

SAIT

Grinding
Wheels

.045" Thin
Cut-Off

Chop Saw
Wheels

Gas Saw
Wheels

Belts

Fiber Discs

Flap Discs

Sheets

Shop Rolls

Wire Brushes

Non-Woven

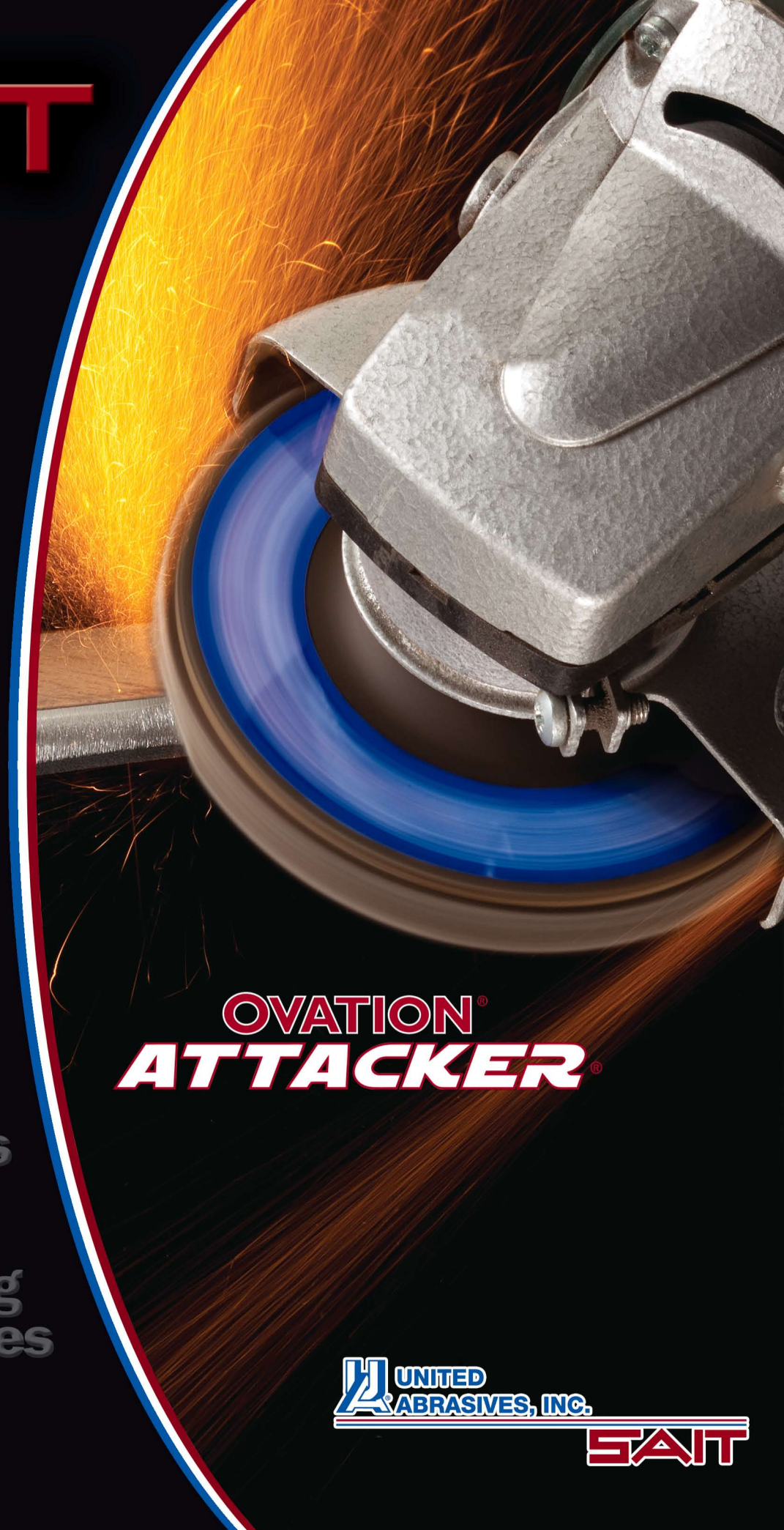
Metal-Cutting
Carbide Blades

2011-2012

OVATION[®]
ATTACKER[®]

 UNITED
ABRASIVES, INC.

SAIT



GRINDING - PG. 7**Grinding Wheels (1/4" Thick)**

Introduction	Pg 7
Type 27	8-14
Type 28	15-17

Pipeline Wheels (1/8" Thick)

Introduction	Pg 23
1/8" Wheels	24-25

Contaminant-Free Wheels

XA24Q (1/4")	Pg 12
XA24Q (1/8")	37
XA46R (1/16" Cutting)	31

Flexible Grinding/Blending

Type 29 Wheels	Pg 18
----------------	-------

Cup Stones

Type 11	Pg 20-21
---------	----------

Cones, Plugs & Mounted Points

Type 16, 17, 18	Pg 19
Type A, B, W	22

Hand and Floor Rubs

Plain, Fluted, Handle, Scored	Pg 60
----------------------------------	-------

Bench Wheels

A, GC	Pg 61
-------	-------

Cotton Fiber

Introduction	Pg 56
Cotton Fiber	57-59

Wire Brushes & Carbide Burs

Introduction	Pg 129-130
Wire Brushes	131-137
Carbide Burs	138-139

CUTTING - PG. 26**.045" Cutting Wheels**

Type 27	Pg 28-29
Type 1	30-31, 38
Type 1 Contaminant-Free 1/16"	31

.090" Cutting/Notching Wheels

Type 27	Pg 32-33
Type 1	34

3/32" & 1/8" Cutting Wheels

Type 27	Pg 35-37
---------	----------

Thin High Speed Cut-Off

.035", 1/16" & 1/8"	Pg 38-39
---------------------	----------

Chop Saw Wheels

Chop Saw	Pg 41-43
----------	----------

NEW! Portable Saw Cut-Off Wheels

Type 1 (4-1/2" - 9")	Pg 40
Type 1 (12" - 16")	44-46

Stationary Saw Wheels

Stationary Saw	Pg 48-49
----------------	----------

Street Saw Wheels

Street Saw	Pg 47
------------	-------

Metal-Cutting Carbide Blades

Introduction	Pg 50
Carbide Blades	51-53

Diamond

Diamond	Pg 54-55
---------	----------

Fiber Discs



Introduction	Pg 71
Fiber Discs	72-76

Flap Discs



Introduction	Pg 88
Encore	89
Ovation®	90-91
Saitlam™	92-94

Belts



Introduction	Pg 64-65
Belt Specifications	66-69
Custom Belts	70

Laminated Discs



SAIT-LOK™	Pg 77-79
SAIT-LOK-R™	

Paper Discs



Introduction	Pg 80
PSA Disc Rolls	81
PSA Disc Individual	82-83
Hook & Loop	84-85

Cloth Discs



Introduction	Pg 80
Zirconium	86
Aluminum Oxide	87

SAIT-PAK™



SAIT-PAK™	Pg 140
-----------	--------

Flap Wheels



Small Diameter	Pg 95
Large Diameter	96

Sheets



Introduction	Pg 97
Cloth	98
Paper	98-99
Fileboard	100-101
Saitscreen™/Drywall	102
Sanding Sponges	103

Shop Rolls



Industrial/Handy	Pg 104
Mini/Custom	105
Saitscreen™/Plumber	106

Specialties



Spiral Bands	Pg 107
Cartridge Rolls	108-109
Cross Pads	110
Square Pads	110

Floor Sanding



Sheets/Belts	Pg 111
Discs	112
Rolls	113
Pads	114-115

Accessory Items



Introduction	Pg 141
Accessories	142-148

Non-Woven







Introduction	Pg 116
Hand Pads	117
Belts	118
Discs	119-120
SAIT-Strip™ Products	121
Flap Brushes	122
Interleaf Wheels	123
Unitized Wheels/Type 27	124-125
Convolute Wheels	126
Sand-Light™ Blending Discs	127
Buffing Pads/Compounds	128



How To Use THIS CATALOG

COLOR CODING SYSTEM

- Uniform color identification throughout our bonded abrasives section and on our product labels.
- Quickly recognize the right product for the type of material you are working with.

PRODUCT	COLOR CODING TO MATERIAL	PRODUCT	COLOR CODING TO MATERIAL
	METAL		ALUMINUM
	STAINLESS		CONCRETE

TECHNICAL & REFERENCE MATERIAL - PG. 149

Anatomy of a Wheel	158
Bonded Abrasives Application Chart	164-165
Coated Abrasives Application Chart	156-157
Coated Abrasives Information and Manufacturing	153-155
Common Occurrences With Grinding/Cutting Applications	159
How a Wheel Works	159
Index by Product Description and Number	166-169
Marking System	160
Metal-Cutting Carbide Blade Technical Data	53
Promotional Information and Displays	149-151
Safety Information	163
Storage and Handling	155 & 161
Super-Lock™ Hub	162
Wheel Configurations	160
Wheel Label Example	161

- Privately held company established in 1970.
- Relationship with SAIT, an Italian corporation founded in 1953, began as we first manufactured coated abrasive belts.
- By 1975, we had expanded our production to include bonded abrasives.
- Well known worldwide for quality, consistency, and the highest levels of service.
- One of the largest and leading manufacturers of abrasive products in the world for both bonded and coated.
- Only premium raw materials are used.
- Demand consistent manufacturing operations and have the most rigorous quality control testing in the industry.
- **EVERY** order is a **RUSH** delivery! From phone order to truck in minutes!



PRODUCT WARRANTY

United Abrasives, Inc. warrants that all industrial products it manufactures will be as represented in its catalog and will be free from defects in material and workmanship under normal use for which the product was intended if, but only if, it has been properly stored and used. Our obligation under this Warranty shall be limited to either the exchange of any product proven to be defective under normal use or to refund the purchase price thereof, at our option, within six months from the date of purchase by the original purchaser. The term "original purchaser", as used in this Warranty, shall be deemed to mean that person or company to whom the product was originally sold. This remedy is purchaser's exclusive remedy against United Abrasives, Inc. for any damages to either person or property caused by any defect or other failure in the product. Said refund or exchange shall constitute a fulfillment of any and all liabilities of United Abrasives, Inc. with respect to the quality of the product sold by it.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON OUR PART, AND WE NEITHER ASSUME NOR AUTHORIZE ANY OTHER PERSON TO ASSUME FOR US, ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF OUR PRODUCTS. THIS WARRANTY SHALL NOT APPLY TO ANY PRODUCT SOLD BY US WHICH HAS BEEN SUBJECT TO ACCIDENT, NEGLIGENCE, ALTERATION, ABUSE, OR MISUSE. WE MAKE NO WARRANTY WITH RESPECT TO ACCESSORIES OR PARTS EMPLOYED BY THE USER WITH OUR PRODUCT WHICH WERE NOT SUPPLIED BY UNITED ABRASIVES, INC. UNDER NO CIRCUMSTANCES IS UNITED ABRASIVES, INC. LIABLE FOR ANY DIRECT INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS) IN ANY WAY RELATING TO THE PRODUCTS SOLD BY UNITED ABRASIVES, INC.

All products listed in this catalog must be used in accordance with the safety regulations set by **OSHA**, by the directive described by the **American National Safety Institute B7.1** ("Safety Requirements for the Use, Care and Protection of Abrasive Wheels") and by the **American Brush Manufacturers Association**. The user of any United Abrasives, Inc. product should be thoroughly familiar with the above safety rules and regulations before use of the product.



American Welding Society

Sustaining Company Member




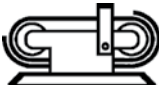
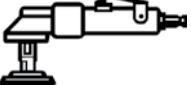















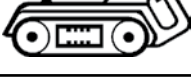


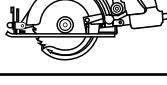
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Products By Tool Index

The tool graphic found on each page of the catalog represents the appropriate tool the product can be used on. These icons are also located on our product and box labels for easy identification.

Tool Icon	Page #	Tool Icon	Page #
Angle Grinder 	8-18, 20-21, 24-25, 28-38, 40, 54-55, 57-58, 72-76, 89-94, 120-121, 124, 128, 131-134, 137	Benchstand Belt Sander 	66-69, 118
Portable Grinder 	59, 77-79, 119-121, 127-128	Backstand Sander 	66, 69, 118
Die Grinder 	19, 22, 39, 57, 59, 107-110, 121, 123, 125, 135, 137-139	Floor Sander 	111-115
Circular Saw 	30-31, 34, 38, 40 51-52, 54-55	Disc Sander 	127-128
Chop Saw 	42-43	Disc Sander 	81-87, 120
Stationary Saw 	48-49	Edge Sander 	112
Portable Saw 	44-46, 54-55	Fileboard 	100-101
Walk-Behind/Street Saw 	47, 135	Drywall Sander 	102
Bench Grinder/Pedestal Grinder 	61, 126-127, 131, 137	File Sander 	66, 118
Portable Belt Sander 	66-68, 118	Low RPM Metal-Cutting Saw 	51-52
Metal-Cutting Circular Saw 	51-52	Worm Drive Saw 	51-52

GRINDING INTRODUCTION

- This section contains ten 1/4" thick grinding specifications (Type 27, 28 and 29).
- You will also find Cones, Plugs, Cup Stones, Mounted Points and Challenger II.

TYPE 27

General Purpose



Pg. 8

Specialty



Pg. 9

High Performance



Pg. 10

Aluminum



Pg. 11

TYPE 28



Pgs. 15-17

PAGES 8-11

A24N

Fast Grinding

A24R

Long Life

A24T

Edge Grinding

A24Turbo™

Smooth, Edge Grinding
Better Control
Long Life

Sait Z-tech™

Extremely Fast
Stock Removal

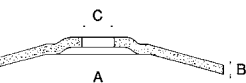
Special Zirconium Grain

Can be used on
Stainless Steel

A46N

Extremely Fast
Stock Removal

Non-loading Formula



TYPE 27

Stainless Steel



Pg. 12

Stainless Steel



Pg. 13

Concrete



Pg. 14

PAGES 12-14

XA24Q

Contaminant Free
Grinding

contaminant **cf** free

Free of Iron, Sulphur
& Chlorine

Saitech Attacker®

Fast Grinding

Saitech Ultimate Performance™

Long Life

C24N

General Purpose
Grinding on Masonry,
Concrete and Stone

Challenger II



Pg. 18

Mounted Points



Pg. 22

Cones & Plugs



Pg. 19

Cup Stones



Pg. 20-21

Grinding 1/4"

TYPE 27 Depressed Center Wheels

GRINDING

GENERAL PURPOSE



A24N - Fast Grinding

- Aluminum oxide grain
- Soft bond for **fast stock removal**

METAL Ferrous Metals (iron, steel, welds, etc.)

STAINLESS Low grade stainless steel

A24R - Long Life

- Aluminum oxide grain; our most popular wheel
- For general purpose grinding
- **Longer life** for fewer wheel changes

METAL Ferrous Metals (iron, steel, welds, etc.)

A24T - Edge Grinding

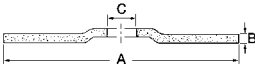
- Aluminum oxide grain
- Hard bond designed for **edge and bevel grinding** and other applications where a harder wheel is preferred
- **Longer life** for fewer wheel changes

METAL Ferrous Metals (iron, steel, welds, etc.)

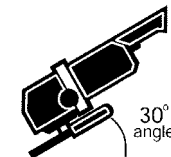


Quick Tip

The "softer" a grinding wheel is (A24N) the faster it will remove metal.



Size			Max RPM	Grades Available			Qty	Qty	Lbs
A	B	C		Part Number			Per	Per	Per
Dia.	Width	Bore		A24N	A24R	A24T	Box	Ctn	Box
3	3/16	3/8	18,000	20001	-	-	25	100	3
3	1/4	3/8	18,000	20002	20005	-	25	100	4
4	3/16	3/8	13,500	20010	-	-	25	100	6
4	1/4	3/8	13,500	20012	20019	-	25	100	7
4	1/4	5/8	13,500	20015	20013	-	25	100	7
4-1/2	3/16	7/8	13,300	20050	-	-	25	100	8
4-1/2	3/16	5/8-11	13,300	20150	-	-	10	40	5
4-1/2	1/4	7/8	13,300	20060	20063	20065	25	100	9
4-1/2	1/4	5/8-11	13,300	20160	20163	20165	10	40	6
5	1/4	7/8	12,200	20070	20073	20075	25	100	11
5	1/4	5/8-11	12,200	20170	20173	20175	10	40	6
6	1/4	7/8	10,200	20078	20079	20280	25	50	18
6	1/4	5/8-11	10,200	20178	20076	20180	10	40	10
7	1/4	7/8	8,500	20081	20080	20285	25	50	24
7	1/4	5/8-11	8,500	20085	20086	20185	10	40	14
9	1/4	7/8	6,600	20091	20090	20295	25	50	42
9	1/4	5/8-11	6,600	20095	20096	20195	10	40	20



Angle Grinder



5/8-11 Super-Lock™ Hub

Tech INFO

- Virgin aluminum oxide grain assures consistent high stock removal for tough applications
- All sizes are made with uniform grain throughout, no filler grain used in the backing
- All wheels internally reinforced with the highest quality fiberglass for maximum safety
- Super-Lock™ Hub on all 5/8-11 threaded wheels is the safest, vibration-free design

TYPE 27 Depressed Center Wheels

Grinding
1/4"

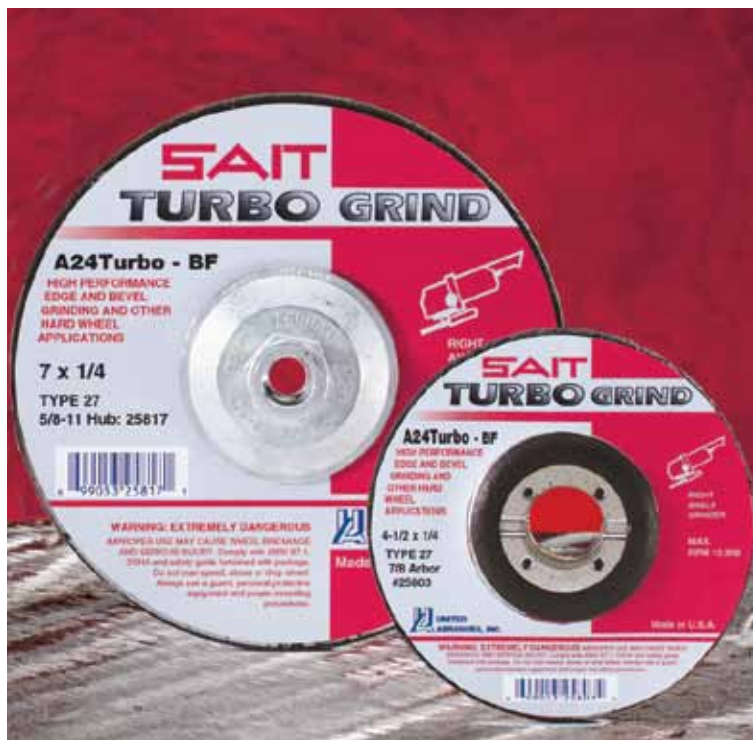
GRINDING

SPECIALTY

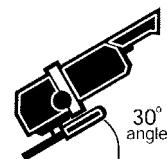
A24Turbo™ - Hard Edge

- Special combination aluminum oxide grain
- Hard bond system for all **edge and tough** applications requiring a harder wheel
- Very hard edge which breaks down evenly for **smooth operation**
- **Very long life** for fewer wheel changes

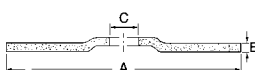
METAL Ferrous Metals (iron, steel, welds, etc.)



5/8-11
Super-Lock™ Hub



Angle Grinder



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
4-1/2	1/4	7/8	13,300	25803	25	100	9
4-1/2	1/4	5/8-11	13,300	25813	10	40	6
5	1/4	7/8	12,200	25805	25	100	11
5	1/4	5/8-11	12,200	25815	10	40	6
6	1/4	7/8	10,200	25806	25	50	17
6	1/4	5/8-11	10,200	25816	10	40	10
7	1/4	7/8	8,500	25807	25	50	24
7	1/4	5/8-11	8,500	25817	10	40	9
9	1/4	7/8	6,600	25809	25	50	39
9	1/4	5/8-11	6,600	25819	10	40	19

Tech
INFO

- Virgin aluminum oxide grain assures consistent high stock removal for tough applications
- All sizes are made with uniform grain throughout, no filler grain used in the backing
- All wheels internally reinforced with the highest quality fiberglass for maximum safety
- Super-Lock™ Hub on all 5/8-11 threaded wheels is the safest, vibration-free design

Grinding
1/4"

TYPE 27 Depressed Center Wheels

GRINDING

HIGH PERFORMANCE



Z24R - Zirconium

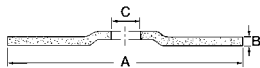
- Tough zirconium grain
- High performance grinding for the toughest applications

METAL Ferrous metals (iron, steel, welds)

STAINLESS Stainless steel, high tensile alloys



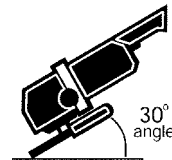
HIGH PERFORMANCE



Size			Max RPM	Part	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Number Z24R			
4	1/4	5/8	13,500	22599	25	100	7
4-1/2	1/4	7/8	13,300	22600	25	100	9
4-1/2	1/4	5/8-11	13,300	22610	10	40	6
5	1/4	7/8	12,200	22602	25	100	12
5	1/4	5/8-11	12,200	22612	10	40	6
6	1/4	7/8	10,200	22603	25	50	20
6	1/4	5/8-11	10,200	22613	10	40	9
7	1/4	7/8	8,500	22604	25	50	25
7	1/4	5/8-11	8,500	22614	10	40	14
9	1/4	7/8	6,600	22606	25	50	42
9	1/4	5/8-11	6,600	22616	10	40	21



5/8-11 Super-Lock™ Hub



Angle Grinder



- The highest quality zirconium grain
- All sizes made with uniform grain throughout, no filler grain used
- Super-Lock™ Hub on all 5/8-11 threaded arbors is the safest, vibration-free design

TYPE 27 Depressed Center Wheels

Grinding
1/4"

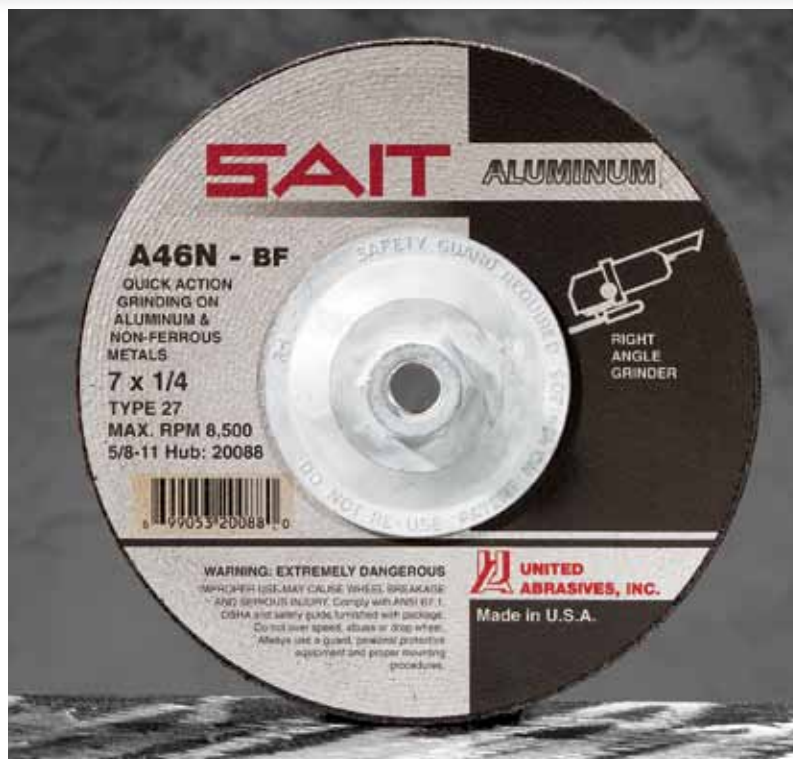
GRINDING

ALUMINUM

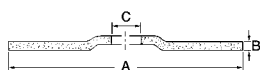
A46N - Aluminum

- Aluminum oxide grain
- Soft bond for aggressive removal of material without loading
- Outlasts competition by as much as 40%

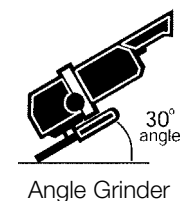
ALUMINUM Non-ferrous metals
(aluminum, copper, brass, etc.)



See pages 56-59 for Cotton Fiber grinding and blending products for aluminum



Size			Max RPM	Part	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Number A46N			
4	1/4	5/8	13,500	20018	25	100	7
4-1/2	1/4	7/8	13,300	20062	25	100	9
4-1/2	1/4	5/8-11	13,300	20162	10	40	6
5	1/4	7/8	12,200	20072	25	100	11
5	1/4	5/8-11	12,200	20172	10	40	6
7	1/4	7/8	8,500	20083	25	50	24
7	1/4	5/8-11	8,500	20088	10	40	13
9	1/4	7/8	6,600	20093	25	50	41
9	1/4	5/8-11	6,600	20098	10	40	20



Tech
INFO

- Special aluminum oxide formulation prevents "loading" on soft (non-ferrous) metals
- All sizes internally reinforced with the highest quality fiberglass for maximum safety and performance
- Super-Lock™ Hub on all 5/8-11 threaded wheels is the safest, vibration-free design

Grinding
1/4"

TYPE 27 Depressed Center Wheels

GRINDING

CONTAMINANT-FREE/STAINLESS STEEL



XA24Q - Contaminant-Free

- Specially formulated for nuclear and food processing plants
- Free of iron, chlorine and sulphur compounds (Fe + Cl + S <0.1%)

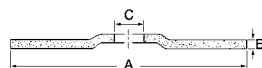
STAINLESS Stainless steel and other high tensile alloys

METAL Ferrous metals (iron, steel, welds, etc.)

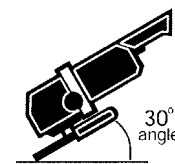
- Available in 1/8" for pipeline work
(for more information see page 37)

contaminant **cf** free

- Will not contaminate stainless steel



Size			Max RPM	Part Numbers	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
4-1/2	1/4	7/8	13,300	24210	25	100	9
5	1/4	7/8	12,200	24215	25	100	9
6	1/4	7/8	10,200	24220	25	50	20
7	1/4	7/8	8,500	24225	25	50	25
9	1/4	7/8	6,600	24230	25	50	49



Angle Grinder

Tech
INFO

- Specially formulated for contaminant-free stock removal on stainless steel
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance

TYPE 27

Saitech High Performance Wheels

Grinding
1/4"

Saitech Attacker®

- High performance, ceramic aluminum oxide grain
- Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut
- Extremely fast stock removal on hard metals with minimal pressure

STAINLESS Stainless steel and other high tensile alloys

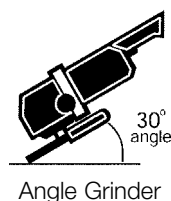
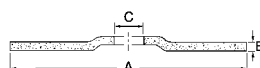
METAL Ferrous metals (iron, steel, welds, etc.)

Saitech Ultimate Performance™

- High performance, ceramic aluminum oxide grain
- Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut
- Combines fast stock removal with long life

STAINLESS Stainless steel and other high tensile alloys

METAL Ferrous metals (iron, steel, welds, etc.)



