



COMMITTED TO METALWORKING SOLUTIONS



FEATURES

006

Case Studies

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

010

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.

032

RESIN FIBRE
DISCS

038

FLAP DISCS

046

QUICK-LOK
DISCS

054

PSA DISCS

064

BONDED

068

BELTS

078

SURFACE
CONDITIONING

086

CLEAN & FINISH

090

FLAP WHEELS

095

SHEETS

096

ROLLS

098

SPECIALTIES

104

NO LAP BANDS



RETAIL PRODUCT DISPLAY

Showcasing flap discs, quick-lok discs, cut off wheels and more, your PREDATOR™ retail display will clearly stand out. Available as a pegboard or freestanding tower, our displays are free with any qualifying purchase. Contact your local ARC ABRASIVES, INC. Representative or Customer Service for more information.

EXCLUSIVE PRODUCTS

PREDATOR™

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 the market so that NO METAL STANDS A CHANCE!



RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
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SPECIALTIES

NO LAP BANDS

CAPABILITIES

Samples

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 your new opportunity.



Our Direct Sales Force and Manufacturing Representatives are available throughout the United States, most of which cover a 200 mile radius.

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.

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

CASE STUDIES

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

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

Performance Improvement	New SCD Hours/Yr	Annual Savings
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



CASE STUDIES

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

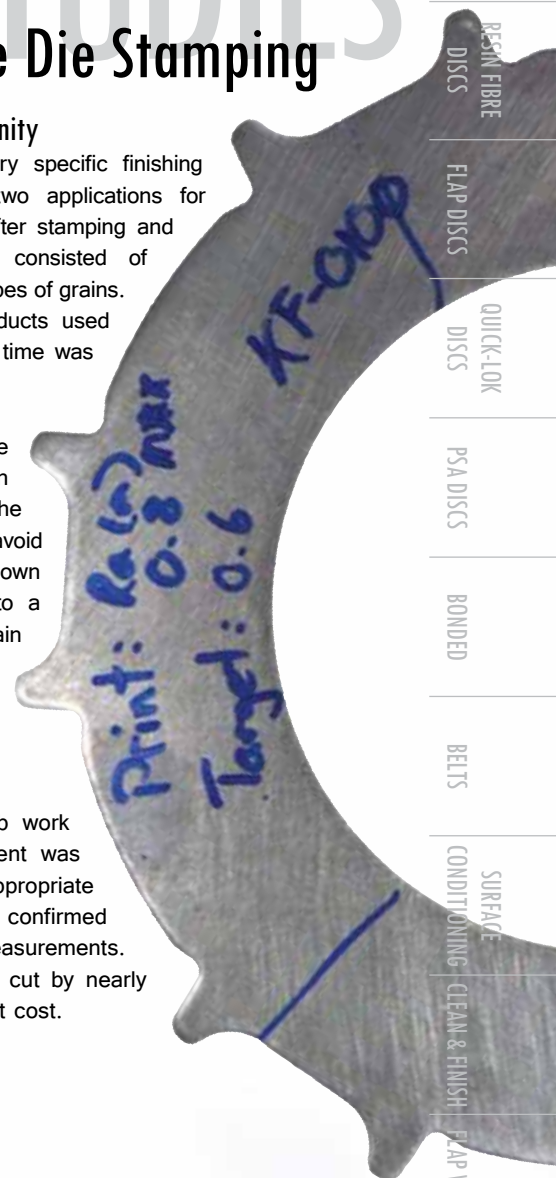
Evaluation and Opportunity

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.

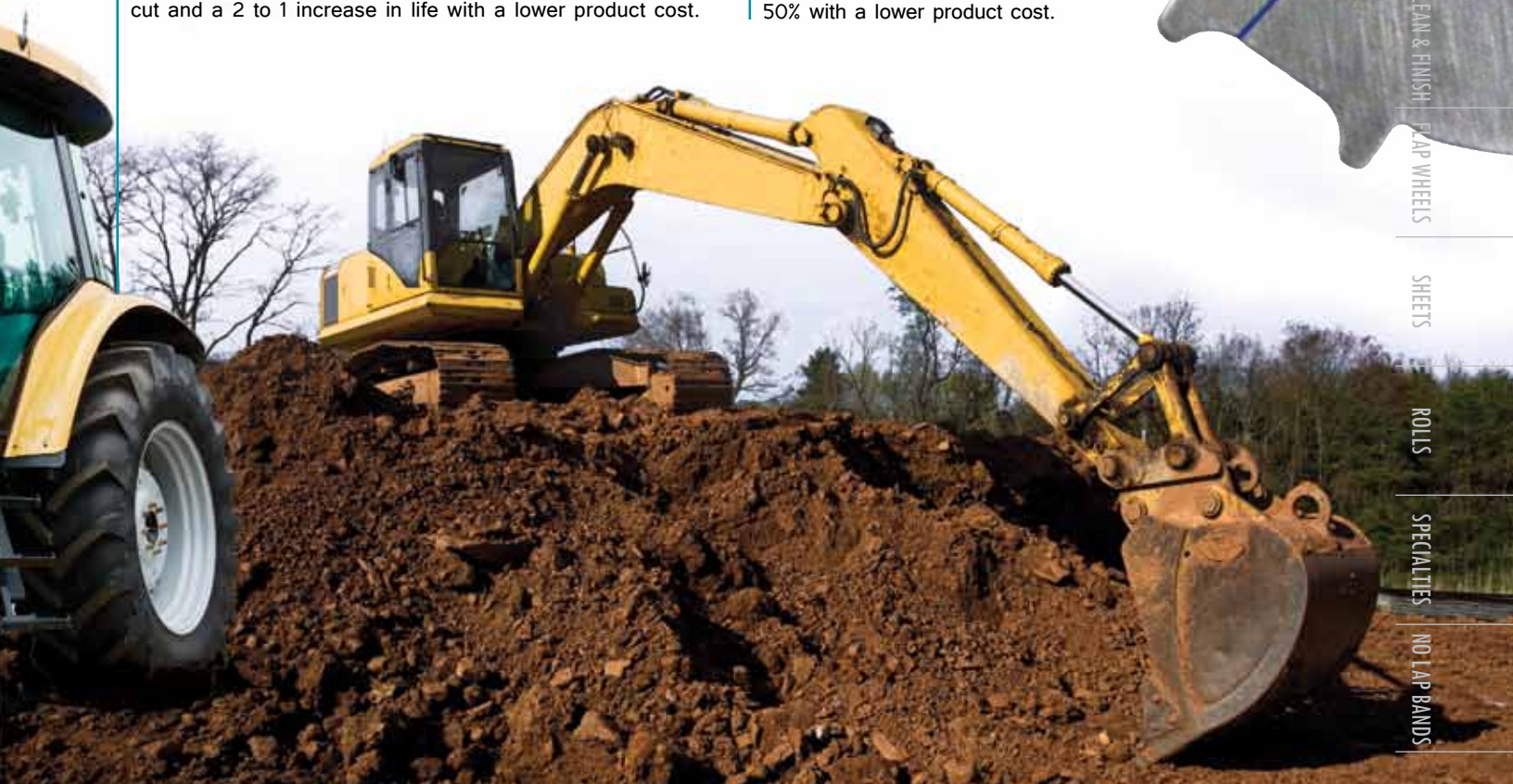
Product dressing time was used to wear down a new belt to match the required finish. To avoid wasting machine down time or dressing belts to a certain grit, a compact grain product could last 15 to 20 times longer without any dressing required.

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.



- RESIN FIBRE DISCS
- FLAP DISCS
- QUICK-LOK DISCS
- PSA DISCS
- BONDED
- BELTS
- SURFACE CONDITIONING - CLEAN & FINISH - FLAP WHEELS
- SHEETS
- ROLLS
- SPECIALTIES
- NO LAP BANDS



CASE STUDIES

Aerospace Manufacturing

Manufacturer of military and private aircraft parts.

Evaluation and Opportunity

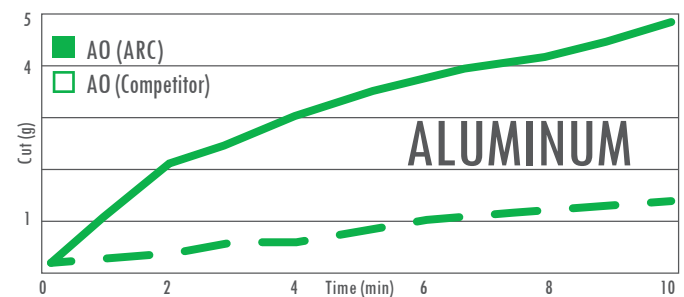
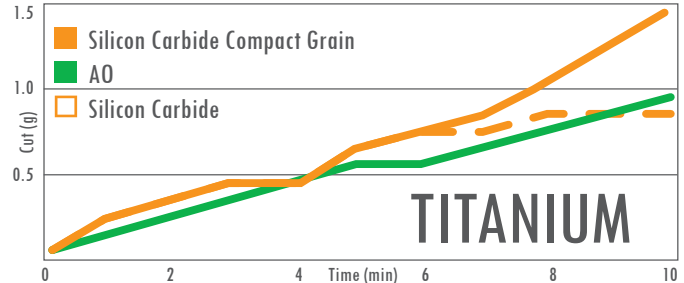
Operations involved removing machining marks from both titanium and aluminum parts. Conventional, single layer silicon carbide and aluminum oxide materials were used to smooth the flat surfaces and round outside edges.

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

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Aircraft maintenance and quality control facility.

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.

Crane Manufacturing

International manufacturer of lattice boom and tower cranes.

Evaluation and Opportunity

The initial evaluation revealed that product use was limited to removal of slag and burrs from oxy fuel cut mild steel parts with a 36 grit 7" flap disc. These particular flame cut parts are referred to as straps. Straps can vary from 6 to 20 feet in length and need to be deburred on both sides, top and bottom. Two to three operators spend an entire shift deburring these parts, so cut rate and overall life is important.

"...A two or three to one advantage with PREDATOR™ ..."

In most cases the use of 36 grit flap discs is not advised as the grain is too large and wants to shell off. The current disc had a soft edge that caused the product to flex and magnify the shelling problem. A finer 40 grit hard edge flap disc was recommended for improved cut and life.

Conclusion

Operators were extremely pleased with the performance of the recommended PREDATOR™ hard edge flap disc. In most cases it outlasted previously used products by 3 to 1. The increased performance and life cut product changeout time and provided over 40% saving in product cost.

RESIN FIBRE DISCS

FLAP DISCS

QUICK-LOK DISCS

PSA DISCS

BOUNDED

BELTS

SURFACE CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

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
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Send us a video

Product Analysis

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

Reference
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Document your process

Process Improvement

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

Reference
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Send us your parts

Application Duplication

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

LAB SHOWCASE

RESIN FIBRE DISCS
 FLAP DISCS
 QUICK-LOK DISCS
 PSA DISCS
 BONDED
 BELTS
 SURFACE CONDITIONING
 CLEAN & FINISH
 FLAP WHEELS
 SHEETS
 ROLLS
 SPECIALTIES
 NO-LAP BANDS

Our Lab Reports reflect actual tests or requests from customers. Objectives and testing procedures are detailed by skilled technicians. Below, we segment a sample report.

Quick application reference

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

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

Our objective for the test is detailed

Our reason for implementing a test is outlined.

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

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.

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

Equipment, techniques or recording methods are explained

Each test is different and may require unique equipment.

Test Method

All tests were performed by hand using the appropriate tooling. Each test lasted for 20 minutes on several stainless steel welds, approximately 1/4" wide. The stainless work piece was weighed every minute, and the products were weighed before and after the test.

Based on our results, our conclusions are presented

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

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%.

LAB SHOWCASE

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Mild Steel

Stainless Steel

Aluminum

Titanium

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

Testing PREDATOR™ flap discs against current offerings from an international distributor of industrial, safety and fastener products.

ARC Products

71-10824AF 4-1/2 x 7/8" PREDATOR™ Flap Disc, 40 Grit

71-10825AF 4-1/2 x 7/8" PREDATOR™ Flap Disc, 60 Grit

Competitive Products

4-1/2 x 7/8" zirconia alumina, ceramic or mixed material flap discs from three manufacturers.

Test Method

Tests were performed using an automated test machine powered by a flex shaft motor running at 14,400 RPM for 40 minutes, or until the product ceased to cut. Ten pieces of 12 x 2 x 1/4" mild steel were used, each weighed every minute of the test to determine cut rate.

Conclusion

Against the five manufacturers tested, PREDATOR™ flap discs provided the highest performance, in both 40 and 60 grits, by a margin of at least 11%.

LAB SHOWCASE

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Mild Steel

Stainless Steel

Aluminum

Titanium

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.

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Mild Steel

Stainless Steel

Aluminum

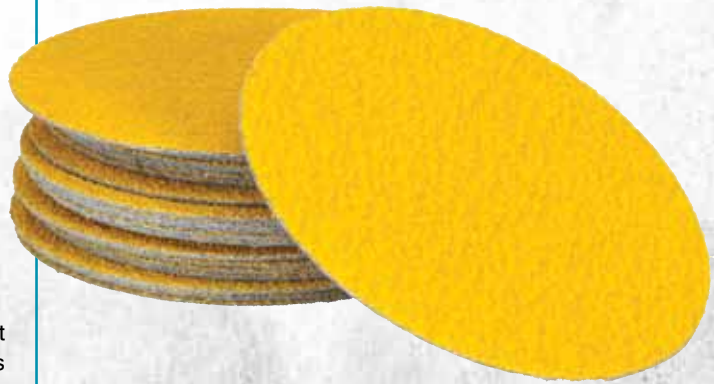
Titanium

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

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

Customer

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



Products Used

- 71-30441** 5" PREDATOR™ PSA Disc, 60 Grit
- 71-30442** 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 disc 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.

RESIN FIBRE DISCS
FLAP DISCS
QUICK-LOK DISCS
PSA DISCS
BONDED
BELTS
SURFACE CONDITIONING
CLEAN & FINISH
FLAP WHEELS
SHEETS
ROLLS
SPECIALTIES
NO LAP BANDS

LAB SHOWCASE

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Mild Steel

Stainless Steel

Aluminum

Titanium

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

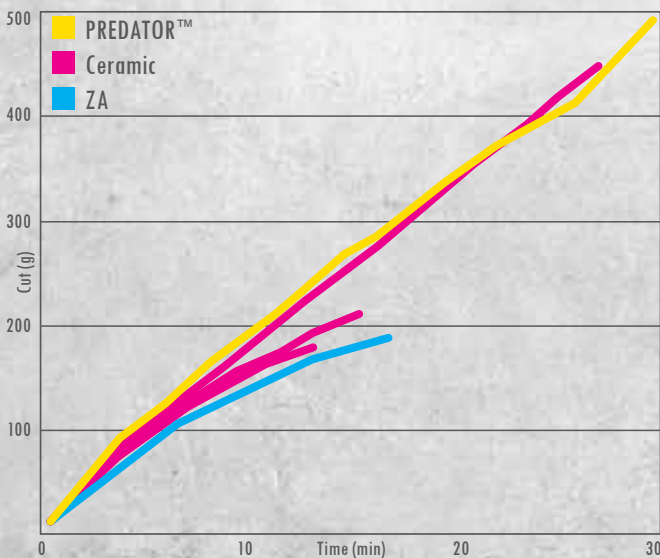
Competitive Products

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™ 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 Steel

Aluminum

Titanium

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

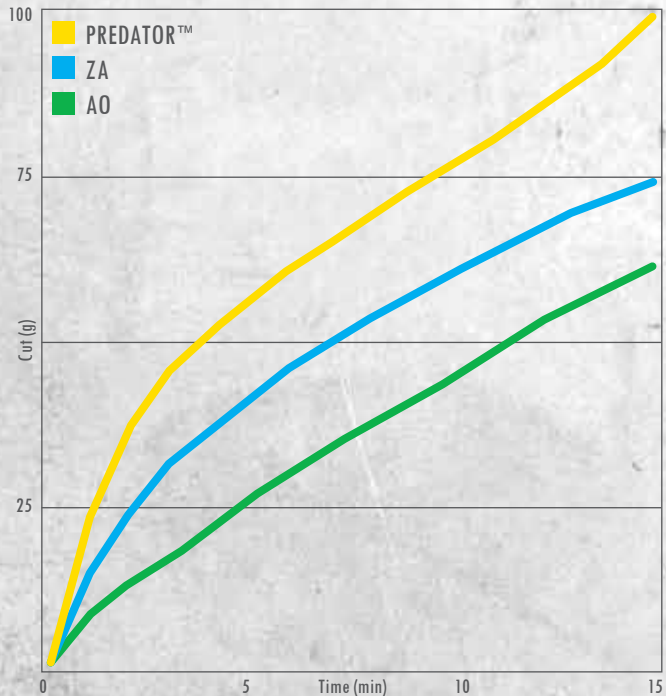
Zirconia alumina and aluminum oxide resin fibre discs.

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 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%.



