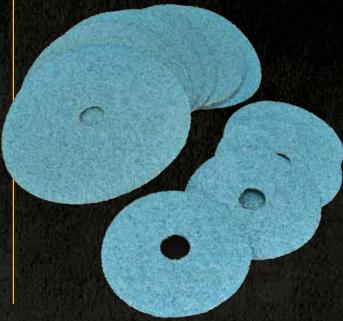
ALUMINUM OXIDE

Due to loading from soft metals, product disposal can be frequent. Aluminum oxide is the most affordable choice for softer metals, relieving some of the cost associated with waste. Situations in which technical grains like zirconia alumina or ceramic are excessive, aluminum oxide is the optimal choice.



ZIRCONIA ALUMINA

An affordable, general purpose material, zirconia alumina provides consistent removal rates, especially in finer grits. Zirconia alumina is not recommended for high production environments in which extra-long life and faster material removal are critical.

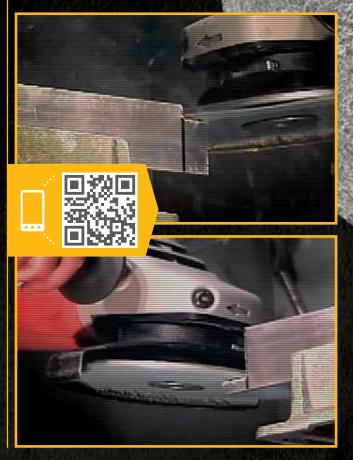


Fabricators of soft metals are continuously frustrated by the inability to reduce loading during aggressive grinding applications. Due to the softer structure of aluminum, it overloads the functional surface area of abrasive grains, quickly ending productivity.

Performance Coating

Performance Coated products offer exceptional cut and an ability to reduce loading, while also controlling heat during grinding. The integrated material enhancement realizes the full potential of the grain structure, allowing resin fibre discs to perform as they would on hardened steel.

In a head-to-head test, our untreated disc took 600 seconds to remove 30 grams, and only 75 seconds for the performance coated disc to remove the same amount of material.



APPS & SOLUTIONS Mild Steel

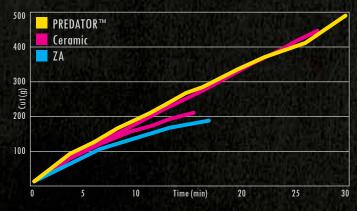
APPLICATION

Using a resin fibre disc for heavy material removal is a common application performed by many fabricators. Mild steel and its alloys do not generate enough heat during grinding to justify some full ceramic materials; however, several manufacturers promote these more expensive materials to mild steel fabricators. The cost of some full ceramic discs can nearly double for only a 10% increase in material removal.

SOLUTION

PREDATOR™ and its proprietary blend of grains were designed specifically for mild steel. With an extremely high ratio of material removal and life, PREDATOR™ works well throughout its grit range on both heavy and light mild steel removal applications.

Reference Lab Showcase 172 on Page 014



Stainless Steel

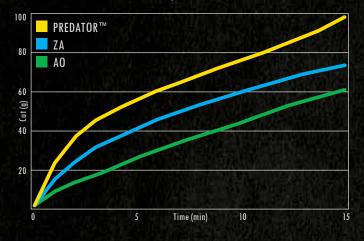
APPLICATION

Coarse grit resin fibre discs are best suited for larger stainless steel MIG welds, while smaller TIG welds may only require 50 grit or finer. Regardless of the weld type, stainless material removal applications generate large amounts of heat.

SOLUTION

PREDATOR™, and its blend of self-sharpening grains and two grinding aids easily reduces the heat generated while grinding stainless steel. PREDATOR™ resin fibre discs are an ideal choice for stainless applications, when compared to ordinary zirconia and aluminum oxide materials.

Reference Lab Showcase 395 on Page 014



Aluminum

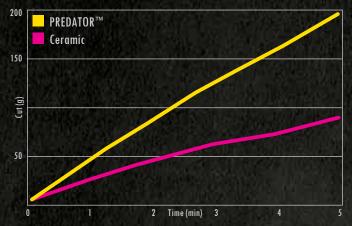
APPLICATION

Due to the excessive loading from aluminum during grinding, several unsuccessful solutions have been considered. Beeswax or messy lubricants attempt to extend product life, and less technical abrasives are chosen to limit cost. Unfortunately, aluminum oxide grains are often used, which increases heat and loading, even compared to zirconia alumina.

SOLUTION

An integrated material enhancement can dramatically improve life and cut rate over a standard grinding aid. Performance coating has been proven to increase both life and cut rate of our PREDATOR™ resin fibre discs; in some cases by nearly 400%. Performance coated products will not contaminate welds and can be painted over without any effect to the finish.

Reference Lab Showcase 419 on Page 015



Save production time and costs with our Rapid Release system.

PREDATOR DISCS

4-1/2 x 7/8"	ltem	Grit
Pk Qty 25	71-047801	24
	71-047802	36
	71-047804	50
	71-047805	60
	71-047806	80
	71-047808	120
5 x 7/8"	ltem	Grit
Pk Qty 25	71-057801	24
	71-057802	36
	71-057804	50
	71-057805	60
	71-057806	80
	71-057808	120
7 x 7/8"	ltem	Grit
Pk Qty 25	71-077801	24
	71-077802	36
	71-077804	50
	71-077805	60
	71-077806	80
	71-077808	120

- Ideal for mild steel
- Self-sharpening grains
- Cost effective option to full ceramic materials



- Ideal for aluminum & non-ferrous
- Increased cut rate
- Reduced heat transfer
- Extended product life

Performance Coated PREDATOR™

4-1/2 x 7/8"	ltem	Grit
Pk Qty 25	71-047801W	24
	71-047802W	36
	71-047804W	50
	71-047805W	60
	71-047806W	80
	71-047808W	120
5 x 7/8"	ltem	Grit
Pk Qty 25	71-057801W	24
	71-057802W	36
	71-057804W	50
	71-057805W	60
	71-057806W	80
	71-057808W	120
7 x 7/8"	ltem	Grit
Pk Qty 25	71-077801W	24
	71-077802W	36
	71-077804W	50
	71-077805W	60
	71-077806W	80
	71-077808W	120

• Quick changeover • Increase productivity

- Compatible with all grinders
- No extra tooling

PREDATOR™ AP Rapid Release

	•	
5 x 7/8"	ltem	Grit
Pk Qty 25	71-057801R	24
	71-057802R	36
	71-057804R	50
	71-057805R	60
	71-057806R	80
	71-057808R	120
7 x 7/8"	ltem	Grit
7 x 7/8" Pk Qty 25	Item 71-077801R	Grit 24
	71-077801R	24
	71-077801R 71-077802R	24 36
	71-077801R 71-077802R 71-077804R	24 36 50

Rapid Release Back-Up Pads

		•
5" Smooth Face	ltem	Max RPM
Pk Qty 1; Use with Grits 24-36	50404Z2-5	10,000
5" Air Cooled	Item	Max RPM
Pk Qty 1; Use with Grits 50-120	50404-5	10,000
7" Smooth Face	Item	Max RPM
Pk Qty 1; Use with Grits 24-36	50410Z2-5	8,500
7" Air Cooled	ltem	Max RPM
Pk Qty 1: Use with Grits 50-120	50410-5	8,500

• General purpose

• Affordable choice for soft metals

No added cost

Aluminum Oxide

4-1/2 x 7/8"	ltem	Grit
Pk Qty 25	37110	24
	37111	36
	37112	50
	37113	60
	37114	80
	37116	120
5 x 7/8"	Item	Grit
Pk Qty 25	37118	24
	37119	36
	37120	50
	37121	60
	37122	80
	37124	120
7 x 7/8"	Item	Grit
Pk Qty 25	37126	24
	37127	36
	37128	50
	37129	60
	37130	80
	37132	120

Zirconia Alumina

4-1/2 x 7/8"	ltem	Grit
Pk Qty 25	37202	24
	37203	36
	37204	50
	37205	60
	37206	80
	3720608	120
5 x 7/8"	ltem	Grit
Pk Qty 25	37208	24
	37209	36
	37210	50
	37211	60
	37212	80
	3721208	120
7 x 7/8"	ltem	Grit
Pk Qty 25	37214	24
	37215	36
	37216	50
	37217	60
	37218	80
	3721908	120



•	Afford	lable	&	efficient
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• Great choice for stainless



Back-Up Pads & Accessories

4-1/2 x 5/8"-11	ltem	Grade	Max RPM
Pk Qty 1	50401Z2	MEDIUM	13,500
5"	ltem	Grade	Max RPM
Pk Qty 1	50403	FLEXIBLE	13,000
	50404	MEDIUM	13,000
	50405	RIGID	13,000
7"	ltem	Grade	Max RPM
Pk Qty 1	50409	FLEXIBLE	8,600
	50410	MEDIUM	8,600
	50411	RIGID	8,600
Center Nut 5/8"-11	I, 7 & 9"		ltem
Pk Qty 1			50418
Center Nut 4 & 5"			ltem
Pk Qty 1			50418Z1
Spanner Wrench			ltem
Pk Qty 1			50419
Disc Cutter Assem	bly		ltem
Pk Qty 1	,		50601
Lower Blade			ltem
Pk Qty 1			50603
Upper Blade			ltem
Pk Qty 1			50602

Hard Edge Geometry



Hard Edge discs have a shape similar to our Type 29, or angle faced discs, but are engineered for extremely fast material removal using a reduced amount of pressure. This is accomplished by compressing the outside rim of the flaps to eliminate flexing during the grinding process. Ordinary flap discs can flex over

the work surface causing grains to shell or shed prematurely, resulting in longer grind times and shorter life. Hard edge discs provide a faster cut and longer life in coarse grits because they retain the abrasive grains so well.







Flap discs provide the added benefit of finer finishing after aggressive grinding, compared to resin fibre discs. The dimensional layering of flap discs allow the continual exposure of abrasive grains, versus one layer of grains. Flap discs contain just as much working surface as resin fibre discs, but within a much smaller diameter. This geometry is responsible for the versatility of a flap disc. The integrated grinding aids utilized in

PREDATOR™ materials help with longevity and cooling.





After a 20 minute automated grinding test, our PREDATOR™ flap disc cut over 100 grams more than the next leading competitor. Although the disc may look worn, it continues to cut for extended periods of time.

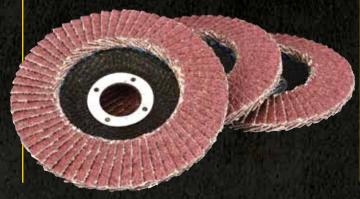


Flap discs provide aggressive material removal on all metals. but lack access to tight areas. Like quick-lok discs, mini flap discs can reach small areas in need of grinding but suit the needs of heavy material removal. Mini flap discs are used with a Type S Quick-Lok Disc Holder, retaining the timesaving changeover of quick-lok discs. From aggressive grinding to fine finishing with the benefit of a small diameter, PREDATOR™ Mini Flap Discs are an extremely versatile product.



Especially suited for use on stainless steel or cold rolled steels,

aluminum oxide flap discs are self-lubricating to avoid overheating of the work piece. The size coat and top size coat also aid reduced clogging and improve the resulting finish.



Flap Disc Options ISCS

ARBOR

Several flap discs may be used in any given time period. If a quick change out is critical, a 5/8"-11 threaded hub should be considered. This option eliminates the need for a separate lock nut, as well as the accompanying tooling.



As their 3-dimensional structure allows flap discs to last longer than other abrasives products, your replacement frequency may be minimal. The added time of using a separate nut to secure the flap discs to your grinder may not affect your production. For this, you may choose the 7/8" arbor hole, which will fit on your grinder regardless of thread pitch.

BACKING PLATE

The choice of backing plate is determined by the type of application. Aluminum backing plates are heavier and more rigid, which makes them best suited for harder grinding applications. Fiberglass backing plates are most common, and can be used on a range of light to moderate removal applications.

DENSITY

Flap quantity determines the density of flap discs. Compared to standard flap discs, high density discs are assembled with more flaps in the same area, and look much less compressed. High density flap discs are less aggressive, but will last longer than discs with a standard flap count.



The high density option is only available with our general purpose materials, as the function is best utilized by casual users.

SHAPE



The workable angle of a flap disc surface is in direct relation to the shape of the backing plate. Type 27, or flat faced discs, are to be used as parallel as possible to the work piece. This is not always convenient, depending on the restrictions of the work area. To combat this restriction, Type 29, or angle faced discs, provide a 10 degree angle to the abrasive surface. Working at the given 10 degree angle provides more leverage against the work piece, allowing more aggressive grinding and faster material removal.

APPS & SOLUTIONS Mild Steel

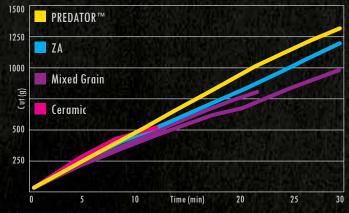
APPLICATION

Some common mild steel applications start with a 40 or 50 grit flap disc to quickly remove welds or surface imperfections. Flap discs should be versatile because they need to quickly remove material and have formidable cleaning properties. Choosing a flap disc with these performance factors may be challenging.

SOLUTION

PREDATOR™ flap discs have been designed to meet the challenges of mild steel fabricators. Not only does the unique blend of grains provide a fast cut, our exclusive hard edge construction shows the most durability and life seen by any other flap disc. PREDATOR™ flap discs will deliver fast material removal while remaining flexible for general clean up and burr removal applications.

Reference Lab Showcase 258 on Page 012



Stainless Steel

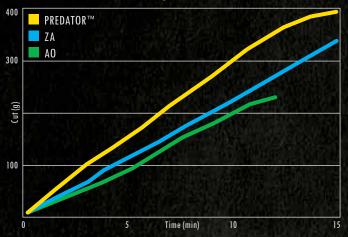
APPLICATION

Stainless fabricators may choose flap discs over resin fibre discs because of their finer finish. The added ability for flap discs to perform general clean up duties, such as spatter and mill scale removal, also make them a popular choice.

SOLUTION

The self-sharpening grains and optional hard edge shape of PREDATOR™ flap discs deliver fast material removal and excellent cleaning properties. PREDATOR™ flap discs can outlast the excessive heat generated from stainless grinding, especially compared to standard zirconia and aluminum oxide flap discs.

Reference Lab Showcase 427 on Page 019



Aluminum

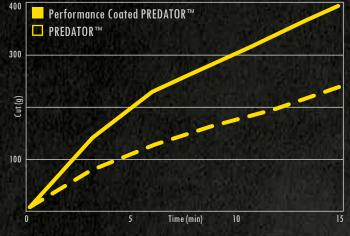
APPLICATION

Although uncommon to use flap discs for heavy material or weld removal on aluminum, they can provide great control and last longer than a resin fibre disc. Flap discs are ideal when certain requirements are needed, such as a finer finish when removing a weld or a longer lasting cut while removing a burr.

SOLUTION

To further decrease loading, Performance Coating can be added to PREDATOR™ flap discs. The integrated Performance Coating will lower the grinding temperature allowing a much faster cut and longer life.

Reference Lab Showcase 261 on Page 013





PREDATOR™ AP Flap Discs

4-1/2 x 7/8"	Fiberglass	Aluminum	Grit	Max RPM
Pk Qty 10	71-10823FXL	71-10823XL	36	13,300
	71-10824FXL	71-10824XL	40	13,300
	71-10828FXL	71-10828XL	50	13,300
	71-10825FXL	71-10825XL	60	13,300
	71-10826FXL	71-10826XL	80	13,300
	71-10827FXL	71-10827XL	120	13,300
4-1/2 x 5/8"-11	Fiberglass	Aluminum	Grit	Max RPM
4-1/2 x 5/8"-11 Pk Qty 10	Fiberglass 71-10813FXL	Aluminum 71-10813XL	Grit	Max RPM 13,300
- ' '	<u> </u>			
- ' '	71-10813FXL	71-10813XL	36	13,300
- ' '	71-10813FXL 71-10814FXL	71-10813XL 71-10814XL	36 40	13,300 13,300
- ' '	71-10813FXL 71-10814FXL 71-10818FXL	71-10813XL 71-10814XL 71-10818XL	36 40 50	13,300 13,300 13,300

- Ideal for mild and stainless steel
- Longer life
- Aggressive cut
- Performance Coating available

Performance Coated PREDATOR™ AP Flap Discs

4-1/2 x 7/8"	Fiberglass	Aluminum	Grit	Max RPM
Pk Qty 10	71-10823FXLW	71-10823XLW	36	13,300
	71-10824FXLW	71-10824XLW	40	13,300
	71-10828FXLW	71-10828XLW	50	13,300
	71-10825FXLW	71-10825XLW	60	13,300
	71-10826FXLW	71-10826XLW	80	13,300
	71-10827FXLW	71-10827XLW	120	13,300
4-1/2 x 5/8"-11	Fiberglass	Aluminum	Grit	Max RPM
4-1/2 x 5/8"-11 Pk Qty 10	Fiberglass 71-10813FXLW	Aluminum 71-10813XLW	Grit 36	Max RPM 13,300
' '				
' '	71-10813FXLW	71-10813XLW	36	13,300
' '	71-10813FXLW 71-10814FXLW	71-10813XLW 71-10814XLW	36 40	13,300 13,300
' '	71-10813FXLW 71-10814FXLW 71-10818FXLW	71-10813XLW 71-10814XLW 71-10818XLW	36 40 50	13,300 13,300 13,300



- Ideal for mild steel
- Self-sharpening grains
- Cost effective option to full ceramic materials

$\textbf{PREDATOR}^{^{\text{m}}}$

4-1/2 x 7/8"	Type 27	Hard Edge	Grit	Max RPM
Pk Qty 10	71-10823FF	71-10823AF	36	13,300
	71-10824FF	71-10824AF	40	13,300
	71-10828FF	71-10828AF	50	13,300
	71-10825FF	71-10825AF	60	13,300
	71-10826FF	71-10826AF	80	13,300
	71-10827FF	71-10827AF	120	13,300
4-1/2 x 5/8"-11	Type 27	Hard Edge	Grit	Max RPM
Pk Qty 10	71-10813FF	71-10813AF	36	13,300
	71-10814FF	71-10814AF	40	13,300
	71-10818FF	71-10818AF	50	13,300
	71-10815FF	71-10815AF	60	13,300
	71-10816FF	71-10816AF	80	13,300
	71-10817FF	71-10817AF	120	13,300
5 x 7/8"	Type 27	Hard Edge	Grit	Max RPM
Pk Qty 10	71-10843FF	71-10843AF	36	12,150
	71-10844FF	71-10844AF	40	12,150
	71-10848FF	71-10848AF	50	12,150
	71-10845FF	71-10845AF	60	12,150
	71-10846FF	71-10846AF	80	12,150
	71-10847FF	71-10847AF	120	12,150
7 x 7/8"	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	71-10863FF	71-10863AF	36	8,600
	71-10864FF	71-10864AF	40	8,600
	71-10868FF	71-10868AF	50	8,600
	71-10865FF	71-10865AF	60	8,600
	71-10866FF	71-10866AF	80	8,600
	71-10867FF	71-10867AF	120	8,600
7 x 5/8"-11	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	71-10853FF	71-10853AF	36	8,600
	71-10854FF	71-10854AF	40	8,600
	71-10858FF	71-10858AF	50	8,600
	71-10855FF	71-10855AF	60	8,600
	71-10856FF	71-10856AF	80	8,600
	71-10857FF	71-10857AF	120	8,600

- Great for soft metals
- Performance Coating penetrates flaps
- Reduced heat transfer
- Hard edge available

Performance Coated PREDATOR™

4-1/2 x 7/8"	Type 27	Hard Edge	Grit	Max RPM
Pk Qty 10	71-10823FFW	71-10823AFW	36	13,300
	71-10824FFW	71-10824AFW	40	13,300
	71-10828FFW	71-10828AFW	50	13,300
	71-10825FFW	71-10825AFW	60	13,300
	71-10826FFW	71-10826AFW	80	13,300
	71-10827FFW	71-10827AFW	120	13,300
4-1/2 x 5/8"-11	Type 27	Hard Edge	Grit	Max RPM
Pk Qty 10	71-10813FFW	71-10813AFW	36	13,300
	71-10814FFW	71-10814AFW	40	13,300
	71-10818FFW	71-10818AFW	50	13,300
	71-10815FFW	71-10815AFW	60	13,300
	71-10816FFW	71-10816AFW	80	13,300
	71-10817FFW	71-10817AFW	120	13,300
5 x 7/8"	Type 27	Hard Edge	Grit	Max RPM
Pk Qty 10	71-10843FFW	71-10843AFW	36	12,150
	71-10844FFW	71-10844AFW	40	12,150
	71-10848FFW	71-10848AFW	50	12,150
	71-10845FFW	71-10845AFW	60	12,150
	71-10846FFW	71-10846AFW	80	12,150
	71-10847FFW	71-10847AFW	120	12,150
7 x 7/8"	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	71-10863FFW	71-10863AFW	36	8,600
	71-10864FFW	71-10864AFW	40	8,600
	71-10868FFW	71-10868AFW	50	8,600
	71-10865FFW	71-10865AFW	60	8,600
	71-10866FFW	71-10866AFW	80	8,600
	71-10867FFW	71-10867AFW	120	8,600
7 x 5/8"-11	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	71-10853FFW	71-10853AFW	36	8,600
	71-10854FFW	71-10854AFW	40	8,600
	71-10858FFW	71-10858AFW	50	8,600
	71-10855FFW	71-10855AFW	60	8,600
	71-10856FFW	71-10856AFW	80	8,600
	71-10857FFW	71-10857AFW	120	8,600



PREDATOR™ AP Mini Flap Discs

2"	ltem	Grit
Pk Qty 10	71-1056403	40
	71-1056405	60
	71-1056406	80
	71-1056408	120
3"	ltem	Grit
3" Pk Qty 10	Item 71-1056503	Grit 40
_		
_	71-1056503	40

- Features Type S locking button
- Small diameter for tight areas
- Performance Coating available

Performance Coated PREDATOR™ AP Mini Flap Discs

2"	ltem	Grit
Pk Qty 10	71-1056403W	40
	71-1056405W	60
	71-1056406W	80
	71-1056408W	120
3"	ltem	Grit
Pk Qty 10	71-1056503W	40
	71-1056505W	60
	71-1056506W	80
	71-1056508W	120



Mini Flap Disc Holders

2 x 1/4"	ltem	Max RPM
Pk Qty 1	50259	30,000
3 x 1/4" Pk Qty 1	Item 50260	Max RPM 20,000

- General purpose flap disc
- Great for quick material removal
- High density option available