Size			Max RPM	Grades Available			Qty	Qty	Lbs
A	B	C		Part Numbers			Per	Per	Per
Dia.	Width	Bore		Attacker®	Saitech™	UP	Box	Ctn	Box
3	3/16	3/8	18,000	-	20101	25	100	3	
3	1/4	3/8	18,000	-	20102	25	100	4	
4	3/16	3/8	13,500	-	20103	25	100	5	
4	1/4	3/8	13,500	-	20112	25	100	7	
4	1/4	5/8	13,500	20041	20014	25	100	8	
4-1/2	1/4	7/8	13,300	20046	20064	25	100	11	
4-1/2	1/4	5/8-11	13,300	20146	20164	10	40	6	
5	1/4	7/8	12,200	20047	20074	25	100	13	
5	1/4	5/8-11	12,200	20147	20174	10	40	8	
7	1/4	7/8	8,500	20048	20084	25	50	28	
7	1/4	5/8-11	8,500	20148	20089	10	40	14	
9	1/4	7/8	6,600	20049	20094	25	50	43	
9	1/4	5/8-11	6,600	20149	20099	10	40	21	



- Manufactured with patented 3M™ ceramic abrasive grain to outlast standard aluminum oxide wheels
- Special bonding formula allows for very fast stock removal on many types of metals
- Designed to provide very long life for fewer wheel changes and less downtime
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance

3M is a trademark of 3M Company

GRINDING

HIGH PERFORMANCE/STAINLESS STEEL

Grinding 1/4"

TYPE 27 Depressed Center Wheels

GRINDING

CONCRETE



C24N - Concrete

- Silicon carbide grain
- Soft bond for **fast stock removal**

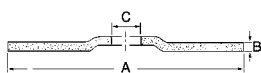
CONCRETE Masonry, concrete, stone

METAL Cast iron and other ferrous metals



Quick Tip

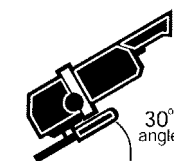
Use the C24N wheel on hard to grind metal like cast iron



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
4	1/4	5/8	13,500	20017	25	100	6
4-1/2	1/4	7/8	13,300	20061	25	100	8
4-1/2	1/4	5/8-11	13,300	20161	10	40	6
5	1/4	7/8	12,200	20071	25	100	10
5	1/4	5/8-11	12,200	20171	10	40	6
7	1/4	7/8	8,500	20082	25	50	24
7	1/4	5/8-11	8,500	20087	10	40	12
9	1/4	7/8	6,600	20092	25	50	33
9	1/4	5/8-11	6,600	20097	10	40	7



5/8-11
Super-Lock™ Hub



Angle Grinder



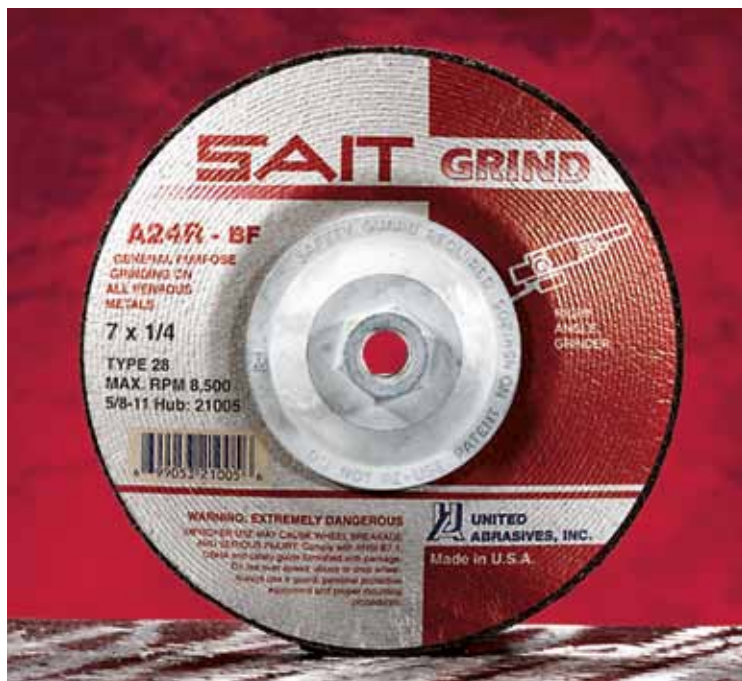
- Special Silicon Carbide grain formula is excellent for grinding masonry, concrete, stone and aggregate
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance
- Super-Lock™ Hub on all 5/8-11 threaded wheels is the safest, vibration-free design

TYPE 28 Depressed Center Wheels

Grinding
1/4"

GRINDING

GENERAL PURPOSE



A24N - Fast Grinding

- Aluminum oxide grain
- Soft bond for **fast stock removal**

METAL

Ferrous metals (iron, steel, welds, etc.)

STAINLESS

Low-grade stainless steel

A24R - Long Life

- Aluminum oxide grain
- Medium bond for longer life and fewer wheel changes

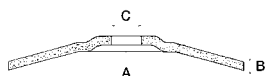
METAL

Ferrous metals (iron, steel, welds, etc.)

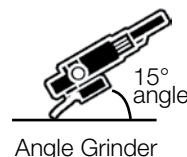


Quick Tip

Use this saucer shape for uniform grinding of large flat surfaces.



Size			Max	Grades Available		Qty Per	Qty Per	Lbs Per
A	B	C		Part Number				
Dia.	Width	Bore		RPM	A24N	A24R	Box	Ctn
4-1/2	1/4	7/8	13,300	21020	21021	25	100	9
4-1/2	1/4	5/8-11	13,300	21025	21026	10	40	6
7	1/4	7/8	8,500	21001	21000	25	50	23
7	1/4	5/8-11	8,500	21004	21005	10	40	13
9	1/4	7/8	6,600	21011	21010	25	50	38
9	1/4	5/8-11	6,600	21014	21015	10	40	19



Tech
INFO

- Type 28 saucer shape (see diagram above) allows greater surface area coverage and provides the operator with greater grind visibility
- Additional fiberglass reinforcement for maximum safety in high lateral pressure applications
- Super-Lock™ Hub on all 5/8-11 threaded wheels is the safest, vibration-free design

Grinding
1/4"

TYPE 28

Saitech High Performance Wheels

GRINDING

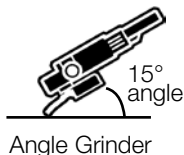
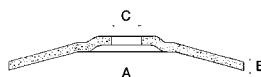
HIGH PERFORMANCE/STAINLESS STEEL

Saitech Ultimate Performance™

- High performance, ceramic aluminum oxide grain
- **Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut**
- Exclusive formula with patented 3M™ ceramic abrasive grain
- **Combines maximum material removal with long life**

STAINLESS Stainless steel

METAL Ferrous metals (iron, steel, welds, etc.)



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
7	1/4	7/8	8,500	21084	25	50	23
7	1/4	5/8-11	8,500	21089	10	40	12
9	1/4	7/8	6,600	21094	25	50	34
9	1/4	5/8-11	6,600	21099	10	40	19

Tech
INFO

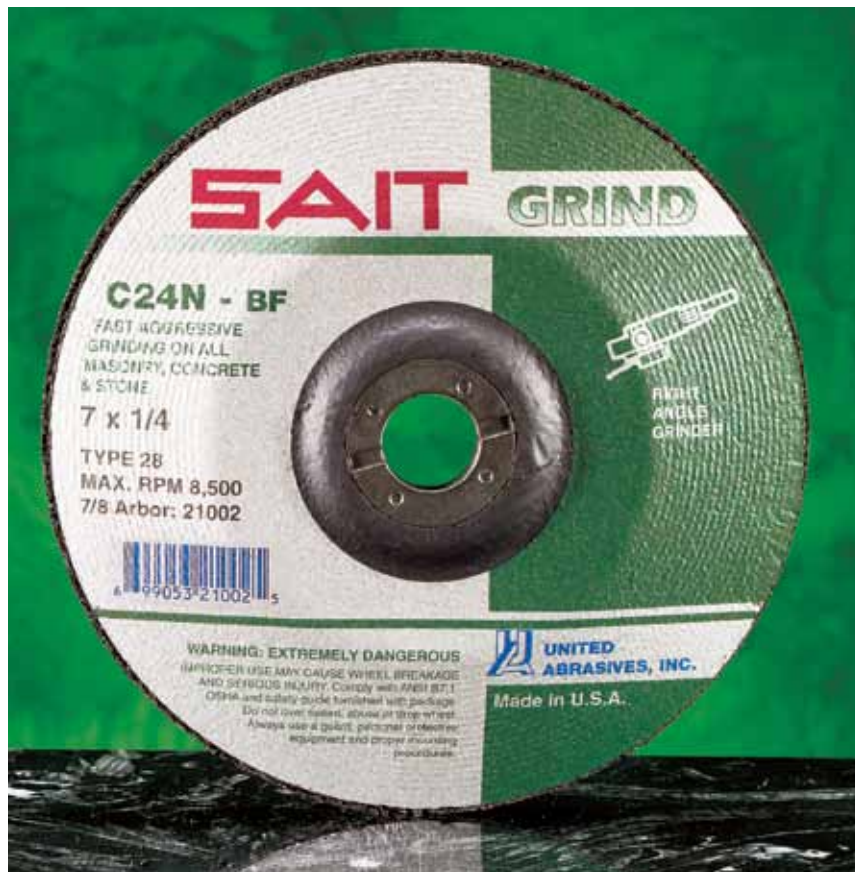
- Type 28 saucer shape (see diagram above) allows greater surface area coverage and provides the operator with greater grind visibility
- Patented 3M™ ceramic abrasive grain formulation outlasts standard aluminum oxide wheels
- Additional fiberglass reinforcement for maximum safety in high lateral pressure applications
- Super-Lock™ Hub on all 5/8-11 threaded wheels is the safest, vibration-free design

TYPE 28 Depressed Center Wheels

Grinding
1/4"

GRINDING

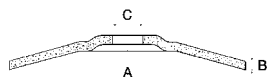
CONCRETE



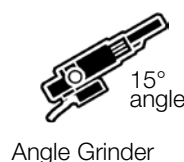
C24N - Concrete

- Silicon carbide grain
- Soft bond for **fast stock removal**

CONCRETE Masonry, concrete, stone, brick

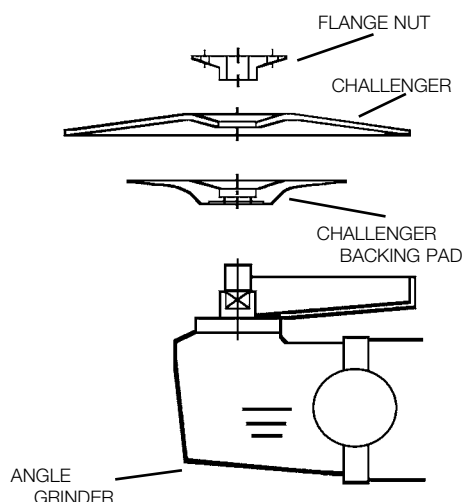


Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
7	1/4	7/8	8,500	21002	25	50	20
7	1/4	5/8-11	8,500	21006	10	40	11
9	1/4	7/8	6,600	21012	25	50	32
9	1/4	5/8-11	6,600	21016	10	40	16



- Special silicon carbide grain formula is excellent for grinding masonry, concrete, stone and aggregate
- Type 28 saucer shape (see diagram above) allows greater surface area coverage and provides the operator with greater grind visibility
- Additional fiberglass reinforcement for maximum safety in high lateral pressure applications
- Super-Lock™ Hub on all 5/8-11 threaded wheels is the safest, vibration-free design

PROPER CLAMPING PROCEDURES



Packaging

Each box of 25 supplied with a backing pad and one 5/8-11 nut
Additional pad assembly:
4-1/2" & 5" - #95245
7" - #95247

For additional pads & nuts see page 142



Challenger II™

- Aluminum oxide grain
- **Open pattern on wheel for cool grinding and blending**
- Safe for use in the nuclear industry

METAL Steel, iron, aluminum, brass, bronze

STAINLESS Stainless steel

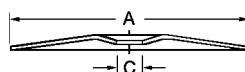
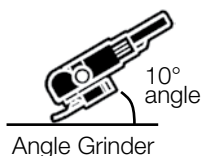
CONCRETE Also for use on plastic, fiberglass, masonry

WOOD



Quick Tip

Use Challenger II™ for longer life in aggressive applications.



Size		Max RPM	Part Numbers/Grits Challenger II™				Qty Per Box	Lbs Per Box
A Dia.	C Bore		24	36	60	100		
4-1/2	7/8	13,280	-	27500	27501	27502	25	6
5	7/8	12,200	-	27506	27507	27508	25	5
7	7/8	8,600	27510	27511	27512	27513	25	14



- Type 29 shape (see diagram above) allows easy control in grinding and blending applications
- Honeycomb, dimpled pattern on face allows for greater cooling action and longer life
- Grind and blend welds in one-step, no need for multiple steps and products
- Available in many grits for all your grinding and blending needs

TYPE 16, 17, 18 Cones & Plugs

Grinding

GRINDING

GENERAL PURPOSE

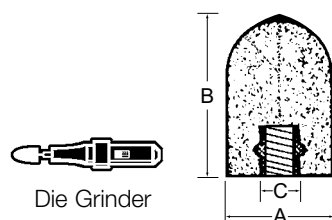


Cones and Plugs

- Aluminum oxide grain
- For grinding and snagging in hard to reach areas
- **Fast stock removal**

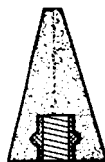
METAL Ferrous metals
(iron, steel, welds, etc.)

Packaging
10 per box



Type 16 Cone

Size			Grade Available	Max RPM	Part No.	Qty Per Box	Lbs Per Box
A Dia.	B Length	C Bore					
1-1/4	3	3/8-24	A16	29,000	25000	10	3
2	3	3/8-24	A16	18,100	25005	10	6
2	3	5/8-11	A16	18,100	25006	10	7
2-3/4	3-1/2	5/8-11	A16	13,200	25008	10	13



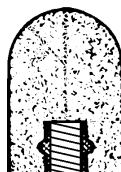
Type 17 Cone

1-1/2	2-1/2	3/8-24	A20	24,100	25101	10	3
1-1/2	2-1/2	5/8-11	A20	24,100	25102	10	3
1-1/2	3	3/8-24	A16	24,100	25103	10	3
1-1/2	3	5/8-11	A16	24,100	25104	10	4
2	3	3/8-24	A16	18,100	25105	10	6
2	3	5/8-11	A16	18,100	25106	10	5



Type 18 Plug

1-1/2	2-1/2	3/8-24	A20	24,100	25201	10	5
1-1/2	2-1/2	5/8-11	A20	24,100	25202	10	5
1-1/2	3	3/8-24	A16	24,100	25203	10	5
1-1/2	3	5/8-11	A16	24,100	25204	10	6
2	3	3/8-24	A16	18,100	25205	10	10
2	3	5/8-11	A16	18,100	25206	10	11



Type 18R Plug

1-1/2	2-1/2	3/8-24	A20	24,100	25301	10	5
1-1/2	2-1/2	5/8-11	A20	24,100	25302	10	5
1-1/2	3	3/8-24	A16	24,100	25303	10	6
1-1/2	3	5/8-11	A16	24,100	25304	10	6
2	3	3/8-24	A16	18,100	25305	10	8
2	3	5/8-11	A16	18,100	25306	10	9



- Available in the most common application shapes
- Large grit size for heavy-duty grinding and snagging



Z16 - Zirconium

- Special Zirconium grain formulation
- **Coarse grit and hard bond for the toughest grinding applications**
- Outlasts standard Aluminum Oxide cup wheels 2:1

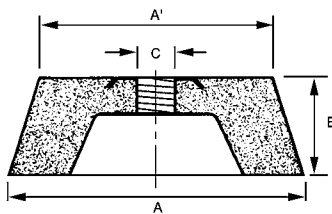
METAL Ferrous metals

STAINLESS Stainless steel

A16 - General Purpose

- Aluminum oxide grain
- Coarse grit wheel for tough grinding applications
- Excellent for cleaning castings, mold marks, removing flashing

METAL Ferrous metals



Available with an optional metal backing

Size				Grades Available	Max RPM	Part Number	MB*	Qty Per Box	Lbs Per Box
A Dia.	A' Dia.	B Width	C Bore						
4	3	2	5/8-11	A16	9,050	26000	26003	12	25
5	4	2	5/8-11	A16	7,250	26010	26013	6	20
5	4	2	5/8-11	Z16	7,250	26050	26053	6	23
6	4-3/4	2	5/8-11	A16	6,050	26020	26023	5	25
6	4-3/4	2	5/8-11	Z16	6,050	26060	26063	5	25

MB* = metal backing



Angle Grinder



- Type 11 shape (see diagram above) provides maximum surface area coverage for grinding and cleaning applications
- Offered with a metal backed option for greater stability in high-pressure applications

TYPE 11 Cup Stones

Grinding

GRINDING

CONCRETE



C16 - Concrete

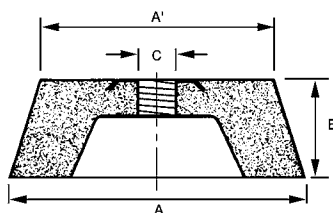
- Silicon carbide grain
- Coarse grit for tough grinding applications
- Excellent for cleaning castings, mold marks, and removing flashing

CONCRETE Masonry, concrete, stone

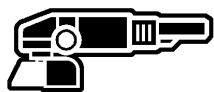
CA16 - Combination

- Combination of aluminum oxide and silicon carbide grains
- Excellent for cleaning castings, mold marks, and removing flashing

METAL Use on combination of ferrous
CONCRETE metals and/or concrete materials



Available with an optional metal backing



Angle Grinder

Size				Grades Available	Max RPM	Part Number	MB* Number	Qty Per Box	Lbs Per Box
A Dia.	A' Dia.	B Width	C Bore						
4	3	2	5/8-11	C16	9,050	26001	26004	12	21
4	3	2	5/8-11	CA16	9,050	26002	26005	12	24
5	4	2	5/8-11	C16	7,250	26011	26014	6	17
5	4	2	5/8-11	CA16	7,250	26012	26015	6	19
6	4-3/4	2	5/8-11	C16	6,050	26021	26024	5	20
6	4-3/4	2	5/8-11	CA16	6,050	26022	26025	5	30

MB* = metal backing

Tech
INFO

- Type 11 shape (cup shape) is excellent for maximum surface area coverage for foundry and cleaning applications
- Available in popular sizes for right angle grinders on the market
- Metal-back option provides greater stability in tough grinding applications

A36Q - Resin Bonded

- Aluminum oxide grain
- For deburring and finishing
- **Fast stock removal**

METAL Ferrous metals (iron, steel, welds)

- Shank length 1-1/2"



Mandrel overhang "O" must always be the lowest possible. Maximum speeds given refer to overhang "O" equal to 1/2"



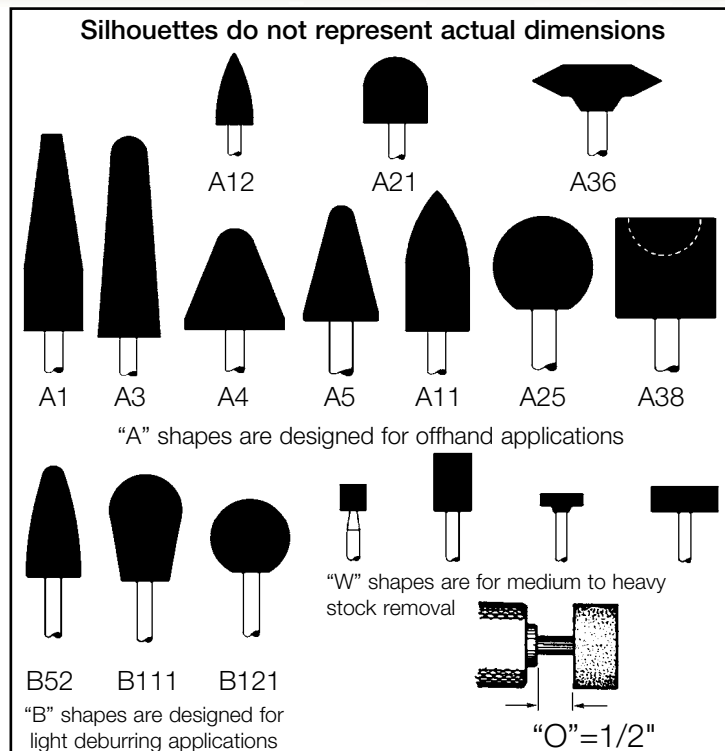
Die Grinder

A60R - Vitrified

- Aluminum oxide grain
- **Ideal for ID grinding and mold finishing**

METAL Ferrous metals

- Shank length 1-1/2"



Type	Size		Shank Dia.	A36Q Part Number	A60R Part Number	"O" = 1/2" Max RPM	Qty Per Box
	Dia.	Length					
A1	3/4	2-1/2	1/4	27401	27010	19,800	10
A3	1	2-3/4	1/4	27402	27020	16,100	10
A4	1-1/4	1-1/4	1/4	27403	27030	30,560	10
A5	3/4	1-1/8	1/4	27404	27035	45,000	10
A11	7/8	2	1/4	27405	27040	19,860	10
A12	11/16	1-1/4	1/4	-	27050	48,000	10
A21	1	1	1/4	-	27060	34,500	10
A25	1	Round	1/4	-	27070	35,620	10
A36	1-5/8	3/8	1/4	-	27086	23,520	10
A38	1	1	1/4	27406	27088	34,500	10
B52	3/8	3/4	1/4	27407	-	45,370	10
B52	3/8	3/4	1/8	-	27110	45,370	20
B111	7/16	11/16	1/8	-	27120	33,750	20
B121	1/2	1/2	1/8	-	27130	45,370	20
W160	1/4	1/4	1/8	-	27308	81,370	10
W177	3/8	3/4	1/8	-	27310	33,750	20
W179	3/8	1-1/4	1/4	27408	-	45,750	10
W189	1/2	2	1/4	27409	27327	24,000	10
W196	5/8	1	1/4	-	27329	35,250	10
W204	3/4	3/4	1/4	27410	27320	42,750	10
W208	3/4	2	1/4	27411	27330	18,750	10
W215	1	1/8	1/8	-	27338	38,200	10
W220	1	1	1/4	27412	27360	25,500	10
W222	1	2	1/4	27413	27340	15,900	10
W225	1-1/4	1/4	1/4	-	27350	30,560	10
W236	1-1/2	1/2	1/4	27414	27349	25,470	10

- These mounted bonded points are a low cost alternative to carbide burs
- Each point is dressed for perfect balance to perform without vibration or run-out

PIPELINE INTRODUCTION



- This section contains four 1/8" thick specifications
- Designed and manufactured to perform both cutting and light grinding



A24R Pipeline
Long Life



Z24R
High Performance



A24 Turbo™
High Performance



Saittech™ Pipeline
High Performance
Stainless Steel



A24R Pipeline - Long Life

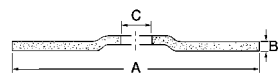
- Aluminum oxide grain
- For the pipeline industry
- Designed and manufactured to perform both cutting and light grinding
- Long life

METAL Ferrous metals
(steel, cast iron, etc.)

**A24 Turbo™ - High Performance**

- Aluminum oxide grain
- For the pipeline industry
- High performance cutting, notching and light grinding
- Long life

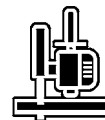
METAL Ferrous metals
(steel, cast iron, etc.)



Size			Max RPM	Part Number		Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Pipeline	Turbo™			
3	1/8	3/8	18,000	22005	-	25	100	2
4	1/8	3/8	13,500	22007	-	25	100	4
4	1/8	5/8	13,500	22015	-	25	100	4
4-1/2	1/8	7/8	13,300	22030	23703	25	100	6
4-1/2	1/8	5/8-11	13,300	22130	23713*	10	40	5
5	1/8	7/8	12,200	22040	23705	25	100	7
5	1/8	5/8-11	12,200	22140	23715*	10	40	5
6	1/8	7/8	10,200	22042	23706	25	50	10
6	1/8	5/8-11	10,200	22046	23716	10	40	8
7	1/8	7/8	8,500	22055	23707	25	50	15
7	1/8	5/8-11	8,500	22052	23717	10	40	10
9	1/8	7/8	6,600	22065	-	25	50	25
9	1/8	5/8-11	6,600	22062	-	10	40	13



5/8-11
Super-Lock™ Hub



Angle Grinder

Note: Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8" available on page 143 (part #95055).

* Part numbers 23713 and 23715 do not use Super-Lock™ Hub.

Tech
INFO

- Only wheel designed for both cutting and light grinding, eliminating the need for 2 separate wheels
- General purpose formulation provides optimum performance over a wide range of applications
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance

TYPE 27

Specialty Pipeline Wheels

Cutting/Grinding

1/8"

PIPELINE



Z24R

- Tough zirconium grain
- High performance cutting and light grinding for the toughest applications

METAL	Ferrous metals (iron, steel, welds)
STAINLESS	Stainless steel, high tensile alloys

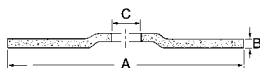


Saitech™ Pipeline

- High performance, ceramic aluminum oxide grain
- Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut
- Designed and manufactured to perform both high performance cutting and light grinding
- Long life combined with versatility for the pipeline industry

STAINLESS	Stainless steel, high tensile alloys
METAL	Ferrous metals (iron, steel, welds, etc.)

- High performance cutting and light grinding on stainless steel



Size			Max RPM	Part Number		Qty Per Box	Qty Per Ctn	Lbs Per Box	
A Dia.	B Width	C Bore		Z-tech™	Saitech™			Z-tech™	Saitech™
4	1/8	5/8	13,500	22619	-	25	100	4	-
4-1/2	1/8	7/8	13,300	22620	22264	25	100	6	7
4-1/2	1/8	5/8-11	13,300	22630	22269	10	40	5	5
5	1/8	7/8	12,200	22622	22274	25	100	8	8
5	1/8	5/8-11	12,200	22632	22279	10	40	11	10
6	1/8	7/8	10,200	22623	-	25	100	11	-
6	1/8	5/8-11	10,200	22633	-	10	40	8	-
7	1/8	7/8	8,500	22624	22284	25	50	17	20
7	1/8	5/8-11	8,500	22634	22289	10	40	9	10
9	1/8	7/8	6,600	22626	22294	25	50	26	32
9	1/8	5/8-11	6,600	22636	22299	10	40	14	16



5/8-11 Super-Lock™ Hub



Angle Grinder

Note: Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8" available on page 143 (part #95055)




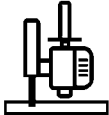
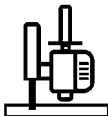




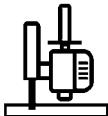



- Only wheel designed for both cutting and light grinding, eliminating the need for 2 separate wheels
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance
- Super-Lock™ Hub on all 5/8-11 threaded wheels is the safest, vibration-free design
- Patented 3M™ ceramic abrasive grain formulation outlasts standard aluminum oxide wheels (Saitech™)

STAINLESS STEEL/HIGH PERFORMANCE


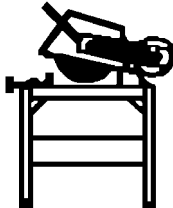








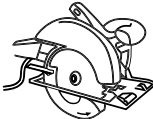





CUTTING INTRODUCTION

- This section contains cut-off wheels (Type 27 and Type 1).
- These wheels will cut a wide range of materials.
- Some of the categories contain Specialty Wheels that are used for a specific application.
- For example, our Stud King® Chop Saw Wheel is specifically designed to cut metal studding and thin gauge metals.

TYPE	TOOL	SPECIFICATIONS	PAGE
Thin High Speed Cut-Off Wheels		A24R General Purpose A36T Long Life A60S Extremely fast cutting A60T Burr-free Cutting Saitech™ Stainless Steel	38-39
	 Die Grinder  Circular Saw  Angle Grinder		
.045, .090 & 1/16 High Speed Cut-Off Wheels	 Angle Grinder  Circular Saw	A60S General Purpose A46N Aluminum SAIT.M.X.™ Fast burr-free cutting SaitZ-tech™	28-34
			
Chop Saw Wheels	 Chop Saw	SaitZ-tech™ EZ-Chop Attacker® EZ-Chop® General Purpose Stud King® Metal Studding Iron Worker™ Angle Iron	41-43
			
3/32 & 1/8	 Angle Grinder	SaitZ-tech™ A24R General Purpose Saitech Ultimate Performance™ High Purpose/Stainless Steel C24R Concrete XA24Q Contaminant-Free	35-37
			

CUTTING INTRODUCTION



TYPE	TOOL	SPECIFICATIONS	PAGE	
Stationary Saw Cut-Off Wheels 	 Stationary Saw	A24N Fast Cutting A24R General Purpose A36R Stainless Steel C24R Concrete	48-49	
Portable Saw Cut-Off Wheels 	 Portable Saw  Circular Saw  Angle Grinder	 Extremely Fast Cutting A24R General Purpose SAIT-Pro Metal & Concrete Brute™ Metal Decking A30S Long Life Hobo® Rail Steel Ductile™ Ductile Pipe C24R Concrete Big M.A.C.™ Masonry, Asphalt, Concrete	40 44-46	
Street Saw Wheels 	 Street Saw	C16 Fast Cutting C24R General Purpose Street Walker™ Asphalt Street Runner™ Asphalt, Green Concrete	47	
Metal-Cutting Carbide Blades 	 Circular Saw  Worm Drive Saw	 Metal-Cutting Circular Saw  Low RPM Metal-Cutting Saw	 Thin Metal Xtra  STAINLESS ALUMINUM	50-53

Cutting
.045"

TYPE 27 Depressed Center Wheels

Patented !

.045™



A60S - General Purpose

- So unique it has a patent
- Thin .045 width
- Special aluminum oxide grain
- Hard bond for extremely long life
- **Fast, burr-free cutting**

METAL Ferrous and/or non-ferrous metals (iron, steel, welds, etc.)

.045™

SAIT.M.X.™ - Thin Metal Xtra

- Special bond for cutting sheet metal and other thin gauge metals
- **Fast, burr-free cutting**

METAL Ferrous metals (carbon steel, etc.)

STAINLESS Stainless steel

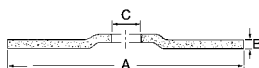
A46N - Aluminum (Non-Ferrous Metals)

- Aluminum oxide grain
- Thin .045 width
- **Soft bond for aggressive cutting without loading**

ALUMINUM Non-ferrous metals (aluminum, copper, brass, etc.)

.045™

See pages 30-31 for Type 1 .045 cutting wheels for metal.



Size			Max RPM	Grades Available			Qty	Qty	Lbs
A	B	C		Part Numbers			Per	Per	Per
Dia.	Width	Bore		A60S	A46N	SAIT.M.X.™	Box	Ctn	Box
4	.045	5/8	19,000	22011	22340	-	50	200	4
4-1/2	.045	7/8	13,300	22021	22345	23654	50	200	4
5	.045	7/8	12,200	22071	22350	23655	50	200	6
6	.045	7/8	10,200	22047	22360	23656	50	200	8
7	.045	7/8	8,500	22053	22370	-	50	200	14



Angle Grinder

**Tech
INFO**

- Unique, thin Type 27 shape can be used on all angle grinders in accordance with ANSI B7.1
- Special Aluminum Oxide formulation offers the fastest cutting, longest lasting thin wheels
- Externally reinforced with fiberglass layers to provide ultimate safety in a thin wheel

CUTTING

GENERAL PURPOSE

TYPE 27 High Performance Wheels

Saitech Cutting .045"

PATENTED!

TM



Z-Tech - High Performance

- So unique it has a patent
- Thin .045 width
- Special zirconium grain
- Hard bond for extremely long life
- **Fast, burr-free cutting**

METAL

Ferrous and/or non-ferrous metals (iron, steel, welds, etc.)