LAB SHOWCASE

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Mild Steel

Stainless Steel

Aluminum

Titanium

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

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

ARC Products

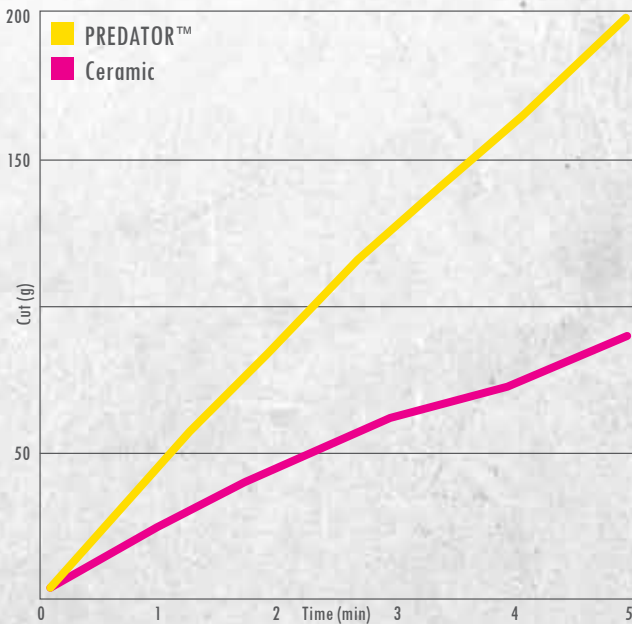
71-077802W 7 x 7/8" PREDATOR™ Resin Fibre Disc, 36 Grit

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 1/4" aluminum bar, focusing on the 1/4" 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™ disc cut 205.6g, versus the 95.3g, for an improvement of 216% over the competitive product.

Reduce loading and burning with Performance Coating.



RESIN FIBRE DISCS
FLAP DISCS
QUICK-LOK DISCS
PSA DISCS
BONDED
BELTS
SURFACE CONDITIONING
CLEAN & FINISH
FLAP WHEELS
SHEETS
ROLLS
SPECIALTIES
NO LAP BANDS

LAB SHOWCASE

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Mild Steel

Stainless Steel

Aluminum

Titanium

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

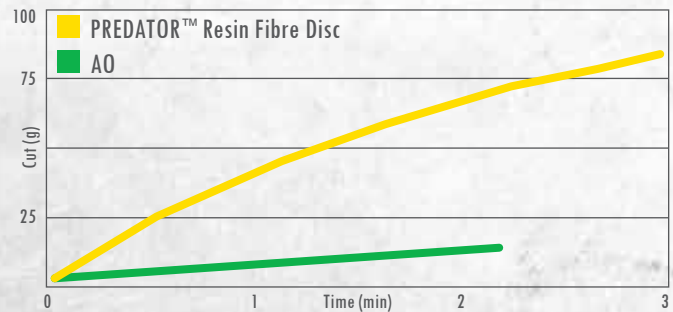
Manufacturer of custom fire trucks such as aerials, pumpers, rescues, tankers and specialty vehicles.

Competitive Products

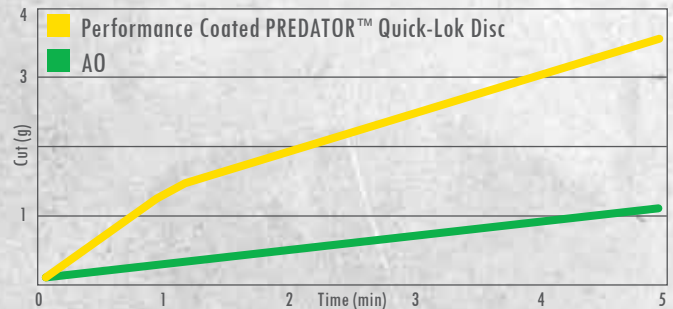
- 7 x 7/8" Resin Fibre Disc, 36 Grit
- 2" Quick Change Disc, 60 Grit
- 2" Surface Conditioning Quick Change Disc, CRS
- 5" PSA Disc, 100 & 500 Grit

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.

LAB SHOWCASE

030

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

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

Customer

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
- 54140** 3 x 2 x 1/4" Interleaf Mounted Flap Wheel, 180 Grit
- 54141** 3 x 2 x 1/4" Interleaf Mounted Flap Wheel, 320 Grit
- 07450** 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.

- RESIN FIBRE DISCS
- FLAP DISCS
- QUICK-LOK DISCS
- PSA DISCS
- BONDED
- BELTS
- SURFACE CONDITIONING
- CLEAN & FINISH
- FLAP WHEELS
- SHEETS
- ROLLS
- SPECIALTIES
- NO LAP BANDS

LAB SHOWCASE

256

Mild Steel

Stainless Steel

Aluminum

Titanium

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

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

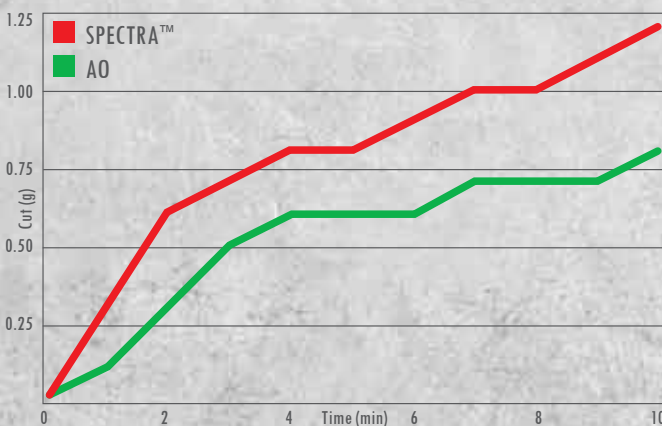
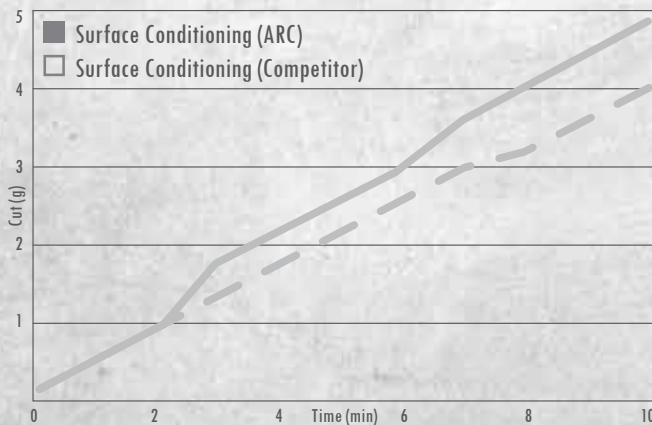
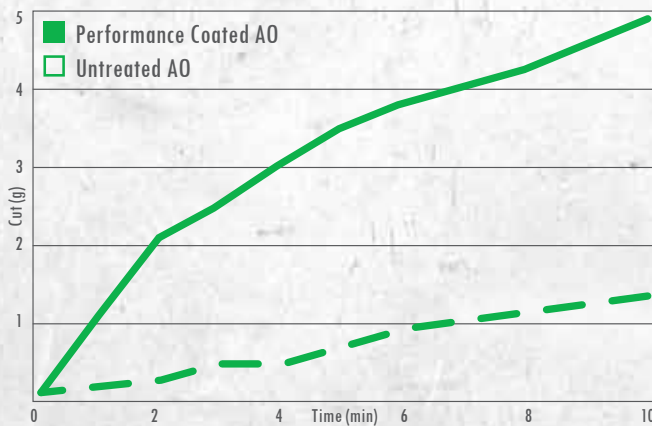
Test Method

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 3/4" 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.



LAB SHOWCASE

120

Mild Steel

Stainless Steel

Aluminum

Titanium

Quick-Lok Disc				
Resin Fibre Disc			•	
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

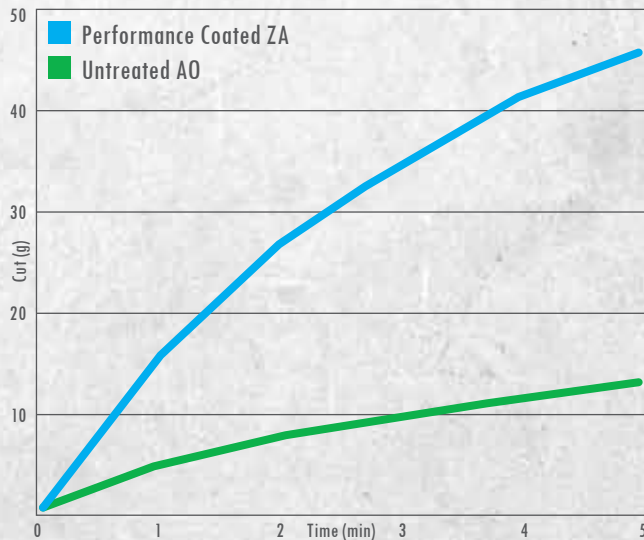
37203W 4-1/2 x 7/8" Zirconia Alumina Resin Fibre Disc, 36 Grit

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.

427

Mild Steel

Stainless Steel

Aluminum

Titanium

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

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

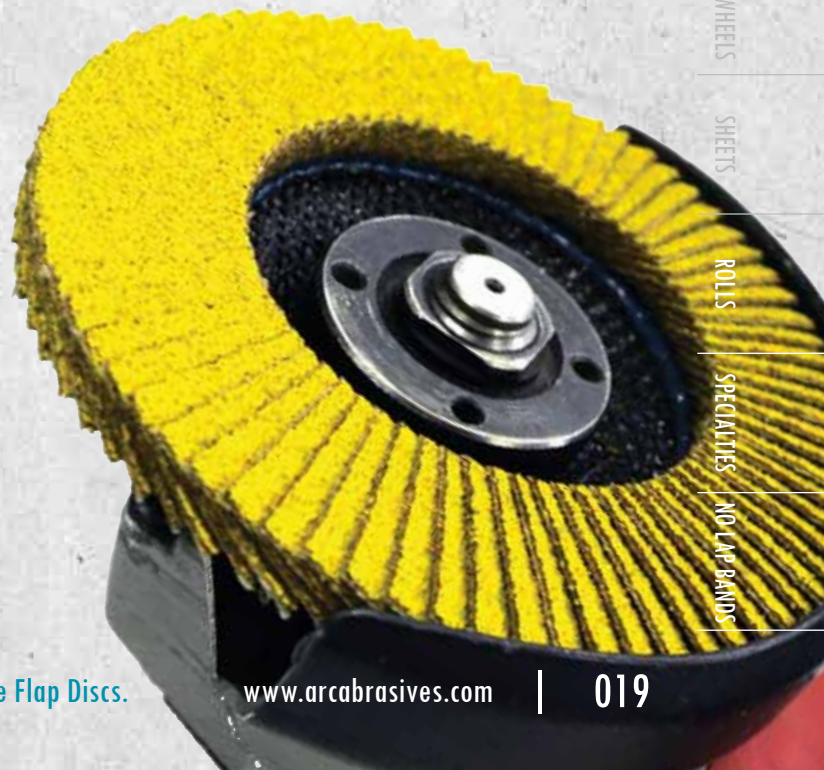
Test Method

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.

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.



LAB SHOWCASE

124

Mild Steel
Stainless Steel
Aluminum
Titanium

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™ 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 Steel
Aluminum
Titanium

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

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.

LAB SHOWCASE

267

Mild Steel

Stainless Steel

Aluminum

Titanium

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

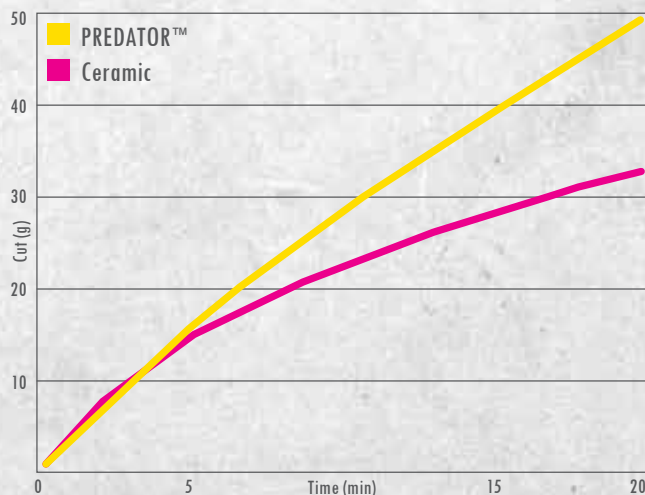
Various 2 and 3" Quick Change Discs, 36 or 60 grit

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.

PSA Discs available in 1/2" to 36" diameters.

425

Mild Steel

Stainless Steel

Aluminum

Titanium

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.

RESIN FIBRE DISCS

FLAP DISCS

QUICK-LOK DISCS

PSA DISCS

BONDED

BELTS

SURFACE CONDITIONING

CLEAN & FINISH

FLAP WHEELS

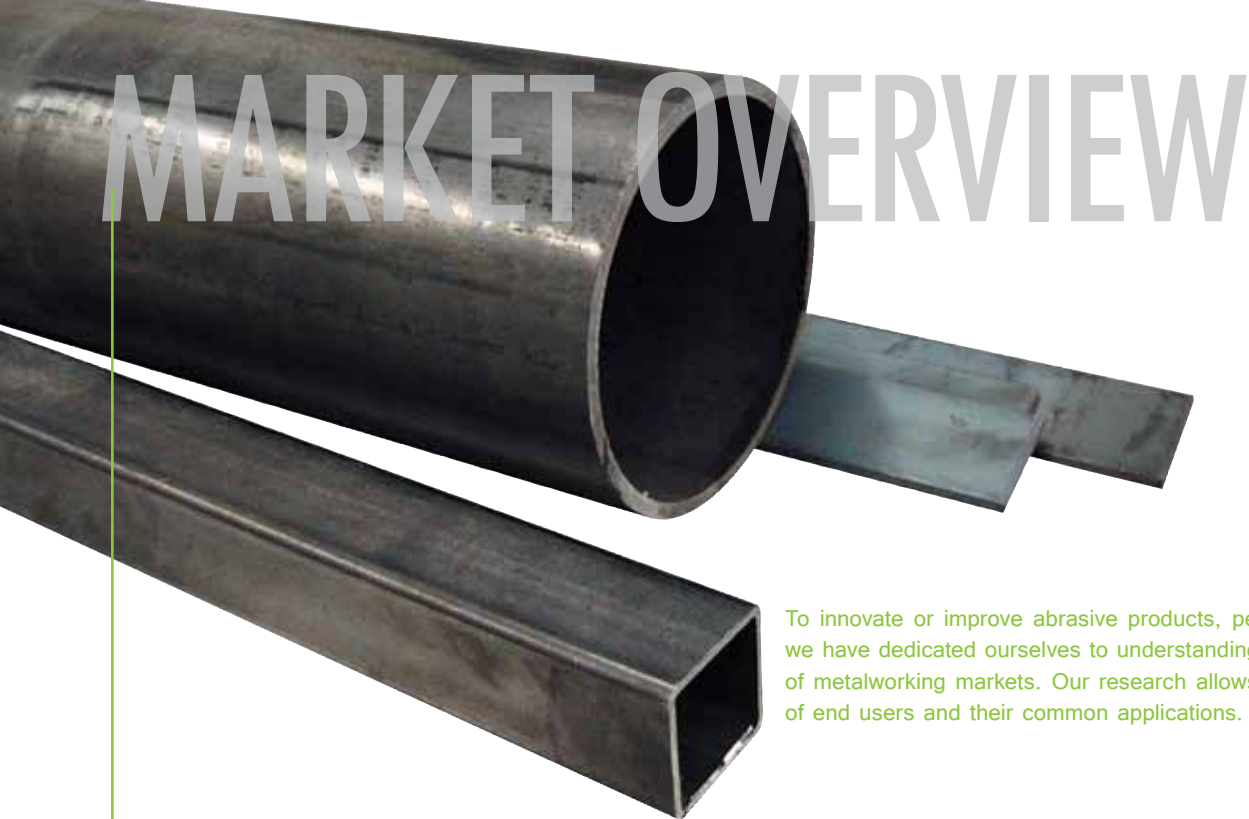
SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS





To innovate or improve abrasive products, performance and pricing, we have dedicated ourselves to understanding the unique challenges of metalworking markets. Our research allows us to meet the needs of end users and their common applications.

Heavy Mild Steel Fabrication

Description

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

Example

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.

MARKET OVERVIEW

Light Mild Steel Fabrication

Description

Lawn and garden tractors; Home lawn and garden equipment..... Kubota, John Deere, Honda
 Sheet metal work Metaldyne
 Automotive and other stampings Jefferson Southern Corp.