4 x 5/8"	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	1063242-1	1063342-2	36	15,150
	1063243-1	1063343-2	40	15,150
	1063245-1	1063345-2	60	15,150
	1063246-1	1063346-2	80	15,150
	1063248-1	1063348-2	120	15,150
			. .	
4-1/2 x 7/8"	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	1063252-1	1063352-2	36	13,300
	1063253-1	1063353-2	40	13,300
	1063255-1	1063355-2	60	13,300
	1063256-1	1063356-2	80	13,300
	1063258-1	1063358-2	120	13,300
4 1/0 c/0" 11	T 07	T 200	C:1	M DDM
4-1/2 x 5/8"-11	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	1063152-1	1063552-2	36	13,300
	1063153-1	1063553-2	40	13,300
	1063155-1	1063555-2	60	13,300
	1063156-1	1063556-2	80	13,300
	1063158-1	1063558-2	120	13,300
5 x 7/8"	Type 27	Type 29	Grit	Max RPM
,				
Pk Qty 10	1063262-1	1063362-2	36	12,150
	1000000 1	1000000	40	10 150
	1063263-1	1063363-2	40	12,150
	1063265-1	1063365-2	60	12,150
	1063265-1 1063266-1	1063365-2 1063366-2	60 80	12,150 12,150
	1063265-1	1063365-2	60	12,150
7 x 7/8"	1063265-1 1063266-1 1063268-1	1063365-2 1063366-2 1063368-2	60 80	12,150 12,150
7 x 7/8" Pk Qtv 10	1063265-1 1063266-1	1063365-2 1063366-2	60 80 120 Grit	12,150 12,150 12,150 Max RPM
7 x 7/8" Pk Qty 10	1063265-1 1063266-1 1063268-1 Type 27	1063365-2 1063366-2 1063368-2 Type 29	60 80 120	12,150 12,150 12,150
-	1063265-1 1063266-1 1063268-1 Type 27 1063272-1	1063365-2 1063366-2 1063368-2 Type 29 1063372-2	60 80 120 Grit 36	12,150 12,150 12,150 Max RPM 8,600
-	1063265-1 1063266-1 1063268-1 Type 27 1063272-1 1063273-1	1063365-2 1063366-2 1063368-2 Type 29 1063372-2 1063373-2	60 80 120 Grit 36 40	12,150 12,150 12,150 Max RPM 8,600 8,600
-	1063265-1 1063266-1 1063268-1 Type 27 1063272-1 1063273-1 1063275-1	1063365-2 1063366-2 1063368-2 Type 29 1063372-2 1063373-2 1063375-2	60 80 120 Grit 36 40 60	12,150 12,150 12,150 Max RPM 8,600 8,600 8,600
Pk Qty 10	1063265-1 1063266-1 1063268-1 Type 27 1063272-1 1063273-1 1063275-1 1063276-1 1063278-1	1063365-2 1063366-2 1063368-2 Type 29 1063372-2 1063373-2 1063375-2 1063376-2 1063378-2	60 80 120 Grit 36 40 60 80	12,150 12,150 12,150 Max RPM 8,600 8,600 8,600 8,600 8,600
Pk Qty 10 7 x 5/8"-11	1063265-1 1063266-1 1063268-1 Type 27 1063272-1 1063273-1 1063275-1 1063276-1 1063278-1 Type 27	1063365-2 1063366-2 1063368-2 Type 29 1063372-2 1063375-2 1063376-2 1063378-2 Type 29	60 80 120 Grit 36 40 60 80 120 Grit	12,150 12,150 12,150 Max RPM 8,600 8,600 8,600 8,600 8,600
Pk Qty 10	1063265-1 1063266-1 1063268-1 Type 27 1063272-1 1063273-1 1063275-1 1063276-1 1063278-1 Type 27 1063172-1	1063365-2 1063366-2 1063368-2 Type 29 1063372-2 1063373-2 1063376-2 1063378-2 Type 29 1063572-2	60 80 120 Grit 36 40 60 80 120 Grit 36	12,150 12,150 12,150 Max RPM 8,600 8,600 8,600 8,600 8,600 Max RPM 8,600
Pk Qty 10 7 x 5/8"-11	1063265-1 1063266-1 1063268-1 Type 27 1063272-1 1063273-1 1063275-1 1063276-1 1063278-1 Type 27	1063365-2 1063366-2 1063368-2 Type 29 1063372-2 1063375-2 1063376-2 1063378-2 Type 29	60 80 120 Grit 36 40 60 80 120 Grit	12,150 12,150 12,150 Max RPM 8,600 8,600 8,600 8,600 8,600
Pk Qty 10 7 x 5/8"-11	1063265-1 1063266-1 1063268-1 Type 27 1063272-1 1063273-1 1063275-1 1063276-1 1063278-1 Type 27 1063172-1	1063365-2 1063366-2 1063368-2 Type 29 1063372-2 1063373-2 1063376-2 1063378-2 Type 29 1063572-2	60 80 120 Grit 36 40 60 80 120 Grit 36	12,150 12,150 12,150 Max RPM 8,600 8,600 8,600 8,600 8,600 Max RPM 8,600

1063178-1

Aluminum Oxide

8,600

1063578-2

120



- Affordable & efficient
- Great choice for stainless steel
- High density option available

Zirconia Alumina Fiberglass Backing Plate

4 x 5/8"	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	10803FF	10803AF	36	15,150
TR QLY TO	10804FF	10804AF	40	15,150
	10805FF	10805AF	60	15,150
	10806FF	10806AF	80	15,150
	10807FF	10807AF	120	15,150
				,
4-1/2 x 7/8"	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	10823FF	10823AF	36	13,300
4.9	10824FF	10824AF	40	13,300
	10828FF	10828AF	50	13,300
	10825FF	10825AF	60	13,300
	10826FF	10826AF	80	13,300
	10827FF	10827AF	120	13,300
4-1/2 x 5/8"-11	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	10813FF	10813AF	36	13,300
	10814FF	10814AF	40	13,300
	10818FF	10818AF	50	13,300
	10815FF	10815AF	60	13,300
	10816FF	10816AF	80	13,300
	10817FF	10817AF	120	13,300
5 x 7/8"	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	10843FF	10843AF	36	12,150
	10844FF	10844AF	40	12,150
	10848FF	10848AF	50	12,150
	10845FF	10845AF	60	12,150
	10846FF	10846AF	80	12,150
	10847FF	10847AF	120	12,150
5 x 5/8"-11	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	10833FF	10833AF	36	12,150
	10834FF	10834AF	40	12,150
	10838FF	10838AF	50	12,150
	10835FF	10835AF	60	12,150
	10836FF	10836AF	80	12,150
	10837FF	10837AF	120	12,150
7 x 7/8"	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	10863FF	10863AF	36	8,600
	10864FF	10864AF	40	8,600
	10868FF	10868AF	50	8,600
	10865FF	10865AF	60	8,600
	10866FF	10866AF	80	8,600
	10867FF	10867AF	120	8,600
7 x 5/8"-11	Type 27	Type 29	Grit	Max RPM
Pk Qty 10	10853FF	10853AF	36	8,600
	10854FF	10854AF	40	8,600
	10858FF	10858AF	50	8,600
	10855FF	10855AF	60	8,600
	10856FF	10856AF	80	8,600
	10857FF	10857AF	120	8,600

800.888.4885



- Aluminum backing plate
- Angle face design for maximum leverage
- Available with threaded hub
- Great choice for stainless steel

Zif Collid F	Mullilla	Aluminun	n Backing Plate
4 x 5/8"	ltem	Grit	Max RPM
Pk Qty 10	10803	36	15,150
,	10804	40	15,150
	10805	60	15,150
	10806	80	15,150
	10807	120	15,150
4 1/2 v 7/0"	lt a ma	Grit	Max RPM
4-1/2 x 7/8"	Item		
Pk Qty 10	10823	36	13,300
	10824	40	13,300
	10825	60	13,300
	10826	80	13,300
	10827	120	13,300
4-1/2 x 5/8"-11	ltem	Grit	Max RPM
Pk Qty 10	10813	36	13,300
	10814	40	13,300
	10815	60	13,300
	10816	80	13,300
	10817	120	13,300
5 x 7/8"	ltem	Grit	Max RPM
Pk Qty 10	10843	36	12,150
TR Gry 10	10844	40	12,150
	10845	60	12,150
	10846	80	12,150
	10847	120	12,150
5 5/0H 11	1.	٥	
5 x 5/8"-11	ltem	Grit	Max RPM
Pk Qty 10	10833	36	12,150
	10834	40	12,150
	10835	60	12,150
	10836	80	12,150
	10837	120	12,150
7 x 7/8"	ltem	Grit	Max RPM
Pk Qty 10	10863	36	8,600
	10864	40	8,600
	10865	60	8,600
	10866	80	8,600
	10867	120	8,600
7 v E/0" 11	lta	C":1	Mar DDII
7 x 5/8"-11	Item	Grit	Max RPM
Pk Qty 10	10853	36	8,600
	10854	40	8,600
	10855	60	8,600
	10856	80	8,600 8,600
	10857	120	0,000

PREDATOR UCT OVERVIEW Resin Fibre

Smaller diameter discs typically do not last long, due to the small amount of abrasive grain able to fit within the product surface. The self-sharpening grains of PREDATOR™ quick-lok discs outlast many others, and the two grinding aids further increase life by keeping the material cool. Aggressive grinding with quick-lok discs is easily achieved due to the proprietary construction of PREDATOR™ materials.

Tough deburring and weld removal applications may wear or tear standard quick-lok disc backing materials. PREDATOR™ resin fibre quick-lok discs are made of the same thick, rugged, heat absorbing backing of resin fibre discs. Some flexibility is lost, but cut rates and product life are unsurpassed.



faster than untreated discs.

800.888.4885

From the high RPM of a quick-lok disc application, excessive heat can quickly load the disc material with aluminum or other soft metals. This may be common and unavoidable with conventional quick-lok discs, but Performance Coating alleviates heat from the grinding process. Lab results have shown Performance Coated quick-lok discs cut as much as ten times

Representatives available for joint sales calls.

Compact Grain Quick-Lok Disc Options

The cluster, or agglomerate, that forms a compact grain is much different than conventional abrasives. Compact grains have multiple layers of the same grit - compared to only one layer of a conventional coated abrasive product. As an entire layer of abrasive grain is worn away, another layer is exposed. The compact grain construction results in less loading, longer life and a consistent finish.

If you were to convert conventional coated abrasives to the same compact grain grit size, compact grains will appear much coarser than their conventional abrasive equivalent; but, they are no coarser than the grit stated on the backing.



The unique manner in which compact grains wear away allow them to penetrate the hard structure of titanium and high nickel alloys, both very common materials for the aerospace industry.

In finer grits, such as 80 and 120, compact grain quick-lok discs have shown three-to-one performance over conventional aluminum oxide and silicon carbide discs. The stacked grain structure contributes less heat to the grinding process and leads to a faster cut and better life.

The small diameter of quick-lok discs leaves a small grinding footprint and allows the user to grind or polish in a space where a larger tool would not reach. A smaller footprint also allows the grind lines to stay tight to the weld area creating less secondary finishing work.





The quick change mechanism allows fast product changeover with minimum tool down time. There are no performance differences between Type R and Type S buttons and the correct choice is only a matter of preference. Coordinating guick-lok disc holders are available for each diameter.

MAXBAKTM

Not as stiff as resin fibre quick-lok discs, MAXBAK™ quickloks are a seamless blend of aggressive flexibility. MAXBAK™ is a proven choice for normal deburring and weld removal applications where a combination of flexibility, fast cut and long life are desired. MAXBAK™ quick-loks work well for blending corners and working on contoured surfaces.





Quick-lok discs with a single-ply backing are popular with steel fabricators working on inside corners and tight, contoured surfaces. The single-ply backing is extremely flexible, yet sustains high edge retention for maximum benefit.

Aerospace Applications Kit

Since 1960, we have been serving the aerospace industry with new and exclusive products. The Aerospace Applications Kit was carefully assembled to show the benefits of our exclusive aerospace products. The kit details product and process improvements tied to popular metal classes and applications in the aerospace market. These products will greatly improve your abrasive process at a lower cost, compared to competitor's.



CONDITIONING | CLEAN & FINISH | FLAP WHEELS

APPS & SOLUTIONS Mild Steel & SOLUTIONS

APPLICATION

Weld removal and deburring in coarser grits are the most common quick-lok disc applications on mild steel sheet. The ability of a product to remove material quickly and stand up to sharp burrs and welds are the most important factors.

SOLUTION

Our wide selection of backings can be utilized for high heat and tough deburring applications. The proprietary grains of PREDATOR provides mild steel fabricators the fastest cut available in the market. A fast cut and durable backing are critical for mild steel weld removal and deburring applications. PREDATOR discs offer the fast cut and long life that is essential for these applications. The wide range of backing options offer solutions for flexible to rigid applications.

Reference Lab Showcase 267 on Page 021



Stainless Steel

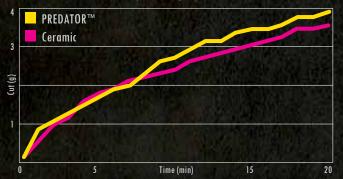
APPLICATION

The high heat applications of stainless steel, with the higher RPM of die grinders can quickly deteriorate the effectiveness of quicklok discs. It is important to use a product that can control heat while delivering a high rate of removal. This requires certain use of heat resistant grains as well as heat reducing grinding aids.

SOLUTION

The high concentration of select grains, and both size and top size grinding aids of PREDATOR™ quick-lok discs, compliments stainless steel applications very well. The range of backing options allow for additional life and controlled performance during stock removal or deburring.

Reference Lab Showcase Sample on Page 011



APPLICATION

Titanium and high nickel alloys are involved in some of the most challenging applications. These hard metals do not respond well to controlled grinding and can quickly deplete the usable life of an abrasive. Poor performance has been generally accepted by using conventional, fine grit aluminum oxide, silicon carbide, or even costly full ceramic grains in coarse grits.

SOLUTION

Forming silicon carbide into a compact grain structure alleviates the heat generated from hard metals. The manner in which compact grains breakdown during use is also beneficial to the harder exotic alloys. The layered construction of silicon carbide compact grains can provide life up to five times longer than conventional abrasive grains.



Aluminum

APPLICATION

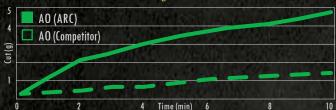
Removal of spot welds, plasma cut burrs or machining marks are all common aluminum applications, and are all very different in nature. A diverse selection of products is needed to accomplish such a range of applications. Due to the high heat generated by using quick-lok discs, loading will also be an apparent issue.

SOLUTION

For versatility, quick-lok discs offer several backing options, from contoured conformability to speed and aggression. Single-ply, MAXBAK $^{\text{\tiny{M}}}$, and resin fibre backings are all available for our PREDATOR $^{\text{\tiny{M}}}$ material.

Performance Coating is integrated to ensure a cooler cut, able to reduce or completely stop loading of soft metals. The coating is baked into the PREDATOR™ material and is especially effective when using a high speed product like quick-lok discs.

Reference Lab Showcase 256 on Page 018



Grit

36

40

50

60

80

100

120

BELTS

80

100

120

NO LAP BANDS

PREDATOR™

Type R

71-31638

71-31639

71-31640

71-31641

71-31642

71-31643

71-31644

Type S

71-31438

71-31439

71-31440

71-31441

71-31442

71-31443

71-31444

71-31478

71-31479

71-31480

1-1/2"

Pk Qty 100



- Ideal for mild steel
- Type R and Type S mechanical locking button centers disc on tool with a twist
- Self-sharpening grains
- Cost effective option to full ceramic materials



- Fibre backing provides additional strength
- Fast cutting
- For aggressive applications

2" Type S Grit Type R Pk Qty 100 71-31650 71-31450 36 71-31651 71-31451 40 71-31652 71-31452 50 71-31653 71-31453 60 71-31654 71-31454 80 71-31655 71-31455 100 71-31656 71-31456 120 3" Type R Type S Grit 71-31662 71-31462 36 Pk Qty 50 71-31463 71-31663 40 71-31464 71-31664 50 60 71-31665 71-31465 71-31666 71-31466 80 71-31667 71-31467 100 71-31668 71-31468 120 4" Type R Type S Grit Pk Qty 50 71-31674 71-31474 36 71-31675 71-31475 40 71-31676 71-31476 50 71-31677 71-31477 60

PREDATOR™ Resin Fibre

71-31678

71-31679

71-31680

2"	Type R	Type S	Grit
Pk Qty 100	71-36201	71-38201	24
	71-36202	71-38202	36
	71-36204	71-38204	50
	71-36205	71-38205	60
	71-36206	71-38206	80
	71-36208	71-38208	120
3"	Type R	Type S	Grit
3" Pk Qty 50	Type R 71-36301	Type S 71-38301	Grit 24
_		- ' '	
_	71-36301	71-38301	24
_	71-36301 71-36302	71-38301 71-38302	24 36
_	71-36301 71-36302 71-36304	71-38301 71-38302 71-38304	24 36 50



- Ideal for aluminum
- Increased cut rate
- Reduced heat transfer
- Extended product life

Performance Coated PREDATOR™

1-1/2"	Type R	Type S	Grit
Pk Qty 100	71-31638W	71-31438W	36
	71-31639W	71-31439W	40
	71-31640W	71-31440W	50
	71-31641W	71-31441W	60
	71-31642W	71-31442W	80
	71-31643W	71-31443W	100
	71-31644W	71-31444W	120
2"	Type R	Type S	Grit
Pk Qty 100	71-31650W	71-31450W	36
	71-31651W	71-31451W	40
	71-31652W	71-31452W	50
	71-31653W	71-31453W	60
	71-31654W	71-31454W	80
	71-31655W	71-31455W	100
	71-31656W	71-31456W	120
3"	Type R	Type S	Grit
3" Pk Qty 50	Type R 71-31662W	Type S 71-31462W	Grit 36
_			
_	71-31662W	71-31462W	36
_	71-31662W 71-31663W	71-31462W 71-31463W	36 40
_	71-31662W 71-31663W 71-31664W	71-31462W 71-31463W 71-31464W	36 40 50
_	71-31662W 71-31663W 71-31664W 71-31665W	71-31462W 71-31463W 71-31464W 71-31465W	36 40 50 60
_	71–31662W 71–31663W 71–31664W 71–31665W 71–31666W	71-31462W 71-31463W 71-31464W 71-31465W 71-31466W	36 40 50 60 80
_	71–31662W 71–31663W 71–31664W 71–31665W 71–31666W 71–31667W	71-31462W 71-31463W 71-31464W 71-31465W 71-31466W 71-31467W	36 40 50 60 80 100
Pk Qty 50	71–31662W 71–31663W 71–31664W 71–31665W 71–31666W 71–31667W 71–31668W	71–31462W 71–31463W 71–31464W 71–31465W 71–31466W 71–31467W 71–31468W	36 40 50 60 80 100 120
Pk Qty 50	71-31662W 71-31663W 71-31664W 71-31665W 71-31666W 71-31667W 71-31668W	71-31462W 71-31463W 71-31464W 71-31465W 71-31466W 71-31467W 71-31468W	36 40 50 60 80 100 120
Pk Qty 50	71–31662W 71–31663W 71–31664W 71–31665W 71–31666W 71–31667W 71–31668W	71-31462W 71-31463W 71-31464W 71-31465W 71-31466W 71-31467W 71-31468W Type S 71-31474W	36 40 50 60 80 100 120 Grit 36
Pk Qty 50	71–31662W 71–31663W 71–31664W 71–31665W 71–31666W 71–31668W Type R 71–31674W 71–31675W	71–31462W 71–31463W 71–31464W 71–31465W 71–31466W 71–31467W 71–31468W Type S 71–31474W 71–31475W	36 40 50 60 80 100 120 Grit 36 40
Pk Qty 50	71–31662W 71–31663W 71–31664W 71–31665W 71–31666W 71–31668W 71–31668W Type R 71–31674W 71–31675W 71–31676W	71–31462W 71–31463W 71–31464W 71–31465W 71–31466W 71–31468W Type S 71–31474W 71–31475W 71–31476W	36 40 50 60 80 100 120 Grit 36 40 50
Pk Qty 50	71–31662W 71–31663W 71–31664W 71–31665W 71–31666W 71–31668W Type R 71–31675W 71–31675W 71–31676W 71–31677W	71–31462W 71–31463W 71–31464W 71–31465W 71–31466W 71–31468W Type S 71–31474W 71–31475W 71–31476W 71–31477W	36 40 50 60 80 100 120 Grit 36 40 50



Performance Coated PREDATOR™ Resin Fibre

2"	Type R	Type S	Grit
Pk Qty 100	71-36201W	71-38201W	24
	71-36202W	71-38202W	36
	71-36204W	71-38204W	50
	71-36205W	71-38205W	60
	71-36206W	71-38206W	80
	71-36208W	71-38208W	120
3"	Type R	Type S	Grit
Pk Qty 50	71-36301W	71-38301W	24
	71-36302W	71-38302W	36
	71-36304W	71-38304W	50
	71-36305W	71-38305W	60
	71-36305W 71-36306W	71-38305W 71-38306W	60 80



- General purpose metalworking
- Affordable choice for soft metals

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Λ	ur	nın	IIIm		VIN	
AI	шT	ш	um	w	XIU	T.
	•		• • • • •	•	<i>,</i> , , ,	•

1"	Type R	Type S	Grit
Pk Qty 100	31613	31413	24
	31614	31414	36
	31615	31415	40
	31616	31416	50
	31617	31417	60
	31618	31418	80
	31619	31419	100
	31620	31420	120
	31621	31421	150
	31622	31422 31423	180 240
	31623 31624	31424	320
2"	Type R	Type S	Grit
Pk Qty 100	31649	31449	24
	31650	31450	36
	31651	31451	40
	31652	31452	50
	31653	31453	60
	31654	31454	80
	31655	31455	100
	31656	31456	120
	31657	31457	150
	31658	31458	180
	31659	31459	240
	31660	31460	320
3"	Type R	Type S	Grit
_	Type R 31661	Type S 31461	Grit 24
3" Pk Qty 50	Type R 31661 31662	Type S 31461 31462	Grit 24 36
_	31661	31461	24
_	31661 31662	31461 31462	24 36
_	31661 31662 31663	31461 31462 31463	24 36 40
_	31661 31662 31663 31664	31461 31462 31463 31464 31465 31466	24 36 40 50
_	31661 31662 31663 31664 31665 31666 31667	31461 31462 31463 31464 31465	24 36 40 50 60 80
_	31661 31662 31663 31664 31665 31666 31667 31668	31461 31462 31463 31464 31465 31466 31467 31468	24 36 40 50 60 80 100
_	31661 31662 31663 31664 31665 31666 31667 31668 31669	31461 31462 31463 31464 31465 31466 31467 31468 31469	24 36 40 50 60 80 100 120
_	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470	24 36 40 50 60 80 100 120 150
_	31661 31662 31663 31664 31665 31666 31667 31668 31669	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471	24 36 40 50 60 80 100 120 150 180 240
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472	24 36 40 50 60 80 100 120 150 180 240
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472 Type S	24 36 40 50 60 80 100 120 150 180 240 320 Grit
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R 31673	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472 Type S 31473	24 36 40 50 60 80 100 120 150 180 240 320 Grit 24
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R 31673 31674	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472 Type S 31473 31474	24 36 40 50 60 80 100 120 150 180 240 320 Grit 24 36
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R 31673 31674 31675	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472 Type S 31473 31474 31475	24 36 40 50 60 80 100 120 150 180 240 320 Grit 24 36 40
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R 31673 31674 31675 31676	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472 Type S 31473 31474 31475 31476	24 36 40 50 60 80 100 120 150 180 240 320 Grit 24 36 40 50
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R 31673 31674 31675 31676 31677	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472 Type S 31473 31474 31475 31476 31477	24 36 40 50 60 80 100 120 150 180 240 320 Grit 24 36 40 50 60
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R 31673 31674 31675 31676 31677 31678	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472 Type S 31473 31474 31475 31476 31477 31478	24 36 40 50 60 80 100 120 150 180 240 320 Grit 24 36 40 50 60 80
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R 31673 31674 31675 31676 31677 31678 31678 31679	31461 31462 31463 31464 31465 31466 31467 31468 31470 31471 31472 Type S 31473 31474 31475 31476 31477 31478 31479	24 36 40 50 60 80 100 120 150 180 240 320 Grit 24 36 40 50 60 80
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R 31673 31674 31675 31676 31677 31678 31679 31680	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472 Type S 31473 31474 31475 31476 31477 31478 31479 31480	24 36 40 50 60 80 100 120 150 180 240 320 Grit 24 36 40 50 60 80 100 120 150 180 240 320
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R 31673 31674 31675 31676 31676 31677 31678 31679 31680 31681	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472 Type S 31473 31474 31475 31476 31477 31478 31479 31480 31481	24 36 40 50 60 80 100 120 150 180 240 320 Grit 24 36 40 50 60 80 100 120 150 150 180 240 320
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R 31673 31674 31675 31676 31676 31677 31678 31679 31680 31681 31682	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472 Type S 31473 31474 31475 31476 31477 31478 31479 31480 31481 31482	24 36 40 50 60 80 100 120 150 180 240 320 Grit 24 36 40 50 60 80 100 120 150 180
Pk Qty 50	31661 31662 31663 31664 31665 31666 31667 31668 31669 31670 31671 31672 Type R 31673 31674 31675 31676 31676 31677 31678 31679 31680 31681	31461 31462 31463 31464 31465 31466 31467 31468 31469 31470 31471 31472 Type S 31473 31474 31475 31476 31477 31478 31479 31480 31481	24 36 40 50 60 80 100 120 150 180 240 320 Grit 24 36 40 50 60 80 100 120 150 150 180 240 320

SURFACE CONDITIONING CLEAN & FINISH FLAP WHEELS

SHEETS

QUICK-LOK Aluminum Oxide PLUS

2"	Type R	Type S	Grit
Pk Qty 100	31650-02	31450-1	36
	31651-02	31451-1	40
	31652-02	31452-1	50
	31653-02	31453-1	60
	31654-02	31454-1	80
	31655-02	31455-1	100
	31656-02	31456-1	120
	31657-02	31457-1	150
	31658-02	31458-1	180
3"	Type R	Type S	Grit
3" Pk Qty 50	Type R 31662-02	Type S 31462-1	Grit 36
	• •	* *	
	31662-02	31462-1	36
	31662-02 31663-02	31462-1 31463-1	36 40
	31662-02 31663-02 31664-02	31462-1 31463-1 31464-1	36 40 50
	31662-02 31663-02 31664-02 31665-02	31462-1 31463-1 31464-1 31465-1	36 40 50 60
	31662-02 31663-02 31664-02 31665-02 31666-02	31462-1 31463-1 31464-1 31465-1 31466-1	36 40 50 60 80
	31662-02 31663-02 31664-02 31665-02 31666-02 31667-02	31462-1 31463-1 31464-1 31465-1 31466-1 31467-1	36 40 50 60 80 100

- General purpose metalworking
- Added grinding aid



- Compact grain structure lasts longer
- Provides consistent finish throughout product life

Compact Grain

2"	Type R	Type S	Grit
Pk Qty 100	31654-5	31454-5	80
	31656-5	31456-5	120
3"	Type R	Type S	Grit
3" Pk Qty 50	Type R 31666-5	Type S 31466-5	Grit 80