STAINLESS

Stainless steel, high tensile alloys



TM

- High performance, ceramic aluminum oxide grain
- **Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut**
- So unique it has a patent
- Thin .045 width
- Fast cutting with long life

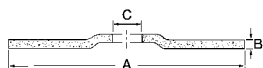
STAINLESS

Stainless steel, high tensile alloys

METAL

Ferrous metals (iron, steel, welds, etc.)

See pages 30-31 for Type 1 .045 wheels



Size			Max RPM	Grades Available		Qty	Qty	Lbs
A	B	C		Part Numbers		Per	Per	Per
Dia.	Width	Bore		Z-Tech™	Saitech™	Box	Ctn	Box
4	.045	5/8	19,000	23333	22068	50	200	4
4-1/2	.045	7/8	13,300	23334	22072	50	200	4
5	.045	7/8	12,200	23335	22073	50	200	6
6	.045	7/8	10,200	23336	22082	50	200	8
7	.045	7/8	8,500	23337	22088	50	200	14



Angle Grinder



Note: Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8" available on page 143 (part #95055)

Tech INFO

- Manufactured with patented 3M™ ceramic abrasive grain to outlast standard aluminum oxide wheels
- Thin cutting wheel in a Type 27 shape makes this perfect for your angle grinder
- Unique bonding system lets you make faster burr-free cuts
- Designed to provide very long life for fewer wheel changes and less downtime
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance

3M is a trademark of 3M Company

CUTTING

STAINLESS STEEL/HIGH PERFORMANCE

Cutting
.045"

TYPE 1
Thin High Speed Cut-Off

CUTTING

GENERAL PURPOSE



See pages 28-29 for Type 27 depressed center .045 cutting wheels for metal.



A60S - General Purpose

.045™

- Thin .045 width
- Use with reusable 5/8-11 adaptor to fit angle grinders
- **Extremely fast cutting with long life**

METAL Ferrous and/or non-ferrous metals
(iron, steel, welds, etc.)

SAIT.M.X.™

(Ferrous Metals)

.045™

- Special bond for cutting sheet metal and other thin gauge metals
- **Fast, burr-free cutting**

METAL Ferrous metals (carbon steel, etc.)

STAINLESS Stainless steel

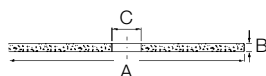
A46N - Aluminum (Non-Ferrous Metals)

.045™

- Aluminum oxide grain
- **Soft bond for aggressive cutting without loading**
- Use with reusable 5/8-11 adaptor to fit angle grinders

ALUMINUM Non-ferrous metals
(aluminum, copper, brass, etc.)

Note: Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8" available on page 143 (part #95055)



Size			Max RPM	Grades Available Part Numbers			Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		A60S	SAIT.M.X.™	A46N			
4	.045	5/8	19,000	23099	-	23304	50	200	4
4-1/2	.045	7/8	13,300	23101	23604	23314	50	200	4
5	.045	7/8	12,200	23103	23605	23315	50	200	6
6	.045	5/8	10,200	23105	-	23310	50	200	8
6	.045	7/8	10,200	23106	23606	23316	50	200	8
7	.045	5/8	8,500	23107	-	23317	50	200	14



Angle Grinder



Circular Saw

**Tech
INFO**

- Type 1 shape for square, burr-free cutting
- Special aluminum oxide formulation offers the fastest cutting, longest lasting thin wheels
- Externally reinforced with fiberglass layers to provide ultimate safety in a thin wheel
- Wide range of sizes available to fit both angle grinders and circular saws

TYPE 1 Thin High Speed Cut-Off

Cutting .045"



XA46R - Contaminant-Free

- Specially formulated for nuclear and food processing plants
- Free of iron, chlorine and sulphur compounds (Fe + Cl + S < 0.1%)
- All wheels are 1/16" thick

STAINLESS Stainless steel and other high tensile alloys

contaminant **cf** free

Z-tech - High Performance

- Special zirconium grain formula
- Fast, non-binding cutting

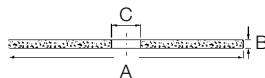
METAL Ferrous metals

STAINLESS Stainless steel, high tensile alloys

- High performance, ceramic aluminum oxide grain
- **Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut**
- Thin .045 width
- Use with reusable 5/8-11 adaptor to fit angle grinders
- Combines **fast cutting with extremely long life**

STAINLESS Stainless steel, high tensile alloys

METAL Ferrous and/or non-ferrous metals



Size			Max RPM	Grades Available			Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers					
				Z-Tech™	Saitech™	XA46R			
4	.045	5/8	19,000	23323	23172	-	50	200	4
4-1/2	.045	7/8	13,300	23324	23174	-	50	200	4
4-1/2	1/16	7/8	13,300	-	-	24251	50	200	7
5	.045	7/8	12,200	23325	23177	-	50	200	6
5	1/16	7/8	12,200	-	-	24252	50	200	7
6	.045	5/8	10,200	23326	23181	-	50	200	8
6	.045	7/8	10,200	23327	23182	-	50	200	8
6	1/16	7/8	10,200	-	-	24253	50	200	14
7	.045	5/8	8,500	23328	23184	-	50	200	14
7	1/16	7/8	8,500	-	-	24254	50	200	14

Note: Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8" available on page 143 (part #95055)

See pages 28-29 for Type 27 depressed center .045 cutting wheels for metal.



Angle Grinder



Circular Saw



- Type 1 shape for square, burr-free cutting
- Patented 3M™ ceramic abrasive grain formulation outlasts standard aluminum oxide wheels
- Externally reinforced with fiberglass layers to provide ultimate safety in a thin wheel
- Wide range of sizes available to fit both angle grinders and circular saws
- Specially formulated for contaminant-free stock removal on stainless steel (XA46R)

3M is a trademark of 3M Company

CUTTING

STAINLESS STEEL/HIGH PERFORMANCE

Cutting

.090"

TYPE 27 Depressed Center Wheels

CUTTING

SPECIALTY

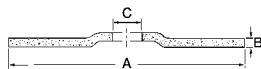


A60S - General Purpose

- Thin .090 width
- Special aluminum oxide grain
- Hard bond for extremely long life
- **Excellent for notching and cutting**

METAL

Ferrous and/or non-ferrous metals (iron, steel, welds, etc.)



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
4	.090	5/8	19,000	20902	25	100	4
4-1/2	.090	7/8	13,300	20903	25	100	4
4-1/2	.090	5/8-11	13,300	20913	10	40	5
5	.090	7/8	12,200	20904	25	100	6
5	.090	5/8-11	12,200	20914	10	40	5
6	.090	7/8	10,200	20905	25	100	8
6	.090	5/8-11	10,200	20915	10	40	7
7	.090	7/8	8,500	20906	25	100	14
7	.090	5/8-11	8,500	20916	10	40	11
9	.090	7/8	6,600	20909	25	50	21
9	.090	5/8-11	6,600	20919	10	40	11

Patented !



Z-tech

High Performance

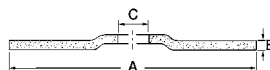
- Tough zirconium grain
- **High performance cutting and notching for the toughest applications**

METAL

Ferrous metals (iron, steel, welds)

STAINLESS

Stainless steel, high tensile alloys



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
4	.090	5/8	19,000	20942	25	100	4
4-1/2	.090	7/8	13,300	20943	25	100	4
4-1/2	.090	5/8-11	13,300	20953	10	40	5
5	.090	7/8	12,200	20944	25	100	6
5	.090	5/8-11	12,200	20954	10	40	5
6	.090	7/8	10,200	20945	25	100	8
6	.090	5/8-11	10,200	20955	10	40	7
7	.090	7/8	8,500	20946	25	100	14
7	.090	5/8-11	8,500	20956	10	40	11

Note: Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8" available on page 143 (part #95055)



Angle Grinder



- Unique, thin Type 27 shape can be used on all angle grinders in accordance with ANSI B7.1
- Special bond formulation offers the fastest cutting, longest lasting thin wheels
- Externally reinforced with fiberglass layers to provide ultimate safety in a thin wheel

TYPE 27

Saitech Cutting

Saitech High Performance Wheels .090"

PATENTED!

Saitech Ultimate Performance™

- High performance, ceramic aluminum oxide grain
- **Very uniform, high density grain structure** is extremely durable and self sharpening for long life and cooler cut
- Combines **fast cutting with extremely long life** for tough cutting applications
- Ideal for foundry applications (gates, risers)

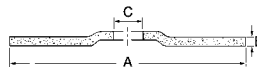
STAINLESS Stainless steel, high tensile alloys

METAL Ferrous metals (iron, steel, welds, etc.)



CUTTING

STAINLESS STEEL



Angle Grinder

Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
4	.090	5/8	19,000	20922	25	100	4
4-1/2	.090	7/8	13,300	20923	25	100	4
4-1/2	.090	5/8-11	13,300	20933	10	40	5
5	.090	7/8	12,200	20924	25	100	6
5	.090	5/8-11	12,200	20934	10	40	5
6	.090	7/8	10,200	20925	25	100	8
6	.090	5/8-11	10,200	20935	10	40	7
7	.090	7/8	8,500	20926	25	100	14
7	.090	5/8-11	8,500	20936	10	40	11

Tech INFO

- Manufactured with patented 3M™ ceramic abrasive grain to outlast standard aluminum oxide wheels
- Unique bonding system lets you make faster burr-free cuts
- Designed to provide very long life for fewer wheel changes and less downtime
- All sizes externally reinforced with the highest quality fiberglass for maximum safety and performance

Cutting

.090"

TYPE 1 High Speed Cut-Off Wheels

.090™

A60S - General Purpose

- Aluminum oxide grain
- Provides consistent performance with long life

METAL Ferrous metals
(steel, angle iron, rebar)



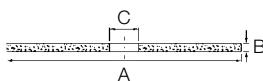
Sait Z-tech™

Z-tech High Performance

- Tough zirconium grain
- High performance cutting and notching for the toughest applications

METAL Ferrous metals
(iron, steel, welds)

STAINLESS Stainless steel,
high tensile alloys



Size			Max RPM	Grades Available		Qty Per Box	Qty Per Ctn	Lbs Per Box
A	B	C		Part Numbers				
Dia.	Width	Bore		A60S	Z-tech			
4	.090	5/8	19,000	23803	23823	25	100	4
4-1/2	.090	7/8	13,300	23804	23824	25	100	4
5	.090	7/8	12,200	23805	23825	25	100	6
6	.090	7/8	10,200	23806	23826	25	100	8
7	.090	5/8	8,500	23807	23827	25	50	14



Circular Saw



Angle Grinder

Tech
INFO

- Type 1 shape for square, burr-free cutting
- Externally reinforced with the highest quality fiberglass to withstand the toughest applications
- Available in many arbor sizes to fit a wide variety of tools

CUTTING

SPECIALTY

TYPE 27 Specialty Cutting Wheels

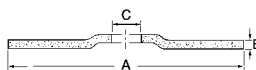
Cutting
3/32"



A24R - General Purpose

- Aluminum oxide grain
- For general purpose use
- Combines **fast cutting** and **long life**

METAL Ferrous metals (iron, steel, welds, etc.)



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		A24R			
3	1/8	3/8	18,000	22000	25	100	2
4	1/8	3/8	13,500	22010	25	100	3
4-1/2	3/32	7/8	13,300	22020	25	100	5
4-1/2	3/32	5/8-11	13,300	22120	10	40	7
5	3/32	7/8	12,200	22070	25	100	6
5	3/32	5/8-11	12,200	22170	10	40	7
6	1/8	7/8	10,200	22045	25	100	25
7	3/32	7/8	8,500	22056	25	100	14
7	3/32	5/8-11	8,500	22057	10	40	9
9	3/32	7/8	6,600	22066	25	50	22
9	3/32	5/8-11	6,600	22067	10	40	12

CUTTING

SPECIALTY

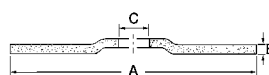


Z24R - Zirconium

- Tough zirconium grain
- High performance cutting for the toughest applications

METAL Ferrous metals (iron, steel, welds)

STAINLESS Stainless steel, high tensile alloys



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		SAIT Z-tech™			
4	3/32	5/8	13,500	22640	25	100	3
4-1/2	3/32	7/8	13,300	22641	25	100	7
4-1/2	3/32	5/8-11	13,300	22651	10	100	5
5	3/32	7/8	12,200	22643	25	100	6
5	3/32	5/8-11	12,200	22653	10	40	5
6	3/32	7/8	10,200	22644	25	25	10
6	3/32	5/8-11	10,200	22654	10	40	7
7	3/32	7/8	8,500	22645	25	100	14
7	3/32	5/8-11	8,500	22655	10	40	9
9	3/32	7/8	6,600	22646	25	50	22
9	3/32	5/8-11	6,600	22656	10	40	12



- For use on angle grinders
- Aggressive cutting performance over a wide range of applications
- Super-Lock™ Hub on all 5/8-11 threaded arbors is the safest, vibration-free design
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance

Saitech Cutting

3/32" Saitech High Performance Wheels

TYPE 27

CUTTING

STAINLESS STEEL

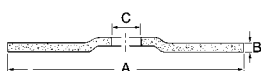


Saitech Ultimate Performance™

- High performance, ceramic aluminum oxide grain
- Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut
- Combines fast cutting with extremely long life for tough cutting applications
- Ideal for foundry applications (gates, risers)

STAINLESS Stainless steel, high tensile alloys

METAL Ferrous metals (iron, steel, welds, etc.)



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
4-1/2	3/32	7/8	13,300	22064	25	100	7
4-1/2	3/32	5/8-11	13,300	22069	10	40	5
5	3/32	7/8	12,200	22074	25	100	7
5	3/32	5/8-11	12,200	22079	10	40	5
7	3/32	7/8	8,500	22084	25	100	18
7	3/32	5/8-11	8,500	22089	10	40	10
9	3/32	7/8	6,600	22094	25	50	21
9	3/32	5/8-11	6,600	22099	10	40	11



5/8-11 Super-Lock™ Hub



Angle Grinder

Tech
INFO

- Manufactured with patented 3M™ ceramic abrasive grain to outlast standard aluminum oxide wheels
- Unique bonding system lets you make faster burr-free cuts
- Designed to provide very long life for fewer wheel changes and less downtime
- Super-Lock™ Hub on all 5/8-11 threaded wheels is the safest, vibration-free design

TYPE 27 Depressed Center Wheels

Cutting
1/8"

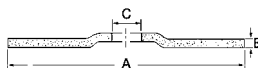


C24R - Concrete

- Silicon carbide grain
- General purpose cutting, hard bond for long life

CONCRETE Masonry, concrete, stone

METAL Cast iron and other ferrous metals



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
4	1/8	5/8	13,500	22017	25	100	3
4-1/2	3/32	7/8	13,300	22025	25	100	5
4-1/2	3/32	5/8-11	13,300	22125	10	40	7
5	1/8	7/8	12,200	22041	25	100	7
5	1/8	5/8-11	12,200	22141	10	40	5
7	1/8	7/8	8,500	22050	25	100	14
7	1/8	5/8-11	8,500	22051	10	40	9
9	1/8	7/8	6,600	22060	25	50	22
9	1/8	5/8-11	6,600	22061	10	40	12



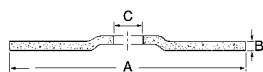
XA24Q - Contaminant-Free

- Specially formulated for nuclear and food processing plants
- Free of iron, chlorine and sulphur compounds (Fe + Cl + S <0.1%)

STAINLESS Stainless steel and other high tensile alloys

METAL Ferrous metals (iron, steel, welds, etc.)

contaminant **cf** free



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
4-1/2	1/8	7/8	13,300	24310	25	100	5
5	1/8	7/8	12,200	24315	25	100	5
6	1/8	7/8	10,200	24320	25	100	8
7	1/8	7/8	8,500	24325	25	50	13
9	1/8	7/8	6,600	24330	25	50	20



Angle Grinder



- Special silicon carbide grain formula is excellent for cutting masonry, concrete, stone and aggregate (C24R)
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance
- Super-Lock™ Hub on all 5/8-11 threaded wheels is the safest, vibration-free design
- Specially formulated for contaminant-free stock removal on stainless steel (XA24Q)

CUTTING

STAINLESS STEEL/CONCRETE

Cutting



Circular Saw



Angle Grinder

TYPE 1

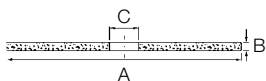
Thin High Speed Cut-off

CUTTING

GENERAL PURPOSE



* These sizes are typically used for tool room applications



Size			Max RPM	Grades Available Part Numbers			Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		A36T	A60S	A60T			
4-1/2	.045	7/8	13,300	-	23101	-	50	200	4
5	.045	7/8	12,200	-	23103	-	50	200	2
6	1/16	1/2	10,186	23202	-	23203	50	50	8
6	1/16	5/8	10,186	23200	-	23201	50	50	8
6	.035	1/2	10,186	23206	-	23207	50	50	5
6	.035	7/8	10,186	23210	-	23211	50	50	5
6	.035	5/8	10,186	23204	-	23205	50	50	5
6	.045	5/8	10,200	-	23105	-	50	200	4
6	.045	7/8	10,200	-	23106	-	50	200	4
7*	1/16	1-1/4	8,732	23250	-	23251	50	50	12
7	1/16	5/8	8,732	23265	-	23266	50	50	6
7*	.035	1-1/4	8,732	23252	-	23253	50	50	4
7	.045	5/8	8,500	-	23107	-	50	200	4
8	1/16	5/8	7,640	23275	-	23276	50	50	7
8*	1/16	1-1/4	7,640	23277	-	23278	50	50	7

A24R - General Purpose

- Aluminum oxide grain
- General purpose, long life

METAL Ferrous metals (iron, steel, welds, etc.)

A36T - Fast Cutting

- Aluminum oxide grain
- Hard bond for aggressive cutting on rough applications

METAL Ferrous metals (iron, steel, welds, etc.)

STAINLESS Stainless steel

A60S

- Thin .045 width
- Use with reusable 5/8-11 adaptor to fit angle grinders
- Extremely fast cutting with long life

METAL Ferrous and/or non-ferrous metals (iron, steel, welds, etc.)

A60T - Burr Free

- Hard bond for smooth cutting
- For use in nuclear, aerospace, automotive, foundry industries, and plant maintenance

METAL Ferrous metals (iron, steel, welds, etc.)

STAINLESS High tensile metals



Quick Tip

Try .045 sizes for longer life and better value

Tech INFO

- Type 1 shape for square, burr-free cutting
- Externally reinforced with fiberglass layers to provide ultimate safety in a thin wheel
- Wide range of grit sizes available for aggressive action to burr-free cutting

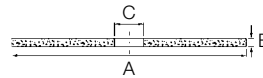
TYPE 1

Thin High Speed Cut-off Wheels

Cutting



Die Grinder

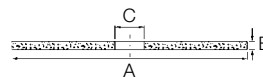


For items A24R, A36T, A60S, and A60T see descriptions on page 38

Size			Max RPM	Grades Available				Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		A24R	A36T	A60S	A60T			
2	1/16	1/4	30,558	-	23004	-	23005	50	50	1
2	1/16	3/8	30,558	-	23002	-	23003	50	50	1
2	.035	1/4	30,558	-	23012	-	23013	100	100	1
2	.035	3/8	30,558	-	23010	-	23011	100	100	1
2-1/2	1/16	1/4	24,446	-	23022	-	23023	50	50	2
2-1/2	1/16	3/8	24,446	-	23020	-	23021	50	50	2
2-1/2	.035	1/4	24,446	-	23032	-	23033	100	100	2
2-1/2	.035	3/8	24,446	-	23030	-	23031	100	100	2
3	1/16	1/4	25,000	-	23042	-	23043	50	50	3
3	1/16	3/8	25,000	-	23040	-	23041	50	50	3
3	.035	1/4	25,000	-	23052	-	23053	100	100	3
3	.035	3/8	25,000	-	23050	-	23051	100	100	3
3	1/8	3/8	20,372	23060	-	-	-	25	100	2
4	1/16	1/4	19,000	-	23067	-	23068	50	50	5
4	1/16	3/8	19,000	-	23065	-	23066	50	50	5
4	1/16	5/8	19,000	-	23061	-	23062	50	50	5
4	.035	1/4	19,000	-	23071	-	23072	100	100	5
4	.035	3/8	19,000	-	23069	-	23070	100	100	5
4	.035	5/8	19,000	-	23063	-	23064	100	100	5
4	.045	5/8	19,000	-	-	23099	-	50	200	4
4	1/8	3/8	15,278	23075	-	-	-	25	100	4



1/4" shank adaptors for wheels up to 3" diameter available on page 143



Saitech Ultimate Performance™

- High performance, ceramic aluminum oxide grain
- **Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut**
- High Performance
- Combines fast cutting with extremely long life

STAINLESS Stainless steel, high tensile alloys

METAL Ferrous and/or non-ferrous metals

Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
3	1/16	1/4	25,000	23142	50	50	2
3	1/16	3/8	25,000	23140	50	50	2
3	.035	1/4	25,000	23152	100	100	3
3	.035	3/8	25,000	23150	100	100	3
4	1/16	1/4	19,000	23167	50	50	4
4	1/16	3/8	19,000	23165	50	50	4
4	1/16	5/8	19,000	23161	50	50	4
4	.035	1/4	19,000	23171	100	100	5
4	.035	3/8	19,000	23169	100	100	5
4	.035	5/8	19,000	23163	100	100	5



- Type 1 shape for square, burr-free cutting
- Patented 3M™ ceramic abrasive grain formulation outlasts standard aluminum oxide wheels (Saitech™)
- Externally reinforced with fiberglass layers to provide ultimate safety in a thin wheel

3M is a trademark of 3M Company

CUTTING

STAINLESS STEEL/METAL

Cutting



Circular Saw



Angle Grinder

TYPE 1 Portable Saw Cut-off Wheels

A24R - General Purpose

- Aluminum oxide grain
- Provides consistent performance with **long life**

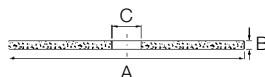
METAL Ferrous metals (steel, angle iron, rebar)

A30S - Long Life

- Special aluminum oxide grain formula
- **Fast, non-binding cutting**

METAL Ferrous metals

STAINLESS Stainless steel,
high tensile alloys

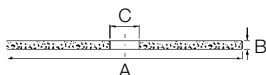


Size			Max RPM	Grades Available Part Numbers		Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		A24R	A30S			
4-1/2	5/64	7/8	13,300	-	23102	50	200	9
4-1/2	3/32	7/8	13,300	23100	-	50	200	10
5	5/64	Dia. (5/8)	12,200	-	23226	50	200	11
5	5/64	7/8	12,200	-	23224	50	200	11
6-1/2	3/32	Dia. (5/8)	8,500	23222	-	25	50	8
7	5/64	Dia. (5/8)	8,500	-	23242	25	50	10
7	5/64	7/8	8,500	-	23240	25	50	10
7	3/32	5/8	8,500	23230	-	25	50	10
7	3/32	Dia. (5/8)	8,500	23234	-	25	50	10
7	3/32	7/8	8,500	23232	-	25	50	10
8	3/32	Dia. (5/8)	7,600	-	23246	25	50	13
8	3/32	5/8	7,600	23254	-	25	50	13
8	3/32	Dia. (5/8)	7,600	23258	-	25	50	13
9	3/32	7/8	6,600	-	23248	25	50	19

C24R - Concrete

- Silicon carbide grain
- **Long life**

CONCRETE Stone, brick, soft aggregate,
masonry, concrete



Size			Max RPM	Part Number C24R	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
6-1/2	3/32	Dia (5/8)	8,500	23223	25	50	7
7	3/32	7/8	8,500	23233	25	50	9
7	3/32	Dia (5/8)	8,500	23235	25	50	9
7	3/32	5/8	8,500	23231	25	50	9
8	3/32	7/8	7,600	23257	25	50	11
8	3/32	Dia (5/8)	7,600	23259	25	50	11
8	3/32	5/8	7,600	23255	25	50	11



- Type 1 shape for square, burr-free cutting
- External fiberglass reinforcement withstands offhand lateral pressure for added safety and controlled performance

CHOP SAW WHEELS





SAIT EZ-Chop Attacker®

- Aluminum oxide grain
- General purpose economy cutting
- **Fast cutting on thin metals**

METAL Metal studding, thin rebar, light gauge and medium metals



Quick Tip

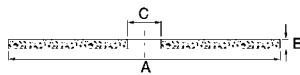
Use this wheel as an economical alternative for general purpose cutting.



SAIT EZ-Chop®

- Aluminum oxide grain
- General purpose cool cutting on thin metals
- **Burr-free finish**

METAL Metal studding, thin rebar, light gauge and heavy metals



Size			Max RPM	Part Numbers		Qty	Qty	Lbs
A	B	C		EZ-Chop Attacker®	EZ-Chop®	Per Box	Per Ctn	Per Box
Dia.	Width	Bore						
12	3/32	1	5,100	-	24034	10	50	11
14	3/32	1	4,400	24500	24039	10	20	16



- EZ-Chop Attacker® is the best economy general purpose chop saw blade
- Specially formulated ultrathin design for fast cutting of thin gauge metals and heavy metals
- Externally reinforced with the highest quality fiberglass to withstand the toughest applications

TYPE 1 Chop Saw Wheels

Cutting



Chop Saw



TM

Z-tech - High Performance

- Special zirconium grain formula
- **Fast, non-binding cutting**

METAL Ferrous metals

STAINLESS Stainless steel, high tensile alloys

Stud King®

- Aluminum oxide grain
- General purpose cool cutting on thin metals
- **Burr-free finish**

METAL Metal studding, thin rebar, light gauge metals

Iron Worker™

- Aluminum oxide grain
- **Fast cutting**
- Excellent for use on angle iron, channel iron, heavy rebar, and other ferrous metals

METAL Structural metal applications

Saitech Steel Worker®

- Formulated with 3M™ ceramic abrasive grain
- Extremely fast, burr-free cutting

STAINLESS Stainless steel, high tensile alloys

METAL Ferrous metals (steel, iron, welds, etc.)

Non-Ferrous Metals (Aluminum)

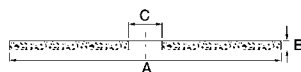
- Aluminum oxide grain
- Special **non-loading formulation**

METAL Non-ferrous metals (aluminum, bronze, brass, etc.)



Quick Tip

Use the Steel Worker® for fast cool cutting on stainless steel.



Size			Max RPM	Grades Available					Qty	Qty	Lbs
A	B	C		Part Numbers					Per	Per	Per
Dia.	Width	Bore		Z-Tech™	S.K.	I.W.	Saitech™	Alum.	Box	Ctn	Box
10	3/32	5/8	6,100	-	24035	-	-	-	25	50	20
12	3/32	1	5,100	24412	24030	24031	24033	-	10	50	11
14	3/32	1	4,400	24414	24050	24051	24053	24052	10	20	16
16	3/32	1	3,700	24416	24010	24011	24013	-	10	20	23



- Specially formulated for use on low horsepower chop saw machines for fast cutting with minimal pressure
- Five specialty formulas give you the exact wheel for your cutting application
- Z-tech is internally reinforced with the highest quality fiberglass to withstand the toughest applications

3M is a trademark of 3M Company

CUTTING

HIGH PERFORMANCE/SPECIALTY



TYPE 1 Portable Saw Cut-off Wheels



A24R - General Purpose/Durability

- Special aluminum oxide grain
- Provides consistent performance with long life

METAL Ferrous metals (steel, angle iron, rebar)

XFC™ - Extremely Fast Cutting

- Special aluminum oxide grain formula
- Fast cutting action
- Non-binding cutting formula

METAL Ferrous metals

STAINLESS Stainless steel, high tensile alloys



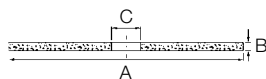
SAIT Pro - Metal

- Aluminum oxide grain
- Best value for a fast cut

METAL Ferrous metals

NEW!
12"
Diameter

All 14" and 16" portable wheels now formulated for high powered saws



Size			Max RPM	Grades Available Part Numbers			Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		A24R	SAIT Pro	XFC™			
12	1/8	1	6,300	23410	23414	-	10	50	13
12	1/8	20mm	6,300	23420	23421	-	10	50	14
14	1/8	1	5,400	23450	24135	24150	10	20	19
14	1/8	20mm	5,460	23455	24140	24160	10	20	24
16	1/8	1	4,800	23459	-	-	10	20	30
16	1/8	20mm	4,800	23470	-	-	10	20	30

14" (20mm)
with higher
RPM rating
for STIHL
saws



- Type 1 shape for square, burr-free cutting
- Externally reinforced with the highest quality fiberglass to withstand the toughest applications
- Available in many arbor sizes to fit a wide variety of tools

TYPE 1

Portable Saw Cut-off Wheels

Cutting



Portable Saw

Brute™

- Long life
- Extremely hard bond for **cutting metals that present a very sharp edge to the wheel**

METAL Thin metal, sheet metal, decking, other ferrous metals

HOBO®

- For use on high horsepower machines
- Rugged fiberglass reinforcement for maximum safety
- Excellent for **the railroad industry**

METAL Mainline, secondary, spur rail steel
Also for use on heavy sections of ferrous metals (I-beams, bar stock, etc.)

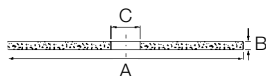


Ductile™

- Combination aluminum oxide and silicon carbide formulation

METAL Ductile pipe (very hard steel casing enclosing a cement lining), water mains, etc.

CONCRETE Combination metal/concrete, cast iron, hard metals, concrete coated steel, etc.