Example

Metals Used

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

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

Example

Metals Used

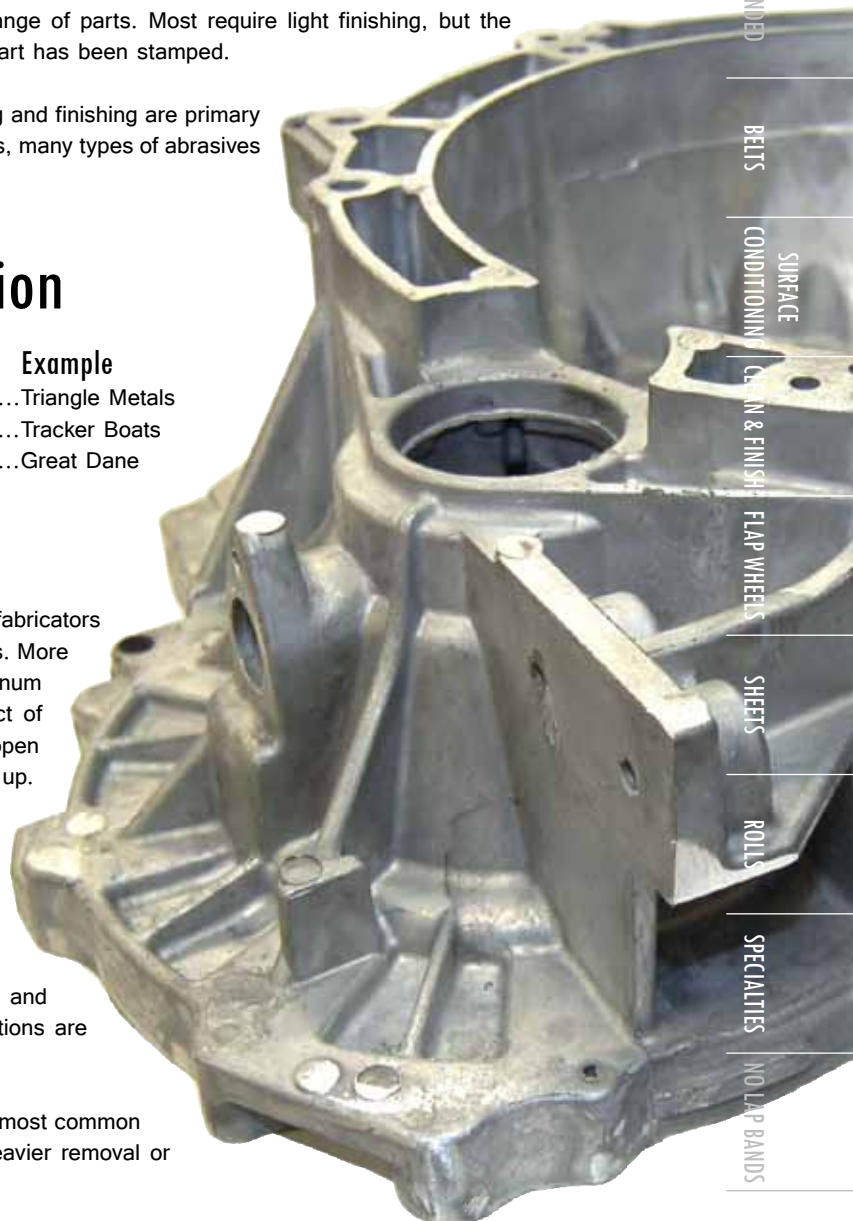
Aluminum; 2024, 6061, 7075

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.



RESIN FIBRE DISCS
 FLAP DISCS
 QUICK-LOK DISCS
 PSA DISCS
 BONDED
 BELTS
 SURFACE CONDITIONING
 CLEAN & FINISH
 FLAP WHEELS
 SHEETS
 ROLLS
 SPECIALTIES
 NO LAP BANDS

MARKET OVERVIEW



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 non-engine 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.

MARKET OVERVIEW

Stainless Steel Fabrication

Description

Food products machinery fabricators	Paul Mueller Co.
Special food products machinery	Stainless Fabricators Co.
Packaging machinery	Fleetwood Inc.
Industrial valves	Alfa Laval Tri-Clover
Architectural and ornamental metal work	Irving 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.

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BOUNDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS



97% on time shipping.

www.arcabrasives.com

COATED ABRASIVES

The cutting power of an abrasive grain is dependent on shape, hardness, toughness and orientation. All four factors control the penetration of cut and the life of the grain. The shape of the grain governs the cutting efficiency. Sharper grains produce a cleaner cut and tend to stay cooler during use. Blocky grains give a rougher cut and create more friction. It is understood that different applications require different types of abrasive grain.

* Grains shown at 1000%



* 36 Grit

Aluminum Oxide (AO)

Fused aluminum oxide is the most common abrasive grain in use today. AO is extremely tough and durable but has no clearly defined crystal structure. This means that when the grain eventually wears it produces rounded edges which reduce cutting power. Brown aluminum oxide is the usual grain for coated abrasives products but is also available in white, pink and other variants.

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.



* 36 Grit

Suggested Applications

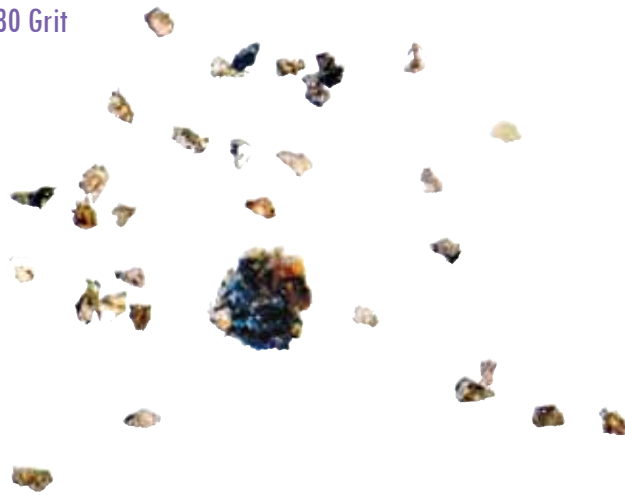
Heavy duty grinding on all ferrous and non-ferrous metals

- 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.

* 80 Grit



Suggested Applications

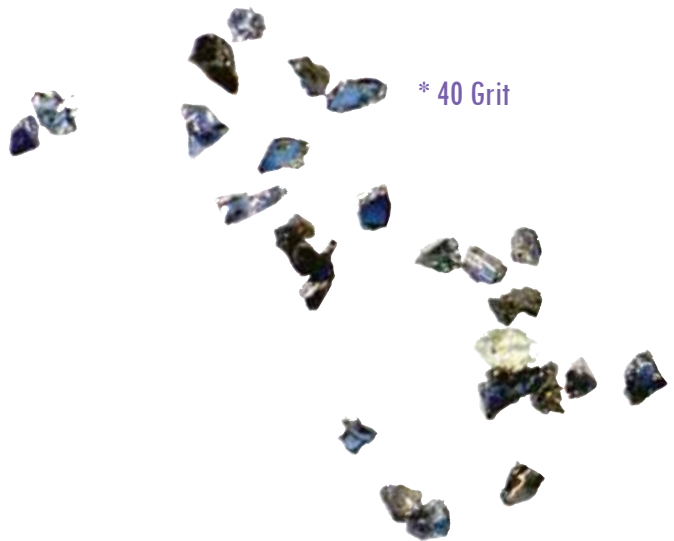
Mild and stainless steel, titanium and nickel alloys. Not suggested for non-ferrous materials.

- 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.

* 40 Grit



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

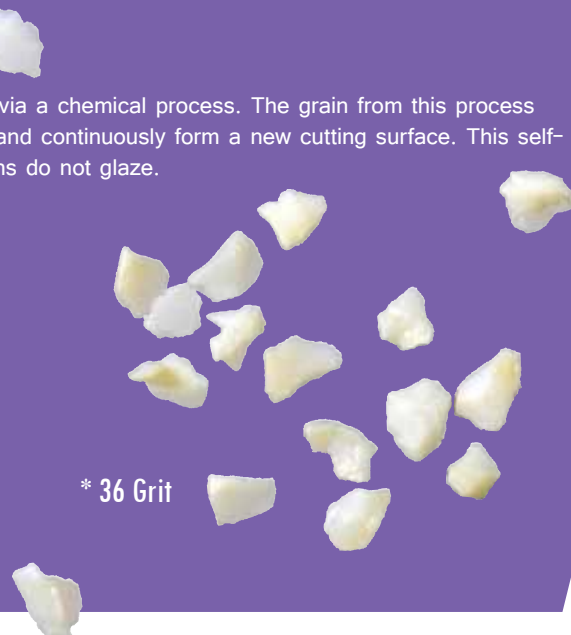
Unlike fused aluminum oxide, ceramic aluminum oxides are formed via a chemical process. The grain from this process comprises millions of smaller crystals which fracture off during use and continuously form a new cutting surface. This self-sharpening process requires heavy pressure to ensure that the 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

* 36 Grit



- RESIN FIBRE DISCS
- FLAP DISCS
- QUICK-LOK DISCS
- PSA DISCS
- BONDED
- BELTS
- SURFACE CONDITIONING
- CLEAN & FINISH
- FLAP WHEELS
- SHEETS
- ROLLS
- SPECIALTIES
- NO LAP BANDS

COATED ABRASIVES

Vulcanized Fibre

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.

Cloth

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).

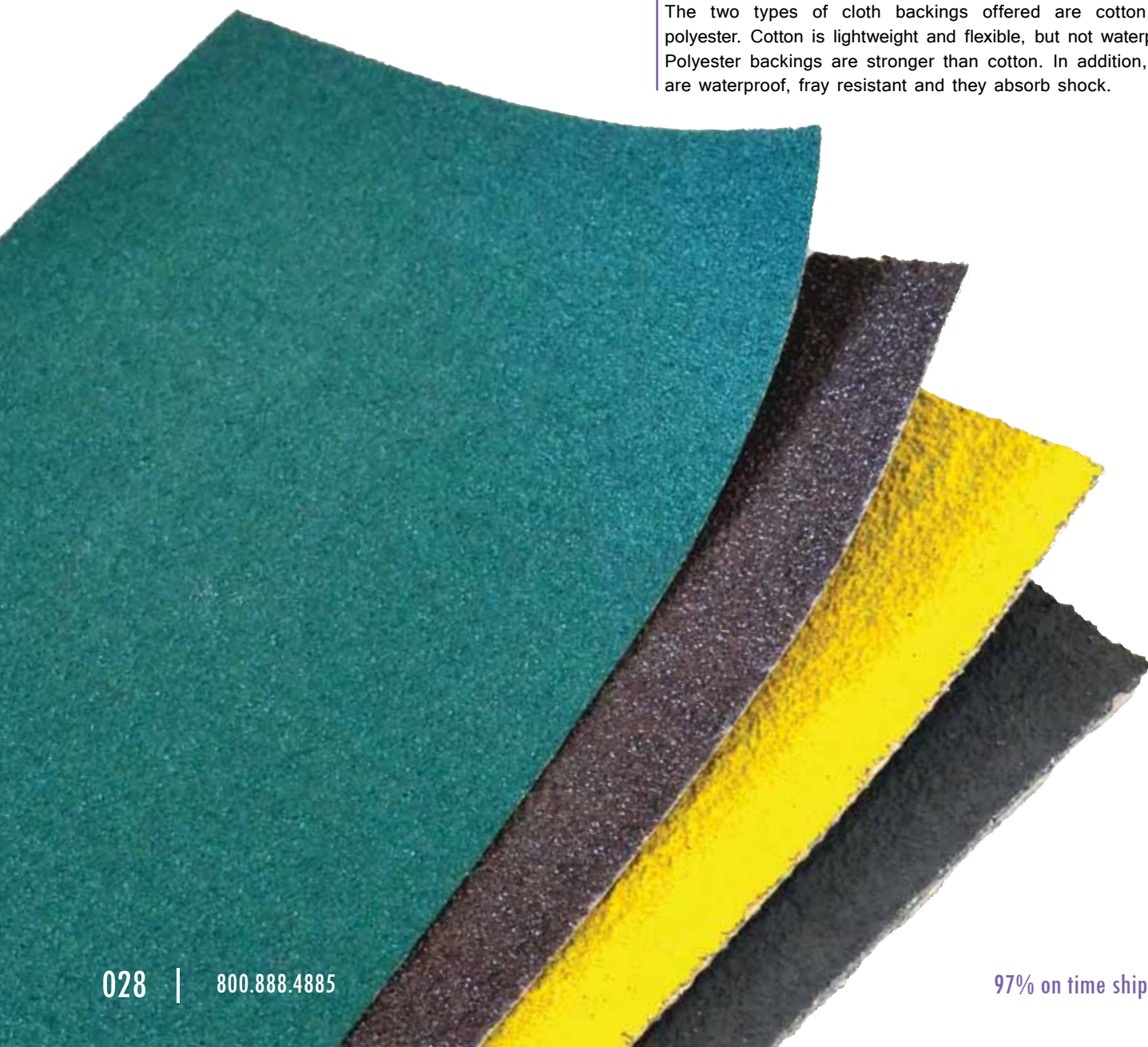
Cotton was the first cloth available. However, synthetic cloths, polyester and polyester/cotton mixes have become more prominent as they tend to be stronger and more stable in use. The synthetic polyesters are inherently waterproof while the cotton products need treatment to be waterproof.

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.



BACKING MATERIALS

Paper

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. Paper can also be made waterproof by the addition of latex and other water resistant resins.

Suggested Applications

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

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.



RESIN FIBRE DISCS
FLAP DISCS
DUCK-FOUR DISCS
PAPER DISCS
WATERPROOF DISCS
PAPER DISCS
CONDITIONING DISCS
CLEAN & FINISH DISCS
LAP WHEELS
SHEETS
ROLLS
SPECIALTIES
NO LAP BANDS

NONWOVEN ABRASIVES



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.

Coated Finish vs. Nonwoven Abrasive Finish

Grit Size	Clean & Finish Range	Surface Conditioning Range	Grit Size
60			60
80	Extra Cut (Brown)		80
100		100	
120		A Coarse (Brown)	120
150	A Medium (Tan) S Medium (Black)		150
180			A Medium (Maroon)
200		200	
220	A Fine (Maroon)		220
240	General Purpose (Green)		240
320			320
400	A Very Fine (Maroon)	A Very Fine (Blue)	400
500			500
600	S Ultra Fine (Gray)	S Superfine (Gray)	600
800			800
1000			1000

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.

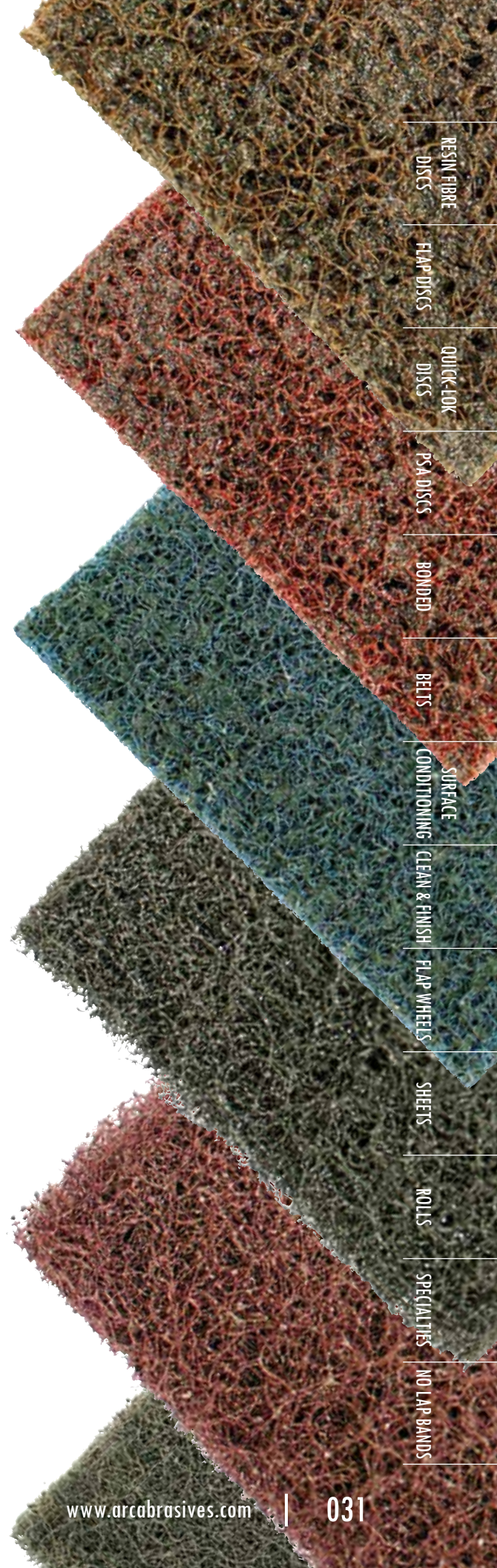
The conformability of nonwoven products leaves them less likely to gouge a work piece, avoiding disturbances to critical tolerances. The 3D structure disperses abrasive grains for a uniform scratch pattern throughout product life, and requires fewer finishing steps than coated materials.

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.

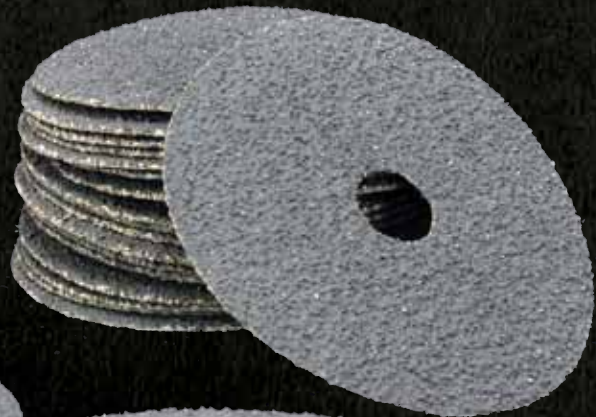


PRODUCT OVERVIEW

PREDATOR™

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.



RESIN FIBRE DISCS

General Purpose

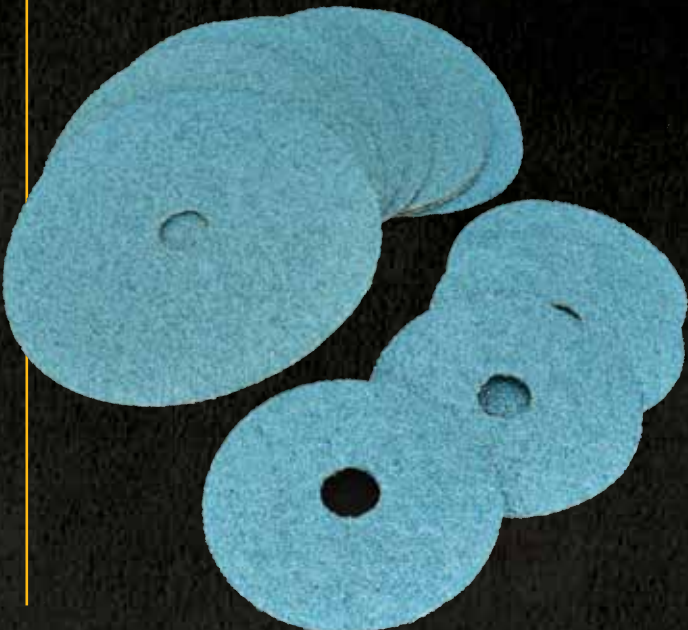
ALUMINUM OXIDE

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.