Silicon Carbide Compact Grain

2"	Type R	Type S	Grit
Pk Qty 100	31654-8	31454-8	80
	31656-8	31456-8	120
	31658-8	31458-8	180
	31659-8	31459-8	240
3"	Type R	Type S	Grit
3" Pk Qty 50	Type R 31666-8	Type S 31466-8	Grit 80
_			
_	31666-8	31466-8	80

Zirconia Alumina



- Affordable & efficient
- Great choice for stainless steel
- Added grinding aid

1-1/2"	Type R	Type S	Grit
Pk Qty 100	31709	31522	24
	31710	31523	36
	31711	31524	40
	31712	31525	50
	31713	31526	60
	31714	31527	80
	31715	31528	100
	31716	31529	120
2"	Type R	Type S	Grit
Pk Qty 100	31717	31534	24
	31718	31535	36
	31719	31536	40
	31720	31537	50
	31721	31538	60
	31722	31539	80
	31723	31540	100
	31724	31541	120
3"	Type R	Type S	Grit
3" Pk Qty 50	Type R 31725	Type S 31546	Grit 24
_			
_	31725	31546	24
_	31725 31726	31546 31547	24 36
_	31725 31726 31727	31546 31547 31548	24 36 40
_	31725 31726 31727 31728 31729 31730	31546 31547 31548 31549 31550 31551	24 36 40 50 60 80
_	31725 31726 31727 31728 31729	31546 31547 31548 31549 31550 31551 31552	24 36 40 50 60
_	31725 31726 31727 31728 31729 31730	31546 31547 31548 31549 31550 31551	24 36 40 50 60 80
_	31725 31726 31727 31728 31729 31730 31731	31546 31547 31548 31549 31550 31551 31552	24 36 40 50 60 80
Pk Qty 50	31725 31726 31727 31728 31729 31730 31731 31732	31546 31547 31548 31549 31550 31551 31552 31553	24 36 40 50 60 80 100
Pk Qty 50	31725 31726 31727 31728 31729 31730 31731 31732 Type R	31546 31547 31548 31549 31550 31551 31552 31553 Type S	24 36 40 50 60 80 100 120 Grit
Pk Qty 50	31725 31726 31727 31728 31729 31730 31731 31732 Type R 31733	31546 31547 31548 31549 31550 31551 31552 31553 Type \$	24 36 40 50 60 80 100 120 Grit 24
Pk Qty 50	31725 31726 31727 31728 31729 31730 31731 31732 Type R 31733 31734	31546 31547 31548 31549 31550 31551 31552 31553 Type S 31556 31557	24 36 40 50 60 80 100 120 Grit 24 36
Pk Qty 50	31725 31726 31727 31728 31729 31730 31731 31732 Type R 31733 31734 31735	31546 31547 31548 31549 31550 31551 31552 31553 Type \$ 31556 31557 31558	24 36 40 50 60 80 100 120 Grit 24 36 40
Pk Qty 50	31725 31726 31727 31728 31729 31730 31731 31732 Type R 31733 31734 31735 31736 31737	31546 31547 31548 31549 31550 31551 31552 31553 Type S 31556 31557 31558 31559 31560 31561	24 36 40 50 60 80 100 120 Grit 24 36 40 50 60 80
Pk Qty 50	31725 31726 31727 31728 31729 31730 31731 31732 Type R 31733 31734 31735 31736 31737	31546 31547 31548 31549 31550 31551 31552 31553 Type S 31556 31557 31558 31559 31560	24 36 40 50 60 80 100 120 Grit 24 36 40 50 60

Quick-Lok Disc Holders

1 x 1/4"	Type R	Type S	Max RPM
Pk Qty 1	50257	50251	40,000
1-1/2 x 1/4"	Type R	Type S	Max RPM
Pk Qty 1	50258	50252	30,000
2 x 1/4"	Type R	Type S	Max RPM
Pk Qty 1	50259	50253	30,000
3 x 1/4"	Type R	Type S	Max RPM
Pk Qty 1	50260	50254	20,000
4 x 1/4"	Type R	Type S	Max RPM
Pk Qty 1	50261	50255	10,000



PRODUCT QVERVIEW

Available in 5" or 6" roll, hook and loop, or with tab, SPECTRA™ Premium Paper Discs utilize a sturdy paper backing combined with a premium grain and stearated surface. 5" and 6" discs may be available with 6 or 8 vacuum holes.

SPECTRA™ products are a seamless blend of affordability and performance for general purpose applications on all metals.









PREDATOR™

An aggressive cloth PSA with both size and top size grinding aids, PREDATOR™ PSA discs deliver a fast cut with minimal loading. The technical grain combination of PREDATOR™ easily performs at a 3-to-1 cut rate over standard aluminum oxide and zirconia alumina discs. PREDATOR™ is available in both PSA and hook & loop backings, from 24 to 120 grit in a wide range of sizes.

PSA Disc Options

Our paper discs are available in both disc rolls or boxed

together with a liner and tab. Cloth discs are only available

with a liner; no disc roll available. 5" and 6" are the most

Compact Grain

Compact grain is a unique product that has proven value in fine finishing applications - an ideal solution for PSA discs. While utilizing its clustered construction, expect longer life and similar finish to conventional aluminum oxide products.



VACUUM HOLES

Available in 5, 6 or 8 hole format. Available in paper form.

STANDARD DISCS AND DISC ROLLS

common disc roll sizes.



Film



Film options are ideal for inside corner and sharp edge grinding applications, due to the minimal thickness of the backing. Although extremely thin, film is durable and will not tear like most paper discs, but perform similarly to cloth backed discs.

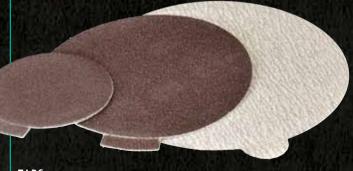
LARGE DISCS

Large discs will always be PSA and used on stationary machines found in maintenance and repair shops.

PRESSURE SENSITIVE ADHESIVE

Regardless of the disc size, the PSA used must securely hold the disc to the pad or platen and easily be removed after the disc is finished. The disc must not leave any residue on the pad or platen as this would give an uneven grinding surface with the next disc.

If the platen is not kept clean, the adhesive from the disc will not allow it to secure properly. This will cause the disc to come apart from the platen and possibly injure the operator.



TABS

As it is sometimes difficult to remove the liner from a fine grade disc, we add a tab to make the process easier. The tab is present on 60 grit and finer discs, 2" to 6" in diameter.

APPS & SOLITIONS Mild Steel Steel

APPLICATION

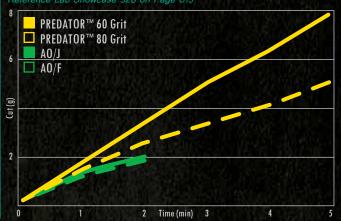
PSA and hook & loop discs are commonly used to administer the final finish of a part before painting. Different backing options are utilized depending on the geometry of the work piece. Large, rough areas with sharp burrs, corners and weld spatter would require a heavier cloth disc. Finer finishing and smoother surfaces, including paint, would use a paper disc.

SOLUTION

When working on large areas that include sharp burrs, corners, weld penetration or spatter, PREDATOR $^{\text{TM}}$ cloth PSA discs are recommended.

When working on smoother surfaces with less spatter, requiring minimal cleanup, SPECTRA™ Premium Paper Discs can be used. The SPECTRA™ product line was designed as a seamless blend of affordability and performance.

Reference Lab Showcase 328 on Page 013



APPLICATION

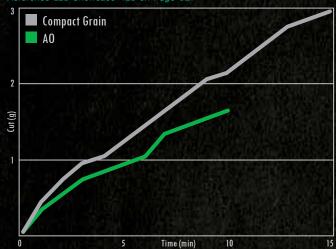
Stainless finishing contains a wide range of application factors, and your use of a particular PSA disc will depend on the size, geometry and final surface requirement. All of these factors indicate the type of grain, backing, flexibility and size needed.

SOLUTION

A definitive factor of stainless grinding is the excessive heat generated. PREDATOR™ PSA discs can control heat and extend cut with the proprietary selection of self-sharpening grains.

When seeking a finish finer than 120 grit, consider using an aluminum oxide compact grain. Compared to conventional, single layer abrasive grains, the compact grain provides a faster cut and extended life on demanding stainless steel finishing applications.

Reference Lab Showcase 425 on Page 021



Aluminum

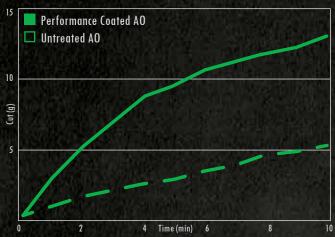
APPLICATION

As a result of the slow action of orbital tooling on a flat surface, aluminum will quickly load into the grain structure, dramatically reducing the life and cutting power of the PSA disc.

SOLUTION

Performance Coated PSA discs have the ability to cut 10 times faster and last 10 times longer than untreated discs. The Performance Coating is an integrated enhancement, producing a resilient, long lasting PSA disc that reduces heat during grinding. Abrasive grains can be fully utilized on aluminum with this product enhancement. Many fabricators have used Performance Coated discs to greatly reduce production costs and increase efficiencies.

Reference Lab Showcase 277 on Page 016





- Ideal for mild steel
- Self-sharpening grains
- Cost effective option to full ceramic materials

PCA	DISCS
PREDATOR™	

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71-30513 60 71-30514 80 71-30516 120 20" Item Grit Pk Qty 10 71-30558 36 71-30559 40 71-30560 50 71-30561 60 71-30562 80 71-30564 120 24" Item Grit Pk Qty 5 71-30570 36 71-30571 40			
71-30514 80 71-30516 120 20" Item Grit Pk Qty 10 71-30558 36 71-30559 40 71-30560 50 71-30561 60 71-30562 80 71-30564 120 24" Item Grit Pk Qty 5 71-30570 36 71-30571 40			
71-30516 120 20" Item Grit Pk Qty 10 71-30558 36 71-30559 40 71-30560 50 71-30561 60 71-30562 80 71-30564 120 24" Item Grit Pk Qty 5 71-30570 36 71-30571 40			
20" Item Grit Pk Qty 10 71-30558 36 71-30559 40 71-30560 50 71-30561 60 71-30562 80 71-30564 120 24" Item Grit Pk Qty 5 71-30570 36 71-30571 40			
Pk Qty 10 71-30558 36 71-30559 40 71-30560 50 71-30561 60 71-30562 80 71-30564 120 24" Item Grit Pk Qty 5 71-30570 36 71-30571 40		71-30516	120
71-30559 40 71-30560 50 71-30561 60 71-30562 80 71-30564 120 24" Item Grit Pk Qty 5 71-30570 36 71-30571 40	20"	Item	Grit
71-30560 50 71-30561 60 71-30562 80 71-30564 120 24" Item Grit Pk Qty 5 71-30570 36 71-30571 40	Pk Qty 10	71-30558	36
71-30561 60 71-30562 80 71-30564 120 24" Item Grit Pk Qty 5 71-30570 36 71-30571 40		71-30559	40
71-30562 80 71-30564 120 24" Item Grit Pk Qty 5 71-30570 36 71-30571 40		71-30560	50
71-30564 120 24" Item Grit Pk Qty 5 71-30570 36 71-30571 40			60
24" Item Grit Pk Qty 5 71-30570 36 71-30571 40		71-30562	80
Pk Qty 5 71-30570 36 71-30571 40		71-30564	120
Pk Qty 5 71-30570 36 71-30571 40	24"	Item	Grit
71-30571 40			
	,		
11-305/2		71-30572	50
71-30573 60			
71-30574 80		71-30574	80
71-30576 120		71-30576	120

PSA DISCS

SURFACE CONDITIONING CLEAN & FINISH FLAP WHEELS



	SPECTRA™	PSA w/ Tab	Pk Qty 100
	5"	6"	Grit
	31506	36606	80
	31507	36607	100
	31508	36608	120
b	31509	36609	150
	31510	36610	180
	31511	36611	220
	31512	36612	240

- Affordable performance
- 80 600 grit range
- Tabbed PSA, hook & loop and disc rolls available



SPECTRA™	PSA Disc Rolls	S Pk Qty 1
5"	6"	Grit
311506	311606	80B
311507	311607	100B
311508	311608	120B
311509	311609	150B
311510	311610	180B
311511	311611	220B
311512	311612	240B
311514	311614	320B
311515	311615	400B
311516	311617	600B



SPECTRA™ Ho	ok & Loop	Pk Qty 100
5"	6"	Grit
349506	349606	80
349507	349607	100
349508	349608	120
349509	349609	150
349510	349610	180
349511	349611	220
349512	349612	240
349514	349614	320
349515	349615	400
349517	349617	600



- General purpose metalworking
- Affordable choice for soft metals
- Cloth backing adds strength

Aluminum Oxide - Cloth

1/2"	Item	Grit
Pk Qty 100	30354	36
	30355	40
	30356	50
	30357	60
	30358	80
	30359	100
	30360 30361	120 150
	30362	180
	30362GR	220
	30363	240
	30364	320
	30364GR	400
3/4"	Item	Grit
Pk Qty 100	30366	36
7 K Qty 100	30367	40
	30368	50
	30369	60
	30370	80
	30371	100
	30372	120
	30373	150
	30374	180
	30374GR	220
	30375	240
	30376	320
	30376Z1	400
1"	ltem	Grit
" Pk Qty 100	Item 30378	Grit 36
•		
•	30378 30379 30380	36 40 50
•	30378 30379 30380 30381	36 40 50 60
•	30378 30379 30380 30381 30382	36 40 50 60 80
•	30378 30379 30380 30381 30382 30383	36 40 50 60 80 100
•	30378 30379 30380 30381 30382 30383 30384	36 40 50 60 80 100 120
•	30378 30379 30380 30381 30382 30383 30384 30385	36 40 50 60 80 100 120 150
•	30378 30379 30380 30381 30382 30383 30384 30385 30386	36 40 50 60 80 100 120 150 180
•	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR	36 40 50 60 80 100 120 150 180 220
•	30378 30379 30380 30381 30382 30383 30384 30385 30386	36 40 50 60 80 100 120 150 180
•	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387	36 40 50 60 80 100 120 150 180 220 240
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR	36 40 50 60 80 100 120 150 180 220 240 320 400
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR Item 30402 30403	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR Item 30402 30403 30404	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR tem 30402 30403 30404 30405T	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR Item 30402 30403 30404	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR tem 30402 30403 30404 30405T 30406T	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR Item 30402 30403 30404 30405T 30406T 30407T	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR Item 30402 30403 30404 30405T 30406T 30407T 30408T	36 40 50 60 80 100 120 150 220 240 320 400 Grit 36 40 50 60 80 100 120 150
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR Item 30402 30403 30404 30405T 30406T 30407T 30408T 30409T 30410TGR	36 40 50 60 80 100 120 150 220 240 320 400 Grit 36 40 50 60 80 100 120 150
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR Item 30402 30403 30404 30405T 30406T 30407T 30408T 30409T 30410TGR 30411T	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180 220 240
Pk Qty 100	30378 30379 30380 30381 30382 30383 30384 30385 30386 30386GR 30387 30388 30388GR Item 30402 30403 30404 30405T 30406T 30407T 30408T 30409T 30410TGR	36 40 50 60 80 100 120 150 220 240 320 400 Grit 36 40 50 60 80 100 120 150

SURFACE
CONDITIONING CLEAN & FINISH FLAP WHEELS



- General purpose metalworking
- Affordable choice for soft metals
- Cloth backing adds strength

Aluminum Oxide - Cloth

3"	ltem	Grit
Pk Qty 50	30414	36
	30415	40
	30416	50
	30417T	60
	30418T	80
	30419T 30420T	100 120
	304201 30421T	150
	30421T	180
	30422TZ1	220
	30423T	240
	30424T	320
	30424TGR	400
4"	Item	Grit
•	30426	36
Pk Qty 50	30426	40
	30428	50
	30429T	60
	30430T	80
	30431T	100
	30432T	120
	30433T	150
	30434T	180
	30434Z1T	220
	30435T	240
	30436T	320
	30436Z2T	400
5"	ltem	Grit
5" Pk Qty 50	Item 30438	Grit 36
	30438 30439	36 40
	30438 30439 30440	36 40 50
	30438 30439 30440 30441T	36 40 50 60
	30438 30439 30440 30441T 30442T	36 40 50 60 80
	30438 30439 30440 30441T 30442T 30443T	36 40 50 60 80 100
	30438 30439 30440 30441T 30442T 30443T 30444T	36 40 50 60 80 100
	30438 30439 30440 30441T 30442T 30443T 30444T 30445T	36 40 50 60 80 100 120
	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T	36 40 50 60 80 100 120 150
	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T	36 40 50 60 80 100 120 150 180 220
	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T	36 40 50 60 80 100 120 150
	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T	36 40 50 60 80 100 120 150 180 220 240
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR	36 40 50 60 80 100 120 150 180 220 240 320 400
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR	36 40 50 60 80 100 120 150 180 220 240 320 400
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR Item 30450 30451 30452	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR Item 30450 30451 30452 30453T 30455T	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR Item 30450 30451 30452 30453T 30455T 30456T	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR Item 30450 30451 30452 30453T 30454T 30456T 30457T	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR Item 30450 30451 30452 30453T 30454T 30455T 30456T 30457T 30458T	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR Item 30450 30451 30452 30453T 30454T 30455T 30456T 30457T 30458T 30458TZ1	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180 220
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR Item 30450 30451 30452 30453T 30454T 30455T 30456T 30457T 30458T 30459T	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180 220 240
Pk Qty 50	30438 30439 30440 30441T 30442T 30443T 30444T 30445T 30446T 30446TZ2 30447T 30448T 30448TGR Item 30450 30451 30452 30453T 30454T 30455T 30456T 30457T 30458T 30458TZ1	36 40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180 220

PSA DISCS

Aluminum Oxide - Cloth

8"	ltem	Grit
Pk Qty 50	30474	36
,	30475	40
	30476	50
	30477	60
	30478	80
	30479	100
	30480	120
	30481	150
	30482	180
	30482Z1	220
	30483	240
	30484	320
	30484Z1	400
10"	ltem	Grit
Pk Qty 25	30498	36
TR GRY 25	30499	40
	30500	50
	30501	60
	30502	80
	30503	100
	30504	120
	30505	150
	30506	180
	30506Z1	220
	30507	240
	30508	320
	30508GR	400
12"	ltem	Grit
		0111
	20E10	26
Pk Qty 25	30510	36
PK QIY 25	30511	40
PK QIJ 25	30511 30512	40 50
PK QIY 25	30511 30512 30513	40 50 60
PK QIY 25	30511 30512 30513 30514	40 50 60 80
PK WIY 25	30511 30512 30513 30514 30515	40 50 60 80 100
PK WIY 25	30511 30512 30513 30514 30515 30516	40 50 60 80 100
PK WIY 25	30511 30512 30513 30514 30515 30516 30517	40 50 60 80 100 120
PK Wiy 25	30511 30512 30513 30514 30515 30516 30517 30518	40 50 60 80 100 120 150
PK Uly 25	30511 30512 30513 30514 30515 30516 30517 30518 30518Z2	40 50 60 80 100 120 150 180 220
PK QIY 25	30511 30512 30513 30514 30515 30516 30517 30518 30518Z2 30519	40 50 60 80 100 120 150 180 220 240
PK Wiy 25	30511 30512 30513 30514 30515 30516 30517 30518 30518Z2	40 50 60 80 100 120 150 180 220
	30511 30512 30513 30514 30515 30516 30517 30518 30518Z2 30519 30520 30520GR	40 50 60 80 100 120 150 180 220 240 320 400
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR	40 50 60 80 100 120 150 180 220 240 320 400 Grit
	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR Item 30522 30523	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR Item 30522 30523 30524	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR Item 30522 30523 30524 30525	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR Item 30522 30523 30524 30525 30526	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR Item 30522 30523 30524 30525 30526 30527	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR Item 30522 30523 30524 30525 30526 30527 30528	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR Item 30522 30523 30524 30525 30526 30527 30528 30529	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR Item 30522 30523 30524 30525 30526 30527 30528 30529 30530	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR Item 30522 30523 30524 30525 30526 30527 30528 30529 30530 30530Z1	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180 220
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR Item 30522 30523 30524 30525 30526 30527 30528 30529 30530 30530Z1 30531	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180 220 240
15"	30511 30512 30513 30514 30515 30516 30517 30518 3051822 30519 30520 30520GR Item 30522 30523 30524 30525 30526 30527 30528 30529 30530 30530Z1	40 50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180 220

16"	Item	Grit
Pk Qty 25	30534	36
	30535	40
	30536	50
	30537	60
	30538	80
	30539 30540	100 120
	30540	150
	30542	180
	30542Z1	220
	30543	240
	30544	320
	30544GR	400
1011	1.	o ··
18"	Item	Grit
Pk Qty 10	30546	36
	30547	40
	30548	50
	30549	60
	30550 30551	80 100
	30552	120
	30553	150
	30554	180
	30554Z1	220
	30555	240
	30556	320
	30556GR	400
00"	la	C:1
20"	Item	Grit
Pk Qty 10	30558	36 40
	30559	
	30560	50
	30560 30561	50 60
	30560 30561 30562	50 60 80
	30560 30561 30562 30563	50 60 80 100
	30560 30561 30562	50 60 80
	30560 30561 30562 30563 30564	50 60 80 100 120
	30560 30561 30562 30563 30564 30565	50 60 80 100 120 150 180 220
	30560 30561 30562 30563 30564 30565 30566 3056621 30567	50 60 80 100 120 150 180 220 240
	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567	50 60 80 100 120 150 180 220 240 320
	30560 30561 30562 30563 30564 30565 30566 3056621 30567	50 60 80 100 120 150 180 220 240
7 4 "	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1	50 60 80 100 120 150 180 220 240 320 400
24" Pk Oty 5	30560 30561 30562 30563 30564 30565 30566 3056621 30567 30568 30568Z1	50 60 80 100 120 150 180 220 240 320 400 Grit
24" <i>Pk Qty 5</i>	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1 Item	50 60 80 100 120 150 180 220 240 320 400 Grit 36
	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1 Item 30570-8	50 60 80 100 120 150 180 220 240 320 400 Grit 36 40
	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1 Item 30570-8 30571	50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50
	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1 Item 30570-8	50 60 80 100 120 150 180 220 240 320 400 Grit 36 40
	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1 Item 30570-8 30571 30572 30573	50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60
	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1 Item 30570-8 30571 30572 30573 30574	50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80
	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1 Item 30570-8 30571 30572 30573 30574 30575 30576 30576	50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150
	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1 Item 30570-8 30571 30572 30573 30574 30575 30576 30577 30578	50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180 180 180 180 180 180 180 18
	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1 Item 30570-8 30571 30572 30573 30574 30575 30576 30577 30578 30578	50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180 220 240 320 400
	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1 Item 30570-8 30571 30572 30573 30574 30575 30576 30577 30578 30578 30578Z1 30579	50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180 220 240 240 240 240 240 240 24
	30560 30561 30562 30563 30564 30565 30566 30566Z1 30567 30568 30568Z1 Item 30570-8 30571 30572 30573 30574 30575 30576 30577 30578 30578	50 60 80 100 120 150 180 220 240 320 400 Grit 36 40 50 60 80 100 120 150 180 220 240 320 400



Aluminum	Oxide - Film	Pk Qty 100
5"	6"	Grit
29005	29990	80
29007	29992	120
29009	29994	180
29010	29995	240
29011	29996	320
29012	29997	400
29013	29998	600
29014	29999	800
29015	31000	1000
29016	31001	1200

- Fine grinding with tight tolerances
- Ideal for technical operations



- Use wet or dry
- 60 to 80 grit C-weight for more aggressive applications
- 100 and finer grit for finishing applications

Silicon Carbide, Waterproof Pk Qty 100			
12"	Grit		
35203TPL	60		
35204TPL	80		
35205TPL	120		
35132TPL	180		
35134TPL	240		
35136TPL	320		
35137TPL	400		
35139TPL	600		
35139Z1TPL	800/2400		
35139Z2TPL	1000/3000		
35139Z3TPL	1200/4000		
	12" 35203TPL 35204TPL 35205TPL 35132TPL 35134TPL 35136TPL 35137TPL 35139TPL 35139Z1TPL 35139Z2TPL		

PSA DISCS

Pk Qty 1



Cloth Disc Holders

Size	ltem	Max RPM
1/2 X 1/8"	50201	22,000
1/2 X 1/4"	50202	22,000
3/4 X 1/8"	50203	22,000
3/4 X 1/4"	50204	22,000
1 X 1/8"	50205	22,000
1 X 1/4"	50206	22,000
1-1/2 X 1/4"	50208	22,000
2 X 1/4"	50209	22,000
3 X 1/4"	50210	12,000
4 X 1/4"	50211	7,500
4"	50212	7,500
5 X 1/4"	50213	5,500
5 x 3/8"	50214	5,500