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
Brute™							
12	1/8	1	6,300	23412	10	50	15
12	1/8	20mm	6,300	23422	10	50	14
14	1/8	1	5,400	23452	10	20	22
14	1/8	20mm	5,460	23457	10	20	18
HOBO®							
14	1/8	1	5,400	23501	10	20	22
16	1/8	1	4,800	23502	10	20	30
Ductile™							
12	1/8	1	6,300	23415	10	50	15
12	1/8	20mm	6,300	23425	10	50	15
14	1/8	1	5,400	23453	10	20	22
14	1/8	20mm	5,460	23458	10	20	22
16	1/8	1	4,800	23480	10	20	30
16	1/8	20mm	4,800	23478	10	20	30



Quick Tip

Use this Ductile™ wheel for extra hard metals, hydraulic hose and PVC pipe.

All 14" and 16" portable wheels now formulated for high powered saws

14" (20mm) with higher RPM rating for STIHL saws



- Type 1 shape for square, burr-free cutting
- Externally reinforced with the highest quality fiberglass to withstand the toughest applications
- Available in many arbor sizes to fit a wide variety of tools

CUTTING

SPECIALTY

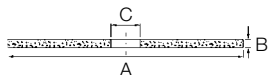


SAIT Pro - Concrete

- Silicon carbide grain
- Best value for a fast cut

NEW!

CONCRETE Stone, brick, soft aggregate, masonry, concrete



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		C24R			
12	1/8	1	6,300	23413	10	50	12
12	1/8	20mm	6,300	23423	10	50	12
14	1/8	1	5,400	23451	10	20	16
14	1/8	20mm	5,460	23456	10	20	15
16	1/8	1	4,800	23461	10	20	30
16	1/8	20mm	4,800	23466	10	20	30

BIG M.A.C.™

12	1/8	1	6,300	23460	10	50	14
12	1/8	20mm	6,300	23462	10	50	14
14	1/8	1	5,400	23463	10	20	18
14	1/8	20mm	5,460	23464	10	20	18

SAIT Pro

12	1/8	1	5,400	23418	10	20	12
12	1/8	20mm	5,460	23427	10	20	12
14	1/8	1	5,400	24122	10	20	16
14	1/8	20mm	5,460	24127	10	20	15



BIG M.A.C.™ - Very Long Life

- Special silicon carbide grain
- Superior cutting action
- 40% longer life than general purpose concrete wheels

CONCRETE Masonry, Asphalt, Concrete

C24R - Concrete

- Silicon carbide grain
- Long life

CONCRETE Stone, brick, soft aggregate, masonry, concrete, schedule 40 and schedule 80 PVC pipe

All 14" and 16" portable wheels now formulated for high powered saws

14" (20mm) with higher RPM rating for STIHL saws



- External fiberglass reinforcement withstands offhand lateral pressure for added safety and controlled performance
- Special silicon carbide grain formula provides excellent cutting action on masonry, concrete, stone and aggregate

TYPE 1 Street Saw Wheels

Cutting



NEW Premium Formula Outlasts Competition!

C16

- Silicon carbide grain
- **Fast, free cutting**

CONCRETE Green concrete, asphalt

Street Runner™

- Silicon carbide grain
- **Hot pressed wheel**
- Extremely dense wheel with coarse grain
- **Combines fast cutting with extra-long life**

CONCRETE Green concrete and asphalt

C24R

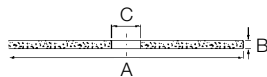
- Silicon carbide grain
- General purpose
- **Long life**

CONCRETE Masonry, concrete, brick

Street Walker™

- Silicon carbide grain
- **Hot pressed wheel**
- **Combines fast cutting with long life**

CONCRETE Concrete, green concrete, asphalt



Size			Max RPM	Grades Available				Qty Per Box	Qty Per Ctn	Lbs Per Box
A	B	C		Part Number						
Dia.	Width	Bore		C16	C24R	S.W.	S.R.			
14	1/8	1	4,400	24045	-	-	-	10	20	19
14	3/16	1	4,400	24061	24060	-	-	5	10	12
14	1/4	1	4,400	24066	24065	-	-	5	10	16
14	3/16	1	4,365	-	-	24120	24130	10	50	27
14	1/4	1	4,365	-	-	24121	24131	10	50	36
18	1/4	1	3,000	-	-	-	24145	5	25	35

All wheels have Pinhole



- All wheels have pinholes for mounting on various machines, street saws, etc.
- These wheels can be used with cooling sprays for dust-free cutting needs
- The Street Walker™ blade is an excellent economical alternative to cutting with diamond blades

CUTTING

CONCRETE



TYPE 1

Stationary Saw Cut-off Wheels

CUTTING

GENERAL PURPOSE



A24N - Fast Cutting

- Aluminum oxide grain
- General purpose
- Soft bond for **fast stock removal**

METAL Ferrous metals (iron, cast iron, etc.)

STAINLESS Low grade stainless steel

A24R - Long Life

- Aluminum oxide grain
- General purpose, **long life**

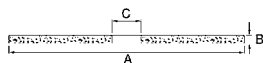
METAL Ferrous metals (iron, steel, angle iron, etc.)

A36R - Burr-Free

- Aluminum oxide grain
- A finer grit for **burr-free finish**

METAL Ferrous metals (metal tubing, etc.)

STAINLESS Stainless steel, high tensile steel



Size			Max RPM	Grades Available			Qty	Qty	Lbs
A	B	C		Part Numbers			Per	Per	Per
Dia.	Width	Bore		A24N	A24R	A36R	Box	Ctn	Box
10	1/8	5/8	6,100	24001	24000	24002	25	50	23
10	1/8	1	6,100	-	24004	-	25	50	23
12	1/8	1	5,100	-	24020	-	10	50	14
14	1/8	1	4,400	-	24040	24042	10	20	19
16	5/32	1	3,800	24071	24070	24072	10	20	29
18	3/16	1	3,400	24081	24080	24082	5	20	22
20	3/16	1	3,000	24091	24090	24092	5	20	27
24	1/4	1	3,150	24101	24100	24102	5	15	49



- Type 1 shape for square, burr-free cutting
- Maximum grain exposure to cut through large diameter solid stock
- Internal fiberglass reinforcement for maximum safety and controlled performance
- Dual external mounting area reinforcement on 14" - 24" wheels

TYPE 1

Stationary Saw Cut-off Wheels

Cutting



Stationary Saw

C24R - Concrete

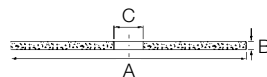
- Silicon carbide grain
- General purpose, **long life**
- Square cutting

CONCRETE Masonry, concrete, stone, brick



CUTTING

CONCRETE



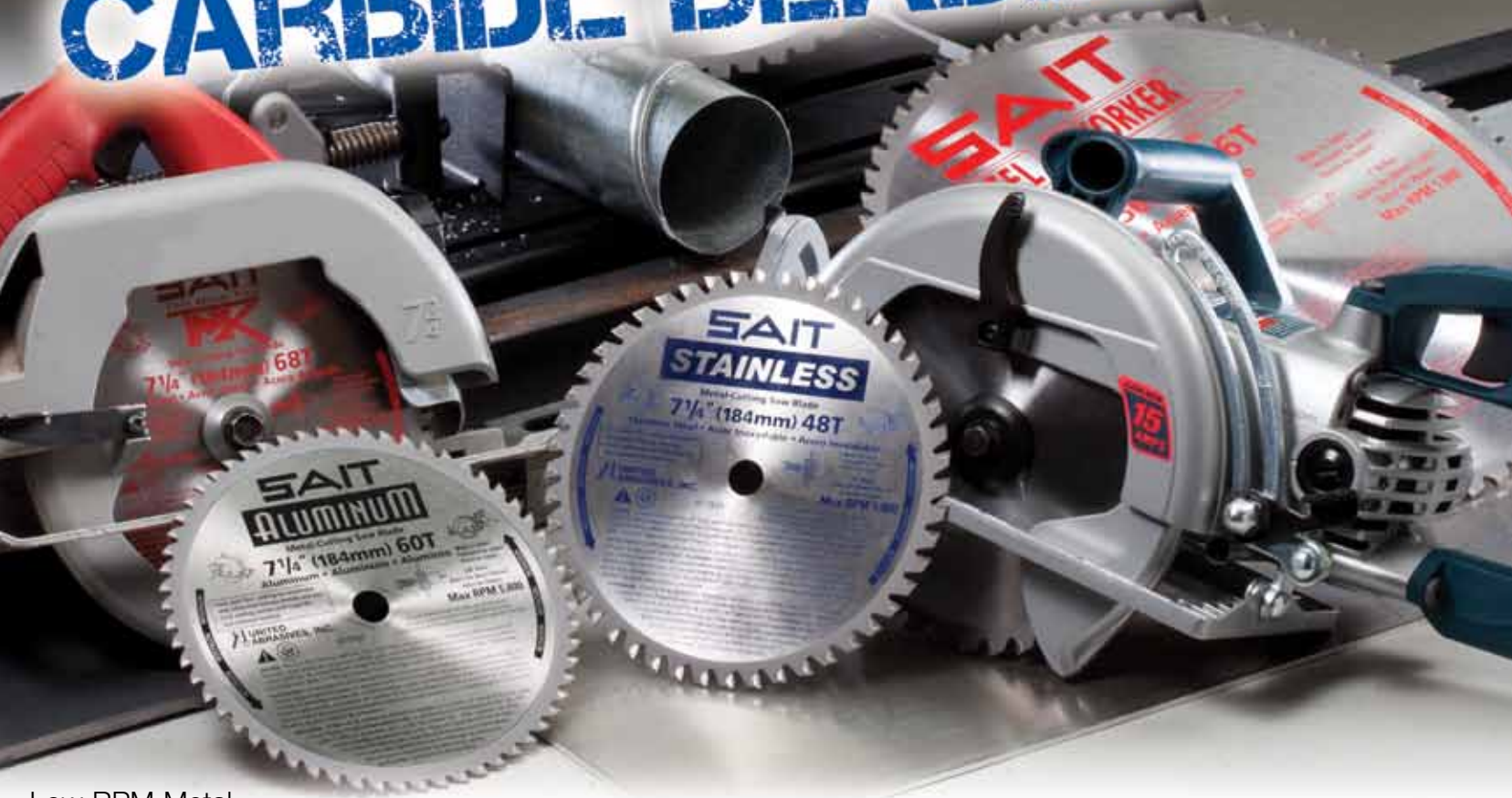
Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
10	1/8	5/8	6,100	24003	25	50	23
10	1/8	1	6,100	24007	25	50	23
12	1/8	1	5,100	24023	10	50	14
14*	1/8	1	4,400	24043	10	20	19
16*	5/32	1	3,800	24073	10	20	29
18	3/16	1	3,400	24083	5	20	22

* with Pinhole



- Special grain to fiberglass ratio provides added safety and excellent cutting performance on heavy-duty stationary saws
- Cutting wheels are balanced to provide straight, even cuts for alignment and aesthetics

NEW METAL-CUTTING CARBIDE BLADES



Low RPM Metal
Cutting Saw

Long Life

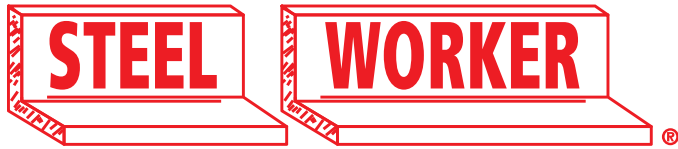
Cool Cutting

Fast, Burr-Free Cutting

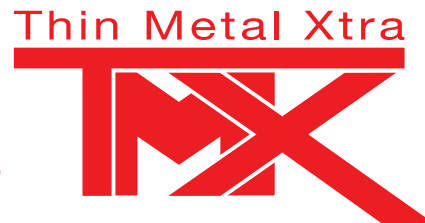
KEY FEATURES

- Designed for use on professional metal-cutting saws
- Premium micro grain carbide: Smaller grains mean more carbide per tooth – stays sharp and provides longer life over competitive blades
- Cuts cool and fast
- Reduced fire hazards and less dust: Metal blades cut cleanly with minimal sparks

Metal-Cutting Carbide Blades



*Cool cutting action
with long life*



Fast, burr free cutting on:

- Angle Iron
- Rebar
- Steel Plate
- Channel Iron
- Pipe
- Threaded Rod
- C-Channel
- And other ferrous metals

Fast, burr free cutting on:

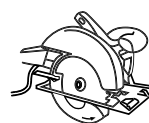
- Thin Metals
- Metal Studs
- Duct Work
- Sheet Metals
- Galvanized Roofing
- Thin Walled Pipe
- Conduit
- Strut Channel

STEEL WORKER®	Diameter	Teeth	Grind	Arbor	RPM	Machine
NEW! 77915	5-3/8 165mm	30	MTCG	20mm (10mm & 5/8" Bushing)	4,200	
77920	6-1/2 165mm	40	TCG	5/8 16mm	5,800	
77936	7 178mm	36	TCG	20mm	5,800	
77930	7-1/4 184mm	40	MTCG	5/8 16mm Diamond	5,800	
77940	8 203mm	42	MTCG	5/8 16mm Diamond	5,800	
77947	9 229mm	48	TCG	1 26mm	3,200	
77953	10 254mm	52	TCG	5/8 16mm	5,200	*
77962	12 305mm	60	TCG	1 26mm	2,000	*
77972	14 356mm	72	MTCG	1 26mm	1,800	*

*Low RPM Metal Cutting Saw

TMX	Diameter	Teeth	Grind	Arbor	RPM	Machine
77921	6-1/2 165mm	48	ATB	5/8 16mm	5,800	
77931	7-1/4 184mm	68	ATB	5/8 16mm Diamond	5,800	
77965	12 305mm	80	MTCG	1 26mm	2,000	*
77975	14 356mm	90	MTCG	1 26mm	1,800	*

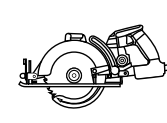
*Low RPM Metal Cutting Saw



Circular Saw



Metal-Cutting
Circular Saw



Worm Drive Saw



Low RPM
Metal-Cutting Saw

TYPICAL END USERS/INDUSTRIES

- **STEEL WORKER®:** Steel Fabricators, Electricians, Welding, Weld Shops, Plumbers, Power Generation, Metal Contractors, Manufacturing/Fabrication, Maintenance/Repair
- **TMX - Thin Metal Extra:** General Contractors, Plumbers, Roofing Contractors, Maintenance/Repair, Electricians, Power Generation Contractors, Heating and Air Conditioning

Metal-Cutting Carbide Blades

STAINLESS

Cool cutting action with long life and minimal distortion



Fast, burr free cutting on:

- Tubing, bars, pipe, and stainless steel plate

ALUMINUM

Cool cutting action with long life and minimal melting of aluminum



Fast, burr free cutting on:

- Aluminum, other non-ferrous metals and pipe

STAINLESS	Diameter	Teeth	Grind	Arbor	RPM	Machine
77938	7 178mm	48	TCG	20mm	5,800	
77933	7-1/4 184mm	48	TCG	5/8 16mm Diamond	5,800	
77977	14 356mm	90	MTCG	1 26mm	1,800	*

*Low RPM Metal Cutting Saw

NEW!

ALUMINUM	Diameter	Teeth	Grind	Arbor	RPM	Machine
77917	5-3/8 137mm	50	ATB	20mm (10mm & 5/8" Bushing)	4,200	
77922	6-1/2 165mm	60	ATB	5/8 16mm	5,800	
77937	7 178mm	54	ATB	20mm	5,800	
77932	7-1/4 184mm	60	ATB	5/8 16mm Diamond	5,800	
77942	8 203mm	60	TCG	5/8 16mm Diamond	5,800	
77955	10 254mm	80	TCG	5/8 16mm	5,200	*
77966	12 305mm	80	TCG	1 26mm	2,000	*
77976	14 356mm	80	ATB	1 26mm	1,800	*

*Low RPM Metal Cutting Saw

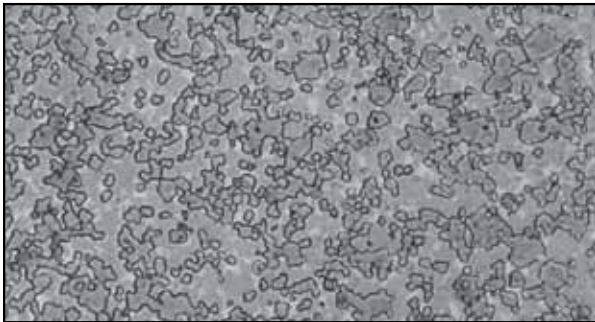
TYPICAL END USERS/INDUSTRIES

- Stainless: Stainless Steel Contractors / Fabricators, Water Treatment Contractors, Kitchen Equipment Manufacturing, Power Generation Contractors
- Aluminum: Aluminum Contractors, Aluminum Foundries, Aluminum Grating and Fencing Contractors

Metal-Cutting Carbide Blades

Technical Data

CARBIDE GRAIN STRUCTURE



SAIT Carbide Matrix

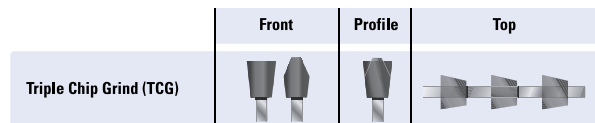
Consistent size of carbide grains.
More carbide per tooth as grains are smaller.
Smaller grain = harder tooth, more durability.



Competitor Carbide Matrix

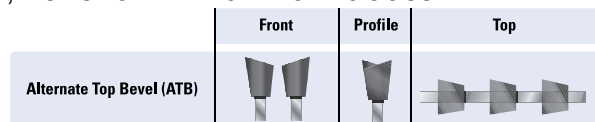
Very inconsistent size of carbide grains.
Less life due to larger grain sizes.

TOOTH CONFIGURATION



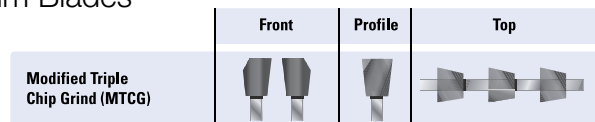
Triple Chip Grind (TCG):

- **FEATURE:** Maximizes blade life by reducing the size of the metal chips that are produced during the cutting operations. Also provides maximum tooth strength for longer life.
- **BENEFIT:** Cleaner and cooler cuts and less stress on material being cut.
- **WHERE USED:** Steelworker® (all sizes), 7-1/4" Stainless, 8", 10" and 12" Aluminum blades



Alternate Top Bevel (ATB)

- **FEATURE:** A multi-purpose grind that allows for durable, long life as well as productive work across a wide range of materials.
- **BENEFIT:** Clean, easy cutting without binding in the material.
- **WHERE USED:** 6-1/2" and 7-1/4" TMX, and 14" Aluminum Blades



Modified Triple Chip Grind (MTCG):

- **FEATURE:** Excels at reducing chip size for more effective cutting of material. Also improves cutting tooth durability.
- **BENEFIT:** Lower heat build-up and less blade stress while cutting.
- **WHERE USED:** 12" and 14" TMX and 14" Stainless Steel Blades

BLADE OPERATION TIPS

- Be sure to mount the blade with the rotational arrow positioned the same direction as the tool rotates
- Follow circular saw manufacturer's warnings and instruction manual
- Check blade prior to use for any visible cracks, loose or missing teeth, etc. and change blade if found
- Use blade only on recommended material
- Mount blade between designated sides of blade washers matching arbor size and shape
- Always wear ANSI-approved eye protection and proper protective equipment
- Always wear gloves
- Adjust foot-plate of the saw to proper depth (check circular saw manual - 3 teeth exposed below material surface is a common rule of thumb)
- Always work in a clean and unobstructed work environment
- Never operate saw without working blade guard
- Do not use excessive pressure when cutting (this causes the blade to wear prematurely)
- Tighten blade bolt as instructed by saw manufacturer



Available in a variety of sizes and styles for common cutting applications.

Continuous Rim (CR)

- Continuous uniform rim for smooth, dry and wet cutting of tiles and ceramic materials
- Longer lasting and faster cutting
- For use on small diameter electric saws

C Tile:

- Thin .060 for precise tile cutting

Tile & Ceramic

Size			Max RPM	Part No.	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		C Tile CR			
4-1/2	.060	7/8	13,300	48721	1	1	1
4-1/2	.060	5/8	13,300	48521	1	1	1

Serrated Rim (Turbo)

- Continuous rim with alternating serrations for fast, cool cutting
- Smooth cutting of almost any aggregate material
- For use on small diameter electric saws

CE/CC:

- CE is for general purpose cutting
- CC is a longer lasting and faster cutting premium wheel

CONCRETE Concrete, ceramic, granite, brick, blocks, marble

Size			Max RPM	Part Number		Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Turbo CE Prem	Turbo CC Prem +			
4-1/2	.090	7/8	13,300	48701	48711	1	1	1
4-1/2	.090	5/8	13,300	48501	48511	1	1	1
5	.090	7/8	12,200	48702	48712	1	1	1
5	.090	5/8	12,200	48502	48512	1	1	1
7	.090	7/8	8,500	48704	48714	1	1	1
7	.090	5/8	8,500	48504	48514	1	1	1



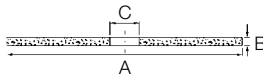
Segmented Rim (Laser)

- Segmented rim allows for a cool cutting
- Laser welded, segmented wheels

LU/LV:

- LU is for general purpose dry cutting
- LV is a longer lasting and faster dry cutting premium wheel
- **For use on small diameter electric saws**

CONCRETE Concrete, ceramic, granite, brick, blocks, marble

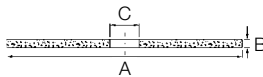


Size			Max RPM	Part Number		Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Laser LU Prem	Laser LV Prem +			
4-1/2	.090	7/8	13,300	48731	48741	1	1	1
4-1/2	.090	5/8	13,300	48531	48541	1	1	1
5	.090	7/8	12,200	48732	48742	1	1	1
5	.090	5/8	12,200	48532	48542	1	1	1
7	.090	7/8	8,500	48734	48744	1	1	1
7	.090	5/8	8,500	48534	48544	1	1	1

Premium/Premium+ 12 & 14 inch

- Premium is a general purpose dry and wet fast cutting blade
- Premium Plus is a longer lasting dry and wet faster cutting premium wheel
- **For use on high speed gasoline and electric hand held saws**

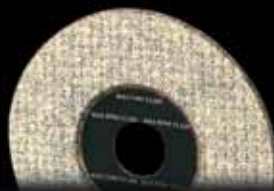
CONCRETE Concrete, ceramic, granite, brick, blocks, marble



Size			Max RPM	Part Number		Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Prem	Prem +			
12	.110	1	5,100	48767	48757	1	1	6
12	.110	20mm	5,100	48567	48557	1	1	6
14	.125	1	4,300	48768	48758	1	1	7
14	.125	20mm	4,300	48568	48558	1	1	6



- Premium quality diamond for exceptional cutting and long life
- Laser welded bonding to the metal core on segmented wheels for cutting wet or dry
- Specifications available in general purpose wheels and premium wheels



COTTON FIBER INTRODUCTION

Cotton Fiber Abrasives

- Laminates of non-woven abrasive cotton fiber impregnated with abrasive grain.
- Special process impregnates the abrasive grains and fibers providing superior bonding and consistency.
- Combine the free cutting qualities of resinoid and vitrified abrasives, and the finishing qualities of rubber bonded and non-woven abrasives.
- Unique construction continually exposes new grain resulting in cooler operation, non-loading, and a smoother finish.
- Resilient, smooth handling, and quiet, with reduced vibration.
- Cotton reinforced product line includes Type 27 grinding and blending wheels, SAITBLEND™ discs, and Sait-Lok-R™ cotton fiber discs, all for use on a wide range of applications.
- Varying bond hardnesses are suitable for both ferrous and non-ferrous materials, including stainless steel and aluminum.
- Cotton reinforced products are most commonly used in industries such as the welding trade, general fabrication, food and chemical processing, dairy, tool and die, automotive, aircraft, and aerospace.

RA (roughness average) Values on Cotton Fiber Products

Grinding/Blending Wheels

Specification	304 Stainless Steel	6061 Aluminum
A24UA-MTX	140 RA	N/A
A36UA-GFX	40 RA	130 RA
A54UA-GFX	30 RA	80 RA

SAITBLEND™ Discs

Specification	304 Stainless Steel	6061 Aluminum
A36F	38 RA	90 RA
A54F	30 RA	80 RA
A80F	25 RA	30 RA

Sait-Lok-R™

Specification	304 Stainless Steel	6061 Aluminum
A24M	70 RA	90 RA
A36F	40 RA	60 RA
A54F	30 RA	50 RA
A80F	20 RA	45 RA

COTTON FIBER

Blending



Die Grinder



Angle Grinder

A24 UA-MTX

- Aluminum oxide grain
- UA-MTX tough resin combined with coarse grit
- Excellent for light or medium weld removal**

METAL Grinding aluminum and other non-ferrous/ferrous materials

STAINLESS Stainless steel

A36 UA-GFX

- UA-GFX latex bond for weld blending
- Resilient for use on contours, non-loading

STAINLESS Stainless steel

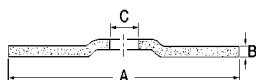
METAL Aluminum, ferrous and/or non-ferrous material

A54 UA-GFX

- UA-GFX latex bond for weld blending and finishing

STAINLESS Stainless steel

METAL Aluminum, non-ferrous materials



Size			Max RPM	Grades Available			Qty Per Box	Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers				
				A24	A36	A54		
4	1/4	5/8	13,500	29200	29201	29202	10	3
4-1/2	1/4	7/8	13,300	29206	29207	29208	10	3
7	1/4	7/8	8,500	29212	29213	29214	10	9

Cotton Fiber Mounted Points

- A54MTX - Resin Bond - light removal/blending
- A80GFX - Latex Bond - finer grit for ultimate finishing

STAINLESS Blending on stainless steel, high tensile alloys

METAL Aluminum, ferrous and/or non-ferrous materials

Type	Size		Shank Dia.	Part No.		"O" = 1/2" Max RPM	Qty Per Box
	Dia.	Length		A54MTX	A80GFX		
A5	3/4	1-1/8	1/4	50560	50360	45,000	10
B42	1/2	3/4	1/4	50561	50361	61,120	10
B52	3/8	3/4	1/4	50562	50362	81,000	10
B121	1/2	1/2	1/4	-	50363	76,390	10
B122	3/8	3/8	1/4	-	50364	81,370	10
W163	1/4	1/2	1/4	-	50365	33,750	10
W189	1/2	2	1/4	50566	50366	24,000	10
W220	1	1	1/4	-	50367	30,000	10
W222	1	2	1/4	-	50368	20,000	10

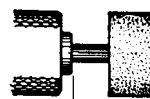


Quick Tip

These wheels work great on aluminum without clogging or loading.



Mandrel overhang "O" must always be the lowest possible. Maximum speeds given refer to overhang "O" equal to 1/2"



"O" = 1/2"



- Multiple layers of cotton impregnated with abrasive grain and special bonding agents allow for the coolest blending and finishing wheels
- Special cotton formula will never load on soft non-ferrous metals like aluminum
- Available in two bonding agents for use in many applications

COTTON FIBER

COTTON FIBER



A36F

- Aluminum oxide grain
- **Open pattern on wheel allows for cool blending and finishing without loading**
- A medium grit for finishes equal to an 80 grit coated disc
- Flexible for smooth blending and finishing

STAINLESS Stainless steel

METAL Aluminum and non-ferrous materials

A54F - A80F

- Aluminum oxide grain
- **A finer grit for finishes equal to a 100 grit coated disc**

STAINLESS Finishing stainless steel

METAL Finishing aluminum



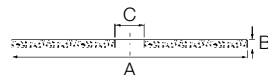
SAITBLEND™ discs combine the long life and durability of a bonded Type 27 wheel with the flexibility and finishing capabilities of a coated disc. There is no need to change discs to go from blending to final finishing. A single disc will quickly blend your weld and finish equivalent to an 80 grit resin fiber disc, and the SAITBLEND™ disc will outlast the fiber disc 20:1.

See page 142 for backing pad part number 95011 for 7" disc



Quick Tip

Use the 7" 54 to 80 grit for an extra fine finish on stainless steel.



Size		Max RPM	Grades Available			Qty	Lbs
A	C		Part Numbers			Per	Per
Dia.	Bore		A36F	A54F	A80F	Box	Box
4-1/2	7/8	13,300	29270	29271	29272	10	2
7	7/8	8,500	29277	29278	29279	10	5

- Waffle design pattern provides cool blending and finishing
- Unique cotton fiber laminate provides controlled blending and finishing
- Special non-loading formula can be used on any non-ferrous soft metal
- Outlasts fiber discs 20 to 1 for decreased downtime and material cost



Die Grinder



Portable Grinder

SAIT-LOK-R™ discs are made of multiple layers of cotton fiber abrasive impregnated material. These quick change discs produce a smooth finish in one step.