Performance Coating

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 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.



- RESIN FIBRE DISCS
- FLAP DISCS
- QUICK-GRIP DISCS
- PSA DISCS
- BONDED
- BELTS
- SURFACE CONDITIONING
- CLEAN & FINISH
- FLAP WHEELS
- SHEETS
- ROLLS
- SPECIALTIES
- NO LAP BANDS

APPS & SOLUTIONS

Mild Steel

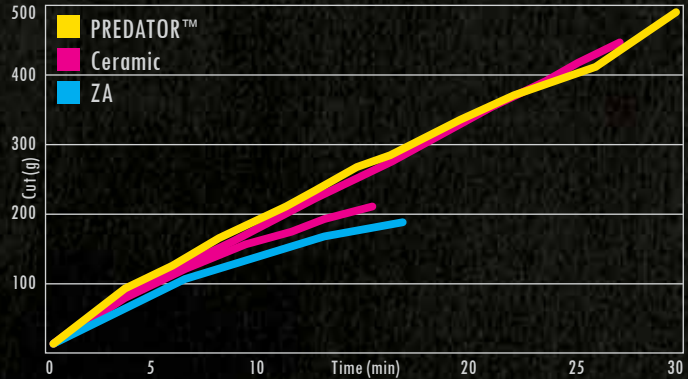
APPLICATION

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

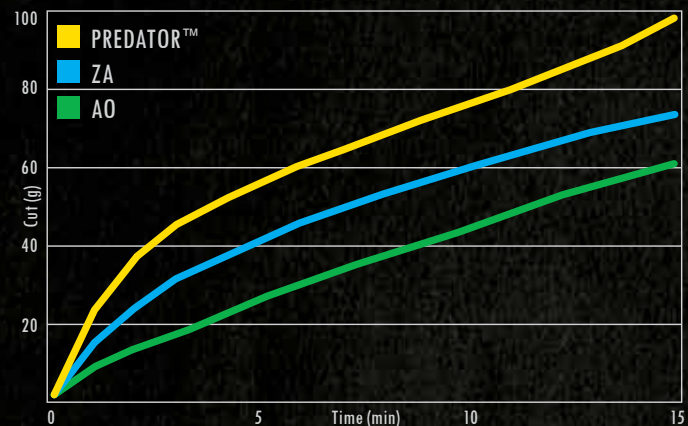
APPLICATION

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

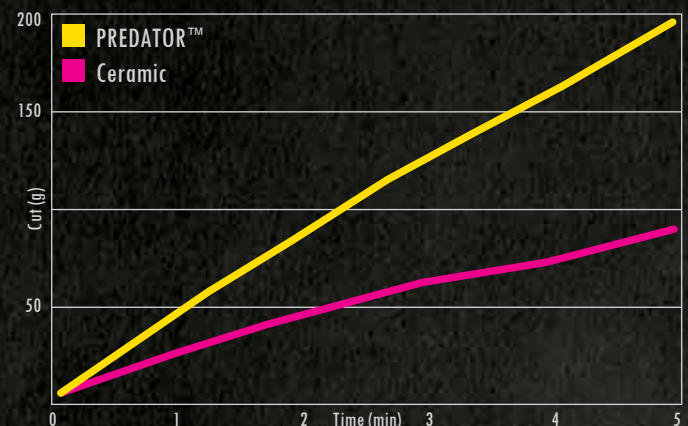
APPLICATION

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



RESIN FIBRE DISCS

PREDATOR™



- 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

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

Performance Coated PREDATOR™

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

- RESIN FIBRE DISCS
- FLAP DISCS
- QUICK-LOK DISCS
- PSA DISCS
- BONDED
- BELTS
- SURFACE CONDITIONING
- CLEAN & FINISH
- FLAP WHEELS
- SHEETS
- ROLLS
- SPECIALTIES
- NO LAP BANDS

RESIN FIBRE DISCS



- Quick changeover
- Increase productivity
- Compatible with all grinders
- No added cost
- No extra tooling

PREDATOR™ AP Rapid Release

5 x 7/8"	Item	Grit
<i>Pk Qty 25</i>	71-057801R	24
	71-057802R	36
	71-057804R	50
	71-057805R	60
	71-057806R	80
	71-057808R	120
7 x 7/8"	Item	Grit
<i>Pk Qty 25</i>	71-077801R	24
	71-077802R	36
	71-077804R	50
	71-077805R	60
	71-077806R	80
	71-077808R	120

Rapid Release Back-Up Pads

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

Aluminum Oxide

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



- General purpose
- Affordable choice for soft metals

RESIN FIBRE DISCS



- Affordable & efficient
- Great choice for stainless

Zirconia Alumina

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



Back-Up Pads & Accessories

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

Additional items are available. Contact us for details.

RESIN FIBRE DISCS

FLAP DISCS

QUICK-LOK DISCS

PSA DISCS

BONDED

BELTS

SURFACE CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

PRODUCT OVERVIEW

Hard Edge Geometry

PREDATOR™



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

Mini Flap Discs



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 time-saving 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.

General Purpose

ZIRCONIA ALUMINA

An excellent general purpose abrasive, ideal for use on steel, aluminum and composites. The cotton backing adds strength and durability to a very competitive product.



ALUMINUM OXIDE

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

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.

RESIN FIBRE DISCS

FLAP DISCS

QUICK-LOK DISCS

PSA DISCS

BONDED

BELTS

SURFACE CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

APPS & SOLUTIONS

Mild Steel

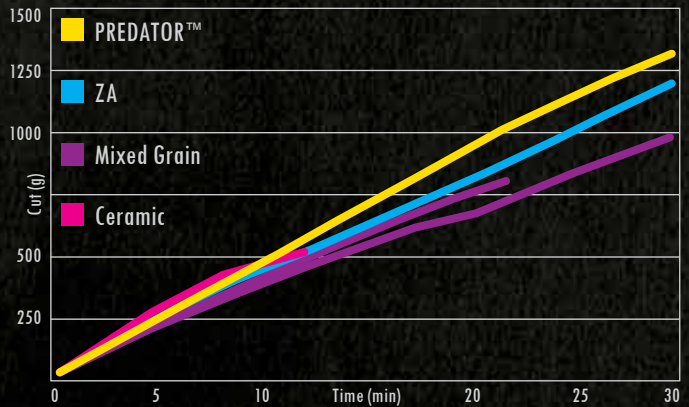
APPLICATION

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

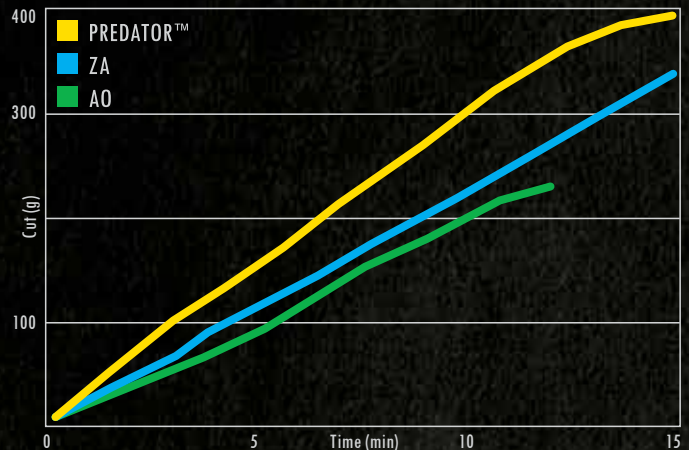
APPLICATION

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

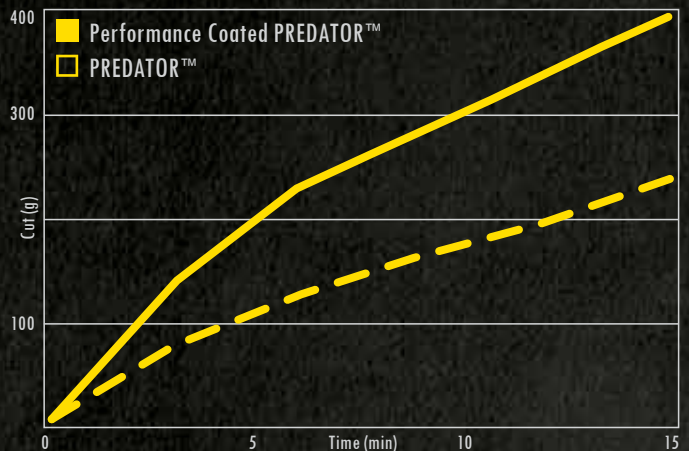
APPLICATION

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



FLAP DISCS

PREDATOR™ AP Flap Discs



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

4-1/2 x 7/8"	Fiberglass	Aluminum	Grit	Max RPM
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	71-10813FXL	71-10813XL	36	13,300
	71-10814FXL	71-10814XL	40	13,300
	71-10818FXL	71-10818XL	50	13,300
	71-10815FXL	71-10815XL	60	13,300
	71-10816FXL	71-10816XL	80	13,300
	71-10817FXL	71-10817XL	120	13,300

Performance Coated PREDATOR™ AP Flap Discs

4-1/2 x 7/8"	Fiberglass	Aluminum	Grit	Max RPM
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	71-10813FXLW	71-10813XLW	36	13,300
	71-10814FXLW	71-10814XLW	40	13,300
	71-10818FXLW	71-10818XLW	50	13,300
	71-10815FXLW	71-10815XLW	60	13,300
	71-10816FXLW	71-10816XLW	80	13,300
	71-10817FXLW	71-10817XLW	120	13,300

RESIN FIBRE DISCS
 FLAP DISCS
 QUICK-LOK DISCS
 PSA DISCS
 BONDED
 BELTS
 SURFACE CONDITIONING
 CLEAN & FINISH
 FLAP WHEELS
 SHEETS
 ROLLS
 SPECIALTIES
 NO LAP BANDS

FLAP DISCS



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

PREDATOR™

4-1/2 x 7/8"	Type 27	Hard Edge	Grit	Max RPM
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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

FLAP DISCS

Performance Coated PREDATOR™



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

4-1/2 x 7/8"	Type 27	Hard Edge	Grit	Max RPM
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

FLAP DISCS



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



PREDATOR™ AP Mini Flap Discs

2"	Item	Grit
<i>Pk Qty 10</i>	71-1056403	40
	71-1056405	60
	71-1056406	80
	71-1056408	120
3"	Item	Grit
<i>Pk Qty 10</i>	71-1056503	40
	71-1056505	60
	71-1056506	80
	71-1056508	120

Performance Coated PREDATOR™ AP Mini Flap Discs

2"	Item	Grit
<i>Pk Qty 10</i>	71-1056403W	40
	71-1056405W	60
	71-1056406W	80
	71-1056408W	120
3"	Item	Grit
<i>Pk Qty 10</i>	71-1056503W	40
	71-1056505W	60
	71-1056506W	80
	71-1056508W	120

Mini Flap Disc Holders

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

FLAP DISCS

Aluminum Oxide



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

4 x 5/8"	Type 27	Type 29	Grit	Max RPM
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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

4-1/2 x 5/8"-11	Type 27	Type 29	Grit	Max RPM
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	1063262-1	1063362-2	36	12,150
	1063263-1	1063363-2	40	12,150
	1063265-1	1063365-2	60	12,150
	1063266-1	1063366-2	80	12,150
	1063268-1	1063368-2	120	12,150

7 x 7/8"	Type 27	Type 29	Grit	Max RPM
<i>Pk Qty 10</i>	1063272-1	1063372-2	36	8,600
	1063273-1	1063373-2	40	8,600
	1063275-1	1063375-2	60	8,600
	1063276-1	1063376-2	80	8,600
	1063278-1	1063378-2	120	8,600

7 x 5/8"-11	Type 27	Type 29	Grit	Max RPM
<i>Pk Qty 10</i>	1063172-1	1063572-2	36	8,600
	1063173-1	1063573-2	40	8,600
	1063175-1	1063575-2	60	8,600
	1063176-1	1063576-2	80	8,600
	1063178-1	1063578-2	120	8,600

RESIN FIBRE DISCS

FLAP DISCS

QUICK-LOK DISCS

PSA DISCS

BOUNDED

BELTS

SURFACE CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

FLAP DISCS



- 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
<i>Pk Qty 10</i>	10803FF	10803AF	36	15,150
	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
<i>Pk Qty 10</i>	10823FF	10823AF	36	13,300
	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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

FLAP DISCS

Zirconia Alumina

Aluminum Backing Plate



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

4 x 5/8"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	10803	36	15,150
	10804	40	15,150
	10805	60	15,150
	10806	80	15,150
	10807	120	15,150

4-1/2 x 7/8"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	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	Item	Grit	Max RPM
<i>Pk Qty 10</i>	10813	36	13,300
	10814	40	13,300
	10815	60	13,300
	10816	80	13,300
	10817	120	13,300

5 x 7/8"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	10843	36	12,150
	10844	40	12,150
	10845	60	12,150
	10846	80	12,150
	10847	120	12,150

5 x 5/8"-11	Item	Grit	Max RPM
<i>Pk Qty 10</i>	10833	36	12,150
	10834	40	12,150
	10835	60	12,150
	10836	80	12,150
	10837	120	12,150

7 x 7/8"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	10863	36	8,600
	10864	40	8,600
	10865	60	8,600
	10866	80	8,600
	10867	120	8,600

7 x 5/8"-11	Item	Grit	Max RPM
<i>Pk Qty 10</i>	10853	36	8,600
	10854	40	8,600
	10855	60	8,600
	10856	80	8,600
	10857	120	8,600

RESIN FIBRE DISCS

FLAP DISCS

QUICK-LOK DISCS

PSA DISCS

BONDED

BELTS

SURFACE CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

PRODUCT OVERVIEW

PREDATOR™

PREDATOR™ 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.



Performance Coating

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 faster than untreated discs.



QUICK-LOK DISCS

Compact Grain

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.



Quick-Lok Disc Options

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.

BUTTON TYPE



The quick change mechanism allows fast product change-over 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 quick-lok disc holders are available for each diameter.

MAXBAK™

Not as stiff as resin fibre quick-lok discs, MAXBAK™ quick-loks 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.

SINGLE-PLY



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.



Stocking programs are available to assist our distributor partners.

www.arcabrasives.com

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- RESIN FIBRE DISCS
- FLAP DISCS
- QUICK-LOK DISCS**
- PEA DISCS
- BONDED
- BELTS
- SURFACE CONDITIONING
- CLEAN & FINISH
- FLAP WHEELS
- SHEETS
- ROLLS
- SPECIALTIES
- NO LAP BANDS

APPS & SOLUTIONS

Mild Steel

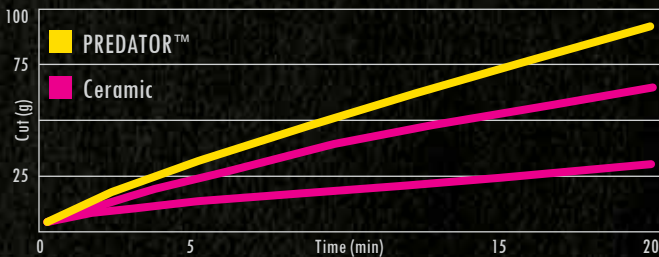
APPLICATION

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 quick-lok 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



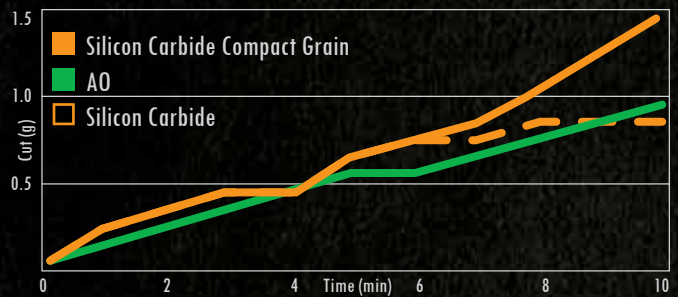
Exotic Alloy

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™, and resin fibre backings are all available for our PREDATOR™ 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

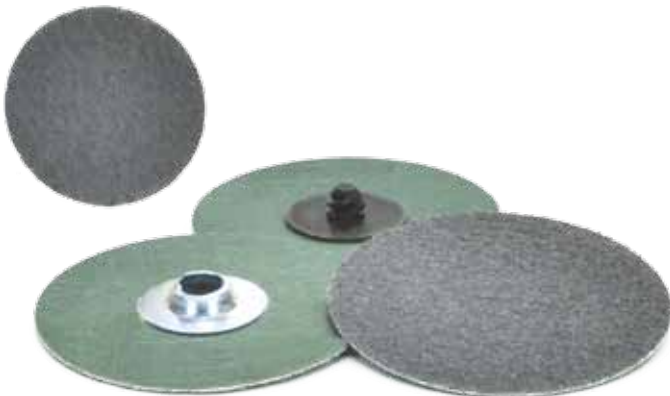


QUICK-LOK DISCS

PREDATOR™



- 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

Additional items are available. Contact us for details.