Paper Disc Holders

Size	ltem	Max RPM
5 X 5/16"-24	50217	10,000
6 X 5/16"-24	50218	10 000



Hook & Loop Disc Holders Pk Qty 1

Size	ltem	Max RPM
5 X 5/16"-24	53905	10,000
5 X 5/8"-11	53905Z1	4,800
6 X 5/16"-24	53906	10,000
6 X 5/8"-11	53906SH	4,800









- Fast cut & long life
- Self-sharpening material
- Great on all metals
- No burning
- Type 1 shape
- Performance Coating available

PREDATOR™ T1 Cut Off Wheels

3" Pk Qty 50	Item	Grade	Max RPM
3 x .040 x 1/4"	903041405	A60T	25,500
3 x .040 x 3/8"	903043805	A60T	25,500
3 x 1/16 x 1/4"	903161403	A46T	25,500
3 x 1/16 x 3/8"	903163803	A46T	25,500
4" Pk Qty 50	Item	Grade	Max RPM
4 x .040 x 1/4"	904041405	A60T	19,100
4 x .040 x 3/8"	904043805	A60T	19,100
4 x 1/16 x 1/4"	904161403	A46T	19,100
4 x 1/16 x 3/8"	904163803	A46T	19,100
4-1/2" Pk Qty 50	ltem	Grade	Max RPM
4-1/2" Pk Qty 50 4-1/2 x .040 x 7/8"	Item 945047805	Grade A60T	Max RPM 13,600
,			
4-1/2 x .040 x 7/8"	945047805	A60T	13,600
4-1/2 x .040 x 7/8" 4-1/2 x 1/16 x 7/8"	945047805 945167803	A60T A46T	13,600 13,600
4-1/2 x .040 x 7/8" 4-1/2 x 1/16 x 7/8" 5" Pk Qty 50	945047805 945167803 Item	A60T A46T Grade	13,600 13,600 Max RPM
4-1/2 x .040 x 7/8" 4-1/2 x 1/16 x 7/8" 5" Pk Qty 50 5 x .040 x 7/8"	945047805 945167803 Item 905047805	A60T A46T Grade A60T	13,600 13,600 Max RPM 12,250

Performance Coated PREDATOR™ T1 Cut Off Wheels

3" Pk Qty 50	ltem	Grade	Max RPM
3 x .040 x 1/4"	903041405W	A60T	25,500
3 x .040 x 3/8"	903043805W	A60T	25,500
3 x 1/16 x 1/4"	903161403W	A46T	25,500
3 x 1/16 x 3/8"	903163803W	A46T	25,500
4" Pk Qty 50	ltem	Grade	Max RPM
4 x .040 x 1/4"	904041405W	A60T	19,100
4 x .040 x 3/8"	904043805W	A60T	19,100
4 x 1/16 x 1/4"	904161403W	A46T	19,100
4 x 1/16 x 3/8"	904163803W	A46T	19,100
4-1/2" Pk Qty 50	ltem	Grade	Max RPM
4-1/2 x .040 x 7/8"	945047805W	A60T	13,600
4-1/2 x 1/16 x 7/8"	945167803W	A46T	13,600
5" Pk Qty 50	ltem	Grade	Max RPM
5 x .040 x 7/8"	905047805W	A60T	12,250
5 x 1/16 x 7/8"	905167803W	A46T	12,250
6" Pk Qty 40	ltem	Grade	Max RPM
U PK Qty 40	110111	Oluuo	mux m m





PREDATOR™ T27 Grinding Wheels

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- Depressed center design
- Reinforced with strong mesh fiberglass
- Available with 5/8"-11 hub for safety and no tool change
- Fast cut & long life
- Excellent for grinding welds
- 1/8" flexible wheels used with plastic support hub



Jet Wheel Mandrel Set

1/4 x 3/8" or 1/4"	ltem
Pk Otv 1	50690

- For 4" diameter cut off wheels or smaller
- Contents includes 1/4" shank adapter, 1/4" screw, 1/4" screw with 3/8" shoulder



PREDATOR™

Quickly becoming our fastest growing product range, PREDATOR™ belts have a heavy Y-weight backing and proprietary grain structure, ensuring quality performance on a wide range of alloys. The combination of two grinding aids only reinforces its leading gram removal ratio.

Performance Coating

Performance Coating is available for belts less than 12" in width. This product enhancement will add additional performance in aluminum applications.



Stainless Steel

APPLICATION

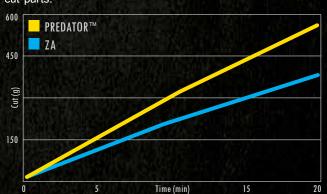
Mild Steel

The most common belt applications performed by mild steel fabricators include inside corner weld cleanup and manual deburring of thermal and mechanically cut parts. Both of these applications require particular performance factors, including flexible backing, long lasting grains and cooling agents.

SOLUTION

PREDATOR™ airfile belts are recommended for inside corner weld removal or general cleanup. To prevent breaking, PREDATOR™ belts are manufactured with a flexible backing and a strong butt joint. The technical grains used in PREDATOR™ materials will provide a fast cut, while the two grinding aids keep belts cool to increase life.

Also recommended is the use of PREDATOR™ on most benchstand applications. The durable PREDATOR™ backing is good for deburring all types of thermal and mechanically cut parts.

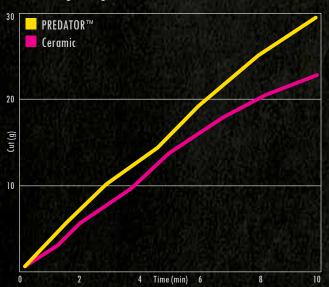


APPLICATION

From aesthetic to sanitary purposes, stainless steel finishing is performed on a wide variety of components. What may work well on stainless plate, may not work well on stainless sheet. Considering these factors, it is important to have a wide variety of technical grains, backings and grinding aids from which to choose.

SOLUTION

Top performing stainless materials include PREDATOR™, which contains a durable backing and self-sharpening grains. The two grinding aids assist in cooling the stainless steel while grinding.



Aluminum

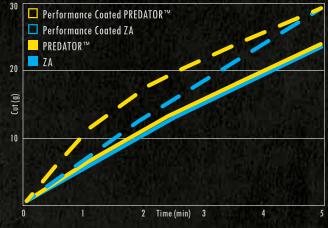
APPLICATION

Aluminum fabrication consists mainly of flash and gate removal by soft metal foundries. Other common applications include flat finishing aluminum for appearance or cleaning inside corner welds. All of these applications have loading issues due to the low melting point of aluminum.

While grinding, aluminum will melt into the grain structure of the abrasive creating excessive heat and accentuating the problem. Most aluminum fabricators use any particular abrasive based on cost, not performance, as they cannot utilize the technical advantages of certain grains.

SOLUTION

Performance Coated belts decrease heat during the grinding process and dramatically increase cut and life on aluminum. It is not uncommon to see 3 or 4 times more cut and life in common aluminum belt applications. Performance Coating allows technical grains, such as zirconia alumina and ceramic, to reach their full potential on soft metals.



071

CONDITIONING | CLEAN & FINISH | FLAP WHEELS

SHEETS

SPECIALTIES | NO LAP BANDS

PREDATOR™

Mild Steel Metal

Stainless Steel

High Alloy

Coating Closed Grinding Aid Size/Top Size

Active Filler

Backing Polyester Weight Y-Wt Wet or Dry Application



Aluminum Oxide Compact Grain (AO CG)

Mild Steel Metal

Stainless Steel

High Alloy

Coating Closed Grinding Aid Size

Active Filler

Backing Polyester

Weight Y-Wt Application Dry



Aluminum Oxide Paper (AO Paper)

Metal Mild Steel

Stainless Steel Coating Open Grinding Aid n/a

Weight F-Wt 40-120

Paper

E-Wt 150-400

Application Dry

Backing



Aluminum Oxide, J-Weight (AO/J)

Metal Mild Steel

Stainless Steel

Soft Metals

Coating Closed Grinding Aid Size Backing Cotton Weight J-Wt Application Dry



Aluminum Oxide, X-Weight (AO/X GP)

Metal Soft Metals Coating Closed Grinding Aid n/a

Backing 65% Polyester

35% Cotton

Weight X-Wt Application Dry



Aluminum Oxide Open Coat, X-Weight (AO/X Open Coat)

Metal Soft Metals Coating Open Grinding Aid n/a

Backing 65% Polyester

35% Cotton

Weight X-Wt Application Dry



Aluminum Oxide Plus, X-Weight (AO/X Plus)

Mild Steel Metal

Stainless Steel

Soft Metals

Coating Closed Grinding Aid Size/Top Size Backing Cotton

Weight X-Wt Application

Dry



Aluminum Oxide Open Coat, Y-Weight (AO/Y Open Coat)

Metal Soft Metals Coating Open Grinding Aid n/a

Backing

65% Polyester 35% Cotton X-Wt Weight Application Wet or Dry



Aluminum Oxide Premium, Y-Weight (AO/Y Premium)

Metal

Mild Steel

Coating Grinding Aid Backing

Soft Metals Closed Size Polyester Y-Wt 24-40

X-Wt 80-400

Application Wet or Dry



Silicon Carbide Compact Grain (SC CG)

Metal Titanium

High Alloy Coating Closed Grinding Aid Size Backing Polyester Weight Y-Wt Application Wet or Dry



Weight

BELTS

| Silicon Carbide (SC-Poly)

Metal Non-Ferrous Coating Closed Grinding Aid n/a Backing Polyester Weight Y-Wt Application Wet or Dry



Zirconia Alulmina, X-Weight (ZA/X)

Metal Mild Steel

Aluminum Coating Closed Grinding Aid Size/Top Size

Backing 65% Polyester 35% Cotton

Weight X-Wt Application Dry



Zirconia Alumina, Y-Weight (ZA/Y)

Metal Mild Steel Stainless Steel

Closed Coating Grinding Aid Size Backing Polyester Weight Y-Wt Application Wet or Dry



Zirconia Alumina Plus, Y-Weight (ZA/Y Plus)

Metal Mild Steel Stainless Steel Closed Coating Grinding Aid Size/Top Size Backing Polyester Weight Y-Wt Application Wet or Dry



	24	36	40	50	60	80	100	120	150	180	220	240	320	400
PREDATOR™	•	•	•	•	•	•	•	•						
AO Compact Grain						•		•		•				
AO Paper			•		•	•	•	•	•	•				
AO/J						•	•	•	•	•	•	•	•	•
AO/X General Purpose	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AO/X Open Coat					•	•	•	•	•					
AO/X Plus		•	•		•	•		•						
AO/Y Open Coat				•	•	•	•	•						
AO/Y Premium	•	•	•	•	•	•	•	•	•	•	•	•		
SC Compact Grain						•		•		•				
SC-Poly	•	•	•		•	•	•	•	•	•	•			•
ZA/X		•	•	•	•	•	•	•	•	•				
ZA/Y	•	•	•	•	•	•	•	•						
ZA/Y Plus	•	•	•	•	•	•	•	•						

Airfile Belts

1/4 x 24"	PREDATOR™	AO/X GP	ZA/Y	Grit
Pk Qty 50	-	70049	-	36
	-	70050	-	40
	-	70051	-	50
	-	70052	-	60
	-	70053	-	80
	-	70054	-	120
	-	70054Z2	-	180

Airfile Belts

1 x 18"	$PREDATOR^TM$	AO/X GP	ZA/Y	Grit
Pk Qty 50	71-010018002	701591802	714301802-2	36
	71-010018003	701591803	714301803-2	40
	71-010018004	701591804	714301804-2	50
	71-010018005	70160Z235	714301805-2	60
	71-010018006	701591806	714301806-2	80
	71-010018008	701591808	714301808-1	120
	_	701607253	_	180

36
40
50
60
80
120
180

1/2 x 18"	PREDATOR™	AO/X GP	ZA/Y	Grit
Pk Qty 50	71-005018002	70081802	714051802-2	36
	71-005018003	70081803	714051803-2	40
	71-005018004	70081804	714051804-2	50
	71-005018005	70081805	714051805-2	60
	71-005018006	70081806	714051806-2	80
	71-005018008	70081808	714051808-2	120
	-	70081810	-	180

1/2 x 24"	PREDATOR™	AO/X GP	ZA/Y	Grit
Pk Qty 50	71-005024002	70084	71406-2	36
	71-005024003	70085	71407-2	40
	71-005024004	70086	71408-2	50
	71-005024005	70087	71409-2	60
	71-005024006	70088	71410-2	80
	71-005024008	70090	7141002408-2	120
	-	70092	-	180

1 x 12"	PREDATOR™	AO/X GP	ZA/Y	Grit
Pk Qty 50	71-010012002	70150	71426-2	36
	71-010012003	70151	71427-2	40
	71-010012004	70152	71428-2	50
	71-010012005	70153	71429-2	60
	71-010012006	70154	71430-2	80
	71-010012008	70156	7143008	120
	-	70158	-	180

Portable Belts

3 x 21"	PREDATOR™	AO/X GP	ZA/Y	Grit
Pk Qty 10	71-030021002	70522	71576-2	36
	71-030021003	70523	71577-2	40
	71-030021004	70524	71578-2	50
	71-030021005	70525	71579-2	60
	71-030021006	70526	71580-2	80
	71-030021008	70528	71582-2	120
	-	70530	-	180
3 x 24"	$PREDATOR^{\text{TM}}$	AO/X GP	ZA/Y	Grit
Pk Qty 10	71-030024002	70546	71586-2	36
	71-030024003	70547	71587-2	40
	71-030024004	70548	71588-2	50
	71-030024005	70549	71589-2	60
	71-030024006	70550	71590-2	80
	71-030024008	70552	71592-2	120
	-	70554	-	180
3-1/2 x 15-1/2"	$PREDATOR^{TM}$	AO/X GP	ZA/Y	Grit
Pk Qty 10	71-035015502	70690	71636-2	36
	71-035015503	70691	71637-2	40
	71-035015504	70692	71638-2	
	11 005015501	10032		50
	71-035015505	70693	71639-2	50 60
				60
	71-035015505	70693	71639-2	60 80
	71-035015505 71-035015506	70693 70694	71639-2 71640-2	60 80 120
	71-035015505 71-035015506	70693 70694 70696	71639-2 71640-2	60 80 120
4 x 24"	71-035015505 71-035015506	70693 70694 70696	71639-2 71640-2	60 80 120 180
4 x 24" Pk Qty 10	71-035015505 71-035015506 71-035015508 -	70693 70694 70696 70698	71639-2 71640-2 71642-2 -	60 80 120 180 Grit
	71-035015505 71-035015506 71-035015508 - PREDATOR™	70693 70694 70696 70698	71639-2 71640-2 71642-2 -	60 80 120 180 Grif
	71-035015505 71-035015506 71-035015508 - PREDATOR™ 71-040024002	70693 70694 70696 70698 AO/X GP 70738	71639-2 71640-2 71642-2 - ZA/Y 71656-2	60 80 120 180 Grit 36 40
	71-035015505 71-035015506 71-035015508 - PREDATOR™ 71-040024002 71-040024003	70693 70694 70696 70698 AO/X GP 70738 70739	71639-2 71640-2 71642-2 - ZA/Y 71656-2 71657-2	60 80 120 180 Grif 36 40 50
	71-035015505 71-035015506 71-035015508 - PREDATOR™ 71-040024002 71-040024003 71-040024004	70693 70694 70696 70698 AO/X GP 70738 70739 70740	71639-2 71640-2 71642-2 - ZA/Y 71656-2 71657-2 71658-2	60 80 120 180 Grit 36 40 50 60
	71-035015505 71-035015506 71-035015508 - PREDATOR™ 71-040024002 71-040024003 71-040024004 71-040024005	70693 70694 70696 70698 AO/X GP 70738 70739 70740 70741	71639-2 71640-2 71642-2 - - ZA/Y 71656-2 71657-2 71658-2 71659-2	60 80 120 180 Grit 36 40 50 60 80
	71-035015505 71-035015506 71-035015508 - PREDATOR™ 71-040024002 71-040024003 71-040024004 71-040024005 71-040024006	70693 70694 70696 70698 AO/X GP 70738 70740 70741 70742	71639-2 71640-2 71642-2 - - ZA/Y 71656-2 71657-2 71658-2 71659-2 71660-2	



Be	ne	ch	sta	ınd	Be	lts
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1 x 42"	PREDATOR™	AO/X GP	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 50	71-010042002	70162	71431-2	70162PM	-	36
	71-010042003	70163	71432-2	70163PM	-	40
	71-010042004	70164	71433-2	70164PM	-	50
	71-010042005	70165	71434-2	70165PM	-	60
	71-010042006	70166	71435-2	70166PM	69181-2	80
	71-010042008	70168	7143608-2	70168PM	69183-2	120
	-	70170	-	70170PM	69185-2	180
2 x 48"	PREDATOR™	AO/X GP	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 10	71-020048002	70318	71496-2	70318PM	- 1	36
,	71-020048003	70319	71497-2	70319PM	-	40
	71-020048004	70320	71498-2	70320PM	-	50
	71-020048005	70321	71499-2	70321PM	-	60
	71-020048006	70322	71500-2	70322PM	-	80
	71-020048008	70324	715021-3	70324PM	69254-2	120
	-	70326	-	70326PM	69256-2	180
0 (0"	DDED ATOD TM	AO/V CD	7 A /V	40 /V	40/1	C '1
2 x 60"	PREDATOR™	AO/X GP	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 10	71-020060002	70330	71501-2	70330PM	-	36
	71-020060003	70331	71502-2	70331PM	-	40
	71-020060004	70332	71503-2	70332PM	-	50
	71-020060005	70333	71504-2	70333PM	-	60
	71-020060006	70334	71505-2	70334PM	6926006	80
	71-020060008	70336	715056008-2	70336PM	6926008	120
	-	70338	-	70338PM	6926010	180
2 x 72"	PREDATOR™	AO/X GP	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 10	71-020072002	70342	71506-2	70342PM	-	36
49 10	71-020072003	70343	71507-2	70343PM	-	40
	71-020072004	70344	71508-2	70344PM	-	50
	71-020072005	70345	71509-2	70345PM	_	60
	71-020072006	70346	71510-2	70346PM	69271-2	80
	71-020072008	70348	7151008-2	70348PM	69273-2	120
	-	70350	-	70350PM	69275	180
0.1/0/0!!	DDED ATODEM	AO/V CD	7 A /V	4.0./V	40/1	C '1
2-1/2 x 60"	PREDATOR™	AO/X GP	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 10	71-025060002	70438	71546-2	70438PM	-	36
	71-025060003	70439	71547-2	70439PM	-	40
	71-025060004	70440	71548-2	70440PM	-	50
	71-025060005	70441	71549-2	70441PM	-	60
	71-025060006	70442	7154906-2	70442PM	69341	80
	71-025060008	70444	7154908-2	70444PM	69343	120
	-	70446	-	70446PM	69345	180
4 x 36"	PREDATOR™	AO/X GP	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 10	71-040036002	70762	71666-2	70762PM		36
, it dely 10	71-040036002	70763	71667-2	70763PM	_	40
	71-040036003	70764	71668-2	70763PM 70764PM	_	50
					<u>-</u>	
	71-040036005	70765	71669-2	70765PM	-	60
	71-040036006	70766	71670-2	70766PM	69510-2	80
	71-040036008	70768	716708-2	70768PM	69512-2	120
	-	70770	-	70770PM	69514-2	180

Benchstand Belts

4 x 60"	PREDATOR™	AO/X GP	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 10	71-040060002	70798	7168202-2	70798PM	= '	36
	71-040060003	70799	7168203-2	70799PM	-	40
	71-040060004	70800	7168204-2	70800PM	-	50
	71-040060005	70801	71684-2	70801PM	-	60
	71-040060006	70802	71685-2	70802PM	6952606-2	80
	71-040060008	70804	7168608-2	70804PM	69526008-2	120
	-	70806	-	70806PM	69526010-2	180
4 x 72"	PREDATOR™	AO/X GP	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 10	71-040072002	70810	716867202-2	70810PM	-	36
	71-040072003	70811	71687-2	70811PM	-	40
	71-040072004	70812	71688-2	70812PM	-	50
	71-040072005	70813	71689-1	70813PM	-	60
	71-040072006	70814	71690-2	70814PM	6949807206-2	80
	71-040072008	70816	716917208-2	70816PM	6949807208-2	120
	-	70818	-	70818PM	6949807210-2	180
6 x 48"	PREDATOR™	AO/X GP	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 10	71-060048001	70989	71745-2	70989PM	- '	24
	71-060048002	70990	71746-2	70990PM	-	36
	71-060048003	70991	71747-2	70991PM	-	40
	71-060048004	70992	71748-2	70992PM	-	50
	71-060048005	70993	71749-2	70993PM	-	60
	71-060048006	70994	71750-2	70994PM	69641-2	80
	71-060048007	70995	71750Z7-2	70995PM	69642-2	100
	71-060048008	70996	71750Z2-2	70996PM	69643-2	120
	-	70997	-	-	69644-2	150
	-	70998	-	_	69645-2	180

Backstand Belts

1 x 132"	PREDATOR™	AO/X GP	ZA/X	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 10	71-010132001	70197	-	71445-2	70197PM	-	24
	71-010132002	70198	71446-3	71446-2	70198PM	-	36
	71-010132003	70199	71447-3	71447-2	70199PM	-	40
	71-010132004	70200	71448-3	71448-2	70200PM	-	50
	71-010132005	70201	71449-3	71449-2	70201PM	-	60
	71-010132006	70202	71450-3	71450-2	70202PM	6920906	80
	71-010132007	70203	-	7145007-2	70203PM	6920907	100
	71-010132008	70204	-	7145008-2	70204PM	6920908	120
	-	70205	-	-	-	6920909	150
	=	70206	-	-	=	6920910	180
2 x 132"	PREDATOR™	AO/X GP	ZA/X	ZA/Y	AO/Y	AO/J	Grit
2 x 132" Pk Qty 10	PREDATOR™ 71-020132001	AO/X GP 70377	ZA/X -	ZA/Y 71520-2	AO/Y 70377PM	AO/J -	Grit 24
		,	ZA/X - 71521-3	,	1	AO/J - -	
	71-020132001	70377	- '	71520-2	70377PM	- '	24
	71-020132001 71-020132002	70377 70378	- 71521-3	71520-2 71521-2	70377PM 70378PM	- '	24 36
	71-020132001 71-020132002 71-020132003	70377 70378 70379	- 71521-3 71522-3	71520-2 71521-2 71522-2	70377PM 70378PM 70379PM	- ' - -	24 36 40
	71-020132001 71-020132002 71-020132003 71-020132004	70377 70378 70379 70380	- 71521-3 71522-3 71523-3	71520-2 71521-2 71522-2 71523-2	70377PM 70378PM 70379PM 70380PM	- ' - -	24 36 40 50
	71-020132001 71-020132002 71-020132003 71-020132004 71-020132005	70377 70378 70379 70380 70381	- 71521-3 71522-3 71523-3 71524-3	71520-2 71521-2 71522-2 71523-2 71524-2	70377PM 70378PM 70379PM 70380PM 70381PM	- - - -	24 36 40 50 60
	71-020132001 71-020132002 71-020132003 71-020132004 71-020132005 71-020132006	70377 70378 70379 70380 70381 70382	- 71521-3 71522-3 71523-3 71524-3	71520-2 71521-2 71522-2 71523-2 71524-2 71525-2	70377PM 70378PM 70379PM 70380PM 70381PM 70382PM	- - - - - - 69311-2	24 36 40 50 60 80
	71-020132001 71-020132002 71-020132003 71-020132004 71-020132005 71-020132006 71-020132007	70377 70378 70379 70380 70381 70382 70383	- 71521-3 71522-3 71523-3 71524-3 71525-3	71520-2 71521-2 71522-2 71523-2 71524-2 71525-2 71526-2	70377PM 70378PM 70379PM 70380PM 70381PM 70382PM 70383PM	- - - - - 69311-2 69312-2	24 36 40 50 60 80