Finishing discs

A24M

- Aluminum oxide grain
- Coarse grit with medium flexibility for aggressive action

STAINLESS Blending on stainless steel, high tensile alloys

METAL Aluminum, ferrous and/or non-ferrous materials

A36F

- Medium grit with higher flexibility for smoother action

STAINLESS Blending on stainless steel, high tensile alloys

METAL Aluminum, ferrous and/or non-ferrous materials

A54F

- Fine grit with higher flexibility for finishing

STAINLESS Blending on stainless steel, high tensile alloys

METAL Aluminum, ferrous and/or non-ferrous materials

A80F

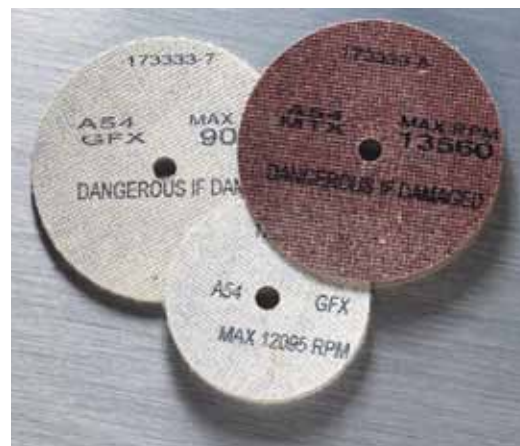
- Finer grit for ultimate finishing

STAINLESS Blending on stainless steel, high tensile alloys

METAL Aluminum, ferrous and/or non-ferrous materials

Nylon screw threaded hub for easy mounting to the backing pad

See page 145 for backing pad



Deburring wheels

A54GFX/A54MTX

- Fine grit with higher flexibility for finishing

STAINLESS Deburring of stainless steel, high tensile alloys

METAL Aluminum, ferrous and/or non-ferrous materials

Size	Max	Part Numbers				Qty	Lbs
Dia.	RPM	A24M	A36F	A54F	A80F	Per Box	Per Box
2	30,000	50300	50301	50302	50303	25	1
3	20,000	50308	50309	50310	50311	25	2

Size			Max RPM	Grades Available		Qty Per Box	Lbs Per Box
A Dia.	B Width	C Bore		A54GFX	A54MTX		
3	1/16	3/8	18,000	-	29310	10	1
3	1/8	3/8	12,000	29312	-	10	1
4	1/16	3/8	13,500	-	29320	10	1
4	1/8	3/8	9,075	29322	-	10	1



- Multi-layer disc configuration provides longer life than coated abrasive discs
- Cotton fiber abrasive material will not smear on titanium and stainless steel
- Outlasts coated discs 10 to 1 for less downtime and increased productivity



Hand Rub

HAND/FLOOR RUBS

The vitrified bonding technique uses a high temperature process whereby abrasive materials are heated to a point where the grains fuse to each other, forming the bond posts. Vitrified products, although somewhat brittle, are not affected by water, oil, most acids, or temperature changes. Used primarily for precision and fixed-feed applications, they are particularly well suited for bench grinders and offhand tool room applications.



Hand and Floor Rubs

- Removes form marks

CONCRETE Concrete

- Configurations available:

Plain - For cleaning castings and dressing bench grinding wheels

Fluted - For extra shearing action

Handle - For extra comfort and working overhead

Scored - Breaks into two 4 x 2 x 2 floor rubs

Packaging

Each box of HR202 and FR521 contains 6 wood wedges

Additional wood wedges, see page 146

Type	Size			Description	Grade	Part Number	Qty Per Box	Lbs Per Box
	Length	Width	Height					
HR202	4	2	2	Plain	C24R	25010	6	7
HR241	6	2	2	Fluted	C24R	25020	5	10
HR242	8	2	2	Fluted	C24R	25030	5	12
HR252	6	3	1	Handle	C24R	25040	5	10
HR250	8	3-1/2	1-1/2	Handle	C24R	25050	5	19
FR521	8	2	2	Scored	C10R	25060	3	14
FR521	8	2	2	Scored	C24R	25061	3	14
FR521	8	2	2	Scored	C80R	25062	3	14

Tech
INFO

- Vitrified bond for long life
- Available in several configurations for a wide range of cleaning and dressing applications

BENCH WHEELS



Bench Grinder

A

- Aluminum oxide grain
- General purpose
- For sharpening tools and light stock removal

METAL

Ferrous metals
(carbon steel, steel, iron, forgings, etc.)

GC

- Green silicon carbide grain
- Extremely sharp grain for faster, burr-free cutting
- Use on carbide tipped tools, cast iron

METAL

Ferrous and/or non-ferrous metals



Reduction bushings enclosed with each wheel

Wheel Size	Bushings
6"	3/4, 5/8, 1/2
7"	3/4, 5/8, 1/2
8"	3/4, 5/8
10"	1, 3/4
12"	1-1/4, 1
14"	1-1/4, 1

Aluminum Oxide

Size			Max RPM	Grades Available					Lbs Per Box
A	B	C		Part Numbers					
Dia.	Width	Bore		A24	A36	A46	A60	A80	
6	1/2	1	4,138	-	28003	-	28004	28005	1-1/2
6	3/4	1	4,138	-	28000	-	28001	28002	2
6	1	1	4,138	-	28006	-	28007	28008	2-1/2
7	3/4	1	3,600	-	28010	-	28011	28012	2-1/2
7	1	1	3,600	-	28013	-	28014	28015	3-1/2
8	3/4	1	3,600	-	28020	-	28021	28022	3-1/2
8	1	1	3,600	-	28023	-	28024	28025	4-1/2
10	1	1-1/4	2,483	-	28040	28043	28041	28042	7
10	1-1/2	1-1/4	2,483	-	28050	28053	28051	28052	10
12	2	1-1/2	2,069	28060	28063	28061	28062	-	19-1/2
14	2	1-1/2	1,773	28070	28073	28071	28072	-	28

Green Silicon Carbide

Size			Max RPM	Grades Available			Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers			
				GC60	GC80	GC120	
6	3/4	1	4,138	28100	28101	28102	1-1/2
6	1	1	4,138	28103	28104	28105	2
7	1	1	3,600	28113	28114	28115	2-1/2
8	1	1	3,600	28123	28124	28125	3-1/2
10	1	1-1/4	2,483	28140	28141	28142	6-1/2
10	1-1/2	1-1/4	2,483	28150	28151	28152	10
12	2	1-1/2	2,069	28160	28161	28162	19-1/2
14	2	1-1/2	1,773	28170	28171	28172	28

Tech
INFO

- Vitrified bond for long life
- Available in two formulations for a wide range of applications
- Individually packaged for safety and convenience

VITRIFIED

VITRIFIED

Coated and Non-Woven Abrasives



Fiber Discs



Introduction	Pg 71
Fiber Discs	72-76

Flap Discs



Introduction	Pg 88
Encore	89
Ovation®	90-91
Saitlam™	92-94

Belts



Introduction	Pg 64-65
Belt Specifications	66-69
Custom Belts	70

Laminated Discs



SAIT-LOK™	Pg 77-79
SAIT-LOK-R™	

Paper Discs



Introduction	Pg 80
PSA Disc Rolls	81
PSA Disc Individual	82-83
Hook & Loop	84-85

Cloth Discs



Introduction	Pg 80
Zirconium	86
Aluminum Oxide	87

SAIT-PAK™



SAIT-PAK™	Pg 140
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Flap Wheels



Small Diameter	Pg 95
Large Diameter	96

Sheets



Introduction	Pg 97
Cloth	98
Paper	98-99
Fileboard	100-101
Saitscreen™/Drywall	102
Sanding Sponges	103

Shop Rolls



Industrial/Handy	Pg 104
Mini/Custom	105
Saitscreen™/Plumber	106

Specialties



Spiral Bands	Pg 107
Cartridge Rolls	108-109
Cross Pads	110
Square Pads	110

Floor Sanding



Sheets/Belts	Pg 111
Discs	112
Rolls	113
Pads	114-115

Accessory Items



Introduction	Pg 141
Accessories	142-148

Non-Woven



Introduction	Pg 116
Hand Pads	117
Belts	118
Discs	119-120
SAIT-Strip™ Products	121
Flap Brushes	122
Interleaf Wheels	123
Unitized Wheels/Type 27	124-125
Convolute Wheels	126
Sand-Light™ Blending Discs	127
Buffing Pads/Compounds	128



BELTS INTRODUCTION

- Belt offering encompasses a variety of abrasive types, lengths and widths, and grits, to cover a multitude of belt sanding needs.
- Belts are made with the highest quality industrial materials and a strong bi-directional tape splice.
- The selection of grain types and backing material is engineered to each application.
- Available in the Quick Ship™ or Blue Line™ programs, as well as Made-To-Order.



Quick Ship™ Belts

- These belts are the most popular in terms of the industrial user.
- Each package of belts is shrink-wrapped in quantities of 10.

Materials Available

Z-H (zirconium)
1A-X/2A-X (closed coat aluminum oxide)
AO-X (open coat aluminum oxide)
C-W (silicon carbide wet/dry belts)

Available Grits

24-80
24-320
24-180
60-220

See pages 66-69 for further information



Blue Line™ Belts

- These belts are the most popular sizes and packaged for retail.
- Supplied in either 5 or 10 belts per box, depending on grit.
- Specially designed boxes lend themselves to being displayed - either on pegboard hooks or shelving.

Materials Available

Z-H (zirconium)
1A-X/2A-X (closed coat, aluminum oxide)
AO-X (open coat aluminum oxide)
C-W (silicon carbide wet/dry belts)

Available Grits

24-80
24-320
24-180
60-220

See pages 67-68 for further information



SAIT-Saver™ Belts

- Economy alternative for portable belts.
- Available in aluminum oxide, closed coat material.
- Each package is shrink-wrapped in quantities of 10.

Materials Available

LA-X (closed coat, aluminum oxide)

Available Grits

40-120

See pages 66-69 for further information

Custom (Made-To-Order) Belt Program

- Broad product offering (economy Aluminum Oxide and Silicon Carbide to premium Zirconia Alumina).
- Custom made to your exact width (up to 18"), length, material, and grit.

See page 70 for further information

BELTS INTRODUCTION



- Stock belt program provides the most popular industrial and commercial belt sizes in an easy to order program.
- The following materials are available through this program.



Zirconia Alumina Cloth

Z-H

24-80 Grit Range
Closed Coat

- Zirconia alumina abrasive material.
- H-weight, waterproof polyester backing for heavy duty grinding and finishing.
- For use on ferrous and non-ferrous metals, cast iron, aluminum, and stainless steel.



Aluminum Oxide Cloth

1A-X/2A-X

24-400 Grit Range
Closed Coat

- Semi-friable (1A-X)/heat-treated (2A-X) aluminum oxide grain.
- X-weight cotton backing.
- For general purpose grinding and finishing.
- For use on alloyed steels, ferrous and non-ferrous metals, cast iron and wood.

AO-X

24-180 Grit Range
Open Coat

- Semi-friable aluminum oxide grain.
- X-weight cotton backing.
- For general purpose, open coat grinding, polishing and finishing of materials that have the tendency to load.
- For use on non-ferrous metals, aluminum and wood.

LA-X - SAIT-Saver™

40-120 Grit Range
Closed Coat

- Semi-friable aluminum oxide grain.
- X-weight cotton backing.
- For low cost grinding and finishing of alloyed steels, ferrous and non-ferrous metals, cast iron and wood.
- Used exclusively in SAIT-Saver™.



Silicon Carbide Cloth

C-W

60-220 Grit Range
Closed Coat

- Silicon carbide grain.
- Waterproof X-weight cotton backing.
- For grinding and finishing hard cast iron, aluminum, glass, ceramics, non-ferrous metals, plastics, rubber, marble and stone.

COATED
ABRASIVES

BELTS



Portable Sander



File Sander



Backstand Sander



Benchstand Sander

BELTS

		Closed Coat Aluminum Oxide	Closed Coat Zirconium
Size	Grit	1AX/2AX Quick Ship™ Part No.	ZH Quick Ship™ Part No.
1/4 x 18	36	60016	64016
	40	60017	64017
	50	60018	64018
	60	60019	64019
	80	60020	64020
	100	60021	
	120	60022	
1/4 x 24	36	60030	64030
	40	60031	64031
	50	60032	64032
	60	60033	64033
	80	60034	64034
	100	60035	
3/8 x 13	120	60036	
	36	61121	
	40	61122	
	50	61123	
	60	61124	
	80	61125	
	100	61126	
1/2 x 12	120	61127	
	36	60044	
	40	60045	
	50	60046	
	60	60047	
	80	60048	
	100	60049	
1/2 x 18	120	60050	
	36	60058	64058
	40	60059	64059
	50	60060	64060
	60	60061	64061
	80	60062	64062
	100	60063	
1/2 x 24	120	60064	
	36	60086	64086
	40	60087	64087
	50	60088	64088
	60	60089	64089
	80	60090	64090
	100	60091	
3/4 x 18	120	60092	
	36	60114	64114
	40	60115	64115
	50	60116	64116
	60	60117	64117
	80	60118	64118
	100	60119	
3/4 x 20-1/2	120	60120	
	36	60128	64128
	40	60129	64129
	50	60130	64130
	60	60131	64131
	80	60132	64132
	100	60133	
1 x 12	120	60134	
	36	60141	
	40	60142	
	50	60143	
	60	60144	
	80	60145	
	100	60146	
1 x 21	120	60147	
	36	60254	
	40	60255	
	50	60256	
	60	60257	
	80	60258	
	100	60259	
	120	60260	

		Closed Coat Aluminum Oxide	Closed Coat Aluminum Oxide	Open Coat Aluminum Oxide	Closed Coat Zirconium	Closed Coat Silicon Carbide
Size	Grit	1AX/2AX Quick Ship™ Part No.	LA-X SAIT-Saver™ Part No.	AO-X Quick Ship™ Part No.	Z-H Quick Ship™ Part No.	C-W Quick Ship™ Part No.
1 x 30	24			63200		
	36	61094		63201		
	40	61095		63202		
	50	61096		63203		
	60	61097		63204		
	80	61098		63205		
	100	61099		63206		
	120	61100		63207		
	150			63208		
	180			63209		
	24			63210		
	36	60310		63211	58152	
1 x 42	40	60311	60623	63212	58153	
	50	60312	60624	63213	58154	
	60	60313	60625	63214	58155	58000
	80	60314	60626	63215	58156	58001
	100	60315	60627	63216		58002
	120	60316	60628	63217		58003
	150	60317		63218		58004
	180	60318		63219		58005
	220	60319				58006
	240	60320				
	320	60322				
	36	61133				
1-1/2 x 60	40	61134				
	50	61135				
	60	61136				
	80	61137				
	100	61138				
	120	61139				
	24			63220		
2 x 48	36	60506		63221		
	40	60507		63222		
	50	60508		63223		
	60	60509		63224		
	80	60510		63225		
	100	60511		63226		
	120	60512		63227		
	150			63228		
2 x 60	180			63229		
	36	60520			64520	
	40	60521			64521	
	50	60522			64522	
	60	60523			64523	
	80	60524			64524	
	100	60525				
	120	60526				
2 x 72	36	60534			64534	
	40	60535			64535	
	50	60536			64536	
	60	60537			64537	
	80	60538			64538	
	100	60539				
	120	60540				
2 x 132	36	60576				
	40	60577				
	50	60578				
	60	60579				
	80	60580				
	100	60581				
	120	60582				
2-1/2 x 14	36			63280		
	40		63381	63281		
	50		63382	63282		
	60		63383	63283		
	80		63384	63284		
	100		63385			
	120		63386	63286		

COATED
ABRASIVES**BELTS**



Benchstand Sander



Portable Sander

		Closed Coat Aluminum Oxide	Closed Coat Aluminum Oxide	Closed Coat Aluminum Oxide	Open Coat Aluminum Oxide	Open Coat Aluminum Oxide	Closed Coat Zirconium	Closed Coat Zirconium	Closed Coat Silicon Carbide
Size	Grit	1AX/2AX Blue Line™ Part No.	1AX/2AX Quick Ship™ Part No.	LA-X SAIT-Saver™ Part No.	AO-X Blue Line™ Part No.	AO-X Quick Ship™ Part No.	Z-H Blue Line™ Part No.	Z-H Quick Ship™ Part No.	C-W Blue Line™ Part No.
2-1/2 x 60	36		61108					65108	
	40		61109					65109	
	50		61110					65110	
	60		61111					65111	
	80		61112					65112	
	100		61113						
	120		61114						
3 x 18	24	57100				63230			
	36	57101				63231			
	40	57102				63232			
	50	57103				63233			
	60	57104				63234			
	80	57105				63235			
	100	57106				63236			
	120	57107				63237			
	150	57108				63238			
	180	57109				63239			
	220	57110							
	240	57111							
	320	57113							
3 x 21	24	57200			58160		58111		
	36	57201	60604		58161		58112		
	40	57202	60605	55342	58162		58113		
	50	57203	60606	55343	58163		58114		
	60	57204	60607	55344	58164		58115		58200
	80	57205	60608	55345	58165		58116		58201
	100	57206	60609	55346	58166				58202
	120	57207	60610	55347	58167				58203
	150	57208			58168				58204
	180	57209			58169				58205
	220	57210							58206
	240	57211							
	320	57213							
3 x 24	24	57500			58170		58121		
	36	57501	60646		58171		58122		
	40	57502	60647	55352	58172		58123		
	50	57503	60648	55353	58173		58124		
	60	57504	60649	55354	58174		58125		58500
	80	57505	60650	55355	58175		58126		58501
	100	57506	60651	55356	58176				58502
	120	57507	60652	55357	58177				58503
	150	57508			58178				58504
	180	57509			58179				58505
	220	57510							58506
	240	57511							
	320	57513							

1A-X/2A-X: Aluminum oxide, closed coat, X weight cotton. For general purpose sanding, grinding and finishing of ferrous and non-ferrous metals, wood, cast iron, ordinary and alloyed steels and stainless steel.

AO-X: Aluminum oxide, open coat, X weight cotton. For general purpose sanding and grinding where an open coat structure is needed. Best choice for soft woods, non-ferrous metals, aluminum, leather, rubber and other materials that have the tendency to load.

LA-X (SAIT-Saver™): Economy Aluminum oxide, closed coat, X-weight cotton. For low cost sanding and finishing of ordinary and alloyed steels, ferrous and non-ferrous metals, cast iron, and wood. A good choice where price and best value is the determining factor.

Z-H: Zirconium, closed coat, H weight waterproof polyester. Designed for aggressive grinding of ferrous and non-ferrous metals, cast iron, stainless steel, and aluminum. Backing can be used wet or dry.

C-W: Silicon Carbide, closed coat, X weight waterproof cotton. For grinding and finishing glass, aluminum, marble, hard cast iron, ceramics, non-ferrous metals, plastics, rubber and stone. Backing can be used wet or dry.



Benchstand Sander



Portable Sander

BELTS

Size	Grit	Closed Coat Aluminum Oxide	Closed Coat Aluminum Oxide	Closed Coat Aluminum Oxide	Open Coat Aluminum Oxide	Open Coat Aluminum Oxide	Closed Coat Zirconium	Closed Coat Zirconium	Closed Coat Silicon Carbide
		1AX/2AX Blue Line™ Part No.	1AX/2AX Quick Ship™ Part No.	LA-X SAIT-Saver™ Part No.	AO-X Blue Line™ Part No.	AO-X Quick Ship™ Part No.	Z-H Blue Line™ Part No.	Z-H Quick Ship™ Part No.	C-W Blue Line™ Part No.
3 x 60	36		60202						
	40		60203						
	50		60204						
	60		60205						
	80		60206						
	100		60207						
	120		60208						
3 x 132	36		60772					64772	
	40		60773					64773	
	50		60774					64774	
	60		60775					64775	
	80		60776					64776	
	100		60777						
	120		60778						
3-1/2 x 15-1/2	36		61145						
	40		61146						
	50		61147						
	60		61148						
	80		61149						
	100		61150						
	120		61151						
4 x 21	24	57600			58180				
	36	57601			58181				
	40	57602			58182				
	50	57603			58183				
	60	57604			58184				
	80	57605			58185				
	100	57606			58186				
	120	57607			58187				
	150	57608			58188				
	180	57609			58189				
	220	57610							
	240	57611							
	320	57613							
4 x 24	24	57900			58190		58131		
	36	57901	60842		58191		58132		
	40	57902	60843	55362	58192		58133		
	50	57903	60844	55363	58193		58134		
	60	57904	60845	55364	58194		58135		58850
	80	57905	60846	55365	58195		58136		58851
	100	57906	60847	55366	58196				58852
	120	57907	60848	55367	58197				58853
	150	57908			58198				58854
	180	57909			58199				58855
	220	57910							58856
	240	57911							
	320	57913							
4 x 36	24		60855			63240			
	36		60856			63241			
	40		60857	60663		63242			
	50		60858	60664		63243			
	60		60859	60665		63244			
	80		60860	60666		63245			
	100		60861	60667		63246			
	120		60862	60668		63247			
	150		60863			63248			
	180		60864			63249			
	220		60865						
	240		60866						
	320		60868						
4 x 48	36		60869						
	40		60870						
	50		60871						
	60		60872						
	80		60873						
	100		60874						
	120		60875						
4 x 54	36		60884						
	40		60885						
	50		60886						
	60		60887						
	80		60888						
	100		60889						
	120		60890						



Backstand Sander



Benchstand Sander

Size	Grit	Closed Coat Aluminum Oxide	Closed Coat Aluminum Oxide	Open Coat Aluminum Oxide	Closed Coat Zirconium	Closed Coat Silicon Carbide
		1AX/2AX Quick Ship™ Part No.	LA-X SAIT-Saver™ Part No.	AO-X Quick Ship™ Part No.	Z-H Quick Ship™ Part No.	C-W Quick Ship™ Part No.
4 x 60	36	60222				
	40	60223				
	50	60224				
	60	60225				
	80	60226				
	100	60227				
	120	60228				
4 x 64	60					64200
	80					64201
	100					64202
	120					64203
4 x 106	60					64210
	80					64211
	100					64212
	120					64213
4 x 132	36	60982			64982	
	40	60983			64983	
	50	60984			64984	
	60	60985			64985	64220
	80	60986			64986	64221
	100	60987				64222
	120	60988				
6 x 48	24	61023		63250		
	36	61024		63251	58142	
	40	61025	60683	63252	58143	
	50	61026	60684	63253	58144	
	60	61027	60685	63254	58145	58900
	80	61028	60686	63255	58146	58901
	100	61029	60687	63256		58902
	120	61030	60688	63257		58903
	150	61031		63258		58904
	180	61032		63259		58905
	220	61033				58906
	240	61034				
	320	61036				
6 x 132	36	61051				
	40	61052				
	60	61054				
	80	61055				
	100	61056				
	120	61057				

1A-X/2A-X: Aluminum oxide, closed coat, X weight cotton. For general purpose sanding, grinding and finishing of ferrous and non-ferrous metals, wood, cast iron, ordinary and alloyed steels and stainless steel.

AO-X: Aluminum oxide, open coat, X weight cotton. For general purpose sanding and grinding where an open coat structure is needed. Best choice for soft woods, non-ferrous metals, aluminum, leather, rubber and other materials that have the tendency to load.

LA-X (SAIT-Saver™): Economy Aluminum oxide, closed coat, X-weight cotton. For low cost sanding and finishing of ordinary and alloyed steels, ferrous and non-ferrous metals, cast iron, and wood. A good choice where price and best value is the determining factor.

Z-H: Zirconium, closed coat, H weight waterproof polyester. Designed for aggressive grinding of ferrous and non-ferrous metals, cast iron, stainless steel, and aluminum. Backing can be used wet or dry.

C-W: Silicon Carbide, closed coat, X weight waterproof cotton. For grinding and finishing glass, aluminum, marble, hard cast iron, ceramics, non-ferrous metals, plastics, rubber and stone. Backing can be used wet or dry.

For other sizes, grits and materials, see page 70 for our extensive custom belt program

CUSTOM BELTS (MADE-TO-ORDER)

- Broad product offering (economy Aluminum Oxide and Silicon Carbide to premium Zirconia Alumina).
- Custom made to your exact width (up to 18"), length, material, and grit.
- **For example: 6" width x 108" length AZ-X 60 Grit**
- Lead time: 7–10 working days.
- Allow for a quantity variance of plus or minus 10%.
- Custom belts are non-returnable.
- For additional information see price book.



SPECIFICATION MATERIAL & APPLICATION INFORMATION

ALUMINUM OXIDE CLOTH

1A-X/2A-X 24-400 Grit Range Closed Coat	<ul style="list-style-type: none"> • Semi-friable (1A-X)/heat-treated (2A-X) aluminum oxide grain on a X-weight cotton backing. • For general purpose grinding and finishing of ordinary and alloyed steels, ferrous and non-ferrous metals, cast iron and wood.
AO-X 24-180 Grit Range Open Coat	<ul style="list-style-type: none"> • Semi-friable aluminum oxide grain on a X-weight cotton backing. • For general purpose, open coat grinding, polishing and finishing of materials that have the tendency to load. • For use on non-ferrous metals, aluminum and wood.
3A-X 36-180 Grit Range Closed Coat	<ul style="list-style-type: none"> • Semi-friable aluminum oxide grain with <u>grinding aids</u> on a X-weight cotton backing. • Best for grinding and finishing heat sensitive materials (stainless steel, titanium, etc.) and non-ferrous metals.
2A-H 24-120 Grit Range Closed Coat	<ul style="list-style-type: none"> • Heat-treated, aluminum oxide grain on a H-weight, waterproof polyester backing. • Excellent for heavy duty grinding and finishing ferrous and non-ferrous metals, cast iron, and aluminum. Excellent foundry belt material.

SILICON CARBIDE CLOTH

C-W 60-400 Grit Range Closed Coat	<ul style="list-style-type: none"> • Waterproof, X-weight cotton backing. • For grinding and finishing hard cast iron, aluminum, glass, ceramics, non-ferrous metals, plastics, rubber, marble and stone.
--	---

ZIRCONIA ALUMINA CLOTH

Z-H (Premium) 24-120 Grit Range Closed Coat	<ul style="list-style-type: none"> • H-weight, waterproof polyester backing. • For heavy duty grinding and finishing on ferrous and non-ferrous metals, cast iron, aluminum, and stainless steel.
3Z-H (Premium) 36-80 Grit Range Closed Coat	<ul style="list-style-type: none"> • H-weight, waterproof polyester backing with <u>grinding aid</u>. • Excellent for grinding and finishing heat sensitive materials (stainless steel, titanium, etc.) and non-ferrous metals.
AZ-X 36-120 Grit Range Closed Coat	<ul style="list-style-type: none"> • X-weight, water-resistant polyester/cotton blended backing. • For general purpose grinding and finishing on ferrous and non-ferrous metals, cast iron, aluminum, stainless steel and wood materials.

FIBER DISCS INTRODUCTION



- Most comprehensive fiber discs product offering in the industry (8 types).
- Made with the highest quality materials using a premium resin over resin construction.
- Most renowned fiber discs in the world.

MATERIAL APPLICATION TECHNICAL INFORMATION

Aluminum Oxide Fiber Discs - Page 72



2A 16-120 Grit Range	<ul style="list-style-type: none"> • Closed coat for general purpose grinding and finishing.
3A 36-120 Grit Range	<ul style="list-style-type: none"> • Closed coat with grinding aids to reduce heat and loading. • Best for grinding and finishing heat sensitive materials and non-ferrous metals.

Zirconium Fiber Discs - Page 73



Z 24-80 Grit Range	<ul style="list-style-type: none"> • Closed coat for aggressive grinding and finishing.
3Z 24-80 Grit Range	<ul style="list-style-type: none"> • Closed coat with grinding aids to reduce heat and decrease loading. • For aggressive grinding and finishing of heat sensitive materials and non-ferrous metals.

Ceramic Fiber Discs - Page 74-75



8S 24-80 Grit Range	<ul style="list-style-type: none"> • High performance ceramic grain, closed coat. • Very uniform, high density, grain structure is extremely durable and self-sharpening for long life and cooler cut.
9S 24-80 Grit Range	<ul style="list-style-type: none"> • High performance ceramic grain, closed coat with grinding aids for reduced heat and decreased loading. • Excels in heat sensitive materials and non-ferrous metals.

Specialty Fiber Discs - Page 76



AO Aluminum Oxide 16-36 Grit Range	<ul style="list-style-type: none"> • Open coat for fast stock removal and reduced loading.
C Silicon Carbide 16-400 Grit Range	<ul style="list-style-type: none"> • Closed coat for performance grinding and finishing of glass, marble, ceramic, hard cast iron and ferrous/non-ferrous materials.

Innovative Bulk Packaging (see picture on page 73)

Our unique bulk spindle packaging assures that each disc remains perfectly flat. The unique design offers the convenience of easy access and can be retightened to assure that your discs are flat when you need them.

SAIT-LOK™ Quick Change 5/8-11 Hub

The SAIT-LOK™ hub recesses into the center cavity of the backing pad to provide a flat profile, thus increasing usable abrasive surface area up to 100% to get the job done faster and cooler.

- Eliminates the need for wrenches and spanner nuts.
- Threaded backing pad must be used with SAIT-LOK™ hub. Available in Blue Line™ packaging only.