1-1/2"	Type R	Type S	Grit
<i>Pk Qty 100</i>	71-31638	71-31438	36
	71-31639	71-31439	40
	71-31640	71-31440	50
	71-31641	71-31441	60
	71-31642	71-31442	80
	71-31643	71-31443	100
	71-31644	71-31444	120
2"	Type R	Type S	Grit
<i>Pk Qty 100</i>	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
<i>Pk Qty 50</i>	71-31662	71-31462	36
	71-31663	71-31463	40
	71-31664	71-31464	50
	71-31665	71-31465	60
	71-31666	71-31466	80
	71-31667	71-31467	100
	71-31668	71-31468	120
	4"	Type R	Type S
<i>Pk Qty 50</i>	71-31674	71-31474	36
	71-31675	71-31475	40
	71-31676	71-31476	50
	71-31677	71-31477	60
	71-31678	71-31478	80
	71-31679	71-31479	100
	71-31680	71-31480	120

PREDATOR™ Resin Fibre

2"	Type R	Type S	Grit
<i>Pk Qty 100</i>	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
<i>Pk Qty 50</i>	71-36301	71-38301	24
	71-36302	71-38302	36
	71-36304	71-38304	50
	71-36305	71-38305	60
	71-36306	71-38306	80
	71-36308	71-38308	120

RESIN FIBRE DISCS

FLAP DISCS

QUICK-LOK DISCS

PSA DISCS

BONDED

BELTS

SURFACE CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

QUICK-LOK DISCS



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

Performance Coated PREDATOR™

1-1/2"	Type R	Type S	Grit
<i>Pk Qty 100</i>	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
<i>Pk Qty 100</i>	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

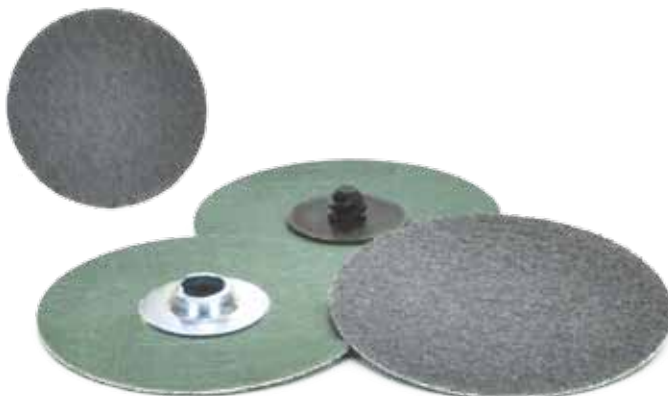
3"	Type R	Type S	Grit
<i>Pk Qty 50</i>	71-31662W	71-31462W	36
	71-31663W	71-31463W	40
	71-31664W	71-31464W	50
	71-31665W	71-31465W	60
	71-31666W	71-31466W	80
	71-31667W	71-31467W	100
	71-31668W	71-31468W	120

4"	Type R	Type S	Grit
<i>Pk Qty 50</i>	71-31674W	71-31474W	36
	71-31675W	71-31475W	40
	71-31676W	71-31476W	50
	71-31677W	71-31477W	60
	71-31678W	71-31478W	80
	71-31679W	71-31479W	100
	71-31680W	71-31480W	120

Performance Coated PREDATOR™ Resin Fibre

2"	Type R	Type S	Grit
<i>Pk Qty 100</i>	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
<i>Pk Qty 50</i>	71-36301W	71-38301W	24
	71-36302W	71-38302W	36
	71-36304W	71-38304W	50
	71-36305W	71-38305W	60
	71-36306W	71-38306W	80
	71-36308W	71-38308W	120



QUICK-LOK DISCS

Aluminum Oxide



- General purpose metalworking
- Affordable choice for soft metals

1"	Type R	Type S	Grit
<i>Pk Qty 100</i>	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	180
	31623	31423	240
	31624	31424	320
2"	Type R	Type S	Grit
<i>Pk Qty 100</i>	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
<i>Pk Qty 50</i>	31661	31461	24
	31662	31462	36
	31663	31463	40
	31664	31464	50
	31665	31465	60
	31666	31466	80
	31667	31467	100
	31668	31468	120
	31669	31469	150
	31670	31470	180
	31671	31471	240
	31672	31472	320
4"	Type R	Type S	Grit
<i>Pk Qty 50</i>	31673	31473	24
	31674	31474	36
	31675	31475	40
	31676	31476	50
	31677	31477	60
	31678	31478	80
	31679	31479	100
	31680	31480	120
	31681	31481	150
	31682	31482	180
	31683	31483	240
	31684	31484	320

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

QUICK-LOK DISCS

Aluminum Oxide PLUS



- General purpose metalworking
- Added grinding aid

2"	Type R	Type S	Grit
<i>Pk Qty 100</i>	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
<i>Pk Qty 50</i>	31662-02	31462-1	36
	31663-02	31463-1	40
	31664-02	31464-1	50
	31665-02	31465-1	60
	31666-02	31466-1	80
	31667-02	31467-1	100
	31668-02	31468-1	120
	31669-02	31469-1	150
	31670-02	31470-1	180

Compact Grain



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

2"	Type R	Type S	Grit
<i>Pk Qty 100</i>	31654-5	31454-5	80
	31656-5	31456-5	120
3"	Type R	Type S	Grit
<i>Pk Qty 50</i>	31666-5	31466-5	80
	31668-5	31468-5	120

Silicon Carbide Compact Grain

2"	Type R	Type S	Grit
<i>Pk Qty 100</i>	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
<i>Pk Qty 50</i>	31666-8	31466-8	80
	31668-8	31468-8	120
	31670-8	31470-8	180
	31671-8	31471-8	240

QUICK-LOK DISCS

Zirconia Alumina



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



Size	Type R	Type S	Grit
1-1/2" <i>Pk Qty 100</i>	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" <i>Pk Qty 100</i>	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" <i>Pk Qty 50</i>	31725	31546	24
	31726	31547	36
	31727	31548	40
	31728	31549	50
	31729	31550	60
	31730	31551	80
	31731	31552	100
	31732	31553	120
4" <i>Pk Qty 50</i>	31733	31556	24
	31734	31557	36
	31735	31558	40
	31736	31559	50
	31737	31560	60
	31738	31561	80
	31739	31562	100
	31740	31563	120

Quick-Lok Disc Holders

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

Additional items are available. Contact us for details.

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055

RESIN FIBRE DISCS
FLAP DISCS
QUICK-LOK DISCS
PSA DISCS
BOUNDED
BELTS
SURFACE CONDITIONING
CLEAN & FINISH
FLAP WHEELS
SHEETS
ROLLS
SPECIALTIES
NO LAP BANDS

PRODUCT OVERVIEW

SPECTRA™

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 steared 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.

056 | 800.888.4885

Proudly serving the metalworking industry for over 50 years.

PSA DISCS

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.



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.

PSA Disc Options

STANDARD DISCS AND DISC ROLLS

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 common disc roll sizes.

VACUUM HOLES

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



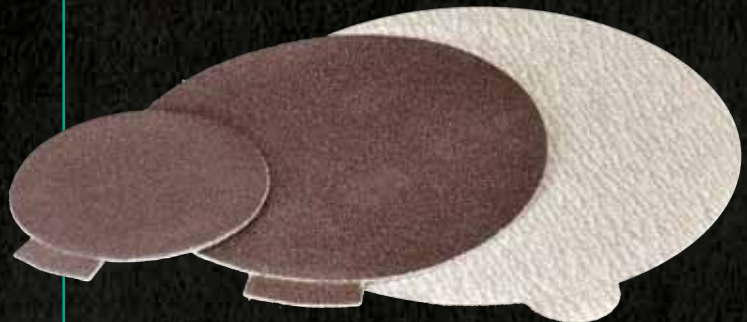
LARGE DISCS

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.

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

APPS & SOLUTIONS

Mild Steel

APPLICATION

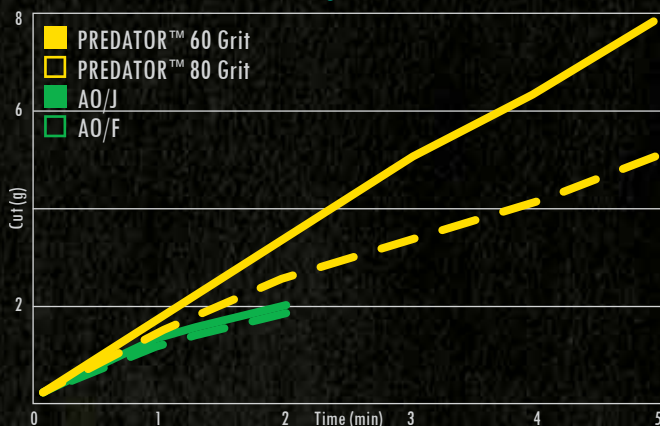
PSA and hook & loop discs are commonly used to administer the final finish of a part before painting. Different backing options are utilized depending on the geometry of the work piece. Large, rough areas with sharp burrs, corners and weld spatter would require a heavier cloth disc. Finer finishing and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



Stainless Steel

APPLICATION

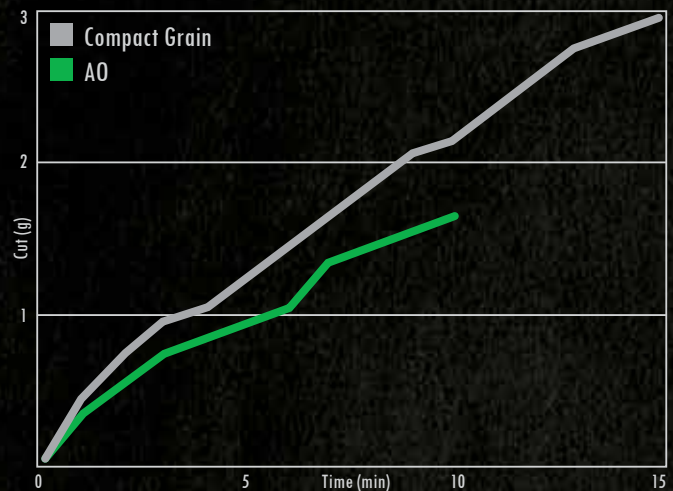
Stainless finishing contains a wide range of application factors, and your use of a particular PSA disc will depend on the size, geometry and final surface requirement. All of these factors indicate the type of grain, backing, flexibility and size needed.

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

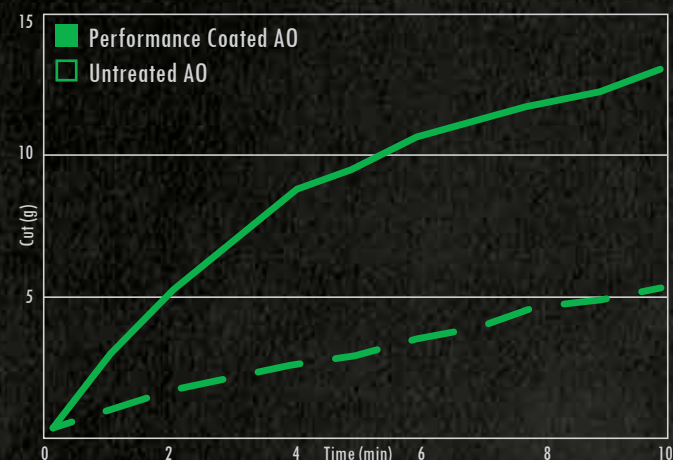
APPLICATION

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



PSA DISCS

PREDATOR™



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

Size	Item	Grit
5"	<i>Pk Qty 50</i>	
	71-30438	36
	71-30439	40
	71-30440	50
	71-30441	60
	71-30442	80
	71-30444	120
6"	<i>Pk Qty 50</i>	
	71-30450	36
	71-30451	40
	71-30452	50
	71-30453	60
	71-30454	80
	71-30456	120
8"	<i>Pk Qty 50</i>	
	71-30474	36
	71-30475	40
	71-30476	50
	71-30477	60
	71-30478	80
	71-30480	120
10"	<i>Pk Qty 25</i>	
	71-30498	36
	71-30499	40
	71-30500	50
	71-30501	60
	71-30502	80
	71-30504	120
12"	<i>Pk Qty 25</i>	
	71-30510	36
	71-30511	40
	71-30512	50
	71-30513	60
	71-30514	80
	71-30516	120
20"	<i>Pk Qty 10</i>	
	71-30558	36
	71-30559	40
	71-30560	50
	71-30561	60
	71-30562	80
	71-30564	120
24"	<i>Pk Qty 5</i>	
	71-30570	36
	71-30571	40
	71-30572	50
	71-30573	60
	71-30574	80
	71-30576	120

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

PAPER DISCS



SPECTRA™ PSA w/ Tab

Pk Qty 100

5"	6"	Grit
31506	36606	80
31507	36607	100
31508	36608	120
31509	36609	150
31510	36610	180
31511	36611	220
31512	36612	240
31514	36614	320
31515	36615	400
31517	36617	600

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



SPECTRA™ PSA Disc Rolls

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™ Hook & 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

PSA DISCS

Aluminum Oxide - Cloth



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

1/2"	Item	Grit
<i>Pk Qty 100</i>	30354	36
	30355	40
	30356	50
	30357	60
	30358	80
	30359	100
	30360	120
	30361	150
	30362	180
	30362GR	220
	30363	240
	30364	320
	30364GR	400
3/4"	Item	Grit
<i>Pk Qty 100</i>	30366	36
	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"	Item	Grit
<i>Pk Qty 100</i>	30378	36
	30379	40
	30380	50
	30381	60
	30382	80
	30383	100
	30384	120
	30385	150
	30386	180
	30386GR	220
	30387	240
	30388	320
	30388GR	400
2"	Item	Grit
<i>Pk Qty 100</i>	30402	36
	30403	40
	30404	50
	30405T	60
	30406T	80
	30407T	100
	30408T	120
	30409T	150
	30410T	180
	30410TGR	220
	30411T	240
	30412T	320
	30412TZ2	400

RESIN FIBRE
DISCS

FLAP
DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

PSA DISCS



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

Aluminum Oxide - Cloth

3"	Item	Grit
<i>Pk Qty 50</i>	30414	36
	30415	40
	30416	50
	30417T	60
	30418T	80
	30419T	100
	30420T	120
	30421T	150
	30422T	180
	30422TZ1	220
	30423T	240
	30424T	320
	30424TGR	400
4"	Item	Grit
<i>Pk Qty 50</i>	30426	36
	30427	40
	30428	50
	30429T	60
	30430T	80
	30431T	100
	30432T	120
	30433T	150
	30434T	180
	30434Z1T	220
	30435T	240
	30436T	320
	30436Z2T	400
5"	Item	Grit
<i>Pk Qty 50</i>	30438	36
	30439	40
	30440	50
	30441T	60
	30442T	80
	30443T	100
	30444T	120
	30445T	150
	30446T	180
	30446TZ2	220
	30447T	240
	30448T	320
	30448TGR	400
6"	Item	Grit
<i>Pk Qty 50</i>	30450	36
	30451	40
	30452	50
	30453T	60
	30454T	80
	30455T	100
	30456T	120
	30457T	150
	30458T	180
	30458TZ1	220
	30459T	240
	30460T	320
	30460TGR	400

PSA DISCS

Aluminum Oxide - Cloth

8"	Item	Grit
<i>Pk Qty 50</i>	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"	Item	Grit
<i>Pk Qty 25</i>	30498	36
	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"	Item	Grit
<i>Pk Qty 25</i>	30510	36
	30511	40
	30512	50
	30513	60
	30514	80
	30515	100
	30516	120
	30517	150
	30518	180
	30518Z2	220
	30519	240
	30520	320
	30520GR	400

15"	Item	Grit
<i>Pk Qty 25</i>	30522	36
	30523	40
	30524	50
	30525	60
	30526	80
	30527	100
	30528	120
	30529	150
	30530	180
	30530Z1	220
	30531	240
	30532	320
	30532GR	400

16"	Item	Grit
<i>Pk Qty 25</i>	30534	36
	30535	40
	30536	50
	30537	60
	30538	80
	30539	100
	30540	120
	30541	150
	30542	180
	30542Z1	220
	30543	240
	30544	320
	30544GR	400

18"	Item	Grit
<i>Pk Qty 10</i>	30546	36
	30547	40
	30548	50
	30549	60
	30550	80
	30551	100
	30552	120
	30553	150
	30554	180
	30554Z1	220
	30555	240
	30556	320
	30556GR	400

20"	Item	Grit
<i>Pk Qty 10</i>	30558	36
	30559	40
	30560	50
	30561	60
	30562	80
	30563	100
	30564	120
	30565	150
	30566	180
	30566Z1	220
	30567	240
	30568	320
	30568Z1	400

24"	Item	Grit
<i>Pk Qty 5</i>	30570-8	36
	30571	40
	30572	50
	30573	60
	30574	80
	30575	100
	30576	120
	30577	150
	30578	180
	30578Z1	220
	30579	240
	30580	320
	30580GR	400

- RESIN FIBRE DISCS
- FLAP DISCS
- QUICK-LOK DISCS
- PSA DISCS**
- BOUNDED
- BELTS
- SURFACE CONDITIONING
- CLEAN & FINISH
- FLAP WHEELS
- SHEETS
- ROLLS
- SPECIALTIES
- NO LAP BANDS

PSA DISCS



- Fine grinding with tight tolerances
- Ideal for technical operations

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



- 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

8"	12"	Grit
35200TPL	35203TPL	60
35201TPL	35204TPL	80
35117TPL	35205TPL	120
35119TPL	35132TPL	180
35121TPL	35134TPL	240
35123TPL	35136TPL	320
35124TPL	35137TPL	400
35126TPL	35139TPL	600
35126Z22TPL	35139Z1TPL	800/2400
35126Z23TPL	35139Z2TPL	1000/3000
35126Z24TPL	35139Z3TPL	1200/4000

PSA DISCS

Cloth Disc Holders

Pk Qty 1



Size	Item	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

RESIN FIBRE DISCS

FLAP DISCS

QUICK-LOK DISCS

PSA DISCS

BONDED

BELTS

SURFACE CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

Paper Disc Holders

Pk Qty 1



Size	Item	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	Item	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

Additional items are available. Contact us for details.