Rac	kstand	Relta
Dut	Nərunu	ס וו טע

3 x 132"	PREDATOR™	AO/X GP	ZA/X	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 10	71-030132001	70641	-	7162001-2	70641PM	-	24
	71-030132002	70642	71621-3	71621-2	70642PM	-	36
	71-030132003	70643	71622-3	71622-2	70643PM	-	40
	71-030132004	70644	71623-3	71623-2	70644PM	-	50
	71-030132005	70645	71624-3	71624-2	70645PM	-	60
	71-030132006	70646	71625-3	71625-2	70646PM	69431-4	80
	71-030132007	70647	-	7162507-2	70647PM	69432-2	100
	71-030132008	70648	-	7162508-2	70648PM	69433-2	120
	-	70649	-	-	-	69434-2	150
	-	70650	-	-	-	69435-2	180
4 x 132"	PREDATOR™	AO/X GP	ZA/X	ZA/Y	AO/Y	AO/J	Grit
Pk Qty 10	71-040132001	70881	- A / A	7170501-2	70881PM	-	24
	71-040132001	70882	71706-3	71706-2	70882PM	_	36
	71-040132002	70883	71707-3	71707-2	70883PM	_	40
	71-040132003	70884	71708-3	71708-2	70884PM	_	50
	71-040132004	70885	71709-3	71709-2	70885PM	_	60
		70886				- 69571-2	80
	71-040132006		71710-3	71710-2	70886PM		
	71-040132007	70887	-	71712-2	70887PM	69572-2	100
	71-040132008	70888	-	71711-2	70888PM	69573-2	120
	-	70889	-	-	-	69574-2	150
	-	70890	-	-	-	69575-2	180
4 v 168"	- PRFNAT∩R™		- 71/Y	- 7.\/V	ΔΩ/V		
	- PREDATOR™ 71-040168001	AO/X GP	ZA/X	ZA/Y	AO/Y	AO/J	Grit
	71-040168001	AO/X GP 70917	- 1	7172101-2	70917PM		Grit 24
	71-040168001 71-040168002	AO/X GP 70917 70918	- 71721-3	7172101-2 71721-2	70917PM 70918PM	AO/J - -	Grit 24
4 x 168" Pk Qty 10	71-040168001 71-040168002 71-040168003	AO/X GP 70917 70918 70919	- 71721-3 71722-3	7172101-2 71721-2 71722-2	70917PM 70918PM 70919PM	AO/J - - -	Grit 24 36 40
	71-040168001 71-040168002 71-040168003 71-040168004	AO/X GP 70917 70918 70919 70920	- 71721-3 71722-3 71723-3	7172101-2 71721-2 71722-2 71723-2	70917PM 70918PM 70919PM 70920PM	AO/J - -	Grit 24 36 40 50
	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005	AO/X GP 70917 70918 70919 70920 70921	- 71721-3 71722-3 71723-3 71724-3	7172101-2 71721-2 71722-2 71723-2 71724-2	70917PM 70918PM 70919PM 70920PM 70921PM	AO/J - - - - -	Grit 24 36 40 50
	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006	AO/X GP 70917 70918 70919 70920 70921 70922	- 71721-3 71722-3 71723-3 71724-3 71725-3	7172101-2 71721-2 71722-2 71723-2 71724-2 71725-2	70917PM 70918PM 70919PM 70920PM 70921PM 70922PM	AO/J 6960168506-2	Grit 24 36 40 50 60
	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006 71-040168007	AO/X GP 70917 70918 70919 70920 70921 70922 70923	- 71721-3 71722-3 71723-3 71724-3	7172101-2 71721-2 71722-2 71723-2 71724-2 71725-2 71726-2	70917PM 70918PM 70919PM 70920PM 70921PM 70922PM 70923PM	AO/J 6960168506-2 6960168507-2	Grit 24 36 40 50 60 80
	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006	AO/X GP 70917 70918 70919 70920 70921 70922 70923 70924	- 71721-3 71722-3 71723-3 71724-3 71725-3	7172101-2 71721-2 71722-2 71723-2 71724-2 71725-2 71726-2 71727-2	70917PM 70918PM 70919PM 70920PM 70921PM 70922PM	AO/J 6960168506-2 6960168507-2 6960168508-2	Grif 24 36 40 50 60 80 100
	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006 71-040168007	AO/X GP 70917 70918 70919 70920 70921 70922 70923	- 71721-3 71722-3 71723-3 71724-3 71725-3	7172101-2 71721-2 71722-2 71723-2 71724-2 71725-2 71726-2	70917PM 70918PM 70919PM 70920PM 70921PM 70922PM 70923PM	AO/J 6960168506-2 6960168507-2	Grif 24 36 40 50 60 80 100 120
	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006 71-040168007	AO/X GP 70917 70918 70919 70920 70921 70922 70923 70924 70925	- 71721-3 71722-3 71723-3 71724-3 71725-3	7172101-2 71721-2 71722-2 71723-2 71724-2 71725-2 71726-2 71727-2	70917PM 70918PM 70919PM 70920PM 70921PM 70922PM 70923PM	AO/J 6960168506-2 6960168507-2 6960168508-2 6960168509-2	Grit 244 366 400 500 600 800 1200 1500 1800
Pk Qty 10	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006 71-040168008 -	AO/X GP 70917 70918 70919 70920 70921 70922 70923 70924 70925 70926	- 71721-3 71722-3 71723-3 71724-3 71725-3 - -	7172101-2 71721-2 71722-2 71723-2 71724-2 71725-2 71726-2 71727-2	70917PM 70918PM 70919PM 70920PM 70921PM 70922PM 70923PM 70924PM	AO/J 6960168506-2 6960168507-2 6960168508-2 6960168509-2 6960168510-2	Grif 244 366 400 500 600 800 1200 1500 1800 Grif 600 600 600 600 600 600 600 600 600 60
6 x 132"	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168007 71-040168008 PREDATOR™	AO/X GP 70917 70918 70919 70920 70921 70922 70923 70924 70925 70926	- 71721-3 71722-3 71723-3 71724-3 71725-3 - -	7172101-2 71721-2 71722-2 71723-2 71724-2 71725-2 71726-2 71727-2	70917PM 70918PM 70919PM 70920PM 70921PM 70922PM 70923PM 70924PM	AO/J 6960168506-2 6960168507-2 6960168508-2 6960168509-2 6960168510-2	Grif 244 366 400 500 600 800 1200 1500 1800 Grif 244
6 x 132"	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006 71-040168008 PREDATOR™ 71-060132001	AO/X GP 70917 70918 70919 70920 70921 70922 70923 70924 70925 70926 AO/X GP 7103601	- 71721-3 71722-3 71723-3 71724-3 71725-3 - - -	7172101-2 71721-2 71722-2 71723-2 71724-2 71725-2 71726-2 71727-2 -	70917PM 70918PM 70919PM 70920PM 70921PM 70922PM 70923PM 70924PM A0/Y 7103601PM	AO/J 6960168506-2 6960168507-2 6960168509-2 6960168510-2	Grit 244 366 Grit 244 366
6 x 132"	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006 71-040168008 PREDATOR™ 71-060132001 71-060132002 71-060132003	AO/X GP 70917 70918 70919 70920 70921 70922 70923 70924 70925 70926 AO/X GP 7103601 7103602 7103603	- 71721-3 71722-3 71723-3 71724-3 71725-3 717701-3 717702-3	7172101-2 71721-2 71721-2 71723-2 71724-2 71725-2 71726-2 71727-2 ZA/Y 717700-2 717701-2 717702-2	70917PM 70918PM 70919PM 70920PM 70921PM 70923PM 70923PM A0/Y 7103601PM 7103602PM	AO/J 6960168506-2 6960168507-2 6960168509-2 6960168510-2	Grit 244 366 400 1200 1500 1800 1800 1800 1800 1800 1800 18
6 x 132"	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006 71-040168008 PREDATOR™ 71-060132001 71-060132002 71-060132004	AO/X GP 70917 70918 70919 70920 70921 70922 70923 70924 70925 70926 AO/X GP 7103601 7103602 7103603 7103604	71721-3 71722-3 71723-3 71724-3 71725-3 717701-3 717702-3 717703-3	7172101-2 71721-2 71721-2 71723-2 71724-2 71725-2 71726-2 71727-2 7A/Y 717700-2 717701-2 717703-2	70917PM 70918PM 70918PM 70919PM 70920PM 70921PM 70923PM 70924PM A0/Y 7103601PM 7103602PM 7103603PM 7103604PM	AO/J 6960168506-2 6960168507-2 6960168509-2 6960168510-2 AO/J	Grit 244 366 400 500 800 1000 1200 1500 1800 Grit 400 500 500
6 x 132"	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006 71-040168008 PREDATOR™ 71-060132001 71-060132002 71-060132004 71-060132005	AO/X GP 70917 70918 70919 70920 70921 70922 70923 70924 70925 70926 AO/X GP 7103601 7103602 7103603 7103604 7103605	- 71721-3 71722-3 71723-3 71724-3 71725-3 717701-3 717702-3 717703-3 717704-3	7172101-2 71721-2 71721-2 71723-2 71724-2 71725-2 71726-2 71727-2 ZA/Y 717700-2 717701-2 717702-2 717703-2 717704-2	70917PM 70918PM 70918PM 70919PM 70920PM 70921PM 70923PM 70924PM A0/Y 7103601PM 7103603PM 7103604PM 7103605PM	AO/J 6960168506-2 6960168507-2 6960168509-2 6960168510-2 AO/J	Grif 244 366 400 500 1800 1800 1800 1800 1800 1800 180
6 x 132"	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006 71-040168008 PREDATOR™ 71-060132001 71-060132002 71-060132004 71-060132005 71-060132006	AO/X GP 70917 70918 70919 70920 70921 70922 70923 70924 70925 70926 AO/X GP 7103601 7103602 7103603 7103604 7103605 71037	- 71721-3 71722-3 71723-3 71724-3 71725-3	7172101-2 71721-2 71721-2 71723-2 71724-2 71725-2 71726-2 71727-2 ZA/Y 717700-2 717702-2 717703-2 717704-2 717705-2	70917PM 70918PM 70918PM 70919PM 70920PM 70921PM 70922PM 70923PM 70924PM A0/Y 7103601PM 7103603PM 7103604PM 7103605PM 71037PM	AO/J 6960168506-2 6960168507-2 6960168509-2 6960168510-2 AO/J 69671-2	Grif 244 366 600 1200 1500 1800 1200 1500 1800 1800 1800 1800 1800 1800 18
6 x 132"	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006 71-040168008 PREDATOR™ 71-060132001 71-060132002 71-060132004 71-060132006 71-060132007	AO/X GP 70917 70918 70919 70920 70921 70922 70923 70924 70925 70926 AO/X GP 7103601 7103602 7103603 7103604 7103605 71037 71038	- 71721-3 71722-3 71723-3 71724-3 71725-3	7172101-2 71721-2 71721-2 71722-2 71723-2 71724-2 71725-2 71726-2 71727-2 717700-2 717701-2 717703-2 717704-2 717705-2 717706-2	70917PM 70918PM 70919PM 70920PM 70921PM 70922PM 70923PM 70924PM A0/Y 7103601PM 7103602PM 7103603PM 7103604PM 7103605PM 71037PM 71038PM	A0/J 6960168506-2 6960168507-2 6960168509-2 6960168510-2 A0/J 69671-2 69672-2	Grif 24 36 40 500 120 1500 1800 1200 1500 1800 1800 1800 1800 1800 1800 18
6 x 132"	71-040168001 71-040168002 71-040168003 71-040168004 71-040168005 71-040168006 71-040168008 PREDATOR™ 71-060132001 71-060132002 71-060132004 71-060132005 71-060132006	AO/X GP 70917 70918 70919 70920 70921 70922 70923 70924 70925 70926 AO/X GP 7103601 7103602 7103604 7103605 71037	- 71721-3 71722-3 71723-3 71724-3 71725-3	7172101-2 71721-2 71721-2 71723-2 71724-2 71725-2 71726-2 71727-2 ZA/Y 717700-2 717702-2 717703-2 717704-2 717705-2	70917PM 70918PM 70918PM 70919PM 70920PM 70921PM 70922PM 70923PM 70924PM A0/Y 7103601PM 7103603PM 7103604PM 7103605PM 71037PM	AO/J 6960168506-2 6960168507-2 6960168509-2 6960168510-2 AO/J 69671-2	Grit 24 36 40 50

SURFACE
CONDITIONING CLEAN & FINISH FLAP WHEELS SHEETS

REAL S Wide Belts

36 x 75"	$PREDATOR^TM$	AO/X GP	AO/CG	ZA/Y	AO/Y	Grit
Pk Qty 3 (24-60 Grit)	71-360075001	72228	- '	72228-10	72228PM	24
Pk Qty 5 (80-400 Grit)	71-360075002	72229	-	72229-10	72229PM	36
	71-360075003	72230	-	72230-10	72230PM	40
	71-360075004	72231	-	72231-10	72231PM	50
	71-360075005	72232	-	72232-10	72232PM	60
	71-360075006	72233	40367506	72233-10	72233PM	80
	71-360075007	72234	-	72234-10	72234PM	100
	71-360075008	72235	40367508	72235-10	72235PM	120
	-	72236	-	-	72236PM	150
	-	72237	40367510	-	72237PM	180
	-	72238	-	-	-	220
	-	72239	-	-	-	240
	-	7223914	-	-	-	320
	-	7223915	-	-	-	400

37 x 60"	PREDATOR™	AO/X GP	AO/CG	ZA/Y	AO/Y	Grit
Pk Qty 3 (24-60 Grit)	71-370060001	72280	-	72280-10	72280PM	24
Pk Qty 5 (80-400 Grit)	71-370060002	72281	-	72281-10	72281PM	36
	71-370060003	72282	-	72282-10	72282PM	40
	71-370060004	72283	-	72283-10	72283PM	50
	71-370060005	72284	-	72284-10	72284PM	60
	71-370060006	72285	40376006	72285-10	72285PM	80
	71-370060007	72286	-	72286-10	72286PM	100
	71-370060008	72287	40376008	72287-10	72287PM	120
	-	72288	-	-	72288PM	150
	-	72289	40376010	-	72289PM	180
	-	72290	-	-	-	220
	-	72291	-	-	-	240
	-	72292	-	-	-	320
	-	72293	-	-	-	400

37 x 75"	PREDATOR™	AO/X GP	AO/CG	ZA/Y	AO/Y	Grit
Pk Qty 3 (24-60 Grit)	71-370075001	72303	<u>-</u>	72303-10	72303PM	24
Pk Qty 5 (80-400 Grit)	71-370075002	72304	-	72304-10	72304PM	36
	71-370075003	72305	-	72305-10	72305PM	40
	71-370075004	72306	-	72306-10	72306PM	50
	71-370075005	72307	-	72307-10	72307PM	60
	71-370075006	72308	40377506	72308-10	72308PM	80
	71-370075007	72309	-	72309-10	72309PM	100
	71-370075008	72310	40377508	72310-10	72310PM	120
	-	72311	-	-	72311PM	150
	-	72312	40377510	-	72312PM	180
	-	72312GR	-	-	-	220
	-	72313	-	-	-	240
	-	7231214	-	-	-	320
	-	72314Z2-MR	=	-	-	400

Wide Belts

52 x 75"	PREDATOR™	AO/X GP	AO/CG	ZA/Y	AO/Y	Grit
Pk Qty 3 (24-60 Grit)	71-520075001	72436	-	72436-10	72436PM	24
Pk Qty 5 (80-400 Grit)	71-520075002	72437	-	72437-10	72437PM	36
	71-520075003	72438	-	72438-10	72438PM	40
	71-520075004	72439	-	72439-10	72439PM	50
	71-520075005	72440	-	72440-10	72440PM	60
	71-520075006	72441	40527506	72441-10	72441PM	80
	71-520075007	72442	-	72442-10	72442PM	100
	71-520075008	72443	40527508	72443-10	72443PM	120
	-	72444	-	-	72444PM	150
	-	72445	40527510	-	72445PM	180
	-	72446	-	-	-	220
	-	724457512	-	-	-	240
	-	724457514	=	-	=	320
	-	724457515	-	-	-	400

52 x 103"	$PREDATOR^{TM}$	AO/X GP	AO/CG	ZA/Y	AO/Y	Grit
Pk Qty 3 (24-60 Grit)	71-520103001	72447	- ·	72447-10	72447PM	24
Pk Qty 5 (80-400 Grit)	71-520103002	72448	-	72448-10	72448PM	36
	71-520103003	72449	-	72449-10	72449PM	40
	71-520103004	72450	_	72450-10	72450PM	50
	71-520103005	72451	-	72451-10	72451PM	60
	71-520103006	72452	405210306	72452-10	72452PM	80
	71-520103007	72453	-	72453-10	72453PM	100
	71-520103008	72454	405210308	72454-10	72454PM	120
	-	72455	-	-	72455PM	150
	-	72456	405210310	-	72456PM	180
	-	72457	-	-	-	220
	-	72458	-	-	-	240
	-	72459	-	-	-	320
	_	72460	_	-	-	400

SIIRFACE CONDITIONING

APPLICATION

Mild steel fabricators use nonwoven materials in many product forms. Discs and belts are most commonly used for rust and mill scale removal, general deburring and refining coarse scratches before painting. Against a challenging range of applications, an equal offering grades, backings and grains are needed. The key to your application success is matching the correct choice in surface conditioning material.

SOLUTION

The use of heavy duty products will produce a faster cut and longer life than ordinary nonwoven discs during mill scale removal scratch refinement. Also available is a wide range of surface conditioning belts, including no stretch and extra flexible to fit all application requirements.



Stainless Steel

APPLICATION

Stainless steel fabricators commonly use belts to achieve a desired finish on parts. Attaining a #4, #6, brushed or mirrored finish can be tiresome and involves many steps.

SOLUTION

The conforming structure of nonwoven abrasives provides a consistent finish without removing excessive material, unlike coated abrasives. The wide range of surface conditioning products absorb heat exceptionally well, due to the open structure of the material. From working on open, flat areas with discs, to inside corner weld clean up with airfile belts, there is a product specifically designed to handle the cut and durability needed for your application.

Aluminum

APPLICATION

Scratch patterns are often removed before machined parts are painted. Some parts may be small or intricate and need a small diameter disc to perform the required operation. As small as parts may be, excessive heat is still generated and can cause loading. Shortened life from loading is common in rotary applications using quick-loks and discs.

SOLUTION

Performance Coated surface conditioning products will reduce loading in all product forms, such as belts, quick-loks and discs. Applications that create the most heat, like quick-lok discs, will benefit greatly from Performance Coating.

Performance Coating available on select nonwoven products.

Airfile Belts



- Size range of 1/8 1" width; up to 30" length
- Premium surface conditioning material evenly coated with grit from material surface to base
- Even coating provides improved performance in deburring and edge applications
- Low stretch material for applications with high belt tension
- Performs a wide variety of tasks including deburring, flat finishing and finishing on edges
- Can be used on a variety of metals

1/4 x 18"	ltem	Grade
Pk Qty 20	630030181	A CRS
	630030182	A MED
	630030188	A FIN
	630030183	A VFN
	630030184	S UFN
1/4 x 24"	ltem	Grade
Pk Qty 20	630030241	A CRS
	630030242	A MED
	630030245	A FIN
	630030243	A VFN
	630030244	S UFN
3/8 x 13"	Item	Grade
Pk Qty 20	630040131	A CRS
	630040132	A MED
	630040138	A FIN
	630040133	A VFN
	630040134	A UFN
1/2 10"	i.a	د السام
1/2 x 12"	Item	Grade
Pk Qty 20	630050121	A CRS
	630050122	A MED
	630050128	A FIN
	630050123	A VFN
	630050124	S UFN
1/2 x 18"	ltem	Grade
1		
Pk Qty 20	630050181	A CRS
1	630050181 630050182	A CRS A MED
1	630050181 630050182 630050188	A CRS A MED A FIN
1	630050181 630050182 630050188 630050183	A CRS A MED A FIN A VFN
1	630050181 630050182 630050188	A CRS A MED A FIN
1	630050181 630050182 630050188 630050183	A CRS A MED A FIN A VFN
Pk Qty 20	630050181 630050182 630050188 630050183 630050184	A CRS A MED A FIN A VFN S UFN
Pk Qty 20	630050181 630050182 630050188 630050183 630050184	A CRS A MED A FIN A VFN S UFN Grade
Pk Qty 20	630050181 630050182 630050188 630050183 630050184 Item 630050241	A CRS A MED A FIN A VFN S UFN Grade A CRS
Pk Qty 20	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN
Pk Qty 20	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050248	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN
Pk Qty 20	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050248 630050243	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN
Pk Qty 20 1/2 x 24" Pk Qty 20	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050248 630050243 630050244	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN
Pk Qty 20 1/2 x 24" Pk Qty 20 3/4 x 18"	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050248 630050243 630050244 Item	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade
Pk Qty 20 1/2 x 24" Pk Qty 20 3/4 x 18"	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050248 630050243 630050244 Item 630080181	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS
Pk Qty 20 1/2 x 24" Pk Qty 20 3/4 x 18"	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050248 630050243 630050244 Item 630080181 630080181	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A MED
Pk Qty 20 1/2 x 24" Pk Qty 20 3/4 x 18"	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050248 630050243 630050244 Item 630080181 630080182 630080185	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A CRS A MED A FIN A CRS A MED A FIN
1/2 x 24" Pk Qty 20 3/4 x 18" Pk Qty 20	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050248 630050244 Item 630080181 630080182 630080185 630080183	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN A CRS A MED A FIN A VFN S UFN
1/2 x 24" Pk Qty 20 3/4 x 18" Pk Qty 20 3/4 x 20-1/2"	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050248 630050243 630050244 Item 630080181 630080182 630080185 630080183 630080184 Item	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN S UFN S UFN S UFN
1/2 x 24" Pk Qty 20 3/4 x 18" Pk Qty 20	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050243 630050244 Item 630080181 630080182 630080185 630080183 630080184	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN S UFN Grade CRS A MED A FIN CRS A WED A FIN CRS A
1/2 x 24" Pk Qty 20 3/4 x 18" Pk Qty 20 3/4 x 20-1/2"	630050181 630050182 630050188 630050184 Item 630050241 630050242 630050248 630050243 630050244 Item 630080181 630080182 630080185 630080183 630080184 Item 630080184	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN
1/2 x 24" Pk Qty 20 3/4 x 18" Pk Qty 20 3/4 x 20-1/2"	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050243 630050244 Item 630080181 630080185 630080183 630080184 Item 6300802051 6300802052	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A FIN A VFN S UFN
1/2 x 24" Pk Qty 20 3/4 x 18" Pk Qty 20 3/4 x 20-1/2"	630050181 630050182 630050188 630050183 630050184 Item 630050241 630050242 630050243 630050244 Item 630080181 630080185 630080185 630080184 Item 6300802051 6300802052 6300802058	A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN S UFN

SURFACE CONDITIONING Portable Belts



- Size range of 2-1/2 4" width; up to 24" length
- Premium surface conditioning material is evenly coated with grit from the material surface to the base
- Low stretch material for applications with high belt tension
- Great for finishing and blending, surface preparation, gasket removal, mild cleaning, #3 and #4 finishing on stainless steel

1 x 18"	ltem	Grade
Pk Qty 10	63010181	A CRS
	63010182	A MED
	63010188	A FIN
	63010183	A VFN
	63010184	S UFN
3 x 21"	Item	Grade
Pk Qty 10	64030211	A CRS
•	64030212	A MED
	64030218	A FIN
	64030213	A VFN
	64030214	S UFN
3 x 24"	ltem	Grade
Pk Qty 10	64030241	A CRS
	64030242	A MED
	64030248	A FIN
	64030243	A VFN
	64030244	S UFN
3-1/2 x 15-1/2"	Item	Grade
Pk Qty 10	6403501551	A CRS
The Gry To	6403501552	A MED
	6403501555	A FIN
	6403501553	A VFN
	6403501554	S UFN
4 x 24"	ltem	Grade
Pk Qty 10	64040241	A CRS
	64040242	A MED
	64040248	A FIN
	64040243	A VFN
	64040244	S UFN

Benchstand Belts



- Size range of 3/4 6" width; 36 72" length
- Even coating provides improved performance in deburring and edge applications
- Performs a wide variety of tasks including deburring, flat finishing and finishing on edges
- Can be used on a variety of metals

1 x 42"	ltem	Grade
Pk Qty 10	64010421	A CRS
	64010422	A MED
	64010428	A FIN
	64010423	A VFN
	64010424	S UFN
2 x 48"	ltem	Grade
Pk Qty 10	64020481	A CRS
	64020482	A MED
	64020488	A FIN
	64020483	A VFN
	64020484	S UFN
0 (0"	li .	c I
2 x 60"	ltem	Grade
Pk Qty 10	64020601	A CRS
	64020602	A MED
	64020608	A FIN
	64020603	A VFN
	64020604	S UFN
4 x 60"	la	Cunda
	Item	Grade
Pk Qty 10	64040601	A CRS
	64040602	A MED
	64040608	A FIN
	64040603	A VFN
	64040604	S UFN
6 x 48"	ltem	Grade
Pk Qty 5	64060481	A CRS
	64060482	A MED
	64060488	A FIN
	64060483	A VFN
	64060484	S UFN

SURFACE ON Backstand Belts



- Size range of 1 10" width; 70-1/2 335" length
- Premium surface conditioning material is evenly coated with grit from the material surface to the base
- Low stretch material for applications with high belt tension
- Great for finishing and blending, surface preparation, gasket removal, mild cleaning, #3 and #4 finishing on stainless steel