2A

- Aluminum oxide grain
- **General purpose**
- Closed coat structure for more material removal and better finishing

METAL Ferrous and/or non-ferrous metals

WOOD Wood

3A

- Premium aluminum oxide grain with grinding aid
- **Special aluminum oxide grain to reduce heat build up and reduce loading**
- Closed coat structure for more material removal and better finishing

STAINLESS Stainless steel, high tensile steel, titanium, aluminum

METAL Ferrous metals

Size	Grit	Bulk (100 pcs.)		Blue Line™			SAIT-LOK™		
		Part No.		Part No.		Pk Per Box	Part No.		Pk Per Box
		2A	3A	2A	3A		2A	3A	
4 x 5/8	24	56024	-	50000	-	20	Not Available		
	36	56036	-	50001	-	20			
	50	56050	-	50002	-	25			
	60	56060	-	50003	-	25			
	80	56080	-	50004	-	25			
	100	56100	-	50005	-	25			
	120	56120	-	50006	-	25			
4-1/2 x 7/8	16	51022	-	50008	-	20	-	-	-
	24	51024	-	50010	-	20	50120	-	15
	36	51036	52890	50011	50060	20	50121	50148	15
	50	51050	52891	50012	50061	25	50122	50149	15
	60	51060	52892	50013	50062	25	50123	50150	15
	80	51080	52893	50014	50063	25	50124	50151	15
	100	51100	52894	50015	50064	25	50125	50152	15
5 x 7/8	120	51120	52895	50016	50065	25	50126	50153	15
	16	53016	-	50018	-	20	-	-	-
	24	53024	-	50020	-	20	50127	-	15
	36	53036	52810	50021	50040	20	50128	50154	15
	50	53050	52811	50022	50041	25	50129	50155	15
	60	53060	52812	50023	50042	25	50130	50156	15
	80	53080	52813	50024	50043	25	50131	50157	15
7 x 7/8	100	53100	52814	50025	50044	25	50132	50158	15
	120	53120	52815	50026	50045	25	50133	50159	15
	16	57016	-	50030	-	20	-	-	-
	24	57024	-	50031	-	20	50134	-	15
	36	57036	52836	50032	50070	20	50135	50160	15
	50	57050	52850	50033	50071	25	50136	50161	15
	60	57060	52860	50034	50072	25	50137	50162	15
9-1/8 x 7/8	80	57080	52880	50035	50073	25	50138	50163	15
	100	57090	52100	50036	50074	25	50139	50164	15
	120	57120	52125	50037	50075	25	50140	50165	15
	16	58016	-	50080	-	20	-	-	-
	24	58024	-	50081	-	20	50141	-	15
	36	58036	-	50082	-	20	50142	-	15
	50	58050	-	50083	-	25	50143	-	15
	60	58060	-	50084	-	25	50144	-	15
	80	58080	-	50085	-	25	50145	-	15
	100	58090	-	50086	-	25	50146	-	15
	120	58120	-	50087	-	25	50147	-	15

Tech
INFO

- Resin over resin construction for a strong bond that is resistant to heat and moisture
- Vulcanized fiber backing for heavy duty sanding
- Available with Sait-Lok™ quick change hub which extends disc life and requires fewer disc changes
- Available in bulk and Blue Line™ packaging



Angle Grinder

Z

- Zirconium grain
- **Closed coat structure for aggressive stock removal and long life**

STAINLESS Stainless steel, high tensile alloys

METAL Ferrous and/or non-ferrous metals (iron, steel, welds, etc.)

3Z

- Premium zirconium grain with grinding aid
- **Special zirconium grain to reduce heat build up and reduce loading**
- Closed coat structure for very aggressive material removal

STAINLESS Stainless steel, high tensile steel, titanium, aluminum

METAL Ferrous metals



Innovative Bulk Packaging
Fiber Spindle Keeps Discs Flat in Storage

- SAIT-LOK™ is available in Blue Line™ package only
- See page 142 for SAIT-LOK™ backing pads
- Spiralcool™ backing pads and disc holder available for standard discs
- See page 142 for Spiralcool™ backing pads

Packaging

UPC bar coded Blue Line™ packaging or Industrial bulk pack of 100 pieces



Quick Tip
Use the Zirconium fiber disc for aggressive stock removal on carbon steel

Size	Grit	Bulk (100 pcs.)		Blue Line™			SAIT-LOK™		
		Part No.	3Z	Part No.	3Z	Pk Per Box	Part No.	3Z	Pk Per Box
4-1/2 x 7/8	24	59224	58224	59424	58424	20	50166	-	15
	36	59236	58236	59436	58436	20	50167	50187	15
	50	59250	58250	59450	58450	25	50168	50188	15
	60	59260	58260	59460	58460	25	50169	50189	15
	80	59280	58280	59480	58480	25	50170	50190	15
5 x 7/8	24	59324	58324	59524	58524	20	50171	-	15
	36	59336	58336	59536	58536	20	50172	50192	15
	50	59350	58350	59550	58550	25	50173	50193	15
	60	59360	58360	59560	58560	25	50174	50194	15
	80	59380	58380	59580	58580	25	50175	50195	15
7 x 7/8	24	59624	58624	59724	58724	20	50176	-	15
	36	59636	58636	59736	58736	20	50177	50197	15
	50	59650	58650	59750	58750	25	50178	50198	15
	60	59660	58660	59760	58760	25	50179	50199	15
	80	59680	58680	59780	58780	25	50180	50200	15
9-1/8 x 7/8	24	59824	-	59924	-	20	50181	-	15
	36	59836	-	59936	-	20	50182	-	15
	50	59850	-	59950	-	25	50183	-	15
	60	59860	-	59960	-	25	50184	-	15
	80	59880	-	59980	-	25	50185	-	15



- Resin over resin construction for a strong bond that is resistant to heat and moisture
- Vulcanized fiber backing for heavy duty sanding
- Available with SAIT-LOK™ quick change hub which extends disc life and requires fewer disc changes
- Available in bulk and Blue Line™ packaging

PREMIUM

COATED
ABRASIVES

FIBER DISCS



Saitech™ 8S Ceramic

- High performance, ceramic aluminum oxide grain, closed coat
- **Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut**
- Exceptional performance and value
- Available in bulk and Blue Line
- Excels on hard to grind alloys, carbon steel, cast iron, stainless steel, and non-ferrous metals

METAL

Carbon steel, cast iron

STAINLESS

Stainless steel, high tensile steel, titanium

Why use 8S?

SAITECH™ 8S excels when used to grind carbon steel and other ferrous metals. 8S ceramic performs exceptionally well when used under high operating pressure with a hard backing pad. 8S ceramic offers very fast stock removal and long life.

Size	Grit	Bulk (100 pcs.) Part No.	Blue Line™ Qty Per Box Part No.	SAIT-LOK™ Qty Per Box Part No.
4-1/2 x 7/8	24	51242	50410	20 50238 300
	36	51243	50411	20 50239 300
	50	51244	50412	25 50240 300
	60	51245	50413	25 50241 300
	80	51246	50414	25 50242 300
5 x 7/8	24	51252	50420	20 50248 300
	36	51253	50421	20 50249 300
	50	51254	50422	25 50250 300
	60	51255	50423	25 50251 300
	80	51256	50424	25 50252 300
7 x 7/8	24	51292	50430	20 50258 300
	36	51293	50431	20 50259 300
	50	51294	50432	25 50260 300
	60	51295	50433	25 50261 300
	80	51296	50434	25 50262 300

Note: All SAIT-LOK™ Ceramic 8S fiber discs are made to order (must order in multiples of 300 pcs)

Packaging

UPC bar coded Blue Line™ packaging or Industrial bulk pack of 100 pieces

See page 142 for backing pads

- Resin over resin construction for a strong bond that is resistant to heat and moisture
- Vulcanized fiber backing for heavy duty sanding
- Available with SAIT-LOK™ quick change hub which extends disc life and requires fewer disc changes
- Available in bulk spindle and Blue Line™ packaging



Angle Grinder

Saitech™ 9S Ceramic (with grinding aid)

- High performance, ceramic aluminum oxide grain, closed coat
- Grinding aids for reduced heat and decreased loading.
Excels in heat sensitive materials (stainless steel, etc.) and non-ferrous metals (aluminum, etc.)
- Exceptional performance and value
- Excels on tough to grind materials

STAINLESS Stainless steel, high tensile steel, titanium

METAL Carbon steel, cast iron

ALUMINUM Non-ferrous metals
(aluminum, copper, brass, etc.)



Grinds welds on stainless steel with no discoloration

HIGH PERFORMANCE

Why use 9S?

SAITECH™ 9S ceramic fiber discs are designed to keep the material that the disc is being used on very cool to prevent burning, discoloration and distortion. 9S is the ideal product for end users who frequently grind sensitive materials like stainless steel, high nickel, chrome alloys and titanium. 9S also works very well on aluminum and non-ferrous metals as the grinding aids act as a lubricant to prevent loading.

COATED ABRASIVES

Size	Grit	Bulk (100 pcs.)	Blue Line™		SAIT-LOK™	
		Part No.	Part No.	Qty Per Box	Part No.	Qty Per Box
4-1/2 x 7/8	24	51342	50510	20	50338	300
	36	51343	50511	20	50339	300
	50	51344	50512	25	50340	300
	60	51345	50513	25	50341	300
	80	59113	56313	25	50342	300
5 x 7/8	24	51352	50520	20	50348	300
	36	51353	50521	20	50349	300
	50	51354	50522	25	50350	300
	60	51355	50523	25	50351	300
	80	59133	56333	25	50352	300
7 x 7/8	24	51372	50530	20	50358	300
	36	51373	50531	20	50359	300
	50	51374	50532	25	50370	300
	60	51375	50533	25	50371	300
	80	59153	56353	25	50372	300

Note: All SAIT-LOK™ Ceramic 9S fiber discs are made to order (must order in multiples of 300 pcs)

Packaging

UPC bar coded Blue Line™ packaging or Industrial bulk pack of 100 pieces

See page 142 for backing pads

FIBER DISCS



- Resin over resin construction for a strong bond that is resistant to heat and moisture
- Vulcanized fiber backing for heavy duty sanding
- Available with SAIT-LOK™ quick change hub which extends disc life and requires fewer disc changes
- Available in bulk spindle and Blue Line™ packaging

**AO**

- Aluminum oxide grain
- Open coat structure prevents loading
- **Fast material removal**

METAL

Ferrous and/or non-ferrous metals
(iron, steel, copper, aluminum, etc.)

WOOD

Wood, fiberglass

C

- Silicon carbide grain
- **Closed coat structure for more material removal**

CONCRETE

Glass, marble, ceramic, hard cast iron

METAL

Ferrous and/or non-ferrous metals

**Quick Tip**

Use Spiralcool™ backing pads to extend disc life 30% to 50%

Note: Fiber Discs must always be used with a backing pad.

Size	Grit	Bulk (100 pcs.) Part No.		Blue Line™ Part No.		Pk Per Box
		AO	C	AO	C	
7 x 7/8	16	52716	54016	50050	50100	20
	24	52724	54024	50051	50101	20
	36	52736	54036	50052	50102	20
	50	-	54050	-	50103	25
	60	-	54060	-	50104	25
	80	-	54080	-	50105	25
	100	-	54100	-	50106	25
	120	-	54120	-	50107	25
	150	-	54150	-	50108	25
	180	-	54180	-	50109	25
	220	-	54220	-	50110	25
	320	-	54320	-	50112	25
	400	-	54400	-	50113	25

Packaging

UPC bar coded Blue Line™ packaging or Industrial bulk pack of 100 pieces

See page 142 for backing pads

Tech
INFO

- Resin over resin construction for a strong bond that is resistant to heat and moisture
- Vulcanized fiber backing for heavy duty sanding
- Available in bulk and Blue Line™ packaging

LAMINATED DISCS

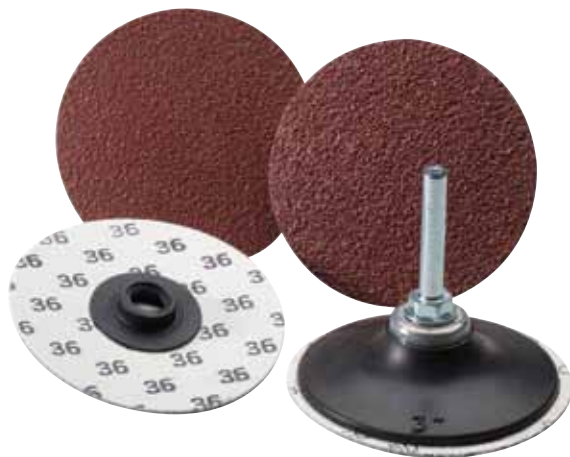
Heavy Duty



Portable Grinder

Triple laminated construction for severe pressure applications where conventional laminated discs have too much flex. Excellent for edge grinding, deburring, and weld preparation and removal.

SAIT-LOK™



Improved nylon composite won't bend or break during aggressive applications. Uses the same backing pad as conventional laminated discs.

SAIT-LOK-R™



Nylon screw threaded hub for easy mounting to the backing pad

2A-H

- Aluminum oxide grain
- **Fast stock removal**
- Excellent edge grain retention

METAL

Ferrous and/or non-ferrous metals

WOOD

Wood, plastic, fiberglass, etc.

Z-H

- High performance Zirconium grain
- **Extremely fast stock removal and long life**

METAL

Ferrous and/or non-ferrous metals

STAINLESS

Stainless steel, high tensile alloys



Heavy Duty Discs

Stiffer construction assures fast grinding performance

Very durable edge performance and long life



Conventional Discs

Size	Grit	SAIT-LOK™ Part No.		SAIT-LOK-R™ Part No.		Qty Per Box
		2A-H	Z-H	2A-H	Z-H	
2"	24	52320	55420	50320	55450	100
	36	52321	55421	50321	55451	100
	50	52322	55422	50322	55452	100
	60	52323	55423	50323	55453	100
	80	52324	55424	50324	55454	100
3"	24	52330	55430	50330	55460	50
	36	52331	55431	50331	55461	50
	50	52332	55432	50332	55462	50
	60	52333	55433	50333	55463	50
	80	52334	55434	50334	55464	50

See page 145 for backing pads

Tech
INFO

- Triple lamination construction for severe duty applications where traditional discs fray
- Quick change backings make for fast easy disc changes and less downtime
- Universal style backings fit most major backing pad brands on the market

HEAVY DUTY

COATED ABRASIVES

LAMINATED DISCS



Portable Grinder

GENERAL PURPOSE

**SAIT-LOK™**

All-metal attachment on disc ensures a secure fit to the backing pad
(see page 79 for photo)

SAIT-LOK-R™

Nylon screw threaded hub for easy mounting to the backing pad
(see page 79 for photo)

See page 145 for backing pads

2A

- Aluminum oxide grain
- **General purpose, long life**
- Easy disc changes by twisting to unlock backing pad

METAL Ferrous and/or non-ferrous metals

WOOD Wood, plastic, fiberglass, etc.

3A

- Premium aluminum oxide grain with grinding aid
- Cooling agents for cool cutting and long life
- **Fast stock removal**
- Easy disc changes by twisting to unlock backing pad

STAINLESS Stainless steel, high tensile steel, titanium

METAL Ferrous and/or non-ferrous metals

**Quick Tip**

Use 3A or 3Z for top performance on stainless steel and aluminum

Size	Grit	SAIT-LOK™ Part No.		SAIT-LOK-R™ Part No.		Qty Per Box
		2A	3A	2A	3A	
1"	36	52208	50208	-	-	100
	40	52209	50209	-	-	100
	50	52210	50210	-	-	100
	60	52211	50211	-	-	100
	80	52212	50212	-	-	100
	100	52213	50213	-	-	100
	120	52214	50214	-	-	100
1-1/2"	36	52215	50215	52264	50264	100
	40	52216	50216	52265	50265	100
	50	52217	50217	52266	50266	100
	60	52218	50218	52267	50267	100
	80	52219	50219	52268	50268	100
	100	52220	50220	52269	50269	100
	120	52221	50221	52270	50270	100
2"	36	52222	50222	52271	50271	100
	40	52223	50223	52272	50272	100
	50	52224	50224	52273	50273	100
	60	52225	50225	52274	50274	100
	80	52226	50226	52275	50275	100
	100	52227	50227	52276	50276	100
	120	52228	50228	52277	50277	100
3"	36	52229	50229	52278	50278	50
	40	52230	50230	52279	50279	50
	50	52231	50231	52280	50280	50
	60	52232	50232	52281	50281	50
	80	52233	50233	52282	50282	50
	100	52234	50234	52283	50283	50
	120	52235	50235	52284	50284	50

Tech
INFO

- 2-ply construction is rugged enough for contoured surfaces or flat surfaces
- Quick-change backings make for fast easy disc changes and less downtime
- Universal backings fit most major backing pad brands on the market

LAMINATED DISCS

Zirconium



Portable Grinder

SAIT-LOK™



All-metal attachment on disc ensures a secure fit to the backing pad

SAIT-LOK-R™



Nylon screw threaded hub for easy mounting to the backing pad

See page 145 for backing pads



Z

- Premium zirconium grain
- **Very fast stock removal, long life**
- Easy disc changes by twisting to unlock backing pad

STAINLESS Stainless steel, high tensile alloys

METAL Ferrous and/or non-ferrous metals (iron, steel, welds, etc.)

3Z

- Premium zirconium grain with grinding aid
- Cooling agents for cool cutting and long life
- **Very fast stock removal, no discoloration**
- Easy disc changes by twisting to unlock backing pad

STAINLESS Stainless steel, high tensile steel, titanium

METAL Ferrous and/or non-ferrous metals



Size	Grit	SAIT-LOK™ Part No.		SAIT-LOK-R™ Part No.		Qty Per Box
		Z	3Z	Z	3Z	
1-1/2"	36	55215	56215	55264	56264	100
	40	55216	56216	55265	56265	100
	50	55217	56217	55266	56266	100
	60	55218	56218	55267	56267	100
	80	55219	56219	55268	56268	100
	24	55221	-	55270	-	100
2"	36	55222	56222	55271	56271	100
	40	55223	56223	55272	56272	100
	50	55224	56224	55273	56276	100
	60	55225	56225	55274	56274	100
	80	55226	56226	55275	56275	100
	24	55228	-	55277	-	50
3"	36	55229	56229	55278	56278	50
	40	55230	56230	55279	56279	50
	50	55231	56231	55280	56280	50
	60	55232	56232	55281	56281	50
	80	55233	56233	55282	56282	50

Tech
INFO

- 2-ply construction is rugged enough for contour surfaces or flat surfaces
- Quick-change backings make for fast easy disc changes and less downtime
- Universal backings fit most major backing pad brands on the market

PREMIUM

COATED
ABRASIVES

LAMINATED DISCS

PAPER & CLOTH DISCS INTRODUCTION

Paper Discs

SPECIFICATION

MATERIAL & APPLICATION INFORMATION

Zirconium – Page 83, 85

Z-F Heavy Duty Paper Discs

40-120 Grit Range
F-weight paper
Closed Coat

- Best choice for aggressive sanding and preparation, and stock removal.
- Aggressive material removal and long life.
- Heavy, F-weight paper prevents torn edges, which produce deep, uneven random scratches.
- Available in PSA and hook and loop fastening systems.

Aluminum Oxide – Page 81 – 85

A-E Heavy Duty Paper Discs

40-120 Grit Range
E-weight paper
Open Coat

- Aggressive sanding and preparation, and stock removal as well as finishing with long life.
- E-weight paper reduces torn edges, which produce deep, uneven random scratches.
- Available in PSA and hook and loop fastening systems.

4S/4V Premium Stearate Paper

80-1500 Grit Range
C-weight paper
Open Coat

- Premium stearate coating and open coat structure lubricates and prevents loading for long life and aggressive cutting.
- Available in C-weight, low flexibility.
- Available in PSA and hook and loop fastening systems.

3S Stearate Paper

80-600 Grit Range
C-weight paper
Open Coat

- Stearate coating and open coat structure lubricates and prevents loading.
- Available in C-weight, normal flexibility.
- Available in PSA and hook and loop fastening systems in individual discs and PSA disc rolls.

Silicon Carbide – 81, 85

C-E and C-F Paper Discs

40-1200 Grit Range
E and F weight paper
Closed Coat

- Premium Silicon Carbide paper for aggressive sanding and finishing.
- For use on granite, marble, fiberglass, solid surface materials, ceramics, concrete, plastics and cast iron materials.
- Heavy-duty paper prevents torn edges, which can produce deep, uneven scratches.
- Available in hook and loop fastening system.

Silicon Carbide Stearate Paper

80-400 Grit Range
B and D weight paper
Open Coat

- Stearate coating and open coat structure lubricates and prevents loading for fast cutting.
- Available in PSA disc rolls.

Cloth Discs

SPECIFICATION

MATERIAL & APPLICATION INFORMATION

Zirconia Alumina – Page 86

Z-X

40-80 Grit Range
X-weight cloth
Closed Coat

- X-weight cotton backing for superior grinding and finishing performance.
- Hot melt adhesive provides excellent adhesion while allowing for easy removal.
- Available in the most popular sizes and grits.

Aluminum Oxide – Page 87

TA-X

24-320 Grit Range
X-weight cloth
Closed Coat

- X-weight cotton backing for grinding and finishing performance.
- Hot melt adhesive provides excellent adhesion while allowing for easy removal.
- Available in the most popular sizes and grits.

COATED
ABRASIVES



PAPER DISCS PSA DISC ROLLS

Stearated



Disc Sander

4S Premium Stearated Aluminum Oxide

- EXCELS ON PAINTED AND PRIMED SURFACES
- Our best performing, longest lasting paper disc
- Long lasting performance and fast removal rates for fine finishing of auto body, wood, metal, and marine applications
- Premium Aluminum Oxide grain
- Premium Stearate coating and open coat structure lubricates and prevents loading - For dry use only
- Available in weights: "C" medium-weight, low flexibility

WOOD

Body filler, paint, primers, plastics, wood and fiberglass

METAL

Ferrous and/or non-ferrous metals

Packaging

PSA Disc Rolls: 100 pcs/roll

4 rolls/box

See page 144 for backing pads



Size	Grit	PSA Disc Rolls Part No
5" 4S	80C	37800
	100C	37801
	120C	37802
	150C	37803
	180C	37804
	220C	37805
	240C	37806
	280C	37807
6" 4S	320C	37808
	400C	37809
	80C	37900
	100C	37901
	120C	37902
	150C	37903
	180C	37904
	220C	37905
	240C	37906
	280C	37907
	320C	37908
	400C	37909

3S Stearated Aluminum Oxide

- EXCELS ON WOOD AND BARE METAL SURFACES
- Aluminum oxide grain - For dry use only
- Stearate coating and open coat structure lubricates and prevents loading
- Available in weights: "C" medium-weight, average flexibility

WOOD

Body filler, paint, primers, plastics, wood and fiberglass

METAL

Ferrous and/or non-ferrous metals

Size	Grit	PSA Disc Rolls Part No
5" 3S	80C	36800
	100C	36801
	120C	36802
	150C	36803
	180C	36804
	220C	36805
	320C	36808
	400C	36809
6" 3S	500C	36810
	80C	36900
	100C	36901
	120C	36902
	150C	36903
	180C	36904
	220C	36905
	320C	36908
	400C	36909
	500C	36910

Silicon Carbide Stearate

- OUR BEST ECONOMY DISC
- Open coat structure prevents loading; Use dry only
- For automotive body work
- For removing varnish from wood or sanding fiberglass in the marine industry

WOOD

Body filler, paint, fiberglass, etc.

METAL

Ferrous and/or non-ferrous materials

- Available with or without vacuum holes for use on random orbital or low speed DA sanders
- Available weights: "B" - light weight, high flexibility
"D" - heavy weight, low flexibility

Size	Grit	Part No. w/o vacuum holes	Part No. with vacuum holes
5"	80D	36500	36510
	100B	36501	36511
	120B	36502	36512
	150B	36503	36513
	180B	36504	36514 (5 vacuum holes)
	220B	36505	36515
	240B	36506	36516
	320B	36508	36518
	400B	36509	36519*
	80D	36600	36610
6"	100B	36601	36611
	120B	36602	36612
	150B	36603	36613
	180B	36604	36614 (6 vacuum holes)
	220B	36605	36615
	240B	36606	36616
	320B	36608	36618
	400B	36609	36619

Packaging

125 pieces/box/roll
*100 pieces/box/roll



- Strong resin over resin bond construction is resistant to heat and moisture
- Special sharp and durable aluminum oxide grain cuts fast and is long lasting
- PSA discs rolls are perforated for easy disc tear away from roll

COATED
ABRASIVES

PAPER DISCS

Stearated



Disc Sander

PAPER DISCS INDIVIDUAL PSA

4S Premium Stearated Aluminum Oxide

- EXCELS ON PAINTED AND PRIMED SURFACES
- Our best performing, longest lasting paper disc
- Long lasting performance and fast removal rates for fine finishing of auto body, wood, metal, and marine applications
- Premium Aluminum Oxide grain - For dry use only
- Premium Stearate coating and open coat structure lubricates and prevents loading
- Available in weights: "C" medium-weight, low flexibility

WOOD

Body filler, paint, primers, plastics, wood and fiberglass

METAL

Ferrous and/or non-ferrous metals

Size	Grit	PSA Discs Part No. w/o vac. holes
5"	80C	37505
	100C	37506
	120C	37507
	150C	37508
	180C	37509
	220C	37510
6"	320C	37511
	80C	37605
	100C	37606
	120C	37607
	150C	37608
	180C	37609
	220C	37610



Quick Tip

Release paper keeps PSA discs clean in a dusty environment

Packaging

PSA individual: 100/box

See page 144 for backing pads

3S Stearate Aluminum Oxide

- EXCELS ON WOOD AND BARE METAL SURFACES
- Aluminum oxide grain - For dry use only
- Stearate coating and open coat structure lubricates and prevents loading
- Fine finishing of wood, metal, auto body and marine applications
- Available in weights: "C" medium-weight, average flexibility

WOOD

Body filler, paint, primers, plastics, wood and fiberglass

METAL

Ferrous and/or non-ferrous metals

Size	Grit	PSA Discs Part No. w/o vac. holes
5"	80C	36520
	100C	36521
	120C	36522
	150C	36523
	180C	36524
	220C	36525
6"	80C	36620
	100C	36621
	120C	36622
	150C	36623
	180C	36624
	220C	36625

Tech
INFO

- Special sharp and durable premium aluminum oxide grain cuts fast and is long lasting
- Pressure sensitive adhesive (PSA) backing allows for quick changes
- PSA discs are tabbed for easy removal of release paper

COATED
ABRASIVES

PAPER DISCS

PAPER DISCS INDIVIDUAL PSA

Heavy Duty



Zirconium Paper Discs - Z-F (Premium)

- Best choice for aggressive sanding and preparation, and stock removal
- Zirconium grain for aggressive material removal and long life
- Heavy, F-weight paper prevents torn edges which produce deep, uneven random scratches

METAL

Ferrous and non-ferrous metals

WOOD

Wood

Aluminum Oxide Paper Discs - A-E

- For aggressive sanding and preparation, and stock removal
- Aluminum Oxide grain for material removal, long life and finishing
- E-weight paper reduces torn edges which produce deep, uneven random scratches

WOOD

Wood, auto body applications, and fiberglass

METAL

Ferrous and non-ferrous metals

Size	Grit	ZF - Zirconium	AE - Aluminum Oxide
		Part No.	Part No.
5"	40	34110	34150
	60	34112	34152
	80	34113	34153
	120	34115	34155
6"	40	34130	34170
	60	34132	34172
	80	34133	34173
	120	34135	34175
8"	40	34140	-
	80	34143	-

Packaging

5" and 6"

PSA: 50/box

See page 144 for backing pads

8"

PSA: 25/box



Quick Tip

Release paper keeps PSA discs clean in a dusty environment



Tech
INFO

- Special sharp and durable premium aluminum oxide grain cuts fast and is long lasting
- Pressure sensitive adhesive (PSA) allows for quick changes
- PSA discs are tabbed for easy removal of release paper

COATED
ABRASIVES

PAPER DISCS

Stearated



Disc Sander

PAPER DISCS HOOK & LOOP

4S/4V Premium Stearated Aluminum Oxide

- EXCELS ON PAINTED AND PRIMED SURFACES
- Our best performing, longest lasting paper disc
- Long lasting performance and fast removal rates for fine finishing of auto body, wood, metal, and marine applications
- Premium Aluminum Oxide grain - for dry use only
- Premium Stearate coating and open coat structure lubricates and prevents loading

Packaging

50 pieces per box

See page 144 for backing pads now also available with vacuum holes

"C" medium-weight, low flexibility

WOOD Body filler, paint, primers, plastics, wood and fiberglass

METAL Ferrous and/or non-ferrous metals

4S/4V Hook & Loop Discs



Size	Grit	4S/4V Saitch™ Hook & Loop Discs			
		Part No. w/o vac. holes	Part No. w/ 5 vac. holes	Part No. w/ 6 vac. holes	Part No. w/ 8 vac. holes
5"	80C	37515	37525	-	37535
	100C	37516	37526	-	37536
	120C	37517	37527	-	37537
	150C	37518	37528	-	37538
	180C	37519	37529	-	37539
	220C	37520	37530	-	37540
	240C	37562	-	-	-
	280C	37563	-	-	-
	320C	37521	37531	-	37541
	400C	37522	37532	-	37542
	500C	37523	-	-	-
	600C	37524	-	-	-
	800C	37550	37554	-	37543
	1000C	37551	37555	-	37544
	1200C	37552	37556	-	37545
	1500C	37553	37557	-	37546
6"	80C	37615	-	37635	-
	100C	37616	-	37636	-
	120C	37617	-	37637	-
	150C	37618	-	37638	-
	180C	37619	-	37639	-
	220C	37620	-	37640	-
	240C	37650	-	-	-
	280C	37651	-	-	-
	320C	37621	-	37641	-
	400C	37622	-	37642	-
	500C	37623	-	-	-
	600C	37624	-	-	-
	800C	37625	-	37643	-
	1000C	37626	-	37644	-
	1200C	37627	-	37645	-
	1500C	37628	-	37646	-

3S Stearated Aluminum Oxide

- EXCELS ON WOOD AND BARE METAL SURFACES
- Aluminum oxide grain - for dry use only
- Stearate coating and open coat structure lubricates and prevents loading
- Fine finishing of wood, metal, auto body and marine applications
- "C" medium-weight, average flexibility

WOOD Body filler, paint, primers, plastics, wood and fiberglass

METAL Ferrous and/or non-ferrous metals

3S Hook & Loop Discs

Size	Grit	3S Saitch™ Hook & Loop Discs			
		Part No. w/o vac. holes	Part No. w/ 5 vac. holes	Part No. w/ 6 vac. holes	Part No. w/ 8 vac. holes
5"	80C	36540	36550	-	36560
	100C	36541	36551	-	36561
	120C	36542	36552	-	36562
	150C	36543	36553	-	36563
	180C	36544	36554	-	36564
	220C	36545	36555	-	36565
	320C	36548	36558	-	36568
6"	80C	36640	-	36650	-
	100C	36641	-	36651	-
	120C	36642	-	36652	-
	150C	36643	-	36653	-
	180C	36644	-	36654	-
	220C	36645	-	36655	-
	320C	36648	-	36658	-

Tech
INFO

- Hook and loop fastening system allows for quick changes and less downtime
- Available with or without vacuum holes for use on random orbital or low speed DA sanders with capture systems
- Strong resin over resin bond construction is resistant to heat and moisture
- This special sharp and durable aluminum oxide grain cuts fast and lasts long

COATED
ABRASIVES

PAPER DISCS

PAPER DISCS HOOK & LOOP

Heavy Duty



Disc Sander

Zirconium Paper Discs - Z-F (Premium)

- Best choice for aggressive sanding and preparation, and stock removal
- Zirconium grain for aggressive material removal and long life
- Heavy, F-weight paper prevents torn edges which produce deep, uneven random scratches

METAL Ferrous and non-ferrous metals

WOOD Wood

Z-F Zirconium Hook & Loop

Size	Z-F Zirconium	
	Grit	Part No.
5"	40	34210
	60	34212
	80	34213
	120	34215
6"	40	34230
	60	34232
	80	34233
	120	34235
8"	40	34240
	80	34243

Aluminum Oxide Paper Discs - A-E

- For aggressive sanding and preparation, and stock removal
- Aluminum Oxide grain for material removal, long life and finishing
- E-weight paper reduces torn edges which produce deep, uneven random scratches

WOOD Wood, auto body applications, and fiberglass

METAL Ferrous and non-ferrous metals

Packaging

50 pieces per box

See page 144 for backing pads now also available with vacuum holes

A-E Aluminum Oxide Hook & Loop

Size	Grit	AE - Aluminum Oxide			
		H&L Part No. w/o vac. holes	H&L Part No. w/ 5 vac. holes	H&L Part No. w/ 6 vac. holes	H&L Part No. w/ 8 vac. holes
5"	40	34250	34280	-	34290
	60	34252	34282	-	34292
	80	34253	34283	-	34293
	120	34255	34285	-	34295
6"	40	34270	-	34310	-
	60	34272	-	34312	-
	80	34273	-	34313	-
	120	34275	-	34315	-

Silicon Carbide Paper Discs

Size	Grit	Hook & Loop Part No.
5"	40	34510
	60	34512
	80	34513
	100	34514
	120	34515
	150	34516
	180	34517
	220	34518
	320	34521
	400	34522
	500	34523
	600	34524
6"	800	34525
	1200	34527
	40	34610
	60	34612
	80	34613
	100	34614
	120	34615
	150	34616
	180	34617
	220	34618
	320	34621
	400	34622
	500	34623
	600	34624
	800	34625
	1200	34627

Silicon Carbide Heavy Duty Paper Discs C-E/C-F Discs

- Premium Silicon Carbide grain on a tough paper backing
- Designed for fine finishing and long life
- Available with hook and loop backing

CONCRETE Marble, granite, solid surface, ceramics, concrete, plastic

METAL Ferrous and non-ferrous metals

Contour Hand Pads
on page 144



Tech
INFO

- Hook and loop fastening system allows for quick changes and less downtime
- Available with or without vacuum holes for use on random orbital or low speed DA sanders with capture systems
- Strong resin over resin bond construction is resistant to heat and moisture
- This special sharp and durable aluminum oxide grain cuts fast and lasts long

COATED
ABRASIVES

PAPER DISCS



Zirconium Z-X (Premium)

Premium Zirconium Grain

- Specially formulated X-weight Egyptian cotton cloth backing
- Closed coat structure

METAL

Ferrous and/or non-ferrous metals
(iron, steel, aluminum, copper, etc.)