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PRODUCT OVERVIEW

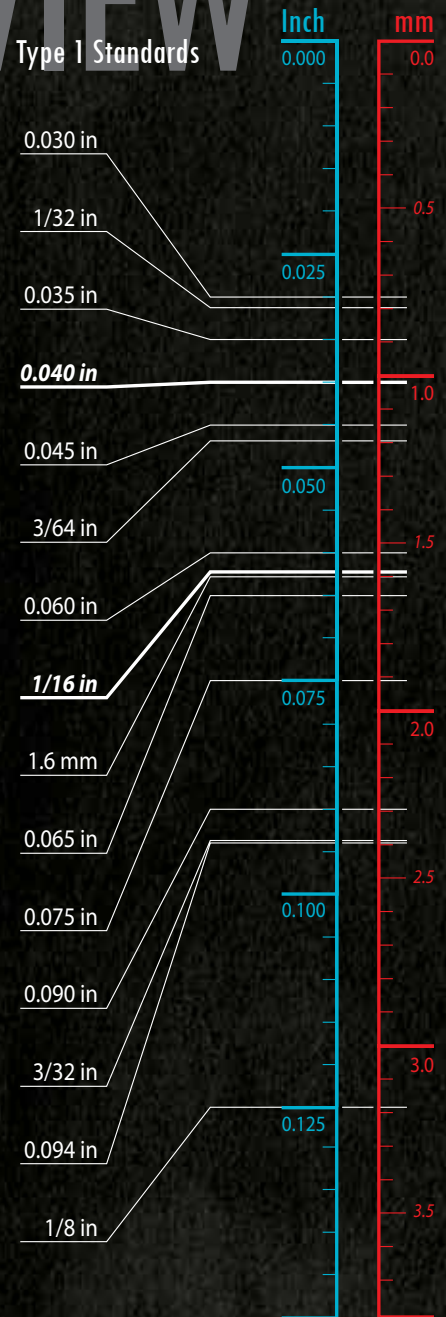
PREDATOR™ Type 1 Cut Off Wheels

Thin cut off wheels are designed for fast and accurate cutting and trimming. The accuracy of a cut depends on the thickness of the wheel. With tight tolerances, cutting or trimming with a thick wheel can disrupt accuracy, requiring more secondary work. It is important to choose the correct thickness for each application.

The industry standard in wheel thickness ranges from 0.030" to 0.125". PREDATOR™ Cut Off Wheels are offered in two widths - 0.040" and 0.0625" (or 1/16"). The thin dimensions of PREDATOR™ Cut Off Wheels prevent excessive material removal, allowing the wheel to last longer while producing finer cuts.

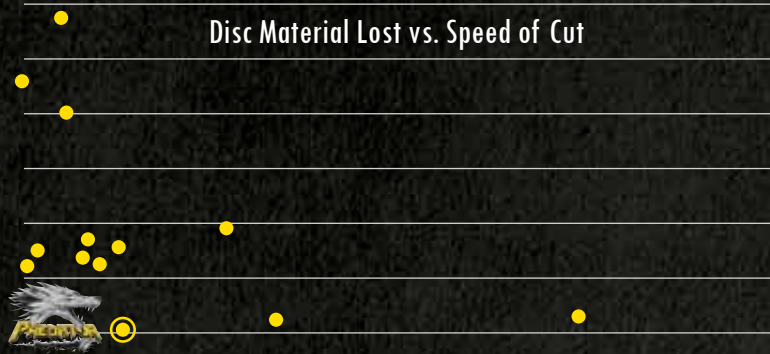


Type 1 Standards



LONGEST LIFE

SHORTEST LIFE



FASTEST CUT

SLOWEST CUT

BONDED

Performance Coating

Cut off wheels generate a tremendous amount of heat, particularly on soft metal cutting applications. With the application of performance coating you will see a 50 to 60% increase in cutting speed when working on soft metals such as aluminum. While designed for soft metals, performance coating will deliver a 25% increase in cut and speed on all metals including mild steel, stainless steel, titanium, and nickel alloys.

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

PREDATOR™ Type 27 Depressed Center Grinding Wheels

When using a depressed center grinding wheel for grinding and metal shaping it is important to have a wheel that can work on a variety of metals while delivering a great cut and life. PREDATOR™ Depressed Center Grinding Wheels will deliver dependable results on mild steel with superior results on harder metals such as stainless steel and high nickel alloys.



BONDED



- 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" <i>Pk Qty 50</i>	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" <i>Pk Qty 50</i>	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" <i>Pk Qty 50</i>	Item	Grade	Max RPM
4-1/2 x .040 x 7/8"	945047805	A60T	13,600
4-1/2 x 1/16 x 7/8"	945167803	A46T	13,600
5" <i>Pk Qty 50</i>	Item	Grade	Max RPM
5 x .040 x 7/8"	905047805	A60T	12,250
5 x 1/16 x 7/8"	905167803	A46T	12,250
6" <i>Pk Qty 40</i>	Item	Grade	Max RPM
6 x 1/16 x 7/8"	906167803	A46T	10,200

Performance Coated PREDATOR™ T1 Cut Off Wheels

3" <i>Pk Qty 50</i>	Item	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" <i>Pk Qty 50</i>	Item	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" <i>Pk Qty 50</i>	Item	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" <i>Pk Qty 50</i>	Item	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" <i>Pk Qty 40</i>	Item	Grade	Max RPM
6 x 1/16 x 7/8"	906167803W	A46T	10,200

BONDED



PREDATOR™ T27 Grinding Wheels

4-1/2" <i>Pk Qty 10</i>	Item	Grit	Max RPM
4-1/2 x 1/4 x 7/8"	845047801	24	13,600
4-1/2 x 1/8 x 7/8"	845087805	60	13,600
4-1/2 x 1/4 x 5/8"-11	845045801	24	13,600
4-1/2 x 1/8 x 5/8"-11	845085805	60	13,600

7" <i>Pk Qty 10</i>	Item	Grit	Max RPM
7 x 1/4 x 7/8"	807047801	24	8,700
7 x 1/8 x 7/8"	807087805	60	8,700
7 x 1/4 x 5/8"-11	807045801	24	8,700
7 x 1/8 x 5/8"-11	807085805	60	8,700

- 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"	Item
<i>Pk Qty 1</i>	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

RESIN FIBRE DISCS
FLAP DISCS
QUICK-LOK DISCS
PSA DISCS
BONDED
BELTS
SURFACE CONDITIONING
CLEAN & FINISH
FLAP WHEELS
SHEETS
ROLLS
SPECIALTIES
NO LAP BANDS

PRODUCT OVERVIEW

With sizes ranging from 1/8" wide to 600" in length in multiple grains and backings, we can deliver nearly any belt needed for your required application. The ARC ABRASIVES, INC. Custom Belt Program has set the industry standard. Our custom services and excellent application knowledge make it easy to deliver solutions directly to your shop floor.



PREDATOR™

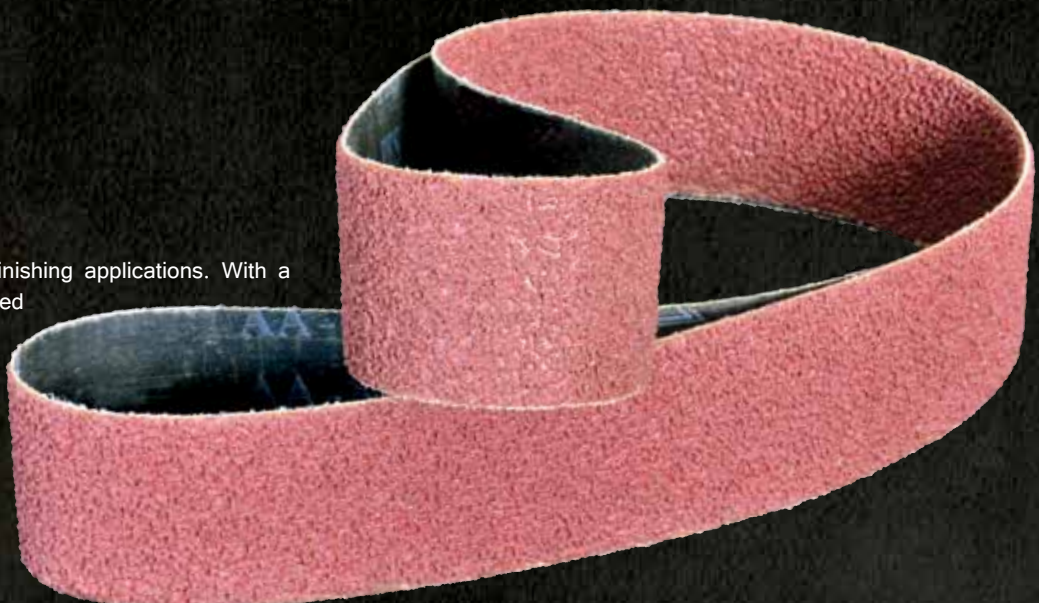
Quickly becoming our fastest growing product range, PREDATOR™ belts have a heavy Y-weight backing and proprietary grain structure, ensuring quality performance on a wide range of alloys. The combination of two grinding aids only reinforces its leading gram removal ratio.

Performance Coating

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

Compact Grain

Compact grain belts are best for finishing applications. With a grit range of 80 to 600, the clustered design delivers 3 to 1 performance when compared to conventional aluminum oxide products. Although aluminum oxide compact grain is excellent for mild and stainless steel applications, silicon carbide compact grain offers some of the industry's best grinding ratios for harder titanium and nickel alloys.



Mild Steel

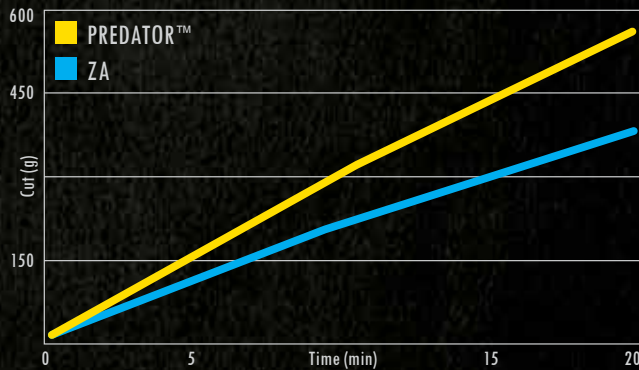
APPLICATION

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.



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.

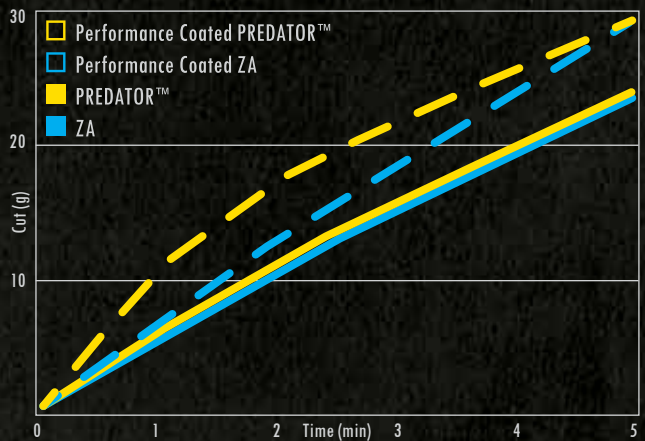
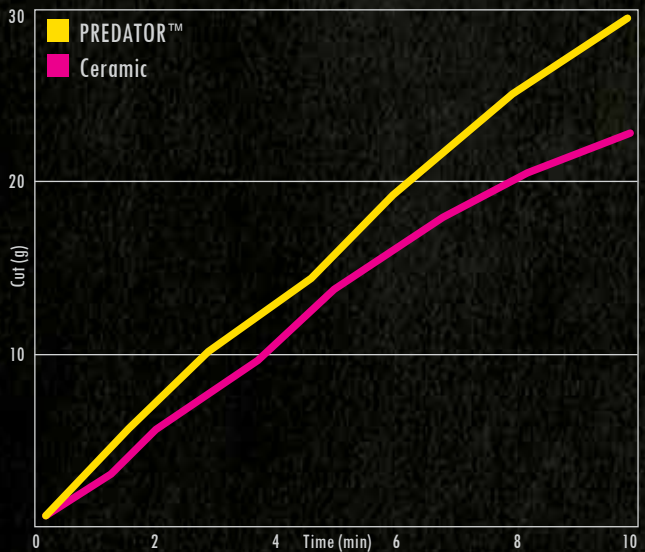
Stainless Steel

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.



BELT MATERIALS

PREDATOR™

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



Aluminum Oxide Compact Grain (AO CG)

Metal	Mild Steel 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
Backing	Paper
Weight	F-Wt 40-120 E-Wt 150-400
Application	Dry



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)

Metal	Mild Steel 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
Weight	X-Wt
Application	Wet or Dry



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

Metal	Mild Steel Soft Metals
Coating	Closed
Grinding Aid	Size
Backing	Polyester
Weight	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



BELTS

Silicon Carbide (SC-Poly)

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



Zirconia Alumina, 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
 Coating Closed
 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
 Coating Closed
 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	•	•	•	•	•	•	•	•						

- RESIN FIBRE DISCS
- FLAP DISCS
- QUICK-LOK DISCS
- PSA DISCS
- BONDED BELTS
- SURFACE CONDITIONING
- CLEAN & FINISH
- FLAP WHEELS
- SHEETS
- ROLLS
- SPECIALTIES
- NO LAP BANDS

BELTS

Airfile Belts

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

1/2 x 12"	PREDATOR™	AO/X GP	ZA/Y	Grit
<i>Pk Qty 50</i>	71-005012002	70072	71401-2	36
	71-005012003	70073	71402-2	40
	71-005012004	70074	71403-2	50
	71-005012005	70075	71404-2	60
	71-005012006	70076	71405-2	80
	71-005012008	70078	7140507-2	120
	-	70080	-	180

1/2 x 18"	PREDATOR™	AO/X GP	ZA/Y	Grit
<i>Pk Qty 50</i>	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
<i>Pk Qty 50</i>	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
<i>Pk Qty 50</i>	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

Airfile Belts

1 x 18"	PREDATOR™	AO/X GP	ZA/Y	Grit
<i>Pk Qty 50</i>	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
	-	70160Z253	-	180

Portable Belts

3 x 21"	PREDATOR™	AO/X GP	ZA/Y	Grit
<i>Pk Qty 10</i>	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™	AO/X GP	ZA/Y	Grit
<i>Pk Qty 10</i>	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™	AO/X GP	ZA/Y	Grit
<i>Pk Qty 10</i>	71-035015502	70690	71636-2	36
	71-035015503	70691	71637-2	40
	71-035015504	70692	71638-2	50
	71-035015505	70693	71639-2	60
	71-035015506	70694	71640-2	80
	71-035015508	70696	71642-2	120
	-	70698	-	180

4 x 24"	PREDATOR™	AO/X GP	ZA/Y	Grit
<i>Pk Qty 10</i>	71-040024002	70738	71656-2	36
	71-040024003	70739	71657-2	40
	71-040024004	70740	71658-2	50
	71-040024005	70741	71659-2	60
	71-040024006	70742	71660-2	80
	71-040024008	70744	71660Z02-2	120
	-	70746	-	180

BELTS

Benchstand Belts

Size	PREDATOR™	AO/X GP	ZA/Y	AO/Y	AO/J	Grit
1 x 42" <i>Pk Qty 50</i>	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" <i>Pk Qty 10</i>	71-020048002	70318	71496-2	70318PM	-
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	
2 x 60" <i>Pk Qty 10</i>	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" <i>Pk Qty 10</i>	71-020072002	70342	71506-2	70342PM	-
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
2-1/2 x 60" <i>Pk Qty 10</i>		71-025060002	70438	71546-2	70438PM	-
	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" <i>Pk Qty 10</i>	71-040036002	70762	71666-2	70762PM	-
71-040036003		70763	71667-2	70763PM	-	40
71-040036004		70764	71668-2	70764PM	-	50
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

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

BELTS

Benchstand Belts

4 x 60"	PREDATOR™	AO/X GP	ZA/Y	AO/Y	AO/J	Grit
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	71-020132001	70377	-	71520-2	70377PM	-	24
	71-020132002	70378	71521-3	71521-2	70378PM	-	36
	71-020132003	70379	71522-3	71522-2	70379PM	-	40
	71-020132004	70380	71523-3	71523-2	70380PM	-	50
	71-020132005	70381	71524-3	71524-2	70381PM	-	60
	71-020132006	70382	71525-3	71525-2	70382PM	69311-2	80
	71-020132007	70383	-	71526-2	70383PM	69312-2	100
	71-020132008	70384	-	71527-2	70384PM	69313-2	120
	-	70385	-	-	-	69314-2	150
	-	70386	-	-	-	69315-2	180