1 x 132"	Item	Grade
Pk Qty 5	64011321	A CRS
Th Qty 3	64011322	A MED
	64011328	A FIN
	64011323	A VFN
	64011324	S UFN
	0.101102.1	0 01 11
2 x 132"	Item	Grade
Pk Qty 5	64021321	A CRS
	64021322	A MED
	64021328	A FIN
	64021323	A VFN
	64021324	S UFN
0 100!!	1.	0 1
3 x 132"	Item	Grade
Pk Qty 5	64031321	A CRS
	64031322	A MED
	64031328	A FIN
	64031323	A VFN
	64031324	S UFN
4 170"	14	C
4 x 168"	Item	Grade
Pk Qty 5	64041681	A CRS
	64041682	A MED
	64041688	A FIN
	64041683	A VFN
	64041684	S UFN
6 x 132"	Item	Grade
Pk Qtv 5	64061321	A CRS
7 K QLY - 3	64061322	A MED
	64061328	A FIN
	64061323	A VFN
	64061324	S UFN

Wide Belts

Item 64360751 64360752 64360758 64360753 64360754 Item 64370601 64370602 64370608 64370603	Grade A CRS A MED A FIN A VFN S UFN Grade A CRS A MED A FIN A VFN
64360752 64360758 64360753 64360754 Item 64370601 64370602 64370608	A MED A FIN A VFN S UFN Grade A CRS A MED A FIN
64360758 64360753 64360754 Item 64370601 64370602 64370608	A FIN A VFN S UFN Grade A CRS A MED A FIN
64360753 64360754 Item 64370601 64370602 64370608	A VFN S UFN Grade A CRS A MED A FIN
64360754 Item 64370601 64370602 64370608	Grade A CRS A MED A FIN
Item 64370601 64370602 64370608	Grade A CRS A MED A FIN
64370601 64370602 64370608	A CRS A MED A FIN
64370601 64370602 64370608	A CRS A MED A FIN
64370602 64370608	A MED A FIN
64370608	A FIN
64370603	Δ V/FNI
	/\ VI IN
64370604	S UFN
ltem	Grade
64370751	A CRS
64370752	A MED
64370758	A A FIN
64370753	A VFN
64370754	S UFN
	64370751 64370752 64370758 64370753

- Size range of 12 52" width; any length
- Even coating provides improved performance in deburring and edge applications
- Performs a wide variety of tasks including deburring, flat finishing and finishing on edges
- Can be used on a variety of metals



PREDATOR™ AP Quick-Lok Discs

2"	Type R	Type S	Grade
Pk Qty 50	59340	59240	XCRS
3"	Type R	Type S	Grade
Pk Qty 25	59360	59260	XCRS

- Durable material
- Excellent finishing
- Leading performance on all metals

Performance Coated PREDATOR™ AP Quick-Lok Discs

2"	Type R	Type S	Grade
Pk Qty 50	59340W	59240W	XCRS
3"	Type R	Type S	Grade
Pk Qty 25	59360W	59260W	XCRS

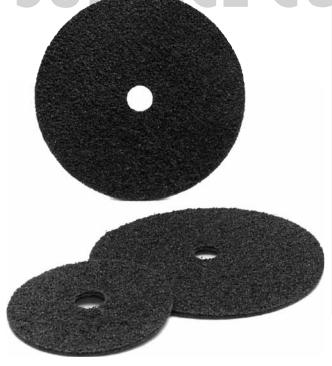


Quick-Lok Disc Holders

2 x 1/4"	Type R	Type S	Max RPM
Pk Qty 1	50259	50253	30,000
3 x 1/4"	Type R	Type S	Max RPM
Pk Qty 1	50260	50254	20,000

PREDATOR™ AP Hook & Loop Discs

4-1/2"	ltem	Grade
Pk Qty 25	62013HD-2	XCRS
	_	
4-1/2 x 7/8"	ltem	Grade
Pk Qty 25	62013CM-2	XCRS
5"	ltem	Grade
Pk Qty 10	62016HD-2	XCRS
5 x 7/8"	ltem	Grade
Pk Qty 10	62016CM-2	XCRS
Pk Qty 10	62016CM-2	XCRS
7"	62016CM-2	XCRS Grade
7"	ltem	Grade
7"	ltem	Grade



- New design keeps disc firmly in place
- Less vibration
- Centers disc on pad



Performance Coated PREDATOR™ AP Hook & Loop Discs

4-1/2" Item	Grade
Pk Qty 25 62013HI	D-2W XCRS
4-1/2 x 7/8" Item	Grade
Pk Qty 25 62013Cl	M-2W XCRS
5" Item	Grade
Pk Qty 10 62016HI	D-2W XCRS
_	
5 x 7/8" Item	Grade
Pk Qty 10 62016CI	M-2W XCRS
7" Item	Grade
Pk Qty 10 62023H	D-2W XCRS
7 x 7/8" Item	Grade
Pk Qty 10 62023H	D-1W XCRS

PREDATOR™ AP Disc Holders Pk Qty 1

Size	ltem	Max RPM
4-1/2 x 5/8"-11	53904Z3-3	12,000
5 x 5/8"-11	53905Z1-3	10,000
7 x 5/8"-11	53907Z3	6,000

SURFACE CONDITIONING Quick-Lok Discs



- Evenly coated with grit from material surface to the base
- Even coating provides improved performance in deburring and edge applications
- Material resists loading and over-cutting
- Used on a variety of different metals

1"	Type R	Type S	Grade
Pk Qty 100	59311	59211	A CRS
	59312	59212	A MED
	59315	59215	A FIN
	59313	59213	A VFN
1-1/2"	Type R	Type S	Grade
Pk Qty 100	59321	59221	A CRS
	59322	59222	A MED
	59325	59225	A FIN
	59323	59223	A VFN
2"	Type R	Type S	Grade
Pk Qty 50	59341	59241	A CRS
	59342	59242	A MED
	59345	59245	A FIN
	59343	59243	A VFN
	59344	59244	S UFN
2" HD	Type R	Type S	Grade
Pk Qty 50	59341CM	59241CM	A CRS
	59342HD	59242HD	A MED
	59342CM	59242CM	X-CRS
3"	Type R	Type S	Grade
Pk Qty 25	59361	59261	A CRS
	59362	59262	A MED
	59365	59265	A FIN
	59363	59263	A VFN
	59364-1	59263-1	S UFN
3" HD	Type R	Type S	Grade
Pk Qty 25	59361CM	59261CM	A CRS
	59362HD	59262HD	A MED
	59362CM	59262CM	X-CRS
4"	Type R	Type S	Grade
Pk Qty 25	59381	59281	A CRS
	59382	59282	A MED
	59385	59285	A FIN
	59383	59283	A VFN



Quick-Lok Disc Holders

Pk Qty

Size	Type R	Type S	Max RPM
1 x 1/4"	50257	50251	40,000
1-1/2 x 1/4"	50258	50252	30,000
2 x 1/4"	50259	50253	30,000
3 x 1/4"	50260	50254	20,000
4 x 1/4"	50261	50255	10,000

Hook & Loop Discs

3"	ltem	Grade
Pk Qty 25	62007	CRS
	62008	MED
	62008-5	FIN
	62009	VFN
4"	ltem	Grade
Pk Qty 25	62010	CRS
	62011	MED
	62011-5	FIN
	62012	VFN
4" HD	ltem	Grade
Pk Qty 25	62010CM	CRS
	62011HD	MED
	62011CM	XTRA CRS
4-1/2"	ltem	Grade
Pk Qty 25	62013	CRS
	62014	MED
	62014-5	FIN
	62015	VFN
4-1/2" HD	ltem	Grade
Pk Qty 25	62013CM	CRS
	62014HD	MED
	62014CM	XTRA CRS
5"	ltem	Grade
Pk Qty 10	62016	CRS
	62017	MED
	62017-5	FIN
	62018	VFN
5" HD	ltem	Grade
Pk Qty 10	62016CM	CRS





- Hook & loop backing provides quick and easy disc attachment and removal
- Use on die grinders and right angle grinders in conjunction with disc holders



Additional items are available. Contact us for details.

Hook & Loop Disc Holders Pk Qty 1

62017HD

62017CM

Size	ltem	Max RPM
3 X 1/4"	53903	18,000
4 X 1/4"	53904	10,000
4 X 5/8"-11	53904SH	4,800
4-1/2 X 5/8"-11	53904Z3	10,000
5 X 5/16"-24	53905	10,000
5 X 5/8"-11	53905Z1	4,800
6 X 5/16"-24	53906	10,000
6 X 5/8"-11	53906SH	4,800
7 X 5/8"-11	53907	6,000

SHEETS

MED

XTRA CRS



2"	Type R	Type S	Grade
Pk Qty 50	53376	53343	A MED
	53377	53344	A FIN
	53378	53345	A VFN
3"	Type R	Type S	Grade
3" Pk Qty 25	Type R 53379	Type S 53346	Grade A MED
_			

- Made of nylon fibre mesh coated with grit and resins
- Mesh is bonded to a backing for support
- Locking button centers disc on tool with a twist
- Ideal for decorative finishing on flat surfaces
- Use on portable tools in conjunction with Quick-Lok Holders



- Aluminum oxide and silicon carbide grits available
- Used individually or stacked for varying face widths
- May be used with hook & loop disc holder
- Highly conformable to easily finish the hard-to-reach areas of a work piece

Spindle Mounted Finishing Discs

4 x 1/2"	Item	Grade	Max RPM
Pk Qty 25	53122	A MED	6,000
	53123	A FIN	6,000
	53124	A VFN	6,000
6 x 1/2"	ltem	Grade	Max RPM
Pk Qty 25	53136	A MED	3,600
	53137	A FIN	3,600
	53138	A VFN	3,600
8 x 1/2"	Item	Grade	Max RPM
8 x 1/2" Pk Qty 25	Item 53150	Grade A MED	Max RPM 2,700
	53150	A MED	2,700
Pk Qty 25	53150 53151	A MED A FIN	2,700 2,700
	53150 53151	A MED A FIN	2,700 2,700
Pk Qty 25	53150 53151 53152	A MED A FIN A VFN	2,700 2,700 2,700
Pk Qty 25	53150 53151 53152 Item	A MED A FIN A VFN Grade	2,700 2,700 2,700 Max RPM

Separate of the separate of th

Alternating flaps of nonwoven and coated abrasive

- Breaks down evenly providing consistent finish
- Smooth and quiet in operation



- Rolls made of nylon fibres, resins and abrasive grains
- May be used wet or dry
- Use by hand or with vibratory sanders
- Cleaning, finishing, deburring of metals and plastics

Interleaf Mounted Flap Wheels

2 x 1 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	54123	120	15,000
	54124	180	15,000
	54125	320	15,000
3 x 1 x 1/4"	ltem	Grit	Max RPM
Pk Qty 5	54131	120	8,600
	54132	180	8,600
	54133	320	8,600
3 x 2 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	54139	120	8,600
Pk Qty 5	54140	180	8,600
Pk Qty 5	54141	320	8,600

- Used for metal finishing, oxidation and coating removal
- Ideal for uneven surfaces or flat areas
- Decorative finishes on a variety of different metals

Clean & Finish Flap Wheels

2 x 1 x 1/4"	ltem	Grade	Max RPM
Pk Qty 10	54020103	A MED	15,000
	54020105	A VFN	15,000
	54020107	S ULF	15,000
3 x 2 x 1/4"	ltem	Grade	Max RPM
3 x 2 x 1/4" Pk Qty 10	Item 54030203	Grade A MED	Max RPM 12,000

- Product conforms to shape of work piece
- Breaks down evenly providing consistent finish
- Smooth and quiet in operation

Finishing Rolls

4" x 30 ft.	ltem	Grade
Pk Qty 1	53046	A MED
	53047	A FIN
	53048	A VFN
	53050	S VFN
	53051	S ULF



- Made of nylon fibres, resins and abrasive grains
- May be used wet or dry

Handpad Holder

Pk Qty 1

3-1/8 x 5-5/8"

Item

6 x 9" Handpads

Tan	ltem	Grade	Case Qty
Pk Qty 1 Case	07440	A MED	60
White	ltem	Grade	Case Qty
Pk Qty 1 Case	07444	N-ABR	60
Maroon	ltem	Grade	Case Qty
Pk Qty 1 Case	07447	A VFN	60
Gray	Item	Grade	Case Qty
Pk Qty 1 Case	07448	S ULF	60
Green	ltem	Grade	Case Qty
Pk Qty 1 Case	07451	AL SIL	60
Black	ltem	Grade	Case Qty
Pk Qty 1 Case	07460	S MED	40
Variety	ltem	Grade	Case Qty
Pk Qty 1 Case	074391	All	6



- Hard wheels best suited for deburring
- · Soft wheels for finishing
- Silicon carbide and aluminum oxide grains

Unitized Wheels

1 x 1 x 3/16"	Item	Grade	Max RPM
Pk Qty 50	54489	8A-CRS	30,000
2 x 1/4 x 1/4"	ltem	Grade	Max RPM
Pk Qty 60	544897	2S-FN	18,000
	54490	2A-MED	18,000
	544903	8A-MED	18,000
3 x 1/4 x 1/4"	ltem	Grade	Max RPM
Pk Qty 40	54493	2S-FN	12,000
	54492	8A-MED	12,000

Convolute Deburring Wheels

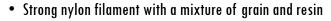
6 x 1 x 1"	ltem	Grade	Max RPM
Pk Qty 3	54550	7S-FN	6,000
	54792	8S-FN	6,000
	54793	9S-FN	6,000
	54795	9S-MED	6,000
	54711	5A-FN	6,000
	54710	5A-MED	6,000

- Deburring flashings, threads or sharp edges
- Blending alloys
- Finishing and deburring aircraft and automotive parts

ARCSTRIP™ Discs







Uniform distribution of grit provides a consistent finish

ARCSTRIP™ Quick-Lok Discs

2"	Type R	Grade	Max RPM
Pk Qty 25	0733-0201	S XCS	25,000
3"	Type R	Grade	Max RPM
Pk Qty 25	0733-0301	S XCS	20,000



Depressed Center ARCSTRIP™ Discs

4 x 5/8"	ltem	Grade	Max RPM
Pk Qty 10	0732-0406	S XCS	12,000
4-1/2 x 7/8"	ltem	Grade	Max RPM
Pk Qty 10	0732-0458	S XCS	11,000
5 x 7/8"	ltem	Grade	Max RPM
Pk Qty 10	0732-0508	S XCS	10,000
7 x 7/8"	ltem	Grade	Max RPM
Pk Qty 10	0732-0708	S XCS	8,600



- 100% X-Flexed Egyptian cotton especially made for mounted flap wheels
- Balanced construction gives the wheels resilience to pressure at high RPM
- Blending, finishing and deburring on very tight areas
- Cleans burrs and threads

Mounted Shank

3/4 x 5/8 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	11130	60	35,000
	11131	80	35,000
	11133 11135	120 180	35,000 35,000
	11133	100	33,000
3/4 x 3/4 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	11139Z4	60	35,000
	11139Z5	80	35,000
	11139Z54	120	35,000
	11139Z56	180	35,000
1 x 5/8 x 1/4"	Item	Grit	Max RPM
Pk Qty 10	11156	60	30,000
	11157	80	30,000
	11159	120	30,000
	11161	180	30,000
	11163	240	30,000
	11165	320	30,000
1 x 1 x 1/4"	Item	Grit	Max RPM
Pk Qty 10	11169	60	30,000
	11170	80	30,000
	11172	120	30,000
	11174	180	30,000
	11176	240	30,000
	11178	320	30,000
1-1/2 x 1/2 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	11208	60	25,000
	11209	80	25,000
	11211	120	25,000
	11213	180	25,000
	11215 11217	240 320	25,000 25,000
	11211	320	23,000
1-1/2 x 1 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	11234	60	25,000
	11235	80	25,000
	11237	120	25,000
	11239	180	25,000
	11241	240	25,000
	11243	320	25,000
2 x 1/2 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	11260	60	25,000
	11261	80	25,000
	11263	120	25,000
	11265 11267	180 240	25,000 25,000
	11269	320	25,000
	00		_5,000
2 x 3/4 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	11273	60	25,000
	11274	80	25,000
	11276	120	25,000
	11278	180	25,000
	11280 11282	240 320	25,000
	11202	320	25,000





- Extremely high heat-resistant epoxy
- Material easily conforms to contours
- Works great on non-ferrous and ferrous metals

mooniou .	JIIAIII		
2 x 1 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	11286	60	25,000
	11287	80	25,000
	11289	120	25,000
	11291	180	25,000
	11293	240	25,000
	11295	320	25,000
2 x 1-1/2 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	11299	60	25,000
	11300	80	25,000
	11302	120	25,000
	11304	180	25,000
	11306	240	25,000
	11308	320	25,000
0.1/0 1 1/4"	1.	C '1	44 DD14
2-1/2 x 1 x 1/4"	Item	Grit	Max RPM
Pk Qty 10	11338	60	20,000
	11339	80	20,000
	11341	120	20,000
	11343	180	20,000
	11345	240	20,000
	11347	320	20,000
2-1/2 x 1-1/2 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	11351	60	20,000
PK QIY IU	11352	80	20,000
	11354	120	20,000
	11356	180	20,000
	11358	240	20,000
	11360	320	20,000
3 x 1 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	11390	60	20,000
	11391	80	20,000
	11393	120	20,000
	11395	180	20,000
	11397	240	20,000
	11399	320	20,000
2 v 1 1/2 v 1/4"	ltom	Grit	May DDM
3 x 1-1/2 x 1/4"	Item		Max RPM
Pk Qty 10	11403	60	12,000
	11404	80	12,000
	11406 11408	120 180	12,000
	11410	240	12,000 12,000
	11412	320	12,000
	11-116	320	12,000
3 x 2 x 1/4"	ltem	Grit	Max RPM
Pk Qty 10	11416	60	9,000
,	11417	80	9,000
	11419	120	9,000
	11421	180	9,000
	11423	240	9,000
	11425	320	9,000
-	-	-	- ,

BELTS

SURFACE
CONDITIONING CLEAN & FINISH FLAP WHEELS



- No tooling change for the operator
- Extremely high heat-resistant epoxy
- Balanced construction provides resilience to pressure
- Material easily conforms to contours
- Blending, finishing and deburring on very tight areas
- Cleans burrs and threads

Threaded Shank

1 x 5/8 x 1/4"-20	ltem	Grit	Max RPM
Pk Qty 10	12137	60	30,000
	12138	80	30,000
	12140	120	30,000
	12142	180	30,000
1 x 1 x 1/4"-20	ltem	Grit	Max RPM
Pk Qty 10	12150	60	30,000
	12151	80	30,000
	12153	120	30,000
	12155	180	30,000
1-1/2 x 1/2 x 1/4"-20	ltem	Grit	Max RPM
Pk Qty 10	12163	60	25,000
	12164	80	25,000
	12166	120	25,000
	12168	180	25,000
1-1/2 x 1 x 1/4"-20	ltem	Grit	Max RPM
Pk Qty 10	12189	60	25,000
	12190	80	25,000
	12192	120	25,000
	12194	180	25,000
		C '.	M DDM
2 x 1/2 x 1/4"-20	ltem	Grit	Max RPM
2 x 1/2 x 1/4"-20 Pk Qty 10	12215	60 60	25,000
	12215	60	25,000
	12215 12216	60 80	25,000 25,000
	12215 12216 12218	60 80 120	25,000 25,000 25,000
Pk Qty 10	12215 12216 12218 12220	60 80 120 180	25,000 25,000 25,000 25,000
2 x 1 x 1/4"-20	12215 12216 12218 12220 Item	60 80 120 180 Grit	25,000 25,000 25,000 25,000 Max RPM
2 x 1 x 1/4"-20	12215 12216 12218 12220 Item 12241	60 80 120 180 Grit 60	25,000 25,000 25,000 25,000 Max RPM 25,000
Pk Qty 10 2 x 1 x 1/4"-20 Pk Qty 10	12215 12216 12218 12220 Item 12241 12242	60 80 120 180 Grit 60 80	25,000 25,000 25,000 25,000 Max RPM 25,000 25,000
2 x 1 x 1/4"-20	12215 12216 12218 12220 Item 12241 12242 12244	60 80 120 180 Grit 60 80 120	25,000 25,000 25,000 25,000 Max RPM 25,000 25,000
Pk Qty 10 2 x 1 x 1/4"-20 Pk Qty 10	12215 12216 12218 12220 Item 12241 12242 12244 12246	60 80 120 180 Grit 60 80 120 180	25,000 25,000 25,000 25,000 Max RPM 25,000 25,000 25,000
2 x 1 x 1/4"-20 Pk Qty 10 3 x 1/2 x 1/4"-20	12215 12216 12218 12220 Item 12241 12242 12244 12246 Item	60 80 120 180 Grit 60 80 120 180 Grit	25,000 25,000 25,000 25,000 Max RPM 25,000 25,000 25,000 Max RPM
2 x 1 x 1/4"-20 Pk Qty 10 3 x 1/2 x 1/4"-20	12215 12216 12218 12220 Item 12241 12242 12244 12246 Item 12319	60 80 120 180 Grit 60 80 120 180 Grit 60	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 Max RPM 20,000
2 x 1 x 1/4"-20 Pk Qty 10 3 x 1/2 x 1/4"-20	12215 12216 12218 12220 Item 12241 12242 12244 12246 Item 12319 12320	60 80 120 180 Grit 60 80 120 180 Grit 60 80	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 20,000 20,000 20,000
2 x 1 x 1/4"-20 Pk Qty 10 3 x 1/2 x 1/4"-20	12215 12216 12218 12220 Item 12241 12242 12244 12246 Item 12319 12320 12322	60 80 120 180 Grit 60 80 120 180 Grit 60 80	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 20,000 20,000
2 x 1 x 1/4"-20 Pk Qty 10 3 x 1/2 x 1/4"-20 Pk Qty 10	12215 12216 12218 12220 Item 12241 12242 12244 12246 Item 12319 12320 12322 12324	60 80 120 180 Grit 60 80 120 180 Grit 60 80 120	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 20,000 20,000 20,000
2 x 1 x 1/4"-20 Pk Qty 10 3 x 1/2 x 1/4"-20 Pk Qty 10 3 x 1 x 1/4"-20	12215 12216 12218 12220 Item 12241 12242 12244 12246 Item 12319 12320 12322 12324 Item	60 80 120 180 Grit 60 80 120 180 Grit 60 80 120 180 Grit	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 20,000 20,000 20,000 20,000 20,000 20,000
2 x 1 x 1/4"-20 Pk Qty 10 3 x 1/2 x 1/4"-20 Pk Qty 10 3 x 1 x 1/4"-20	12215 12216 12218 12220 Item 12241 12242 12244 12246 Item 12319 12320 12322 12324 Item 12345	60 80 120 180 Grit 60 80 120 180 Grit 60 80 120 180 Grit	25,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 20,000 20,000 20,000 Max RPM 20,000 20,000

SURFACE
CONDITIONING CLEAN & FINISH FLAP WHEELS.