STAINLESS

Stainless steel, high tensile steel

Packaging

1" - 6"	50/pkg
7" - 12"	25/pkg
14" - 16", 18", 20"	10/pkg

See page 144 for backing pads

* 280 grit not available

Size	Part No. TA-X	Grit Available
1"	34987	24
	34988	36
	34989	40
	34990	50
	34991	60
	34992	80
	34993 thru 34999	100-120-150- 180-220- 240-* -320
1-1/2"	35000	24
	35001	36
	35002	40
	35003	50
	35004	60
	35005	80
	35006 thru 35013	100-120-150- 180-220- 240-* -320
2"	35020	24
	35021	36
	35022	40
	35023	50
	35024	60
	35025	80
	35026 thru 35033	100-120-150- 180-220- 240-* -320
3"	35040	24
	35041	36
	35042	40
	35043	50
	35044	60
	35045	80
	35046 thru 35053	100-120-150- 180-220- 240-* -320
4"	35060	24
	35061	36
	35062	40
	35063	50
	35064	60
	35065	80
	35066 thru 35073	100-120-150- 180-220- 240-* -320

Size	Part No.		Grit Available
	TA-X	Z-X	
5"	35080	-	24
	35081	-	36
	35082	37082	40
	35083	37083	50
	35084	37084	60
	35085	37085	80
	35086 thru 35093	-	100-120-150- 180-220- 240-* -320
6"	35094	-	24
	35095	-	36
	35096	37096	40
	35097	37097	50
	35098	37098	60
	35099	37099	80
	35100 thru 35107	-	100-120-150- 180-220- 240-* -320
7"	35108	-	24
	35109	-	36
	35110	-	40
	35111	-	50
	35112	-	60
	35113	-	80
	35114 thru 35121	-	100-120-150- 180-220- 240-* -320
8"	35122	-	24
	35123	-	36
	35124	37124	40
	35125	37125	50
	35126	37126	60
	35127	37127	80
	35128 thru 35135	-	100-120-150- 180-220- 240-* -320

Tech
INFO

- Strong resin over resin bond construction is resistant to heat and moisture
- Hot melt adhesive back allows for quick change and less downtime
- Label UPC bar coded for easy identification and inventory maintenance



Aluminum Oxide TA-X

Aluminum Oxide Grain

- Strong X-weight Egyptian cotton cloth backing
- Closed coat structure

METAL Ferrous and/or non-ferrous metals (iron, steel, aluminum, copper, etc.)

WOOD Wood, plastic, fiberglass



See page 86 for packaging

* 280 grit not available

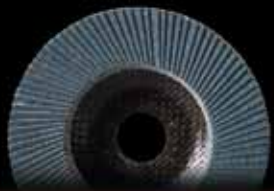
** 240 grit not available

Size	Part No.		Grit Available
	TA-X	Z-X	
9"	35136	-	24
	35137	-	36
	35138	37138	40
	35139	37139	50
	35140	37140	60
	35141	37141	80
	35142	-	100-120-150-thru
10"	35149	-	180-220-240*-320
	35150	-	24
	35151	-	36
	35152	37152	40
	35153	37153	50
	35154	37154	60
	35155	37155	80
12"	35156	-	100-120-150-thru
	35163	-	180-220-**-320
	35164	-	24
	35165	-	36
	35166	37166	40
	35167	37167	50
	35168	37168	60
14"	35169	37169	80
	35170	-	100-120-150-thru
	35177	-	180-220-240*-320
	35179	-	36
	35180	-	40
	35181	-	50
	35182	-	60
16"	35183	-	80
	35184	-	100
	35185	-	120
	35186	-	140
	35187	-	160

Size	Part No.		Grit Available
	TA-X	Z-X	
15"	35193	-	36
	35194	-	40
	35195	-	50
	35196	-	60
	35197	-	80
	35198	-	100
	35199	-	120
16"	35207	-	36
	35208	-	40
	35209	-	50
	35210	-	60
	35211	-	80
	35212	-	100
	35213	-	120
18"	35221	-	36
	35222	-	40
	35223	-	50
	35224	-	60
	35225	-	80
	35226	-	100
	35227	-	120
20"	35235	-	36
	35236	37236	40
	35237	37237	50
	35238	37238	60
	35239	37239	80
	35240	-	100
	35241	-	120



- Strong resin over resin bond construction is resistant to heat and moisture
- Hot melt adhesive back allows for quick change and less downtime
- Label UPC bar coded for easy identification and inventory maintenance



FLAP DISCS INTRODUCTION

PREMIUM



OVATION®

- High Density
 - Heavy Duty
 - Long Life
 - Flat Shape
- (Fiberglass Backing)



OVATION® ATTACKER®

- High Density
 - Conformability
 - Fast Cutting
 - Flat Shape
- (Fiberglass Backing)



Saitlam F™

- Regular Density
 - High Performance
 - Conical Shape
- (Fiberglass Backing)

GENERAL PURPOSE

NEW!



ENCORE

- Regular Density
 - Long Life
 - Flat and Conical Shape
- (Fiberglass Backing)



Saitlam UP™

- Regular Density
 - General Purpose
 - Flat Shape
- (Fiberglass Backing)



Saitlam UK™

- Regular Density
 - General Purpose
 - Conical Shape
- (Fiberglass Backing)

PLASTIC BACKING



Saitlam PN™

- Regular Density
 - General Purpose
 - Flat Shape
- (Plastic Backing)



Saitlam™

- Regular Density
 - High Performance
 - Flat Shape
- (Nylon 6/6 Backing)



Saitlam K™

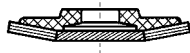
- Regular Density
 - High Performance
 - Conical Shape
- (Nylon 6/6 Backing)

COATED
ABRASIVES

Product	Product Type	Backing	Product Shape	Specs.	Page No.
OVATION®	High Density	Fiberglass	Flat (Type 27)	Z	90-91
OVATION® ATTACKER®	High Density	Fiberglass	Flat (Type 27)	Z	90-91
SAITLAM F™	Regular Density	Fiberglass	Conical (Type 29)	2A, 3A, Z	92
ENCORE	Regular Density	Fiberglass	Flat (Type 27) & Conical (Type 29)	Z	89
SAITLAM UP™	Regular Density	Fiberglass	Flat (Type 27)	Z	93
SAITLAM UK™	Regular Density	Fiberglass	Conical (Type 29)	Z	93
SAITLAM PN™	Regular Density	Plastic	Flat (Type 27)	Z	94
SAITLAM™	Regular Density	Nylon 6/6	Flat (Type 27)	2A, 3A, Z	94
SAITLAM K™	Regular Density	Nylon 6/6	Conical (Type 29)	2A, Z	94

Backing Shape

Conical shape features (type 29):



- Built-in angle for increased contact area
- Best for use on large, flat surfaces or complex work shapes
- Minimizes workpiece gouging
- More aggressive stock removal due to higher angle

Flat shape features (type 27):



- Best for use on miter joints, corners and edges
- Best choice for finishing intricate and ornate surfaces
- More forgiving than conical shape

Backing Type

Fiberglass backing features:

- Lighter, quieter operation
- Will not splinter or smear on the workpiece
- Backing will wear uniformly with abrasive cloth

Plastic backing features:

- Non-scratching, high strength backing
- Resistant to temperature extremes, common chemicals and solvents

FLAP DISCS ENCORE

Regular Density



SAIT ENCORE

KEY FEATURES

- More flaps that are larger yield longer life
- Made with premium zirconium abrasive material which provides long-life and high stock removal
- Will not contaminate stainless steel
- Grind, blend and finish with one product
- Out performs competitive regular density flap discs
- Resists loading on aluminum – unique in the industry

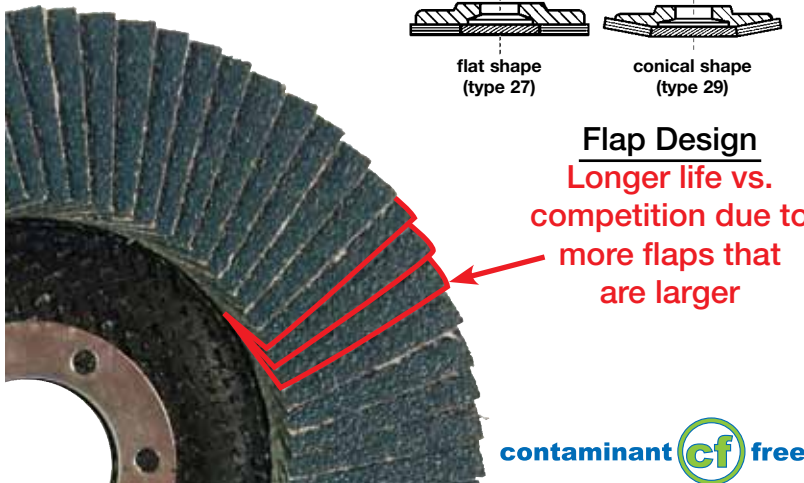
METAL	Ferrous and/or non-ferrous metals
STAINLESS	Stainless steel, high tensile steel, titanium
ALUMINUM	Non-ferrous metals (aluminum, copper, brass, etc.)

NEW!



Regular Density (Fiberglass Backing)

LONG LIFE



**NEW! SAIT
ENCORE**

Mat'l	Size		Grit	Type 27 Part No. Encore	Type 29 Part No. Encore
	Dia.	Arbor			
Z	4-1/2	7/8	36	71205	79105
	4-1/2	7/8	40	71206	79106
	4-1/2	7/8	60	71208	79108
	4-1/2	7/8	80	71209	79109
	4-1/2	7/8	120	71211	79111
	4-1/2	5/8-11	36	71215	79115
	4-1/2	5/8-11	40	71216	79116
	4-1/2	5/8-11	60	71218	79118
	4-1/2	5/8-11	80	71219	79119
	4-1/2	5/8-11	120	71221	79211
	5	7/8	36	71225	79125
	5	7/8	40	71226	79126
6"	5	7/8	60	71228	79128
	5	7/8	80	71229	79129
	5	7/8	120	71231	79131
	5	5/8-11	36	71235	-
	5	5/8-11	40	71236	-
	5	5/8-11	60	71238	-
	5	5/8-11	80	71239	-
	5	5/8-11	120	71241	-
	6	7/8	36	71245	-
	6	7/8	40	71246	-
	6	7/8	60	71248	-
	6	7/8	80	71249	-
7"	6	7/8	120	71251	-
	6	5/8-11	36	71255	-
	6	5/8-11	40	71256	-
	6	5/8-11	60	71258	-
	6	5/8-11	80	71259	-
	6	5/8-11	120	71261	-
	7	7/8	36	71265	-
	7	7/8	40	71266	-
	7	7/8	60	71268	-
	7	7/8	80	71269	-
	7	7/8	120	71271	-
	7	5/8-11	36	71275	-
7"	7	5/8-11	40	71276	-
	7	5/8-11	60	71278	-
	7	5/8-11	80	71279	-
	7	5/8-11	120	71281	-

Z
Premium
Zirconium

6" & 7"
Available
in the
Spring



APPLICATIONS | Weld grinding and blending • Edge breaking
• Deburring • Finishing and blending • Contour finishing

COATED
ABRASIVES

FLAP DISCS

High Density



Angle Grinder

FLAP DISCS

OVATION®

The Original
SAIT
OVATION®

OVATION®
ATTACKER®



**MORE GRINDING MATERIAL =
INCREASED PRODUCTIVITY
& LONG LIFE**

contaminant **cf** free



High Density (Fiberglass Backing)

KEY FEATURES

- Heavy duty for tougher applications
- High pressure is ideal for removing deeper scratches from the work surface
- Made with premium zirconium abrasive material which provides long-life and high stock removal

METAL Ferrous and/or non-ferrous metals

STAINLESS Stainless steel, high tensile steel, titanium

High Density (Fiberglass Backing)

KEY FEATURES

- Conformability – a softer cushioned design that is ideal on irregular surfaces
- Flap design allows the use of light pressure to produce the perfect finish
- Specially designed abrasive flaps provide aggressive cutting action

STAINLESS Stainless steel, high tensile steel, titanium

METAL Ferrous metals and non-ferrous metals

ALUMINUM Non-ferrous metals
(aluminum, copper, brass, etc.)

**Heavy Duty
Long Life**



**Will Not Contaminate
Stainless Steel**

**Conformability
Fast Cutting**



**Will Not Contaminate
Stainless Steel**

PREMIUM

COATED
ABRASIVES

FLAP DISCS

FLAP DISCS OVATION®

High Density



Ovation® Design

Flap Disc Configuration

A high density design that contains more flaps that are larger to provide long-life

Control

Provides excellent operator control resulting in a consistent finish with controlled stock removal rates

Ovation® Safety

Fiberglass Backing

Specially engineered fiberglass backing designed for strength and safety

Adhesive System

Specially formulated adhesive system designed for safety and to effectively secure the abrasive flaps to the backing



PREMIUM

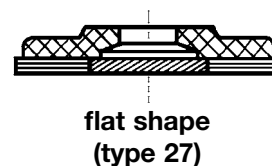
COATED
ABRASIVES

FLAP DISCS

Mat'l	Size		Grit	Part No. Ovation®
	Dia.	Arbor		
Z Premium Zirconium	4-1/2	7/8	36	78005
	4-1/2	7/8	40	78006
	4-1/2	7/8	60	78008
	4-1/2	7/8	80	78009
	4-1/2	7/8	120	78011
	4-1/2	5/8-11	36	78105
	4-1/2	5/8-11	40	78106
	4-1/2	5/8-11	60	78108
	4-1/2	5/8-11	80	78109
	4-1/2	5/8-11	120	78111
	5	7/8	36	78025
	5	7/8	40	78026
	5	7/8	60	78028
	5	7/8	80	78029
	5	7/8	120	78031
	5	5/8-11	36	78125
	5	5/8-11	40	78126
	5	5/8-11	60	78128
	5	5/8-11	80	78129
	5	5/8-11	120	78131
	6	7/8	36	78035
	6	7/8	40	78036
	6	7/8	60	78038
	6	7/8	80	78039
	6	7/8	120	78041
	6	5/8-11	36	78135
	6	5/8-11	40	78136
	6	5/8-11	60	78138
	6	5/8-11	80	78139
	6	5/8-11	120	78141
	7	7/8	36	78045
	7	7/8	40	78046
	7	7/8	60	78048
	7	7/8	80	78049
	7	7/8	120	78051
	7	5/8-11	36	78145
	7	5/8-11	40	78146
	7	5/8-11	60	78148
	7	5/8-11	80	78149
	7	5/8-11	120	78151

OVATION® ATTACKER®

Mat'l	Size		Grit	Part No. Ovation® Attacker®
	Dia.	Arbor		
Z Premium Zirconium	4-1/2	7/8	40	76206
	4-1/2	7/8	60	76208
	4-1/2	7/8	80	76209
	4-1/2	7/8	120	76211
	4-1/2	5/8-11	40	76316
	4-1/2	5/8-11	60	76318
	4-1/2	5/8-11	80	76319
	4-1/2	5/8-11	120	76321
	5	7/8	40	76226
	5	7/8	60	76228
	5	7/8	80	76229
	5	7/8	120	76231
	5	5/8-11	40	76336
	5	5/8-11	60	76338
	5	5/8-11	80	76339
	5	5/8-11	120	76341
	6	7/8	40	76236
	6	7/8	60	76238
	6	7/8	80	76239
	6	7/8	120	76241
	6	5/8-11	40	76346
	6	5/8-11	60	76348
	6	5/8-11	80	76349
	6	5/8-11	120	76351
	7	7/8	40	76246
	7	7/8	60	76248
	7	7/8	80	76249
	7	7/8	120	76251
	7	5/8-11	40	76356
	7	5/8-11	60	76358
	7	5/8-11	80	76359
	7	5/8-11	120	76361



APPLICATIONS | Weld grinding and blending • Edge breaking
• Deburring • Finishing and blending • Contour finishing

Regular Density



Angle Grinder

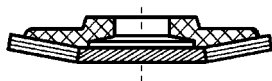
FLAP DISCS

Fiberglass Backing

- Allows for lighter, quieter operation
- Will not splinter or smear on the workpiece
- Backing wears with the abrasives cloth

Saitlam F™ (conical shape - type 29, fiberglass backing)

- Available in 2A, 3A aluminum oxide with grinding aid and Z zirconium
- Fiberglass backing for lighter, more silent operation
- Fiberglass backing will not splinter or smear on the workpiece
- **Backing wears with the abrasive cloth**
- Go from stock removal to finishing with one disc



conical shape



Mat'l	Size		Grit	Part No. Saitlam F™
	Dia.	Arbor		
2A General purpose aluminum oxide	4-1/2	7/8	40	75440
	4-1/2	7/8	50	75450
	4-1/2	7/8	60	75460
	4-1/2	7/8	80	75480
	4-1/2	7/8	120	75420
	4-1/2	5/8-11	40	76440
	4-1/2	5/8-11	50	76450
	4-1/2	5/8-11	60	76460
	4-1/2	5/8-11	80	76480
	4-1/2	5/8-11	120	76420
	5	7/8	40	75540
	5	7/8	50	75550
	5	7/8	60	75560
	5	7/8	80	75580
	5	7/8	120	75520
	5	5/8-11	40	76540
	5	5/8-11	50	76550
	5	5/8-11	60	76560
	5	5/8-11	80	76580
	5	5/8-11	120	76520
3A* Aluminum Oxide with grinding aid	7	7/8	40	75740
	7	7/8	50	75750
	7	7/8	60	75760
	7	7/8	80	75780
	7	7/8	120	75720
	7	5/8-11	40	76740
	7	5/8-11	50	76750
	7	5/8-11	60	76760
	7	5/8-11	80	76780
	7	5/8-11	120	76720
	4-1/2	7/8	40	73341
	4-1/2	7/8	60	73361
	4-1/2	7/8	80	73381
	4-1/2	7/8	120	73321
	4-1/2	5/8-11	40	74341
	4-1/2	5/8-11	60	74361
	4-1/2	5/8-11	80	74381
	4-1/2	5/8-11	120	74321
	5	7/8	40	73804
	5	7/8	60	73806
	5	7/8	80	73808
	5	7/8	120	73802
	5	5/8-11	40	74804
	5	5/8-11	60	74806
	5	5/8-11	80	74808
	5	5/8-11	120	74802
	7	7/8	40	73704
	7	7/8	50	73705
	7	7/8	60	73706
	7	7/8	80	73708
	7	7/8	120	73702
	7	5/8-11	40	74704
	7	5/8-11	50	74705
	7	5/8-11	60	74706
	7	5/8-11	80	74708

RPM's

4-1/2"	13,300
5"	12,200
7"	8,500

Packaging

10/box

Mat'l	Size		Grit	Part No. Saitlam F™
	Dia.	Arbor		
Z Premium Zirconium	4-1/2	7/8	40	73940
	4-1/2	7/8	50	73950
	4-1/2	7/8	60	73960
	4-1/2	7/8	80	73980
	4-1/2	7/8	120	73920
	4-1/2	5/8-11	40	74940
	4-1/2	5/8-11	50	74950
	4-1/2	5/8-11	60	74960
	4-1/2	5/8-11	80	74980
	4-1/2	5/8-11	120	74920
	5	7/8	40	73941
	5	7/8	50	73951
	5	7/8	60	73961
	5	7/8	80	73981
	5	7/8	120	73921
	5	5/8-11	40	74941
	5	5/8-11	50	74951
	5	5/8-11	60	74961
	5	5/8-11	80	74981
	5	5/8-11	120	74921
	7	7/8	40	73942
	7	7/8	50	73952
	7	7/8	60	73962
	7	7/8	80	73982
	7	7/8	120	73922
	7	5/8-11	40	74942
	7	5/8-11	50	74952
	7	5/8-11	60	74962
	7	5/8-11	80	74982
	7	5/8-11	120	74922

* Specially formulated to reduce heat build-up on workpiece

FLAP DISCS

Regular Density



Fiberglass Backing

- Allows for lighter, quieter operation
- Will not splinter or smear on the workpiece
- Backing wears with the abrasives cloth



Saitlam UP™ (flat shape - type 27)

- Flat shape ideal for use on miter joints, corners and edges
- Provides an even “finish ready” surface
- For general purpose stock removal and finishing



Saitlam UK™ (conical shape - type 29)

- Conical shape ideal for working with large surfaces or complex shapes
- Working angle is “built-in”
- For general purpose stock removal and finishing



Mat'l	Size			Part Nos.	
	Dia.	Arbor	Grit	Saitlam UK™	Saitlam UP™
Z Zirconium	4-1/2	7/8	40	73685	73890
	4-1/2	7/8	50	73686	73891
	4-1/2	7/8	60	73687	73892
	4-1/2	7/8	80	73688	73893
	4-1/2	7/8	120	73689	73894
	5	7/8	40	73694	73895
	5	7/8	50	73695	73896
	5	7/8	60	73696	73897
	5	7/8	80	73697	73898
	5	7/8	120	73698	73899
	7	7/8	40	73714	-
	7	7/8	50	73715	-
	7	7/8	60	73716	-
	7	7/8	80	73717	-
	7	7/8	120	73718	-

RPM's

4-1/2"	13,300
5"	12,200
7"	8,500

Packaging
10/box

GENERAL PURPOSE

COATED ABRASIVES

FLAP DISCS

Regular Density



Angle Grinder

FLAP DISCS

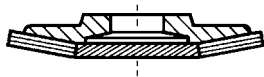
Plastic Backing

- A non-scratching, high strength backing resistant to temperature extremes, common chemicals and solvents



Saitlam K™ (conical shape - type 29)

- Available in 2A aluminum oxide and Z zirconium
- Nylon 6/6 backing - a non-scratching, high strength backing resistant to temperature extremes, common chemicals, and solvents
- Conical shape ideal when working with large surfaces or complex work shapes**
- Working angle is "built in"

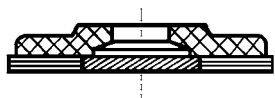


conical shape



Saitlam PN™ (flat shape - type 27)

- Flat shape ideal for use on miter joints, corners and edges**
- Provides an even "finish ready" surface**
- For general purpose stock removal and finishing

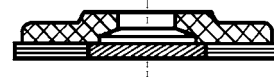


flat shape



Saitlam™ (flat shape - type 27)

- Available in 2A aluminum oxide, 3A aluminum oxide with grinding aid, and Z zirconium
- Nylon 6/6 backing** - a non-scratching, high strength backing resistant to temperature extremes, common chemicals, and solvents
- Provides an even "finish ready" surface
- Excellent for miter joints, corners, and edges



flat shape

Saitlam K™ / Saitlam PN™

Mat'l	Size		Grit	Saitlam K™ Part No.	Saitlam PN™ Part No.
	Dia.	Arbor			
2A General purpose alum oxide	4-1/2	7/8	40	73490	-
	4-1/2	7/8	60	73491	-
	4-1/2	7/8	80	73492	-
	4-1/2	7/8	120	73493	-
Z Premium Zirconium	4-1/2	7/8	40	73590	73502
	4-1/2	7/8	50	73591	73503
	4-1/2	7/8	60	73592	73504
	4-1/2	7/8	80	73593	73505
	4-1/2	7/8	120	-	73506

Tech INFO

RPM's for

Saitlam™ / Saitlam K™ / Saitlam PN™

4"	13,000
4-1/2"	11,000
6-1/2"	8,600

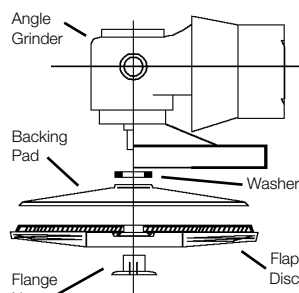
- NOTE:**
- 4" and 4-1/2" Saitlam™ and Saitlam K™ must be used with nut
 - 6-1/2" must be used with backing pad and nut

See page 146 for additional pads and nuts

Packaging

4"	10/box with nut
4-1/2"	10/box with nut
6-1/2"	10/box with nut and backing pad

PROPER MOUNTING



Saitlam™

Mat'l	Size		Grit	Part No.
	Dia.	Arbor		
2A General purpose aluminum oxide	4	5/8	40	73240
	4	5/8	60	73260
	4	5/8	80	73280
	4	5/8	120	73220
	4-1/2	7/8	40	73440
	4-1/2	7/8	60	73460
	4-1/2	7/8	80	73480
	4-1/2	7/8	120	73420
	6-1/2	7/8	36	73636
	6-1/2	7/8	50	73650
	6-1/2	7/8	60	73660
	6-1/2	7/8	80	73680
3A* Aluminum Oxide with grinding aid	6-1/2	7/8	120	73620
	4	5/8	40	73040
	4	5/8	60	73060
	4	5/8	80	73080
	4	5/8	120	73020
	4-1/2	7/8	40	73340
	4-1/2	7/8	60	73360
	4-1/2	7/8	80	73380
	4-1/2	7/8	120	73320
	6-1/2	7/8	36	73836
	6-1/2	7/8	50	73850
	6-1/2	7/8	60	73860
Z Premium Zirconium	6-1/2	7/8	80	73880
	6-1/2	7/8	120	73820
	4	5/8	40	73140
	4	5/8	50	73150
	4	5/8	60	73160
	4	5/8	80	73180
	4-1/2	7/8	40	73540
	4-1/2	7/8	50	73550
	4-1/2	7/8	60	73560
	4-1/2	7/8	80	73580
	6-1/2	7/8	36	73736
	6-1/2	7/8	50	73750
	6-1/2	7/8	60	73760
	6-1/2	7/8	80	73780

* Specially formulated to reduce heat build-up on workpiece

FLAP WHEELS

Small Diameter



Die Grinder

Mat'l	Size		Grit	Part Number	
	Dia.	Width		1/4	1/4-20 Threaded
2A General purpose aluminum oxide	1	3/4	60	70001	71000
	1	3/4	80	70002	71001
	1	3/4	120	70003	71002
	1	3/4	180	70004	71003
	1	3/4	240	70005	71004
	1	1	60	70010	71010
	1	1	80	70011	71011
	1	1	120	70012	71012
	1	1	180	70013	71013
	1	1	240	70014	71014
	1-1/2	1/2	40	70024	-
	1-1/2	1/2	60	70025	71020
	1-1/2	1/2	80	70026	71021
	1-1/2	1/2	120	70027	71022
	1-1/2	1/2	180	70028	71023
	1-1/2	1/2	240	70029	71024
	1-1/2	1	60	70040	71030
	1-1/2	1	80	70041	71031
	1-1/2	1	120	70042	71032
	1-1/2	1	180	70043	71033
	1-1/2	1	240	70044	71034
	2	1	40	70049	-
	2	1	60	70050	71040
	2	1	80	70051	71041
	2	1	120	70052	71042
	2	1	180	70053	71043
	2	1	240	70054	71044
	2-1/2	1/2	60	70060	71050
	2-1/2	1/2	80	70061	71051
	2-1/2	1/2	120	70062	71052
	2-1/2	1/2	180	70063	71053
	2-1/2	1/2	240	70064	71054
	2-1/2	1	40	70069	-
	2-1/2	1	60	70070	71055
	2-1/2	1	80	70071	71056
	2-1/2	1	120	70072	71057
	2-1/2	1	180	70073	71058
	2-1/2	1	240	70074	71059
3A Aluminum Oxide with grinding aid	3	1/2	60	70080	71060
	3	1/2	80	70081	71061
	3	1/2	120	70082	71062
	3	1/2	180	70083	71063
	3	1/2	240	70084	71064
	3	3/4	60	70090	71070
	3	3/4	80	70091	71071
	3	3/4	120	70092	71072
	3	3/4	180	70093	71073
	3	3/4	240	70094	71074
	3	1	40	70099	-
	3	1	60	70100	71080
	3	1	80	70101	71081
	3	1	120	70102	71082
	3	1	180	70103	71083
	3	1	240	70104	71084
	3	2	40	70110	-
	3	2	60	70111	-
	3	2	80	70112	-
	3	2	120	70113	-
	2	1	60	74050	71160
	2	1	80	74051	71161
	2	1	120	74052	71162
	2-1/2	1	60	74060	71170
	2-1/2	1	80	74061	71171
	2-1/2	1	120	74062	71172
	3	1	60	74070	71180
	3	1	80	74071	71181
	3	1	120	74072	71182

Aluminum Oxide 2A

- Premium aluminum oxide grain
- General purpose**
- Excellent for cleaning, deburring, polishing, blending

METAL Ferrous and/or non-ferrous metals (iron, steel, aluminum, copper, etc.)