BELTS

Backstand Belts

3 x 132"	PREDATOR™	AO/X GP	ZA/X	ZA/Y	AO/Y	AO/J	Grit
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	71-040132001	70881	-	7170501-2	70881PM	-	24
	71-040132002	70882	71706-3	71706-2	70882PM	-	36
	71-040132003	70883	71707-3	71707-2	70883PM	-	40
	71-040132004	70884	71708-3	71708-2	70884PM	-	50
	71-040132005	70885	71709-3	71709-2	70885PM	-	60
	71-040132006	70886	71710-3	71710-2	70886PM	69571-2	80
	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 x 168"	PREDATOR™	AO/X GP	ZA/X	ZA/Y	AO/Y	AO/J	Grit
<i>Pk Qty 10</i>	71-040168001	70917	-	7172101-2	70917PM	-	24
	71-040168002	70918	71721-3	71721-2	70918PM	-	36
	71-040168003	70919	71722-3	71722-2	70919PM	-	40
	71-040168004	70920	71723-3	71723-2	70920PM	-	50
	71-040168005	70921	71724-3	71724-2	70921PM	-	60
	71-040168006	70922	71725-3	71725-2	70922PM	6960168506-2	80
	71-040168007	70923	-	71726-2	70923PM	6960168507-2	100
	71-040168008	70924	-	71727-2	70924PM	6960168508-2	120
	-	70925	-	-	-	6960168509-2	150
	-	70926	-	-	-	6960168510-2	180
6 x 132"	PREDATOR™	AO/X GP	ZA/X	ZA/Y	AO/Y	AO/J	Grit
<i>Pk Qty 10</i>	71-060132001	7103601	-	717700-2	7103601PM	-	24
	71-060132002	7103602	717701-3	717701-2	7103602PM	-	36
	71-060132003	7103603	717702-3	717702-2	7103603PM	-	40
	71-060132004	7103604	717703-3	717703-2	7103604PM	-	50
	71-060132005	7103605	717704-3	717704-2	7103605PM	-	60
	71-060132006	71037	717705-3	717705-2	71037PM	69671-2	80
	71-060132007	71038	-	717706-2	71038PM	69672-2	100
	71-060132008	71039	-	717707-2	71039PM	69673-2	120
	-	71040	-	-	-	69674-2	150
	-	71041	-	-	-	69675-2	180

RESIN FIBRE DISCS

FLAP DISCS

QUICK-LOK DISCS

PSA DISCS

BOUNDED

BELTS

SURFACE CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

BELTS

Wide Belts

36 x 75"	PREDATOR™	AO/X GP	AO/CG	ZA/Y	AO/Y	Grit
<i>Pk Qty 3 (24-60 Grit)</i>	71-360075001	72228	-	72228-10	72228PM	24
<i>Pk Qty 5 (80-400 Grit)</i>	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
<i>Pk Qty 3 (24-60 Grit)</i>	71-370060001	72280	-	72280-10	72280PM	24
<i>Pk Qty 5 (80-400 Grit)</i>	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
<i>Pk Qty 3 (24-60 Grit)</i>	71-370075001	72303	-	72303-10	72303PM	24
<i>Pk Qty 5 (80-400 Grit)</i>	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

BELTS

Wide Belts

52 x 75"	PREDATOR™	AO/X GP	AO/CG	ZA/Y	AO/Y	Grit
<i>Pk Qty 3 (24-60 Grit)</i>	71-520075001	72436	-	72436-10	72436PM	24
<i>Pk Qty 5 (80-400 Grit)</i>	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™	AO/X GP	AO/CG	ZA/Y	AO/Y	Grit
<i>Pk Qty 3 (24-60 Grit)</i>	71-520103001	72447	-	72447-10	72447PM	24
<i>Pk Qty 5 (80-400 Grit)</i>	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

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

SURFACE CONDITIONING

Mild Steel

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.

SURFACE CONDITIONING

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"	Item	Grade
<i>Pk Qty 20</i>	630030181	A CRS
	630030182	A MED
	630030188	A FIN
	630030183	A VFN
	630030184	S UFN
1/4 x 24"	Item	Grade
<i>Pk Qty 20</i>	630030241	A CRS
	630030242	A MED
	630030245	A FIN
	630030243	A VFN
	630030244	S UFN
3/8 x 13"	Item	Grade
<i>Pk Qty 20</i>	630040131	A CRS
	630040132	A MED
	630040138	A FIN
	630040133	A VFN
	630040134	A UFN
1/2 x 12"	Item	Grade
<i>Pk Qty 20</i>	630050121	A CRS
	630050122	A MED
	630050128	A FIN
	630050123	A VFN
	630050124	S UFN
1/2 x 18"	Item	Grade
<i>Pk Qty 20</i>	630050181	A CRS
	630050182	A MED
	630050188	A FIN
	630050183	A VFN
	630050184	S UFN
1/2 x 24"	Item	Grade
<i>Pk Qty 20</i>	630050241	A CRS
	630050242	A MED
	630050248	A FIN
	630050243	A VFN
	630050244	S UFN
3/4 x 18"	Item	Grade
<i>Pk Qty 20</i>	630080181	A CRS
	630080182	A MED
	630080185	A FIN
	630080183	A VFN
	630080184	S UFN
3/4 x 20-1/2"	Item	Grade
<i>Pk Qty 20</i>	6300802051	A CRS
	6300802052	A MED
	6300802058	A FIN
	6300802053	A VFN
	6300802054	S UFN

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

SURFACE CONDITIONING



- 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

Portable Belts

1 x 18"	Item	Grade
<i>Pk Qty 10</i>	63010181	A CRS
	63010182	A MED
	63010188	A FIN
	63010183	A VFN
	63010184	S UFN

3 x 21"	Item	Grade
<i>Pk Qty 10</i>	64030211	A CRS
	64030212	A MED
	64030218	A FIN
	64030213	A VFN
	64030214	S UFN

3 x 24"	Item	Grade
<i>Pk Qty 10</i>	64030241	A CRS
	64030242	A MED
	64030248	A FIN
	64030243	A VFN
	64030244	S UFN

3-1/2 x 15-1/2"	Item	Grade
<i>Pk Qty 10</i>	6403501551	A CRS
	6403501552	A MED
	6403501555	A FIN
	6403501553	A VFN
	6403501554	S UFN

4 x 24"	Item	Grade
<i>Pk Qty 10</i>	64040241	A CRS
	64040242	A MED
	64040248	A FIN
	64040243	A VFN
	64040244	S UFN

SURFACE CONDITIONING



- 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

Benchstand Belts

Size	Item	Grade
1 x 42" <i>Pk Qty 10</i>	64010421	A CRS
	64010422	A MED
	64010428	A FIN
	64010423	A VFN
	64010424	S UFN
2 x 48" <i>Pk Qty 10</i>	64020481	A CRS
	64020482	A MED
	64020488	A FIN
	64020483	A VFN
	64020484	S UFN
2 x 60" <i>Pk Qty 10</i>	64020601	A CRS
	64020602	A MED
	64020608	A FIN
	64020603	A VFN
	64020604	S UFN
4 x 60" <i>Pk Qty 10</i>	64040601	A CRS
	64040602	A MED
	64040608	A FIN
	64040603	A VFN
	64040604	S UFN
6 x 48" <i>Pk Qty 5</i>	64060481	A CRS
	64060482	A MED
	64060488	A FIN
	64060483	A VFN
	64060484	S UFN

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

**SURFACE
CONDITIONING**

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

SURFACE CONDITIONING



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
<i>Pk Qty 5</i>	64011321	A CRS
	64011322	A MED
	64011328	A FIN
	64011323	A VFN
	64011324	S UFN

2 x 132"	Item	Grade
<i>Pk Qty 5</i>	64021321	A CRS
	64021322	A MED
	64021328	A FIN
	64021323	A VFN
	64021324	S UFN

3 x 132"	Item	Grade
<i>Pk Qty 5</i>	64031321	A CRS
	64031322	A MED
	64031328	A FIN
	64031323	A VFN
	64031324	S UFN

4 x 168"	Item	Grade
<i>Pk Qty 5</i>	64041681	A CRS
	64041682	A MED
	64041688	A FIN
	64041683	A VFN
	64041684	S UFN

6 x 132"	Item	Grade
<i>Pk Qty 5</i>	64061321	A CRS
	64061322	A MED
	64061328	A FIN
	64061323	A VFN
	64061324	S UFN

SURFACE CONDITIONING

Wide Belts



36 x 75"	Item	Grade
<i>Pk Qty 1</i>	64360751	A CRS
	64360752	A MED
	64360758	A FIN
	64360753	A VFN
	64360754	S UFN

37 x 60"	Item	Grade
<i>Pk Qty 1</i>	64370601	A CRS
	64370602	A MED
	64370608	A FIN
	64370603	A VFN
	64370604	S UFN

37 x 75"	Item	Grade
<i>Pk Qty 1</i>	64370751	A CRS
	64370752	A MED
	64370758	A A FIN
	64370753	A VFN
	64370754	S UFN

- 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

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

SURFACE CONDITIONING

PREDATOR™ AP Quick-Lok Discs



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

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

Performance Coated PREDATOR™ AP Quick-Lok Discs

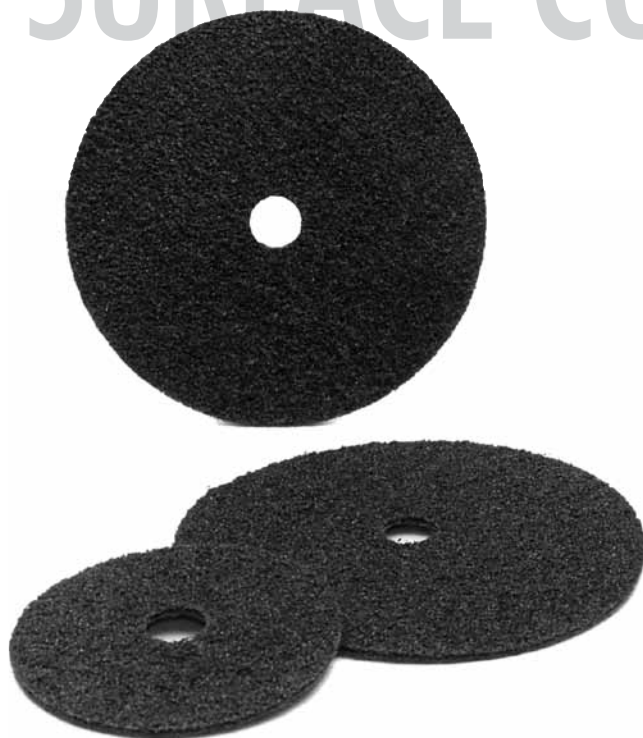
2"	Type R	Type S	Grade
<i>Pk Qty 50</i>	59340W	59240W	XCRS
3"	Type R	Type S	Grade
<i>Pk Qty 25</i>	59360W	59260W	XCRS



Quick-Lok Disc Holders

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

SURFACE CONDITIONING



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



PREDATOR™ AP Hook & Loop Discs

Size	Item	Grade
4-1/2"	62013HD-2	XCRS
<i>Pk Qty 25</i>		
4-1/2 x 7/8"	62013CM-2	XCRS
<i>Pk Qty 25</i>		
5"	62016HD-2	XCRS
<i>Pk Qty 10</i>		
5 x 7/8"	62016CM-2	XCRS
<i>Pk Qty 10</i>		
7"	62023HD-2	XCRS
<i>Pk Qty 10</i>		
7 x 7/8"	62023HD-1	XCRS
<i>Pk Qty 10</i>		

Performance Coated PREDATOR™ AP Hook & Loop Discs

Size	Item	Grade
4-1/2"	62013HD-2W	XCRS
<i>Pk Qty 25</i>		
4-1/2 x 7/8"	62013CM-2W	XCRS
<i>Pk Qty 25</i>		
5"	62016HD-2W	XCRS
<i>Pk Qty 10</i>		
5 x 7/8"	62016CM-2W	XCRS
<i>Pk Qty 10</i>		
7"	62023HD-2W	XCRS
<i>Pk Qty 10</i>		
7 x 7/8"	62023HD-1W	XCRS
<i>Pk Qty 10</i>		

PREDATOR™ AP Disc Holders Pk Qty 1

Size	Item	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

Additional items are available. Contact us for details.

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RESIN FIBRE DISCS

FLAP DISCS

QUICK-LOK DISCS

PSA DISCS

BONDED

BELTS

SURFACE CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

SURFACE CONDITIONING



- 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



Quick-Lok Discs

1"	Type R	Type S	Grade
<i>Pk Qty 100</i>	59311	59211	A CRS
	59312	59212	A MED
	59315	59215	A FIN
	59313	59213	A VFN
1-1/2"	Type R	Type S	Grade
<i>Pk Qty 100</i>	59321	59221	A CRS
	59322	59222	A MED
	59325	59225	A FIN
	59323	59223	A VFN
2"	Type R	Type S	Grade
<i>Pk Qty 50</i>	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
<i>Pk Qty 50</i>	59341CM	59241CM	A CRS
	59342HD	59242HD	A MED
	59342CM	59242CM	X-CRS
3"	Type R	Type S	Grade
<i>Pk Qty 25</i>	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
<i>Pk Qty 25</i>	59361CM	59261CM	A CRS
	59362HD	59262HD	A MED
	59362CM	59262CM	X-CRS
4"	Type R	Type S	Grade
<i>Pk Qty 25</i>	59381	59281	A CRS
	59382	59282	A MED
	59385	59285	A FIN
	59383	59283	A VFN

Quick-Lok Disc Holders

Pk Qty 1

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

SURFACE CONDITIONING



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

Hook & Loop Discs

3"	Item	Grade
<i>Pk Qty 25</i>	62007	CRS
	62008	MED
	62008-5	FIN
	62009	VFN

4"	Item	Grade
<i>Pk Qty 25</i>	62010	CRS
	62011	MED
	62011-5	FIN
	62012	VFN

4" HD	Item	Grade
<i>Pk Qty 25</i>	62010CM	CRS
	62011HD	MED
	62011CM	XTRA CRS

4-1/2"	Item	Grade
<i>Pk Qty 25</i>	62013	CRS
	62014	MED
	62014-5	FIN
	62015	VFN

4-1/2" HD	Item	Grade
<i>Pk Qty 25</i>	62013CM	CRS
	62014HD	MED
	62014CM	XTRA CRS

5"	Item	Grade
<i>Pk Qty 10</i>	62016	CRS
	62017	MED
	62017-5	FIN
	62018	VFN

5" HD	Item	Grade
<i>Pk Qty 10</i>	62016CM	CRS
	62017HD	MED
	62017CM	XTRA CRS

Hook & Loop Disc Holders

Pk Qty 1

Size	Item	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



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RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

CLEANING & FINISHING



Quick-Lok Finishing Discs

2"	Type R	Type S	Grade
<i>Pk Qty 50</i>	53376	53343	A MED
	53377	53344	A FIN
	53378	53345	A VFN
3"	Type R	Type S	Grade
<i>Pk Qty 25</i>	53379	53346	A MED
	53380	53347	A FIN
	53381	53348	A VFN

- 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



Spindle Mounted Finishing Discs

4 x 1/2"	Item	Grade	Max RPM
<i>Pk Qty 25</i>	53122	A MED	6,000
	53123	A FIN	6,000
	53124	A VFN	6,000
6 x 1/2"	Item	Grade	Max RPM
<i>Pk Qty 25</i>	53136	A MED	3,600
	53137	A FIN	3,600
	53138	A VFN	3,600
8 x 1/2"	Item	Grade	Max RPM
<i>Pk Qty 25</i>	53150	A MED	2,700
	53151	A FIN	2,700
	53152	A VFN	2,700
12 x 1/2"	Item	Grade	Max RPM
<i>Pk Qty 25</i>	53164	A MED	1,800
	53165	A FIN	1,800
	53166	A VFN	1,800

- 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

CLEANING & FINISHING



- Alternating flaps of nonwoven and coated abrasive
- Breaks down evenly providing consistent finish
- Smooth and quiet in operation

Interleaf Mounted Flap Wheels

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



- 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

Clean & Finish Flap Wheels

2 x 1 x 1/4"	Item	Grade	Max RPM
<i>Pk Qty 10</i>	54020103	A MED	15,000
	54020105	A VFN	15,000
	54020107	S ULF	15,000
3 x 2 x 1/4"	Item	Grade	Max RPM
<i>Pk Qty 10</i>	54030203	A MED	12,000
	54030205	A VFN	12,000
	54030207	S ULF	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.	Item	Grade
<i>Pk Qty 1</i>	53046	A MED
	53047	A FIN
	53048	A VFN
	53050	S VFN
	53051	S ULF

Additional items are available. Contact us for details.