Mini-Mounted Shank

3/8 x 3/8 x 1/8"	ltem	Grit	Max RPM
Pk Qty 10	11082	60	25,000
,	11083	80	25,000
	11085	120	25,000
	11086	180	25,000
3/4 x 3/16 x 1/8"	ltem	Grit	Max RPM
Pk Qty 10	11104	60	25,000
	11105	80	25,000
	11107	120	25,000
	11109	180	25,000
3/4 x 3/8 x 1/8"	ltem	Grit	Max RPM
Pk Qty 10	11117	60	25,000
	11118	80	25,000
	11120	120	25,000
	11122	180	25,000
1-3/16 x 3/16 x 1/8"	11122 Item	180 Grit	25,000 Max RPM
1-3/16 x 3/16 x 1/8" Pk Qty 10	_		,
	ltem	Grit	Max RPM
	Item 11182	Grit 60	Max RPM 25,000
	Item 11182 11183	Grit 60 80	Max RPM 25,000 25,000
	Item 11182 11183 11185	Grit 60 80 120	Max RPM 25,000 25,000 25,000
Pk Qty 10	Item 11182 11183 11185 11187	Grit 60 80 120 180	Max RPM 25,000 25,000 25,000 25,000
1-3/16 x 3/8 x 1/8"	Item 11182 11183 11185 11187 Item	Grit 60 80 120 180 Grit	Max RPM 25,000 25,000 25,000 25,000 Max RPM
1-3/16 x 3/8 x 1/8"	Item 11182 11183 11185 11187 Item 11195	Grit 60 80 120 180 Grit 60	Max RPM 25,000 25,000 25,000 25,000 Max RPM 25,000



- 1/8" shank for smaller tools
- Works well in small areas
- Cleans burrs and threads



Shank Adapter & Extenders

1 x 1/4" Adapter	ltem
Pk Qty 1	50931
4 x 1/4" Pk Qty 10	Item 50932
6 x 1/4"	ltem
Pk Qty 10	50933
8 x 1/4"	ltem



- Balanced construction provides resilience to pressure
- Consistent finishing throughout wheel life
- No dressing preparation before or during use
- Use on stationary and portable grinders
- Finishes flat and contour surfaces

Unmounted

4 x 1 x 5/8"	ltem	Grit	Max RPM
Pk Qty 10	10161	40	8,600
The day to	10163	60	8,600
	10164	80	8,600
	10166	120	8,600
6 x 1 x 1"	Item	Grit	Max RPM
Pk Qty 5	10241	40	5,700
,	10243	60	5,700
	10244	80	5,700
	10246	120	5,700
6 x 1-1/2 x 1"	Item	Grit	Max RPM
Pk Qty 5	10261	40	5,700
	10263	60	5,700
	10264	80	5,700
	10266	120	5,700
6 x 2 x 1"	ltem	Grit	Max RPM
6 x 2 x 1" Pk Qty 5	Item 10281	Grit 40	Max RPM 5,700
	10281	40	5,700
	10281 10283	40 60	5,700 5,700
	10281 10283 10284	40 60 80	5,700 5,700 5,700
Pk Qty 5	10281 10283 10284 10286	40 60 80 120	5,700 5,700 5,700 5,700
8 x 1 x 1"	10281 10283 10284 10286	40 60 80 120 Grit	5,700 5,700 5,700 5,700 Max RPM
8 x 1 x 1"	10281 10283 10284 10286 Item 10341	40 60 80 120 Grit 40	5,700 5,700 5,700 5,700 Max RPM 4,300
8 x 1 x 1"	10281 10283 10284 10286 Item 10341 10343	40 60 80 120 Grit 40 60	5,700 5,700 5,700 5,700 Max RPM 4,300 4,300
8 x 1 x 1"	10281 10283 10284 10286 Item 10341 10343 10344	40 60 80 120 Grit 40 60 80	5,700 5,700 5,700 5,700 Max RPM 4,300 4,300 4,300
8 x 1 x 1" Pk Qty 3	10281 10283 10284 10286 Item 10341 10343 10344 10346	40 60 80 120 Grit 40 60 80	5,700 5,700 5,700 5,700 Max RPM 4,300 4,300 4,300 4,300
8 x 1 x 1" Pk Qty 3 8 x 2 x 1"	10281 10283 10284 10286 Item 10341 10343 10344 10346 Item	40 60 80 120 Grit 40 60 80 120	5,700 5,700 5,700 5,700 Max RPM 4,300 4,300 4,300 4,300 Max RPM
8 x 1 x 1" Pk Qty 3 8 x 2 x 1"	10281 10283 10284 10286 Item 10341 10343 10344 10346 Item 10381	40 60 80 120 Grit 40 60 80 120 Grit 40	5,700 5,700 5,700 5,700 Max RPM 4,300 4,300 4,300 4,300 Max RPM 4,300



Shank Adapter

4 - 8"	ltem
Pk Qty 1	50937

Reducing Bushing

1 to 1/2"	ltem
Pk Qty 1	10502
1 to 5/8"	Item
Pk Qty 1	10503

Cloth

9 x 11"	ltem	Grit
Pk Qty 25	74101	36X
9 x 11"	ltem	Grit
Pk Qty 50	74102	40X
	74103	50X
	74104	60J
	74105	80J
	74106	100J
	74107	120J
	74108	150J
	74109	180J
	74110	220J
	74111	240J
	74113	320J
	74114	400J
	74116	CROCUS

- Aluminum oxide grain
- Closed coat is designed for more surface removal
- Durable and flexible backing
- Hand operation
- Use on ferrous and non-ferrous metals



Silicon Carbide - Waterproof

9 x 11"	ltem	Grit
Pk Qty 100	74121	60C
*500A Pk Qty 50	74122	80C
	74123	100C
	74124	120C
	74125	150C
	74126	180C
	74128	220A
	74129	240A
	74131	320A
	74133	400A
	74134	500A
	74135	600A

- Durable silicon carbide grain
- Use wet or dry
- 100 and finer grit for finishing applications



Silicon Carbide - Waterproof PSA

3 x 11"	ltem	Grit
Pk Qty 100	35145PL	180C
	35147PL	240C
	35149PL	320C
	35150PL	400C
	35152PL	600C

9 x 11"	ltem	Grit
Pk Qty 50	30813	60
	30814	80
	30816	120
	30818	180
	30819	240
	30820	320



9 x 11"	ltem	Grade
Pk Qty 50	74117	FIN
	74118	MED
	74119	CRS

Handy Rolls

1" x 50 yd.	ltem	Grit
Pk Qty 1	73134	60J
	73135	80J
	73137	120J
	73138	150J
	73139	180J
	73140	220J
	73141	240J
	73143	320J
	73144	400J
	73193	CROCUS
1-1/2" x 50 yd.	ltem	Grit
Pk Qty 1	73149	60J
	73150	80J
	73152	120J
	73153	150J
	73154	180J
	73155	220J
	73156	240J
	73158	320J
	73159	400J
	73194	CROCUS
2" x 50 yd.	ltem	Grit
Pk Qty 1	73164	60J
	73165	80J
	73167	120J
	73168	150J
	73169	180J
	73170	220J
	73171	240J
	73173	320J
	73174	400J
	73195	CROCUS





- Sharp, durable aluminum oxide grain
- Medium tensile strength J-weight cotton backing
- Multi-purpose maintenance and machine shop use
- Deburrs, cleans and polishes metal surfaces



• Made from a resin bonded aluminum oxide cloth

- Exceptional durability and flexibility
- Ideal for cleaning and finishing
- Used by mechanical workshops, cutlery and plumbing product manufacturers

Premium Shop Rolls

1" x 50 yd.	ltem	Grit
Pk Qty 1	0901005	60
	0901006	80
	0901008	120
	0901009	150
	0901010	180
	0901011	220
	0901012	240
	0901014	320
	0901015	400
1-1/2" x 50 yd.	ltem	Grit
Pk Qtv 1	0901505	60
rk Qiy i	0901506	80
	0901508	120
	0901509	150
	0901510	180
	0901511	220
	0901512	240
	0901514	320
	0901515	400
0" col	14	C:1
2" x 50 yd.	Item	Grit
Pk Qty 1	0902005	60
	0902006	80
	0902008	120
	0902009	150
	0902010 0902011	180 220
	0902011	240
	0902012	320
	0902014	400
	0302013	-+00



Silicon Carbide - Waterproof

ltem	Grit
35501PL	180
35503PL	240
35505PL	320
35506PL	400
35508PL	600
ltem	Grit
35509PL	180
35511PL	240
35513PL	320
35514PL	400
35516PI	600
	35501PL 35503PL 35505PL 35506PL 35508PL Item 35509PL 35511PL 35513PL

CARTROGER A STATE OF THE STATE

- Multi-layer coiled construction
- Exposes sharp new cutting abrasive as each layer wears
- Ideal for finishing operations
- Irregular concaves, contours, dead-end holes, channels
- Deburring, blending tool mark removal
- Flash removal

Straight Cartridge Rolls

1/8 x 1 x 5/64"	ltem	Grit	Max RPM
Pk Qty 100	21114Z05	60	26,000
PK QIY 100	21115	80	26,000
	21116	100	26,000
	21117	120	26,000
	21119	180	26,000
	21120	240	26,000
	21121	320	26,000
0/1/ 1 0/00!!			
3/16 x 1 x 3/32"	Item	Grit	Max RPM
Pk Qty 100	21135Z8	60	26,000
	21136	80	26,000
	21137	100	26,000
	21138	120	26,000
	21140	180	26,000
	21141	240	26,000
	21142	320	26,000
1/4 x 1 x 1/8"	ltem	Grit	Max RPM
Pk Qty 100	21158Z9	50	26,000
	21159	60	26,000
	21160	80	26,000
	21161	100	26,000
	21162	120	26,000
	21164	180	26,000
	21165	240	26,000
	21166	320	26,000
1/4 x 1-1/2 x 1/8"	ltem	Grit	Max RPM
Pk Qty 100	21166Z8	50	26,000
	21167	60	26,000
	21168	80	26,000
	21169	100	26,000
	21170	120	26,000
	21172	180	26,000
	21173	240	26,000
	21174	320	26,000
5/16 x 1 x 1/8"	Item	Grit	Max RPM
Pk Qty 100	21210	50	26,000
	21211	60	26,000
	21212	80	26,000
	21213	100	26,000
	21214	120	26,000
	21216	180	26,000
	21217 21218	240 320	26,000 26,000
C/1/ 11/0 1/0"	_		
5/16 x 1-1/2 x 1/8"	Item	Grit	Max RPM
Pk Qty 100	21222	50	26,000
	21223	60	26,000
	21224	80	26,000
	21225	100	26,000
	21226	120	26,000
	21228	180 240	26,000
	21229 21230	320	26,000 26,000
	21230	320	20,000

FLAP DISCS

SURFACE CONDITIONING CLEAN & FINISH FLAP WHEELS

SHEETS

Straight Cartridge Rolls ROLLS

3/8 x 1 x 1/8"	ltem	Grit	Max RPM
Pk Qty 100	21270	50	26,000
	21271	60	26,000
	21272	80	26,000
	21273	100	26,000
	21274	120	26,000
	21276	180	26,000
	21277	240	26,000
	21278	320	26,000
3/8 x 1-1/2 x 1/8"	ltem	Grit	Max RPM
Pk Qty 100	21282	50	26,000
	21283	60	26,000
	21284	80	26,000
	21285	100	26,000
	21286	120	26,000
	21288	180	26,000
	21289	240	26,000
	21290	320	26,000
1/2 x 3/4 x 1/8"	ltem	Grit	Max RPM
Pk Qty 100	21318	50	26,000
	21319	60	26,000
	21320	80	26,000
	21321	100	26,000
	21322	120	26,000
	21324	180	26,000
	21325	240	26,000
	21326	320	26,000
1/2 x 1 x 1/8"	ltem	Grit	Max RPM
Pk Qty 100	21330	50	26,000
	21331	60	26,000
	21332	80	26,000
	21333	100	26,000
	21334	120	26,000
	21336	180	26,000
	21337	240	26,000
	21338	320	26,000
1/2 x 1-1/2 x 1/8"	ltem	Grit	Max RPM
Pk Qty 100	21342	50	26,000
	21343	60	26,000
	21344	80	26,000
	21345	100	26,000
	21346	120	26,000
	21348	180	26,000
	21349	240	26,000
	21350	320	26,000
1/2 x 2 x 1/8"	ltem	Grit	Max RPM
Pk Qty 100	21354	50	26,000
	21355	60	26,000
	21356	80	26,000

## Ally 100	1/2 x 2 x 1/8"	ltem	Grit	Max RPM
21358 120 26,000 21360 180 26,000 21361 240 26,000 21362 320 26,000 5/8 x 1 x 3/16"				
21360	TR QLY 100			
21361				
21362 320 26,000				
5/8 x 1 x 3/16"				
Pk aty 100 21438 50 26,000 21449 80 26,000 21441 100 26,000 21442 120 26,000 21444 180 26,000 21445 240 26,000 21446 320 26,000 21446 320 26,000 5/8 x 1-1/2 x 3/16"		21302	320	20,000
21439 60 26,000 21440 80 26,000 21441 100 26,000 21442 120 26,000 21445 240 26,000 21445 240 26,000 21446 320 26,000 5/8 x 1-1/2 x 3/16" Item				
21440	Pk Qty 100			
21441 100 26,000 21442 120 26,000 21444 180 26,000 21445 240 26,000 21446 320 26,000 5/8 x 1-1/2 x 3/16" Item				
21442 120 26,000 21444 180 26,000 21445 240 26,000 21446 320 26,000 5/8 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21451 60 18,000 21452 80 18,000 21453 100 18,000 21454 120 18,000 21456 180 18,000 21457 240 18,000 21458 320 18,000 5/8 x 2 x 3/16" Item Grit Max RPM Pk Qty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21523 60 18,000 21524 80 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21527 100 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 21531 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000				
21444 180 26,000 21445 240 26,000 21446 320 26,000 5/8 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21450 50 18,000 21451 60 18,000 21452 80 18,000 21453 100 18,000 21454 120 18,000 21456 180 18,000 21457 240 18,000 21458 320 18,000 21458 320 18,000 5/8 x 2 x 3/16" Item Grit Max RPM Pk Qty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21522 50 18,000 21523 60 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21527 100 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 21535 60 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000				
21445 240 26,000 21446 320 26,000 5/8 x 1-1/2 x 3/16" Item Grit Max RPM Pk aty 100 21450 50 18,000 21451 60 18,000 21452 80 18,000 21454 120 18,000 21456 180 18,000 21457 240 18,000 21457 240 18,000 21458 320 18,000 5/8 x 2 x 3/16" Item Grit Max RPM Pk aty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21469 240 18,000 21470 320 18,000 3/4 x 1 x 3/16" Item Grit Max RPM Pk aty 100 21522 50 18,000 21523 60 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21527 100 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk aty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000				
21446 320 26,000				
5/8 x 1-1/2 x 3/16"		-	240	
Pk aty 100 21451 60 18,000 21452 80 18,000 21453 100 18,000 21454 120 18,000 21456 180 18,000 21457 240 18,000 21458 320 18,000 5/8 x 2 x 3/16" Item Grit Max RPM Pk aty 100 21463 21464 80 18,000 21465 100 18,000 21466 120 18,000 21468 180 18,000 21468 180 18,000 21469 21469 240 18,000 21469 21470 320 18,000 3/4 x 1 x 3/16" Item Grit Max RPM Pk aty 100 21522 50 18,000 21524 80 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21526 120 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 21530 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk aty 100 21536 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk aty 100 21536 80 18,000 21536 80 18,000 21536 80 18,000		21446	320	26,000
21451 60 18,000 21452 80 18,000 21453 100 18,000 21454 120 18,000 21456 180 18,000 21457 240 18,000 21458 320 18,000 21458 320 18,000 5/8 x 2 x 3/16" Item Grit Max RPM Pk Qty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21469 240 18,000 21470 320 18,000 21470 320 18,000 21470 320 18,000 21523 60 18,000 21524 80 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21527 100 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000	5/8 x 1-1/2 x 3/16"	ltem	Grit	Max RPM
21452 80 18,000 21453 100 18,000 21454 120 18,000 21456 180 18,000 21457 240 18,000 21458 320 18,000 5/8 x 2 x 3/16" Item Grit Max RPM Pk Qty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21468 180 18,000 21468 180 18,000 21469 240 18,000 21469 240 18,000 21470 320 18,000 3/4 x 1 x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21523 60 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21526 120 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000 21536 80 18,000	Pk Qty 100	21450	50	18,000
21453 100 18,000 21454 120 18,000 21456 180 18,000 21457 240 18,000 21458 320 18,000 5/8 x 2 x 3/16" Item Grit Max RPM Pk Qty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21469 240 18,000 21470 320 18,000 3/4 x 1 x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21524 80 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 21530 320 18,000 21531 50 18,000 21535 60 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000 21536 80 18,000		21451	60	18,000
21454 120 18,000 21456 180 18,000 21457 240 18,000 21458 320 18,000 5/8 x 2 x 3/16" Item Grit Max RPM Pk Qty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21470 320 18,000 3/4 x 1 x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21524 80 18,000 21524 80 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 21530 320 18,000 21531 50 18,000 21535 60 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000 21536 80 18,000 21536 80 18,000		21452	80	18,000
21456 180 18,000 21457 240 18,000 21458 320 18,000 5/8 x 2 x 3/16" Item Grit Max RPM Pk Qty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21470 320 18,000 21470 320 18,000 3/4 x 1 x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21523 60 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21526 120 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 21530 320 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000 21536 80 18,000		21453	100	18,000
21457 240 18,000 21458 320 18,000 5/8 x 2 x 3/16" Item Grit Max RPM Pk Qty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21470 320 18,000 21470 320 18,000 3/4 x 1 x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21524 80 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000		21454	120	18,000
21458 320 18,000 5/8 x 2 x 3/16" Item Grit Max RPM Pk Qty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21470 320 18,000 3/4 x 1 x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21524 80 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000 21536 80 18,000 21536 80 18,000		21456	180	18,000
5/8 x 2 x 3/16" Item Grit Max RPM Pk Qty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21469 240 18,000 21470 320 18,000 3/4 x 1 x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21529 240 18,000 21530 320 18,000 21530 320 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000 21536 80 18,000 21537 100 18,000		21457	240	18,000
Pk Qty 100 21462 50 18,000 21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21469 240 18,000 21470 320 18,000 21470 320 18,000 21522 50 18,000 21523 60 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21529 240 18,000 21530 320 18,000 21530 320 18,000 21535 60 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000 21537 100 18,000		21458	320	18,000
21463 60 18,000 21464 80 18,000 21465 100 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21470 320 18,000 3/4 x l x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21524 80 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 21530 320 18,000 21531 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000 21536 80 18,000	5/8 x 2 x 3/16"	ltem	Grit	Max RPM
21464 80 18,000 21465 100 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21470 320 18,000 3/4 x 1 x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21524 80 18,000 21524 80 18,000 21525 100 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 21530 320 18,000 21530 320 18,000 21536 80 18,000 21536 80 18,000 21536 80 18,000	Pk Qty 100	21462	50	18,000
21465 100 18,000 21466 120 18,000 21468 180 18,000 21469 240 18,000 21470 320 18,000 3/4 x l x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21523 60 18,000 21524 80 18,000 21525 100 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21529 30 18,000 21530 320 18,000 3/4 x l-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000		21463	60	
21466 120 18,000 21468 180 18,000 21469 240 18,000 21470 320 18,000 3/4 x l x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21523 60 18,000 21524 80 18,000 21525 100 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 3/4 x l-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000		21464	80	18,000
21468 180 18,000 21469 240 18,000 21470 320 18,000 3/4 x l x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21523 60 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 240 18,000 21530 320 18,000 3/4 x l-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000				
21469 240 18,000 21470 320 18,000 3/4 x 1 x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21523 60 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 320 18,000 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000				
21470 320 18,000 3/4 x l x 3/16" Item Grit Max RPM Pk Qty 100 21522 50 18,000 21523 60 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21529 240 18,000 21529 240 18,000 21529 320 18,000 3/4 x l-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21536 80 18,000				
3/4 x 1 x 3/16"				
Pk Qty 100 21522 50 18,000 21523 60 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21529 240 18,000 21530 320 18,000 Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21537 100 18,000		21470	320	18,000
21523 60 18,000 21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21529 240 18,000 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21537 100 18,000	3/4 x 1 x 3/16"	ltem	Grit	Max RPM
21524 80 18,000 21525 100 18,000 21526 120 18,000 21528 180 18,000 21529 240 18,000 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21537 100 18,000	Pk Qty 100	21522	50	18,000
21525 100 18,000 21526 120 18,000 21528 180 18,000 21529 240 18,000 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21537 100 18,000		21523	60	18,000
21526 120 18,000 21528 180 18,000 21529 240 18,000 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21537 100 18,000		21524	80	18,000
21528 180 18,000 21529 240 18,000 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21537 100 18,000			100	18,000
21529 240 18,000 21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21537 100 18,000		21526	120	18,000
21530 320 18,000 3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21537 100 18,000			180	18,000
3/4 x 1-1/2 x 3/16" Item Grit Max RPM Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21537 100 18,000		21529	240	18,000
Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21537 100 18,000		21530	320	18,000
Pk Qty 100 21534 50 18,000 21535 60 18,000 21536 80 18,000 21537 100 18,000	3/4 x 1-1/2 x 3/16"	ltem	Grit	Max RPM
21535 60 18,000 21536 80 18,000 21537 100 18,000		21534	50	18,000
21536 80 18,000 21537 100 18,000		21535	60	
21537 100 18,000				
			100	
2.000 .20 .01000		21538	120	18,000
21540 180 18,000				
21541 240 18,000				
21542 320 18,000			320	

Straight Cartridge Rolls ROLLS

J ag	,	90	
3/4 x 1-1/2 x 1/4"	ltem	Grit	Max RPM
Pk Qty 100	21618	50	18,000
	21619	60	18,000
	21620	80	18,000
	21621	100	18,000
	21622	120	18,000
	21624	180	18,000
	21625	240	18,000
	21626	320	18,000
3/4 x 2 x 3/16"	ltem	Grit	Max RPM
Pk Qty 100	21546	50	18,000
	21547	60	18,000
	21548	80	18,000
	21549	100	18,000
	21550	120	18,000
	21552	180	18,000
	21553	240	18,000
	21554	320	18,000
3/4 x 2 x 1/4"	ltem	Grit	Max RPM
Pk Qty 100	21630	50	18,000
	21631	60	18,000
	21632	80	18,000
	21633	100	18,000
	21634	120	18,000
	21636	180	18,000
	21637	240	18,000
	21638	320	18,000
1 x 1 x 3/16"	ltem	Grit	Max RPM
Pk Qty 100	21666	50	18,000
	21667	60	18,000
	21668	80	18,000
	21669	100	18,000
	21670	120	18,000
	21672	180	18,000
	21673	240	18,000
	21674	320	18,000
1 x 1-1/2 x 3/16"	ltem	Grit	Max RPM
Pk Qty 100	21786	50	18,000
	21787	60	18,000
	21788	80	18,000
	21789	100	18,000
	21790	120	18,000
	21792	180	18,000
	21792 21793 21794	180 240 320	18,000 18,000 18,000

1 x 1-1/2 x 1/4"	ltem	Grit	Max RPM
Pk Qty 100	21798	50	15,000
	21799	60	15,000
	21800	80	15,000
	21801	100	15,000
	21802	120	15,000
	21804	180	15,000
	21805	240	15,000
	21806	320	15,000
1 x 2 x 3/16"	ltem	Grit	Max RPM
Pk Qty 100	21906	50	15,000
	21907	60	15,000
	21908	80	15,000
	21909	100	15,000
	21910	120	15,000
	21912	180	15,000
	21913	240	15,000
	21914	320	15,000
1 x 2 x 1/4"	ltem	Grit	Max RPM
Pk Qty 100	21918	50	15,000
	21919	60	15,000
	21920	80	15,000
	21921	100	15,000
	21922	120	15,000
	21924	180	15,000
	21925	240	15,000
	21926	320	15,000

Full Taper Cartridge Rolls

3/8 x 1 x 1/8"	ltem	Grit	Max RPM
Pk Qty 100	23104	50	26,000
	23105	60	26,000
	23106	80	26,000
	23108	120	26,000
	23110	180	26,000
	23111	240	26,000
	23112	320	26,000
3/8 x 1-1/2 x 1/8"	ltem	Grit	Max RPM
3/8 x 1-1/2 x 1/8" Pk Qty 100	ltem 23284	Grit 50	Max RPM 26,000
	23284	50	26,000
	23284 23285	50 60	26,000 26,000
	23284 23285 23286	50 60 80	26,000 26,000 26,000
	23284 23285 23286 23288	50 60 80 120	26,000 26,000 26,000 26,000

CARTRIDGE ROLLS

Full '	Taper	Cartridge	Rolls
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1/2 x 1 x 1/8"	ltem	Grit	Max RPM
Pk Qty 100	23140	50	26,000
	23141	60	26,000
	23142	80	26,000
	23144	120	26,000
	23146	180	26,000
	23147	240	26,000
	23148	320	26,000
1/0 11/0 1/0"	li.	C '1	14 DD14
1/2 x 1-1/2 x 1/8"	Item	Grit	Max RPM
Pk Qty 100	23320	50	26,000
	23321	60	26,000
	23322	80	26,000
	23324	120	26,000
	23326	180	26,000
	23327 23328	240 320	26,000 26,000
	23320	320	20,000
1/2 x 2 x 1/8"	ltem	Grit	Max RPM
Pk Qty 100	23464	50	26,000
	23465	60	26,000
	23466	80	26,000
	23468	120	26,000
	23470	180	26,000
	23472	240	26,000
	2347214	320	26,000
5/8 x 1 x 1/8"	ltem	Grit	Max RPM
5/8 x 1 x 1/8"	Item 23176	Grit 50	Max RPM 26.000
5/8 x l x l/8" Pk Qty 100	23176 23177	Grit 50 60	26,000
'	23176	50	
'	23176 23177	50 60	26,000 26,000
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· · · · · · · · · · · · · · · · · · ·	23176 23177 23178 23180	50 60 80 120	26,000 26,000 26,000 26,000
· · · · · · · · · · · · · · · · · · ·	23176 23177 23178 23180 23182	50 60 80 120 180	26,000 26,000 26,000 26,000 26,000
Pk Qty 100	23176 23177 23178 23180 23182 23183 23184	50 60 80 120 180 240 320	26,000 26,000 26,000 26,000 26,000 26,000
5/8 x 1-1/2 x 1/8"	23176 23177 23178 23180 23182 23183 23184	50 60 80 120 180 240 320	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM
Pk Qty 100	23176 23177 23178 23180 23182 23183 23184 Item 23356	50 60 80 120 180 240 320 Grit 50	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000
5/8 x 1-1/2 x 1/8"	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357	50 60 80 120 180 240 320 Grit 50 60	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000
5/8 x 1-1/2 x 1/8"	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358	50 60 80 120 180 240 320 Grit 50 60 80	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000
5/8 x 1-1/2 x 1/8"	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358 23360	50 60 80 120 180 240 320 Grit 50 60 80 120	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000 18,000
5/8 x 1-1/2 x 1/8"	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358 23360 23362	50 60 80 120 180 240 320 Grit 50 60 80 120 180	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000 18,000 18,000
5/8 x 1-1/2 x 1/8"	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358 23360	50 60 80 120 180 240 320 Grit 50 60 80 120	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000 18,000
5/8 x 1-1/2 x 1/8" Pk Qty 100	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358 23360 23362 23363 23364	50 60 80 120 180 240 320 Grit 50 60 80 120 180 240 320	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000 18,000 18,000 18,000
5/8 x 1-1/2 x 1/8" Pk Qty 100 3/4 x 1-1/2 x 3/16"	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358 23360 23362 23363 23364	50 60 80 120 180 240 320 Grit 50 60 80 120 180 240 320 Grit	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000 18,000 18,000 18,000 18,000
5/8 x 1-1/2 x 1/8" Pk Qty 100	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358 23360 23362 23363 23364 Item 23404	50 60 80 120 180 240 320 Grit 50 60 80 120 180 240 320 Grit 50	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000 18,000 18,000 18,000 18,000 Max RPM 18,000
5/8 x 1-1/2 x 1/8" Pk Qty 100 3/4 x 1-1/2 x 3/16"	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358 23360 23362 23363 23364 Item 23404 23404	50 60 80 120 180 240 320 Grit 50 60 80 120 180 240 320 Grit 50 60	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000
5/8 x 1-1/2 x 1/8" Pk Qty 100 3/4 x 1-1/2 x 3/16"	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358 23360 23362 23363 23364 Item 23404 23405 23406	50 60 80 120 180 240 320 Grit 50 60 80 120 180 240 320 Grit 50 60 80	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000
5/8 x 1-1/2 x 1/8" Pk Qty 100 3/4 x 1-1/2 x 3/16"	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358 23360 23362 23363 23364 Item 23404 23405 23406 23408	50 60 80 120 180 240 320 Grit 50 60 80 120 180 240 320 Grit 50 60 80 120	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000
5/8 x 1-1/2 x 1/8" Pk Qty 100 3/4 x 1-1/2 x 3/16"	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358 23360 23362 23363 23364 Item 23404 23405 23406 23408 23410	50 60 80 120 180 240 320 Grit 50 60 80 120 180 240 320 Grit 50 60 80 120 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 240 180 180 180 180 180 180 180 18	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000
5/8 x 1-1/2 x 1/8" Pk Qty 100 3/4 x 1-1/2 x 3/16"	23176 23177 23178 23180 23182 23183 23184 Item 23356 23357 23358 23360 23362 23363 23364 Item 23404 23405 23406 23408	50 60 80 120 180 240 320 Grit 50 60 80 120 180 240 320 Grit 50 60 80 120	26,000 26,000 26,000 26,000 26,000 26,000 Max RPM 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000

3/4 x 2 x 3/16"	ltem	Grit	Max RPM
Pk Qty 100	23548	50	18,000
	23549	60	18,000
	23550	80	18,000
	23552	120	18,000
	23554	180	18,000
	23555	240	18,000
	23556	320	18,000
1 x 1 x 3/16"	ltem	Grit	Max RPM
Pk Qty 100	23584	50	18,000
	23585	60	18,000
	23586	80	18,000
	23588	120	18,000
	23590	180	18,000
	23591	240	18,000
	23592	320	18,000
1 x 1-1/2 x 3/16"	ltem	Grit	Max RPM
Pk Qty 100	23620	50	18,000
	23621	60	18,000
	23622	80	18,000
	23624	120	18,000
	23626	180	18,000
	23627	240	18,000
	23628	320	18,000
1 x 2 x 3/16"	ltem	Grit	Max RPM
Pk Qty 100	23656	50	18,000
	23657	60	18,000
	23658	80	18,000
	23660	120	18,000
	23662	180	18,000
	2366412	240	18,000
	2366414	320	18,000
Mandrels			Pk Qty 1
Size			ltem

Manareis	Pk Qty 1
Size	ltem
A-1 5/64 X 1 X 1/8	50101
A-2 3/32 X 1 X 1/8	50102
A-4 1/8 X 3/4 X 1/8	50104
A-5 1/8 X 1 X 1/8	50105
A-6 1/8 X 1-1/2 X 1/8	50106
A-8 1/8 X 3/4 X 1/4	50108
A-9 1/8 X 1 X 1/4	50109
A-10 1/8 X 1-1/2 X 1/4	50110
A-13 3/16 X 3/4 X 1/8	50113
A-15 3/16 X 3/4 X 1/4	50115
A-16 3/16 X 1 X 1/4	50116
A-17 3/16 X 1-1/2 X 1/4	50117
A-21 1/4 X 1 X 1/4	50121

A-22 1/4 X 1-1/2 X 1/4

FLAP DISCS

PSA DISCS

BELTS

CONDITIONING CLEAN & FINISH FLAP WHEELS

SHEETS

SPECIALTIES NO LAP BANDS

50122



- Multi-ply abrasive pad
- Exposes new cutting surface as each layer wears
- Three eyelet sizes available: 3-48; 8-32; $\frac{1}{4}$ -20
- Eyelet allows quick on and off of cross pad
- Deburring and cleaning the ID of a tube
- Blending small radii

Cross Pads

1 x 3/8 x 8P 3-48	ltem	Grit	Max RPM
Pk Qty 100	27739	60	25,000
	27740	80	25,000
	27742	120	25,000
	27744	180	25,000
	27745	240	25,000
1-1/2 x 1/2 x 8P 8-32	ltem	Grit	Max RPM
Pk Qty 100	27750	60	23,000
	27751	80	23,000
	27753	120	23,000
	27755	180	23,000
	27756	240	23,000
2 x 1/2 x 8P 8-32	ltem	Grit	Max RPM
Pk Qty 100	27772	60	23,000
	27773	80	23,000
	27775	120	23,000
	27777	180	23,000
	27778	240	23,000
2 x 3/4 x 8P 8-32	Item	Grit	Max RPM
Pk Qty 100	27794	60	23,000
	27795	80	23,000
	27797	120	23,000
	27799	180	23,000
	27799 2779912-1	180 240	23,000 23,000
2 x 1 x 8P 1/4-20			
2 x 1 x 8P 1/4-20 Pk Qty 100	2779912-1	240	23,000
	2779912-1 Item	240 Grit	23,000 Max RPM
	2779912-1 Item 27816	240 Grit 60	23,000 Max RPM 23,000
	2779912-1 Item 27816 27817 27819 27820	240 Grit 60 80 120 180	23,000 Max RPM 23,000 23,000 23,000 23,000
	2779912-1 Item 27816 27817 27819	240 Grit 60 80 120	23,000 Max RPM 23,000 23,000 23,000
	2779912-1 Item 27816 27817 27819 27820 27822-3 Item	240 Grit 60 80 120 180	23,000 Max RPM 23,000 23,000 23,000 23,000 23,000 Max RPM
Pk Qty 100	2779912-1 Item 27816 27817 27819 27820 27822-3 Item 27904	240 Grit 60 80 120 180 240 Grit 60	23,000 Max RPM 23,000 23,000 23,000 23,000 23,000 Max RPM 18,000
Pk Qty 100 2-1/2 x 3/4 x 8P 8-32	2779912-1 Item 27816 27817 27819 27820 27822-3 Item 27904 27905	240 Grit 60 80 120 180 240 Grit 60 80	23,000 Max RPM 23,000 23,000 23,000 23,000 23,000 Max RPM 18,000 18,000
Pk Qty 100 2-1/2 x 3/4 x 8P 8-32	2779912-1 Item 27816 27817 27819 27820 27822-3 Item 27904	240 Grit 60 80 120 180 240 Grit 60	23,000 Max RPM 23,000 23,000 23,000 23,000 23,000 Max RPM 18,000 18,000
Pk Qty 100 2-1/2 x 3/4 x 8P 8-32	2779912-1 Item 27816 27817 27819 27820 27822-3 Item 27904 27905 27907 27909	240 Grit 60 80 120 180 240 Grit 60 80 120 180	23,000 Max RPM 23,000 23,000 23,000 23,000 23,000 Max RPM 18,000 18,000 18,000
Pk Qty 100 2-1/2 x 3/4 x 8P 8-32	2779912-1 Item 27816 27817 27819 27820 27822-3 Item 27904 27905 27907	240 Grit 60 80 120 180 240 Grit 60 80 120	23,000 Max RPM 23,000 23,000 23,000 23,000 23,000 Max RPM 18,000 18,000
2-1/2 x 3/4 x 8P 8-32 Pk Qty 100 3 x 1 x 8P 1/4-20	2779912-1 Item 27816 27817 27819 27820 27822-3 Item 27904 27905 27907 27909 27910 Item	240 Grit 60 80 120 180 240 Grit 60 80 120 180 240 Grit 67 67 67 67	23,000 Max RPM 23,000 23,000 23,000 23,000 Max RPM 18,000 18,000 18,000 18,000 Max RPM
2-1/2 x 3/4 x 8P 8-32 Pk Qty 100	2779912-1 Item 27816 27817 27819 27820 27822-3 Item 27904 27905 27907 27909 27910 Item 27970	240 Grit 60 80 120 180 240 Grit 60 80 120 180 240 Grit 60 60 6rit 60	23,000 Max RPM 23,000 23,000 23,000 23,000 23,000 Max RPM 18,000 18,000 18,000 18,000 Max RPM 14,000
2-1/2 x 3/4 x 8P 8-32 Pk Qty 100 3 x 1 x 8P 1/4-20	2779912-1 Item 27816 27817 27819 27820 27822-3 Item 27904 27905 27907 27909 27910 Item 27970 27971	240 Grit 60 80 120 180 240 Grit 60 80 120 180 240 Grit 60 80 Grit 60 80	23,000 Max RPM 23,000 23,000 23,000 23,000 23,000 Max RPM 18,000 18,000 18,000 18,000 Max RPM 14,000 14,000
2-1/2 x 3/4 x 8P 8-32 Pk Qty 100 3 x 1 x 8P 1/4-20	2779912-1 Item 27816 27817 27819 27820 27822-3 Item 27904 27905 27907 27909 27910 Item 27970 27971 27973	240 Grit 60 80 120 180 240 Grit 60 80 120 180 240 Grit 60 80 120 Grit 60 80 120	23,000 Max RPM 23,000 23,000 23,000 23,000 3,000 Max RPM 18,000 18,000 18,000 18,000 18,000 18,000 14,000 14,000
2-1/2 x 3/4 x 8P 8-32 Pk Qty 100 3 x 1 x 8P 1/4-20	2779912-1 Item 27816 27817 27819 27820 27822-3 Item 27904 27905 27907 27909 27910 Item 27970 27971	240 Grit 60 80 120 180 240 Grit 60 80 120 180 240 Grit 60 80 Grit 60 80	23,000 Max RPM 23,000 23,000 23,000 23,000 23,000 Max RPM 18,000 18,000 18,000 18,000 Max RPM 14,000 14,000



Pk Qty 10

May DDM

Size	ltem
3-48 x 1/4"	50328
8-32 x 1/4"	50329
1/4-20 x 1/4"	50330



- Layered construction of material, formed as a square
- Chatter-free grinding
- Intermittent strokes of pad corners improve visibility
- Corners very aggressive until edges round
- When corners are round, good for polishing
- Excellent for blending welds inside of pipes



- Exceptional balance at high RPM
- Extremely flexible and durable
- Unique shape allows you to reach inaccessible areas
- Light removal of matter inside of pipe
- Blends surface imperfections within pipes

Square Pads

1-1/2 x 1/2 x 1/4-20	ltem	Grit	Max RPM
Pk Qty 100	26445	60	23,000
	26446	80	23,000
	26448	120	23,000
2 x 1/2 x 1/4-20	Item	Grit	Max RPM
Pk Qty 100	26478	60	23,000
	26479	80	23,000
	26481	120	23,000
2-1/2 x 1/2 x 1/4-20	ltem	Grit	Max RPM
Pk Qty 100	26522	60	18,000
	26523	80	18,000
	26525	120	18,000
3 x 1/4 x 1/4-20	Item	Grit	Max RPM
Pk Qty 100	26533	60	14,000
	26534	80	14,000
	26536	120	14,000
3 x 1/2 x 1/4-20	ltem	Grit	Max RPM
Pk Qty 100	26555	60	14,000
	26556	80	14,000
	26558	120	14,000

2/S Spin-On Overlap Discs 2 per Set

3,000
3,000
3,000
3,000
3,000
x RPM
3,000
3,000
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3,000
3,000
x RPM
x RPM 3,000
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3,000 3,000 3,000 3,000
3,000 3,000 3,000 3,000 3,000
3,000 3,000 3,000 3,000 3,000 x RPM
3,000 3,000 3,000 3,000 3,000 x RPM
3,000 3,000 3,000 3,000 3,000 x RPM 4,000



- Inner cloth liner adhered to band for extra durability
- Inner liner prevents slippage while being used on an expandable drum
- No tooling for operator
- Great in curved and contoured areas
- Fast cutting yet leaves smooth, even finish

No Lap Bands

1/2 x 1"	ltem	Grit
Pk Qty 100	76330	36
	76331	40
	76332	50
	76333	60
	76334	80
	76336	120
3/4 x 1"	ltem	Grit
Pk Qty 100	76618	36
	76619	40
	76620	50
	76621	60
	76622	80
	76624	120
1 x 1"	ltem	Grit
Pk Qty 100	76762	36
	76763	40
	76764	50
	76765	60
	76766	80
	76768	120
1-1/2 x 1-1/2"	ltem	Grit
1-1/2 x 1-1/2" Pk Qty 100	77134	36
	77134 77135	36 40
	77134 77135 77136	36 40 50
	77134 77135 77136 77137	36 40 50 60
	77134 77135 77136 77137 77138	36 40 50 60 80
Pk Qty 100	77134 77135 77136 77137	36 40 50 60 80 120
	77134 77135 77136 77137 77138	36 40 50 60 80
Pk Qty 100	77134 77135 77136 77137 77138 77140 Item 77410	36 40 50 60 80 120 Grit 36
Pk Qty 100 2 x 1"	77134 77135 77136 77137 77138 77140 Item 77410	36 40 50 60 80 120 Grit 36 40
Pk Qty 100 2 x 1"	77134 77135 77136 77137 77138 77140 Item 77410 77411	36 40 50 60 80 120 Grit 36 40 50
Pk Qty 100 2 x 1"	77134 77135 77136 77137 77138 77140 Item 77410 77411 77412 77413	36 40 50 60 80 120 Grit 36 40 50 60
Pk Qty 100 2 x 1"	77134 77135 77136 77137 77138 77140 Item 77410 77411 77412 77413 77414	36 40 50 60 80 120 Grit 36 40 50 60 80
Pk Qty 100 2 x l" Pk Qty 100	77134 77135 77136 77137 77138 77140 Item 77410 77411 77412 77413 77414 77416	36 40 50 60 80 120 Grit 36 40 50 60 80
Pk Qty 100 2 x 1"	77134 77135 77136 77137 77138 77140 Item 77410 77411 77412 77413 77414	36 40 50 60 80 120 Grit 36 40 50 60 80
Pk Qty 100 2 x l" Pk Qty 100	77134 77135 77136 77137 77138 77140 Item 77410 77411 77412 77413 77414 77416 Item 77434	36 40 50 60 80 120 Grit 36 40 50 60 80 120 Grit 36
2 x 1" Pk Qty 100 2 x 2"	77134 77135 77136 77137 77138 77140 Item 77410 77411 77412 77413 77414 77416 Item 77434 77435	36 40 50 60 80 120 Grit 36 40 50 60 80 120 Grit 36 40
2 x 1" Pk Qty 100 2 x 2"	77134 77135 77136 77137 77138 77140 Item 77410 77411 77412 77413 77414 77416 Item 77434 77435 77436	36 40 50 60 80 120 Grit 36 40 50 60 80 120 Grit 36 40 50
2 x 1" Pk Qty 100 2 x 2"	77134 77135 77136 77137 77138 77140 Item 77410 77411 77412 77413 77414 77416 Item 77434 77435 77436 77437	36 40 50 60 80 120 Grit 36 40 50 60 Grit 36 40 50 60 60
2 x 1" Pk Qty 100 2 x 2"	77134 77135 77136 77137 77138 77140 Item 77410 77411 77412 77413 77414 77416 Item 77434 77435 77436	36 40 50 60 80 120 Grit 36 40 50 60 80 120 Grit 36 40 50



BELTS



- For use with No Lap Bands
- Balanced for maximum performance
- Made from 60 durometer live rubber for controlled expansion

Solid Rubb	er Drums	Pk Qty 1
Size	ltem	Max RPM
1/2 x 1 x 1/4"	50510	15,000
3/4 x 1 x 1/4"	50524	19,000
1 x 1 x 1/4"	50533	15,000
1-1/2 x 1-1/2 x 1/4"	50543	10,000
2 x 1 x 1/4"	50547	11,000
2 x 2 x 1/4"	50549	6,000

0730-0303093	10346098	1063576-2045	10837FF 046	11122	0
0730-0403093	10381098	1063578-2 045	10838AF046	11130	09
0730-0505093	10383098	10803047	10838FF046	11131	09
0730-0605093	10384098	10803AF 046	10843047	11133	09
0730-0705093	10386098	10803FF046	10843AF 046	11135	09
0730-0805093	10502098	10804047	10843FF046	11139Z4	09
0732-0406093	10503098	10804AF 046	10844047	11139Z5	09
0732-0458093	1063152-1 045	10804FF 046	10844AF 046	11139Z54	
0732-0508093	1063153-1 045	10805047	10844FF 046	11139Z56	
0732-0708093	1063155-1 045	10805AF046	10845047	11156	
0733-0201093	1063156-1045	10805FF046	10845AF046	11157	
0733-0301093	1063158-1045	10806047	10845FF046	11159	
074391092	1063172-1 045	10806AF 046	10846047	11161	
07440092	1063173-1 045	10806FF046	10846AF 046	11163	
07444092	1063175-1 045	10807047	10846FF046	11165	
07447092	1063176-1 045	10807AF 046	10847047	11169	
07448092	1063178-1 045	10807FF 046	10847AF046	11170	
07451092	1063242-1 045	10813047	10847FF046	11172	
07460092	1063243-1 045	10813AF 046	10848AF 046	11174	
0901005101	1063245-1 045	10813FF	10848FF	11176	
		10814047			
0901006101	1063246-1		10853047	11178	
0901008101	1063248-1 045	10814AF 046	10853AF046	11182	
0901009101	1063252-1045	10814FF 046	10853FF046	11183	
0901010101	1063253-1	10815047	10854047	11185	
0901011101	1063255-1045	10815AF 046	10854AF 046	11187	
0901012101	1063256-1 045	10815FF046	10854FF046	11195	
0901014101	1063258-1 045	10816047	10855047	11196	
0901015101	1063262-1 045	10816AF 046	10855AF046	11198	O
0901505101	1063263-1 045	10816FF 046	10855FF046	11200	
0901506101	1063265-1 045	10817047	10856047	11208	
0901508101	1063266-1 045	10817AF046	10856AF046	11209	0
0901509101	1063268-1 045	10817FF046	10856FF046	11211	09
0901510101	1063272-1045	10818AF 046	10857047	11213	0
0901511 101	1063273-1045	10818FF046	10857AF 046	11215	09
0901512101	1063275-1045	10823047	10857FF 046	11217	09
0901514101	1063276-1045	10823AF046	10858AF046	11234	0
0901515101	1063278-1045	10823FF046	10858FF046	11235	0
0902005101	1063342-2045	10824047	10863047	11237	0
0902006101	1063343-2045	10824AF 046	10863AF046	11239	0
0902008101	1063345-2045	10824FF046	10863FF046	11241	0
0902009101	1063346-2 045	10825047	10864047	11243	0 ¹
0902010101	1063348-2045	10825AF046	10864AF 046	11260	
0902011101	1063352-2045	10825FF046	10864FF046	11261	
0902012101	1063353-2045	10826047	10865047	11263	
0902014101	1063355-2045	10826AF046	10865AF046	11265	
0902015101	1063356-2045	10826FF046	10865FF	11267	
10161098	1063358-2045	10827047	10866047	11269	
10163	1063362-2	10827AF 046	10866AF046	11273	
			10866FF046		
10164098	1063363-2	10827FF 046		11274	
10166098	1063365-2	10828AF046	10867047	11276	
10241098	1063366-2	10828FF046	10867AF 046	11278	
10243098	1063368-2	10833047	10867FF 046	11280	
10244098	1063372-2	10833AF046	10868AF046	11282	
10246098	1063373-2045	10833FF046	10868FF046	11286	
10261098	1063375-2 045	10834047	11082097	11287	
10263098	1063376-2045	10834AF 046	11083097	11289	
10264098	1063378-2045	10834FF046	11085097	11291	
10266098	1063552-2045	10835047	11086097	11293	
10281098	1063553-2045	10835AF046	11104097	11295	
10283098	1063555-2045	10835FF046	11105097	11299	C
10284098	1063556-2045	10836047	11107097	11300	C
10286098	1063558-2045	10836AF046	11109097	11302	C
10341098	1063572-2045	10836FF046	11117 097	11304	C
10343098	1063573-2045	10837047	11118097	11306	c
		10837AF 046	11120097	11308	

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1338		21117			103		103	23104	
1339		21119			103		104	23105	
1341					103		104	23106	
1343 1345		21121 21135Z8			103		104	23108 23110	
1345 1347		21136			103		104	23110	
							104	23112	
1351		21137 21138			103				104
1352 1354		21140			103		104		105 105
1354 1356		21141							105
					103		104		
358		21142			103		104		105
360		21158Z9			103		104		105
390		21159			103		104		105
391		21160			103		104		105
393		21161			103		104		105
395		21162			103		104		105
397		21164			103		104		105
399 403		21165			103		104		105
403		21166			103		104		105
404		21166Z8			103		104		105
406		21167			103		104		105
408		21168			103		104	23284	
410		21169			103		104	23285	
412		21170			103		104	23286	
416		21172			103		104	23288	
417		21173			103		104	23290	
419		21174			103		104	23291	
421		21210			103		104	23292	
423		21211			103		104	23320	
425		21212			103		104	23321	
2137		21213			103		104	23322	
2138		21214			103		104	23324	
2140		21216			103		104	23326	
2142		21217			103		104	23327	
2150		21218			103		104	23328	
2151		21222			103		104	23356	
2153		21223			103		104	23357	
2155	096	21224	102	21453	103	21790	104	23358	105
2163	096	21225	102	21454	103	21792	104	23360	105
2164	096	21226	102	21456	103	21793	104	23362	105
2166	096	21228	102	21457	103	21794	104	23363	105
2168	096	21229	102	21458	103	21798	104	23364	105
189	096	21230	102	21462	103	21799	104	23404	105
2190	096	21270	103	21463	103	21800	104	23405	105
192	096	21271	103	21464	103	21801	104	23406	105
194	096	21272	103	21465	103	21802	104	23408	105
215	096	21273	103	21466	103	21804	104	23410	105
216	096	21274	103	21468	103	21805	104	23411	105
218	096	21276	103	21469	103	21806	104	23412	105
220	096	21277	103	21470	103	21906	104	23464	105
241	096	21278	103	21522	103	21907	104	23465	105
242	096	21282	103	21523	103	21908	104	23466	105
244	096	21283	103	21524	103	21909	104	23468	105
246	096	21284	103	21525	103	21910	104	23470	105
319	096	21285			103	21912	104	23472	105
	096	21286			103		104	2347214	
	096	21288			103		104	23548	
		21289			103		104	23549	
324		21290			103		104	23550	
	096				103		104	23552	
345		21318	103						
345 346	096	21318		21536	103	21921	104	23554	105
345 346 348	096 096	21319	103		103		104	23554	
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72281PM078	72437079	73138100	76619	945167803068
72282078	72437PM079	73139100	76620108	945167803W068
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In 1960, Zerla and Si Stayman's dream of starting their own business came true in the Midwest town of Troy, Ohio. ARC ABRASIVES, INC. was born by using a MixMaster to create the adhesive for the company's first product − the PSA disc. Due to the success of their growing product line and dedication to quality, ARC ABRASIVES, INC. grew from a start up with five people in a rented garage, to a thriving and dynamic business in Troy, Ohio supported by nearly 100 employees. Today ARC ABRASIVES, INC., under second generation ownership by the Stayman's son, Anthony, continues to develop new technologies and products, including the highly successful PREDATOR™ line. ARC ABRASIVES, INC. is one of America's largest abrasives converters, proudly supporting American manufacturing companies.

Our Philosophy

Since 1960, ARC ABRASIVES, INC. has defined commitment as the process of understanding customer needs. We go beyond selling products - we evaluate applications to provide individual metalworking solutions. Our goal is to create cost savings and process improvements for our customers.

This catalog showcases the depth of our knowledge and experience within the metalworking markets, including detailed lab reports and case studies. Successful product development depends on our ability to work in the field to determine the needs of our customers. Understanding how our products work within our vertical segmentation of weld removal, deburring and flash removal, and surface finishing allow us to develop innovative and unique products for you.