RESIN FIBRE DISCS
FLAP DISCS
QUICK-LOK DISCS
PSA DISCS
BONDED
BELTS
SURFACE CONDITIONING
CLEAN & FINISH
FLAP WHEELS
SHEETS
ROLLS
SPECIALTIES
NO LAP BANDS

CLEANING & FINISHING



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

Handpad Holder

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

Pk Qty 1

Item
53923

6 x 9" Handpads

Tan	Item	Grade	Case Qty
<i>Pk Qty 1 Case</i>	07440	A MED	60
White	Item	Grade	Case Qty
<i>Pk Qty 1 Case</i>	07444	N-ABR	60
Maroon	Item	Grade	Case Qty
<i>Pk Qty 1 Case</i>	07447	A VFN	60
Gray	Item	Grade	Case Qty
<i>Pk Qty 1 Case</i>	07448	S ULF	60
Green	Item	Grade	Case Qty
<i>Pk Qty 1 Case</i>	07451	AL SIL	60
Black	Item	Grade	Case Qty
<i>Pk Qty 1 Case</i>	07460	S MED	40
Variety	Item	Grade	Case Qty
<i>Pk Qty 1 Case</i>	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
<i>Pk Qty 50</i>	54489	8A-CRS	30,000
2 x 1/4 x 1/4"	Item	Grade	Max RPM
<i>Pk Qty 60</i>	544897	2S-FN	18,000
	54490	2A-MED	18,000
	544903	8A-MED	18,000
3 x 1/4 x 1/4"	Item	Grade	Max RPM
<i>Pk Qty 40</i>	54493	2S-FN	12,000
	54492	8A-MED	12,000

Convolute Deburring Wheels

6 x 1 x 1"	Item	Grade	Max RPM
<i>Pk Qty 3</i>	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

CLEANING & FINISHING



ARCSTRIP™ Discs

3 x 1/4"	Item	Grade	Max RPM
<i>Pk Qty 10</i>	0730-0303	S XCS	10,500
4 x 1/4"	Item	Grade	Max RPM
<i>Pk Qty 10</i>	0730-0403	S XCS	8,000
5 x 1/2"	Item	Grade	Max RPM
<i>Pk Qty 10</i>	0730-0505	S XCS	6,500
6 x 1/2"	Item	Grade	Max RPM
<i>Pk Qty 10</i>	0730-0605	S XCS	5,500
7 x 1/2"	Item	Grade	Max RPM
<i>Pk Qty 10</i>	0730-0705	S XCS	4,000
8 x 1/2"	Item	Grade	Max RPM
<i>Pk Qty 10</i>	0730-0805	S XCS	4,000

- Strong nylon filament with a mixture of grain and resin
- Uniform distribution of grit provides a consistent finish

ARCSTRIP™ Quick-Lok Discs

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

Depressed Center ARCSTRIP™ Discs

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

Additional items are available. Contact us for details.

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RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

FLAP WHEELS



- 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"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11130	60	35,000
	11131	80	35,000
	11133	120	35,000
	11135	180	35,000

3/4 x 3/4 x 1/4"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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
<i>Pk Qty 10</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11208	60	25,000
	11209	80	25,000
	11211	120	25,000
	11213	180	25,000
	11215	240	25,000
	11217	320	25,000

1-1/2 x 1 x 1/4"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11260	60	25,000
	11261	80	25,000
	11263	120	25,000
	11265	180	25,000
	11267	240	25,000
	11269	320	25,000

2 x 3/4 x 1/4"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11273	60	25,000
	11274	80	25,000
	11276	120	25,000
	11278	180	25,000
	11280	240	25,000
	11282	320	25,000

FLAP WHEELS

Mounted Shank



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

2 x 1 x 1/4"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11299	60	25,000
	11300	80	25,000
	11302	120	25,000
	11304	180	25,000
	11306	240	25,000
	11308	320	25,000

2-1/2 x 1 x 1/4"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11351	60	20,000
	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"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11390	60	20,000
	11391	80	20,000
	11393	120	20,000
	11395	180	20,000
	11397	240	20,000
	11399	320	20,000

3 x 1-1/2 x 1/4"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11403	60	12,000
	11404	80	12,000
	11406	120	12,000
	11408	180	12,000
	11410	240	12,000
	11412	320	12,000

3 x 2 x 1/4"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11416	60	9,000
	11417	80	9,000
	11419	120	9,000
	11421	180	9,000
	11423	240	9,000
	11425	320	9,000

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

FLAP WHEELS

Threaded Shank



- 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

1 x 5/8 x 1/4"-20	Item	Grit	Max RPM
<i>Pk Qty 10</i>	12137	60	30,000
	12138	80	30,000
	12140	120	30,000
	12142	180	30,000

1 x 1 x 1/4"-20	Item	Grit	Max RPM
<i>Pk Qty 10</i>	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	Item	Grit	Max RPM
<i>Pk Qty 10</i>	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	Item	Grit	Max RPM
<i>Pk Qty 10</i>	12189	60	25,000
	12190	80	25,000
	12192	120	25,000
	12194	180	25,000

2 x 1/2 x 1/4"-20	Item	Grit	Max RPM
<i>Pk Qty 10</i>	12215	60	25,000
	12216	80	25,000
	12218	120	25,000
	12220	180	25,000

2 x 1 x 1/4"-20	Item	Grit	Max RPM
<i>Pk Qty 10</i>	12241	60	25,000
	12242	80	25,000
	12244	120	25,000
	12246	180	25,000

3 x 1/2 x 1/4"-20	Item	Grit	Max RPM
<i>Pk Qty 10</i>	12319	60	20,000
	12320	80	20,000
	12322	120	20,000
	12324	180	20,000

3 x 1 x 1/4"-20	Item	Grit	Max RPM
<i>Pk Qty 10</i>	12345	60	20,000
	12346	80	20,000
	12348	120	20,000
	12350	180	20,000

FLAP WHEELS

Mini-Mounted Shank



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

3/8 x 3/8 x 1/8"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11082	60	25,000
	11083	80	25,000
	11085	120	25,000
	11086	180	25,000

3/4 x 3/16 x 1/8"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11104	60	25,000
	11105	80	25,000
	11107	120	25,000
	11109	180	25,000

3/4 x 3/8 x 1/8"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11182	60	25,000
	11183	80	25,000
	11185	120	25,000
	11187	180	25,000

1-3/16 x 3/8 x 1/8"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	11195	60	25,000
	11196	80	25,000
	11198	120	25,000
	11200	180	25,000

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS



Shank Adapter & Extenders

1 x 1/4" Adapter	Item
<i>Pk Qty 1</i>	50931

4 x 1/4"	Item
<i>Pk Qty 10</i>	50932

6 x 1/4"	Item
<i>Pk Qty 10</i>	50933

8 x 1/4"	Item
<i>Pk Qty 10</i>	50934

Additional items are available. Contact us for details.

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FLAP WHEELS



- 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"	Item	Grit	Max RPM
<i>Pk Qty 10</i>	10161	40	8,600
	10163	60	8,600
	10164	80	8,600
	10166	120	8,600
6 x 1 x 1"	Item	Grit	Max RPM
<i>Pk Qty 5</i>	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
<i>Pk Qty 5</i>	10261	40	5,700
	10263	60	5,700
	10264	80	5,700
	10266	120	5,700
6 x 2 x 1"	Item	Grit	Max RPM
<i>Pk Qty 5</i>	10281	40	5,700
	10283	60	5,700
	10284	80	5,700
	10286	120	5,700
8 x 1 x 1"	Item	Grit	Max RPM
<i>Pk Qty 3</i>	10341	40	4,300
	10343	60	4,300
	10344	80	4,300
	10346	120	4,300
8 x 2 x 1"	Item	Grit	Max RPM
<i>Pk Qty 3</i>	10381	40	4,300
	10383	60	4,300
	10384	80	4,300
	10386	120	4,300



Shank Adapter

4 - 8"	Item
<i>Pk Qty 1</i>	50937

Reducing Bushing

1 to 1/2"	Item
<i>Pk Qty 1</i>	10502
1 to 5/8"	Item
<i>Pk Qty 1</i>	10503

SHEETS



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

Cloth

9 x 11"	Item	Grit
<i>Pk Qty 25</i>	74101	36X

9 x 11"	Item	Grit
<i>Pk Qty 50</i>	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



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

Silicon Carbide - Waterproof

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



Silicon Carbide - Waterproof PSA

3 x 11"	Item	Grit
<i>Pk Qty 100</i>	35145PL	180C
	35147PL	240C
	35149PL	320C
	35150PL	400C
	35152PL	600C

Additional items are available. Contact us for details.

RESIN FIBRE DISCS
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ROLLS
SPECIALTIES
NO LAP BANDS

SHEETS & ROLLS

Aluminum Oxide Glue Bond PSA



- 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

9 x 11"	Item	Grit
<i>Pk Qty 50</i>	30813	60
	30814	80
	30816	120
	30818	180
	30819	240
	30820	320

Emery Cloth

9 x 11"	Item	Grade
<i>Pk Qty 50</i>	74117	FIN
	74118	MED
	74119	CRS

Handy Rolls

1" x 50 yd.	Item	Grit
<i>Pk Qty 1</i>	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.	Item	Grit
<i>Pk Qty 1</i>	73149	60J
	73150	80J
	73152	120J
	73153	150J
	73154	180J
	73155	220J
	73156	240J
	73158	320J
	73159	400J
	73194	CROCUS

2" x 50 yd.	Item	Grit
<i>Pk Qty 1</i>	73164	60J
	73165	80J
	73167	120J
	73168	150J
	73169	180J
	73170	220J
	73171	240J
	73173	320J
	73174	400J
	73195	CROCUS

ROLLS



- 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.	Item	Grit
<i>Pk Qty 1</i>	0901005	60
	0901006	80
	0901008	120
	0901009	150
	0901010	180
	0901011	220
	0901012	240
	0901014	320
	0901015	400

1-1/2" x 50 yd.	Item	Grit
<i>Pk Qty 1</i>	0901505	60
	0901506	80
	0901508	120
	0901509	150
	0901510	180
	0901511	220
	0901512	240
	0901514	320
	0901515	400

2" x 50 yd.	Item	Grit
<i>Pk Qty 1</i>	0902005	60
	0902006	80
	0902008	120
	0902009	150
	0902010	180
	0902011	220
	0902012	240
	0902014	320
	0902015	400

RESIN FIBRE DISCS

FLAP DISCS

QUICK-LOK DISCS

PSA DISCS

BONDED

BELTS

SURFACE CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS



Silicon Carbide - Waterproof

3" x 75 ft.	Item	Grit
<i>Pk Qty 1</i>	35501PL	180
	35503PL	240
	35505PL	320
	35506PL	400
	35508PL	600

3-7/16" x 75 ft.	Item	Grit
<i>Pk Qty 1</i>	35509PL	180
	35511PL	240
	35513PL	320
	35514PL	400
	35516PL	600

Additional items are available. Contact us for details.

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CARTRIDGE ROLLS



- 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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	21114Z05	60	26,000
	21115	80	26,000
	21116	100	26,000
	21117	120	26,000
	21119	180	26,000
	21120	240	26,000
	21121	320	26,000

3/16 x 1 x 3/32"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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
<i>Pk Qty 100</i>	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	240	26,000
	21218	320	26,000

5/16 x 1-1/2 x 1/8"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	21222	50	26,000
	21223	60	26,000
	21224	80	26,000
	21225	100	26,000
	21226	120	26,000
	21228	180	26,000
	21229	240	26,000
	21230	320	26,000

CARTRIDGE ROLLS

Straight Cartridge Rolls

3/8 x 1 x 1/8"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	21354	50	26,000
	21355	60	26,000
	21356	80	26,000

1/2 x 2 x 1/8"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	21357	100	26,000
	21358	120	26,000
	21360	180	26,000
	21361	240	26,000
	21362	320	26,000

5/8 x 1 x 3/16"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	21438	50	26,000
	21439	60	26,000
	21440	80	26,000
	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	Grit	Max RPM
<i>Pk Qty 100</i>	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

5/8 x 2 x 3/16"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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
<i>Pk Qty 100</i>	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

3/4 x 1-1/2 x 3/16"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	21534	50	18,000
	21535	60	18,000
	21536	80	18,000
	21537	100	18,000
	21538	120	18,000
	21540	180	18,000
	21541	240	18,000
	21542	320	18,000

RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

CARTRIDGE ROLLS

Straight Cartridge Rolls

3/4 x 1-1/2 x 1/4"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	21786	50	18,000
	21787	60	18,000
	21788	80	18,000
	21789	100	18,000
	21790	120	18,000
	21792	180	18,000
	21793	240	18,000
	21794	320	18,000

1 x 1-1/2 x 1/4"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	23284	50	26,000
	23285	60	26,000
	23286	80	26,000
	23288	120	26,000
	23290	180	26,000
	23291	240	26,000
	23292	320	26,000

CARTRIDGE ROLLS

Full Taper Cartridge Rolls

1/2 x 1 x 1/8"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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

1/2 x 1-1/2 x 1/8"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	23320	50	26,000
	23321	60	26,000
	23322	80	26,000
	23324	120	26,000
	23326	180	26,000
	23327	240	26,000
	23328	320	26,000

1/2 x 2 x 1/8"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	23176	50	26,000
	23177	60	26,000
	23178	80	26,000
	23180	120	26,000
	23182	180	26,000
	23183	240	26,000
	23184	320	26,000

5/8 x 1-1/2 x 1/8"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	23356	50	18,000
	23357	60	18,000
	23358	80	18,000
	23360	120	18,000
	23362	180	18,000
	23363	240	18,000
	23364	320	18,000

3/4 x 1-1/2 x 3/16"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	23404	50	18,000
	23405	60	18,000
	23406	80	18,000
	23408	120	18,000
	23410	180	18,000
	23411	240	18,000
	23412	320	18,000

3/4 x 2 x 3/16"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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"	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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

Size	Item	<i>Pk Qty 1</i>
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	50122	

Additional items are available. Contact us for details.

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RESIN FIBRE
DISCS

FLAP DISCS

QUICK-LOK
DISCS

PSA DISCS

BONDED

BELTS

SURFACE
CONDITIONING

CLEAN & FINISH

FLAP WHEELS

SHEETS

ROLLS

SPECIALTIES

NO LAP BANDS

PADS



- Multi-ply abrasive pad
- Exposes new cutting surface as each layer wears
- Three eyelet sizes available: 3-48; 8-32; 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	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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	Item	Grit	Max RPM
<i>Pk Qty 100</i>	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
<i>Pk Qty 100</i>	27794	60	23,000
	27795	80	23,000
	27797	120	23,000
	27799	180	23,000
	2779912-1	240	23,000
2 x 1 x 8P 1/4-20	Item	Grit	Max RPM
<i>Pk Qty 100</i>	27816	60	23,000
	27817	80	23,000
	27819	120	23,000
	27820	180	23,000
	27822-3	240	23,000
2-1/2 x 3/4 x 8P 8-32	Item	Grit	Max RPM
<i>Pk Qty 100</i>	27904	60	18,000
	27905	80	18,000
	27907	120	18,000
	27909	180	18,000
	27910	240	18,000
3 x 1 x 8P 1/4-20	Item	Grit	Max RPM
<i>Pk Qty 100</i>	27970	60	14,000
	27971	80	14,000
	27973	120	14,000
	27975	180	14,000
	27976	240	14,000

Eyelet Mandrels

Pk Qty 10

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

PADS



- 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



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

2/S Spin-On Overlap Discs

2 per Set

1-1/4" 8-32	Item	Grit	Max RPM
<i>Pk Qty 100</i>	33969	60	23,000
	33970	80	23,000
	33971	100	23,000
	33972	120	23,000
	33974	180	23,000
1-1/2" 8-32	Item	Grit	Max RPM
<i>Pk Qty 100</i>	33981	60	23,000
	33982	80	23,000
	33983	100	23,000
	33984	120	23,000
	33986	180	23,000
2" 8-32	Item	Grit	Max RPM
<i>Pk Qty 100</i>	34005	60	23,000
	34006	80	23,000
	34007	100	23,000
	34008	120	23,000
	34010	180	23,000
3" 1/4-20	Item	Grit	Max RPM
<i>Pk Qty 100</i>	34053	60	14,000
	34054	80	14,000
	34055	100	14,000
	34056	120	14,000
	34058	180	14,000

Additional items are available. Contact us for details.

RESIN FIBRE DISCS
FLAP DISCS
QUICK-LOK DISCS
PSA DISCS
BONDED
BELTS
SURFACE CONDITIONING
CLEAN & FINISH
FLAP WHEELS
SHEETS
ROLLS
SPECIALTIES
NO LAP BANDS

NO LAP BANDS



- 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"	Item	Grit
<i>Pk Qty 100</i>	76330	36
	76331	40
	76332	50
	76333	60
	76334	80
	76336	120
3/4 x 1"	Item	Grit
<i>Pk Qty 100</i>	76618	36
	76619	40
	76620	50
	76621	60
	76622	80
	76624	120
1 x 1"	Item	Grit
<i>Pk Qty 100</i>	76762	36
	76763	40
	76764	50
	76765	60
	76766	80
	76768	120
1-1/2 x 1-1/2"	Item	Grit
<i>Pk Qty 100</i>	77134	36
	77135	40
	77136	50
	77137	60
	77138	80
	77140	120
2 x 1"	Item	Grit
<i>Pk Qty 100</i>	77410	36
	77411	40
	77412	50
	77413	60
	77414	80
	77416	120
2 x 2"	Item	Grit
<i>Pk Qty 100</i>	77434	36
	77435	40
	77436	50
	77437	60
	77438	80
	77440	120

NO LAP BANDS



Solid Rubber Drums

Pk Qty 1

Size	Item	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

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

- RESIN FIBRE DISCS
- FLAP DISCS
- QUICK-LOK DISCS
- PSA DISCS
- BONDED
- BELTS
- SURFACE CONDITIONING
- CLEAN & FINISH
- FLAP WHEELS
- SHEETS
- ROLLS
- SPECIALTIES
- NO LAP BANDS**

APPENDIX

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Our Story

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.

ARC ABRASIVES, INC. 85 Marybill Drive Troy OH 45373 call.800.888.4885 fax.800.888.4969