WOOD Wood, plastic, fiberglass, etc.

Aluminum Oxide with Grinding Aid 3A

- Premium aluminum oxide grain with grinding aid
- Excellent for reducing heat build-up on heat sensitive materials**
- Excellent for cleaning, deburring, polishing, blending

STAINLESS Stainless steel, high tensile steel, titanium

METAL Ferrous and/or non-ferrous metals

Straight 1/4" and threaded 1/4-20 mandrels available

See page 146 for 1/4-20 adapter

Packaging

10/box



COATED ABRASIVES

FLAP WHEELS

Tech
INFO

- Resin over resin construction for a strong bond resistant to heat and moisture
- Closed coat structure for more material removal
- High quality Egyptian cotton cloth backing provides superior durability
- UPC bar coded labeled boxes for easy identification and inventory maintenance



Aluminum Oxide 2A

- Premium aluminum oxide grain
- **General purpose**
- Excellent for cleaning, deburring, polishing, blending

METAL

Ferrous and/or non-ferrous metals
(iron, steel, aluminum, copper, etc.)

WOOD

Wood, plastic, fiberglass, etc.

Aluminum Oxide 3A with Grinding Aid

- Premium aluminum oxide grain with grinding aid
- **Excellent for reducing heat build-up on heat sensitive materials**
- Excellent for cleaning, deburring, polishing, blending

STAINLESS

Stainless steel, high tensile steel, titanium

METAL

Ferrous and non-ferrous metals

Mat'l	Size			Max RPM	Grits Available	Part No.
	Dia.	Width	Spindle			
2A Premium aluminum oxide	6	1	1	6,000	60	72000
	6	1	1	6,000	80	72001
	6	1	1	6,000	100	72002
	6	1	1	6,000	120	72003
	6	1-1/2	1	6,000	60	72020
	6	1-1/2	1	6,000	80	72021
	6	1-1/2	1	6,000	100	72022
	6	1-1/2	1	6,000	120	72023
	6	2	1	6,000	60	72030
	6	2	1	6,000	80	72031
	6	2	1	6,000	100	72032
	6	2	1	6,000	120	72033
	8	1	1	4,400	60	72040
	8	1	1	4,400	80	72041
	8	1	1	4,400	100	72042
	8	1	1	4,400	120	72043
	8	2	1	4,400	60	72050
	8	2	1	4,400	80	72051
	8	2	1	4,400	100	72052
	8	2	1	4,400	120	72053
3A Premium aluminum oxide with grinding aid	6	1	1	6,000	60	72005
	6	1	1	6,000	80	72006
	6	1	1	6,000	100	72007
	6	1	1	6,000	120	72008
	6	1-1/2	1	6,000	60	72025
	6	1-1/2	1	6,000	80	72026
	6	1-1/2	1	6,000	100	72027
	6	1-1/2	1	6,000	120	72028
	6	2	1	6,000	60	72035
	6	2	1	6,000	80	72036
	6	2	1	6,000	100	72037
	6	2	1	6,000	120	72038



Quick Tip

Slower speeds = better
flap wheel performance
and life.

See page 146 for:

1"-5/8" bushing - #95109

1/4" shank adapter kit - #95009

Packaging

6" 5/box

8" 3/box

Tech
INFO

- Resin over resin construction for a strong bond resistant to heat and moisture
- Closed coat structure for more material removal
- High quality Egyptian cotton cloth backing provides superior durability
- Label UPC bar coded for easy identification and inventory maintenance

SHEETS INTRODUCTION



- Full product offering of cloth and paper sheets in a variety of sizes and materials to fit your needs.
- Whether you are working by hand or with mechanical assistance, these products are sure to exceed your expectations.



Ultimate Performance Paper Sheets (pg. 98-99):

- Highest quality industrial paper.
- Available in:
 - Aluminum oxide (AW-C and AW-D)
 - Premium stearate aluminum oxide (4S)
 - Stearate aluminum oxide (3S)
 - Silicon carbide (CW-C)
 - Garnet



Premium Cloth 9 X 11 sheets (pg. 98):

- Highest quality cloth sheet.
- Made from SAIT DA-F material.
- Very flexible while maintaining the highest durability.
- Open coat design.



Saitscreen™ 9 X 11 sheets (pg. 102):

- Cloth screen impregnated with silicon carbide grain.
- Non-loading, wet/dry design.



Fileboard sheets (pg. 100-101):

- For use on straight line machine and hand held files with clip-on design and PSA design.
- Available in:
 - Clip on design (2-3/4" x 17-1/2") with our 4S premium aluminum oxide and stearate silicon carbide grain.
 - PSA (2-3/4" x 16-1/2") and PSA Roll with our 4S premium aluminum oxide stearate material.
 - Zirconium (Z-F) material is available in PSA and hook & loop (2-3/4" x 16-1/2") and clip on design.



Dry Wall Sheets (pg. 102):

- Premium products to fit plaster and dry wall joint applications.
- Available in Saitscreen™ cloth screen and silicon carbide paper sheets and rolls.



Sponges (pg. 103):

- Premium quality sanding sponges for top performance.
- Available in: • 1" sanding blocks • 1/2" fabric reinforced • 5mm contour pads.



**Cloth
Sheets**



**Paper
Sheets**

Aluminum Oxide (DA-F)

- Aluminum oxide grain on a flexible cloth backing
- Open coat structure prevents loading
- Water resistant
- Long life combined with excellent stock removal
- **Excellent for woodworking applications**

WOOD Wood, plastic, fiberglass

METAL Ferrous and/or non-ferrous materials (iron, steel, copper, etc.)

- Available in F-weight - high flexibility

	Size	Grit	Part No.	Std Pkg.
Aluminum Oxide	9 x 11 DA-F	36	84907	25
		40	84908	25
		50	84909	25
		60	84910	25
		80	84911	25
		100	84912	50
		120	84913	50
		150	84914	50
		180	84915	50
		220	84916	50
		240	84917	50
		320	84918	50

Aluminum Oxide (AW-C & AW-D)

- Extremely long lasting
- Open coat structure prevents loading
- Use wet or dry

WOOD Wood, sealers, fillers

METAL Ferrous and/or non-ferrous metals

- Available in grits up to 1200 for ultra fine finishing
- Available in weights: "C"-medium weight, medium flexibility
"D"-heavy weight, low flexibility

Garnet

- Natural garnet grain
- Open coat structure prevents loading
- Use dry only

WOOD Soft woods

- Available in weights: "A"-light weight, high flexibility
"C"-medium weight, medium flexibility
"D"-heavy weight, low flexibility

	Size	Grit Wgt.	Part No.	Std Pkg.
Aluminum Oxide	9 x 11 AW-D	40D	84211	100
		50D	84212	100
		60D	84213	100
		80D	84214	100
		100D	84215	100
		120D	84216	100
		150C	84200	100
Aluminum Oxide	9 x 11 AW-C	180C	84201	100
		220C	84202	100
		240C	84203	100
		320C	84204	100
		400C	84205	100
		500C	84206	100
		600C	84207	100
		800C	84208	100
		1200C	84209	100
Garnet	9 x 11	50D	84101	50
		60D	84102	50
		80D	84103	50
		100C	84104	100
		120C	84105	100
		180A	84107	100
		220A	84108	100

**Tech
INFO**

- Resin over resin construction for a strong bond resistant to heat and moisture
- Cloth backing for durability and flexibility
- Box label UPC bar coded for easy identification and inventory maintenance
- Our highest quality industrial paper for extra durability on all applications
- Broad assortment of grit sizes for a wide range of sanding and finishing applications
- Strong resin over resin bond construction is resistant to heat and moisture



Premium Stearate Aluminum Oxide (4S)

- Premium aluminum oxide
- **Stearate coating and open coat structure lubricates and prevents loading**
- Long lasting performance and fast removal rates for fine finishing of automotive body works and wood finishing
- Use dry only
- Available in C-weight - medium weight, low flexibility

WOOD Body filler, paint, fiberglass, wood and fiberglass

METAL Ferrous and non-ferrous metals

Stearate Aluminum Oxide (3S)

- Extremely long lasting
- **Open coat structure prevents loading**
- Use dry only

WOOD Sealers, body filler, paint, fiberglass, wood

METAL Aluminum

- Available in grits up to 500 for fine finishing
- Available in C-weight - medium weight, medium flexibility

Stearate Aluminum Oxide	Size	Grit Wgt.	Part No.		Std Pkg.
			3S	4S	
9 x 11		80C	84230	84283	100
		100C	84231	84284	100
		120C	84232	84285	100
		150C	84233	84286	100
		180C	84234	84287	100
		220C	84235	84288	100
		240C	84236	84289	100
		320C	84237	84290	100
		400C	84238	84291	100
		500C	84239	84292	100
		600C	-	84293	100



COATED ABRASIVES

SHEETS

Waterproof Silicon Carbide (CW-C)

- Extremely long lasting
- **Closed coat structure for more material removal**
- Use wet or dry

WOOD Varnish, plastic, fiberglass, clear coat, primer

CONCRETE Marble, ceramics

METAL Ferrous and/or non-ferrous metals

- Available in grits up to 2000 for ultra fine finishing
- Available in C-weight - medium weight, medium flexibility

Waterproof Silicon Carbide

Size	Grit Wgt.	Part No.	Std Pkg.
9 x 11 CW-C	80C	84249	100
	100C	84250	100
	120C	84251	100
	150C	84252	100
	180C	84253	100
	220C	84254	100
	240C	84255	100
	320C	84256	100
	400C	84257	100
	500C	84258	100
	600C	84259	100
	800C	84260	100
5-1/2 x 9 CW-C	1200C	84261	100
	1000C	84270	50
	1200C	84271	50
	1500C	84274	50
	2000C	84277	50



4S Premium Fileboard Sheets/Rolls

- EXCELS ON PAINTED SURFACES
- Premium Aluminum Oxide grain
- Top quality stearate coating and open coat structure lubricates and prevents loading
- Best choice for auto body applications
- Roll form allows user to cut roll as needed
- Available in PSA, hook & loop, Clip-on and Rolls



3S PSA Fileboard Sheets

- AUTOBODY AND BARE METAL APPLICATIONS
- Aluminum Oxide grain
- Stearate coating and open coat structure lubricates and prevents loading
- Excellent choice for general auto body work

WOOD Auto body filler, paint and fiberglass

METAL Ferrous and/or non-ferrous metals

4S PSA

4S H&L

4S Clip-on

4S PSA Rolls

3S PSA

Size	Grit Wgt.	Part No.	Std Pkg.
2-3/4 x 16-1/2	80	84351	25
	100	84352	25
	120	84353	25
	150	84354	25
	180	84355	25
	220	84356	25
	320	84359	25
	400	84360	25
2-3/4 x 16-1/2	80	84371	25
	100	84372	25
	120	84373	25
	150	84374	25
	180	84375	25
	220	84376	25
	320	84379	25
	400	84380	25
2-3/4 x 17-1/2	80	84331	25
	100	84332	25
	120	84333	25
	150	84334	25
	180	84335	25
	220	84336	25
	320	84339	25
	400	84340	25
2-3/4 x 25 yds.	80	34770	1
	120	34772	1
	150	34773	1
	180	34774	1
	220	34775	1
	280	34776	1
	320	34777	1
2-3/4 x 16-1/2	80C	84113	25
	100C	84114	25
	120C	84115	25
	150C	84116	25
	180C	84117	25



Tech
INFO

- Standard sizes for use in straight inline sanders and hand files with clip-on, PSA and hook and loop designs
- Available in 3 grain types
- High loft hook and loop backing provides optimum attachment
- For dry use only



Zirconium Fileboard Sheets (Z-F)

- Premium Zirconium grain for aggressive stock removal and sanding
- Heavy duty F-weight prevents torn edges which produce deep, uneven, random scratches
- Best choice for heavy sanding and shaping on contours
- Available in hook and loop, PSA, and clip-on

Aluminum Oxide clip-on Fileboard Sheets

- Aluminum Oxide grain
- Open coat structure prevents loading

Silicon Carbide No Load

- Silicon Carbide grain
- Stearate coating to reduce loading



WOOD Auto body filler, paint and fiberglass

METAL Ferrous and/or non-ferrous metals



	Size	Grit Wgt.	Part No.	Std Pkg.
Z-F PSA	2-3/4	40	83110	25
	x	80	83113	25
Z-F H&L	16-1/2	40	83140	25
	x	80	83143	25
Z-F clip-on	2-3/4	40	83170	25
	x	80	83173	25
Aluminum Oxide	2-3/4	36D	84170	50
	x	40D	84171	50
	17-1/2	60D	84172	100
		80D	84173	100
		100C	84174	100
No Load	2-3/4 x 17-1/2	180B	84185	200

**Tech
INFO**

- Standard sizes for use in straight inline sanders and hand files with clip-on, PSA and hook and loop designs
- Available in 3 grain types
- High loft hook and loop backing provides optimum attachment
- For dry use only

COATED
ABRASIVES

SHEETS



Hand Sanding



Rolls



Dry Wall Sander

Saitscreen™

- Strong cloth screen impregnated with silicon carbide grain
- Open coat structure prevents loading
- Use wet or dry
- **Extremely long lasting**
- Double sided and die cut

WOOD Plaster, dry wall joints

Paper

- Aluminum oxide grain
- Paper backing
- Open coat structure prevents loading
- Use dry
- **Provides a smooth finish**
- Easy-to-handle rolls for on-the-job "cut to size" use

WOOD Plaster, dry wall joints

Saitscreen™ 9 x 11 Sheets

- Cloth screen impregnated with silicon carbide grain
- Use wet or dry
- Non-loading
- **Strong, long lasting**

WOOD Body filler, paint, fiberglass

CONCRETE Ceramic, marble, cement

METAL Ferrous and/or non-ferrous metals



Size	Grit Wgt.	Part No.	Std Pkg.
Saitscreen™	80	84070	50
4-3/16 x 11	100	84071	50
Diecut	220	84075	50
	80C	84066	100
Paper	100C	84067	100
3-5/16 x 11	120C	84068	100
	150C	84069	100
	80C	84051	100
Paper	100C	84050	100
4-3/16 x 11	120C	84052	100
Diecut	150C	84053	100
	80C	84056	1
Paper	100C	84057	1
3-5/16	120C	84058	1
x 50 yds.	150C	84059	1
	80	84076	25
Saitscreen™	100	84077	25
9 x 11	120	84078	25
	150	84079	25

Tech INFO

- Available in screen or paper sheets offering the best product for your application
- Open coat structures on both backings prevents clogging and loading in extreme applications



Sanding Sponges

- Premium abrasive grain on a soft, foam backing
- Foam backing provides ultimate conformability and is washable for long life
- For use on wood moldings, metal contours, drywall sanding, and paint removal applications

WOOD Hardwoods and softwoods, plastic, paint fiberglass, auto body filler, and drywall compounds

METAL Ferrous and/or non-ferrous metals



Hi Density Sanding Block

Contour Sanding Pad

Fabric Reinforced Sanding Pad

Size	Grit Available	Part Nos.	Qty Per Box
1"	60	86355	24
	80	86356	24
	100	86357	24
	120	86359	24
	180	86360	24
5 mm	60	86445	100
	100	86447	100
	180	86450	100
	280	86451	100
1/2"	60	86475	24
	100	86477	24
	150	86479	24
	180	86480	24
	220	86481	24

- Sanding sponges can be used wet or dry for fine finishing and can be washed to extend cutting life (just wash with water)
- In general, the finish of sanding sponges will be finer than traditional coated abrasives
- Due to the ability to conform to different shapes, sanding sponges are able to sand and finish in hard to reach areas



Industrial Rolls - EA-F

- Aluminum oxide grain
- Premium quality EA-F material for very high flexibility
- High tensile strength, extra durable backing
- Long life
- Primarily for machine applications

METAL

Ferrous and/or non-ferrous metals (iron, aluminum, copper, normal and high tensile steel)

WOOD

Wood, fiberglass, etc.

Handy Rolls - DA-F

- Aluminum oxide grain
- High quality DA-F material for high flexibility
- Medium tensile strength
- Primarily for hand applications

METAL

Ferrous and/or non-ferrous materials (iron, aluminum, copper, normal and high tensile steel)

WOOD

Wood, fiberglass, etc.



EA-F Industrial Rolls

Size Width	Grit	Part No.
1"	40	80415
	50	80515
	60	80615
	80	80815
	100	81015
	120	81215
	150	81515
	180	81815
	220	82215
	240	82415
1-1/2"	320	83215
	400	83415
	40	80416
	50	80516
	60	80616
	80	80816
	100	81016
	120	81216
	150	81516
	180	81816
2"	220	82216
	240	82416
	320	83216
	400	83416
	40	80430
	50	80530
	60	80630
	80	80830
	100	81030
	120	81230
	150	81530
	180	81830
	220	82230
	240	82430
	320	83230
	400	83430

DA-F Handy Rolls

Size Width	Grit	Part No.
1"	40	80405
	50	80505
	60	80605
	80	80805
	100	81005
	120	81205
	150	81505
	180	81805
	220	82205
	240	82405
1-1/2"	320	83205
	400	83405
	40	80406
	50	80506
	60	80606
	80	80806
	100	81006
	120	81206
	150	81506
	180	81806
2"	220	82206
	240	82406
	320	83206
	400	83406
	40	80420
	50	80520
	60	80620
	80	80820
	100	81020
	120	81220
	150	81520
	180	81820
	220	82220
	240	82420
	320	83220
	400	83420

Packaging

50 yd length, 1/box

Tech
INFO

- Resin over resin construction for a strong bond resistant to heat and moisture
- Egyptian cotton cloth backing for superior durability
- Available in 2 tensile strengths for a wide range of applications
- Open coat structure prevents loading
- Box label UPC bar coded for easy identification and inventory maintenance



DA-F Mini Shop Rolls

- Aluminum oxide grain
- DA-F material for high flexibility
- Open coat structure prevents loading
- For hand applications

METAL	Ferrous and/or non-ferrous materials
WOOD	Wood, fiberglass, etc.

Packaging
10 yard lengths

DA-F Mini Shop Rolls

Size	Grit	Part No.
1-1/2" x 10 yds.	60	80607
	80	80807
	120	81207
	180	81807



EA-F Custom Rolls

- Premium quality EA-F material for very high flexibility used in industrial rolls
- Open coat structure prevents loading

DA-F Custom Rolls

- Flexible DA-F material used in handy rolls
- Open coat structure prevents loading

METAL	Ferrous and/or non-ferrous materials
WOOD	Wood, fiberglass, etc.

Can be slit up to 3 cuts, 3" minimum width
Specify widths when ordering

Packaging
50 yard lengths

DA-F Custom Rolls

Size Width	Grit	Part No.
12"	40	81440
	50	81450
	60	81460
	80	81480
	100	81410
	120	81412
	150	81415
	180	81418
	220	81422
	240	81424
	320	81432
	400	81404

EA-F Custom Rolls

Size Width	Grit	Part No.
12"	40	81640
	50	81650
	60	81660
	80	81680
	100	81610
	120	81612
	150	81615
	180	81618
	220	81622
	240	81624
	320	81632
	400	81604

**Tech
INFO**

- Resin over resin construction for a strong bond resistant to heat and moisture
- Egyptian cotton cloth backing for superior durability
- Available in 2 tensile strengths for a wide range of applications
- Open coat structure prevents loading
- Box label UPC bar coded for easy identification and inventory maintenance

COATED
ABRASIVES

SHOP ROLLS



Saitscreen™ Rolls

- Silicon carbide grain
- Long life
- Waterproof
- Non-loading screen cloth

METAL Ferrous and/or non-ferrous metals
(steel, solder, copper)

CONCRETE Ceramic

WOOD Wood, paint, etc.

Individually packaged rolls

Saitscreen™ Rolls	Size Width	Grit	Part No.
	1-1/2" x 5 yds.	80	84089
		120	84092
		180	84095
	1-1/2" x 10 yds.	80	84090
		120	84093
		180	84096
	1-1/2" x 25 yds.	80	84091
		120	84094
		180	84097



Plumber Rolls

- Aluminum oxide grain
- Open coat structure prevents loading
- Use dry only
- Excellent for cleaning pipe ends

METAL Ferrous and/or non-ferrous materials,
copper piping

Packaged 1/box

Plumber Rolls

Size Width	Grit	Part No.
1-1/2" x 25 yds	120	80000



Tech
INFO

Saitscreen™ Rolls

- Double sided for long life
- Box label UPC bar coded for easy identification and inventory maintenance

Plumber Rolls

- Box label UPC bar coded for easy identification and inventory maintenance
- Cloth backed for durability and flexibility



TA-X

Premium Aluminum Oxide Grain

- Excellent for removing parting lines, imperfections, and burrs on all surfaces
- Great in curved, corner, contoured, and hard to reach areas

METAL Ferrous and/or non-ferrous metals

STAINLESS Stainless steel, high tensile steel, wood

See page 147 for Drums



Spiral Bands

Size	Grit	Max RPM	Part Nos.	Qty Per Box
1/2 x 1/2	60	30,000	42001	100
	80	30,000	42002	100
	120	30,000	42003	100
1/2 x 1	60	15,000	42006	100
	80	15,000	42007	100
	120	15,000	42008	100
1/2 x 1-1/2	60	12,000	42011	100
	80	12,000	42012	100
	120	12,000	42013	100
3/4 x 1	36	19,000	42016	100
	60	19,000	42017	100
	80	19,000	42018	100
	120	19,000	42019	100
3/4 x 1-1/2	60	10,000	42022	100
	80	10,000	42023	100
	120	10,000	42024	100
1 x 1	36	18,000	42027	100
	60	18,000	42028	100
	80	18,000	42029	100
	120	18,000	42030	100
1-1/2 x 1	36	14,000	42033	100
	60	14,000	42034	100
	80	14,000	42035	100
	120	14,000	42036	100
1-1/2 x 1-1/2	36	10,000	42039	100
	60	10,000	42040	100
	80	10,000	42041	100
	120	10,000	42042	100
2 x 2	36	6,000	42045	50
	60	6,000	42046	50
	80	6,000	42047	50
	120	6,000	42048	50
3 x 3	36	3,000	42051	50
	60	3,000	42052	50
	80	3,000	42053	50
	120	3,000	42054	50



COATED
ABRASIVES

SPECIALTIES

Tech
INFO

- Single ply of coated abrasive, spirally wound and bonded to an inner liner
- Quick removal and installation
- Smooth running for ease of use and control

Cartridge Rolls



Die Grinder

SPECIALTIES

TA-X - Straight

Premium Aluminum Oxide Grain

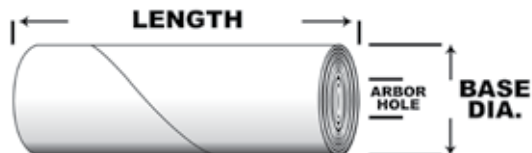
- Excellent for sanding and polishing channels, fillets, recesses, side walls, and bottoms of dead-end holes
- Great for high speed deburring and flash removal

METAL Ferrous and/or non-ferrous metals

STAINLESS Stainless steel, high tensile steel

Packaging 100/box

See page 147 for Cartridge Roll mandrels



Size B x L x A	Grit	Max RPM	Cartridge Roll Part Nos.	Mandrel Part Nos.
3/16 x 1 x 3/32	80	26,000	38001	95108
	120	26,000	38003	95108
1/4 x 1 x 1/8	60	26,000	38007	95105
	80	26,000	38008	95105
	120	26,000	38010	95105
	320	26,000	38013	95105
1/4 x 1-1/2 x 1/8	60	26,000	38014	95104
	80	26,000	38015	95104
	120	26,000	38017	95104
	240	26,000	38019	95104
1/4 x 2 x 1/8	60	26,000	38021	95103
	80	26,000	38022	95103
	120	26,000	38023	95103
5/16 x 1 x 1/8	60	26,000	38027	95105
	80	26,000	38028	95105
	120	26,000	38029	95105
5/16 x 1-1/2 x 1/8	60	26,000	38033	95104
	80	26,000	38034	95104
3/8 x 1 x 1/8	60	26,000	38040	95105
	80	26,000	38041	95105
	120	26,000	38043	95105
3/8 x 1-1/2 x 1/8	50	26,000	38047	95104
	60	26,000	38048	95104
	80	26,000	38049	95104
	120	26,000	38051	95104
3/8 x 2 x 1/8	60	26,000	38055	95103
	80	26,000	38056	95103
	120	26,000	38058	95103
1/2 x 1 x 1/8	50	26,000	38062	95105
	60	26,000	38063	95105
	80	26,000	38064	95105
	120	26,000	38066	95105

Size B x L x A	Grit	Max RPM	Cartridge Roll Part Nos.	Mandrel Part Nos.
	36	26,000	38070	95104
	40	26,000	38071	95104
1/2 x 1-1/2 x 1/8	50	26,000	38072	95104
	60	26,000	38073	95104
	80	26,000	38074	95104
	120	26,000	38076	95104
1/2 x 2 x 1/8	60	26,000	38080	95103
	80	26,000	38081	95103
	120	26,000	38083	95103
1/2 x 2 x 3/16	60	26,000	38087	95106
	80	26,000	38088	95106
	120	26,000	38089	95106
5/8 x 1-1/2 x 1/8	60	18,000	38093	95104
	80	18,000	38094	95104
	120	18,000	38095	95104
3/4 x 1-1/2 x 3/16	40	18,000	38112	95107
	60	18,000	38113	95107
	80	18,000	38114	95107
	120	18,000	38115	95107
3/4 x 2 x 3/16	40	18,000	38119	95106
	60	18,000	38120	95106
	80	18,000	38121	95106
	120	18,000	38122	95106
1 x 1-1/2 x 1/4	60	18,000	38126	95102
	80	18,000	38127	95102
	120	18,000	38128	95102
1 x 2 x 1/4	60	18,000	38132	95101
	80	18,000	38133	95101
	120	18,000	38134	95101

Tech
INFO

- Multi-layer, self dressing construction - exposes sharp, new cutting abrasive as each layer wears away
- Available in straight and full taper designs - long lasting performance
- Quick removal and installation - less downtime



Die Grinder

TA-X - Full Taper

Premium Aluminum Oxide Grain

- Excellent for sanding and polishing channels, fillets, recesses, side walls, and bottoms of dead-end holes
- Great for high speed deburring and flash removal

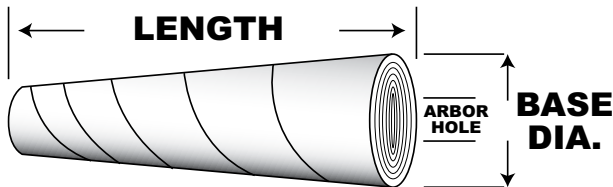
METAL Ferrous and/or non-ferrous metals

STAINLESS Stainless steel, high tensile steel

Packaging

100/box

See page 147 for Cartridge Roll mandrels



Base Dia.	Size		Grit	Max RPM	Cartridge Roll Part Nos.	Mandrel Part Nos.
	Length	Arbor Hole				
3/8	1	1/8	60	26,000	38300	95105
3/8	1	1/8	80	26,000	38301	95105
3/8	1	1/8	120	26,000	38302	95105
3/8	1-1/2	1/8	60	26,000	38306	95104
3/8	1-1/2	1/8	80	26,000	38307	95104
3/8	1-1/2	1/8	120	26,000	38308	95104
1/2	1	1/8	60	26,000	38312	95105
1/2	1	1/8	80	26,000	38313	95105
1/2	1	1/8	120	26,000	38314	95105
1/2	1-1/2	1/8	50	26,000	38318	95104
1/2	1-1/2	1/8	60	26,000	38319	95104
1/2	1-1/2	1/8	80	26,000	38320	95104
1/2	1-1/2	1/8	120	26,000	38322	95104
1/2	2	1/8	60	26,000	38326	95103
1/2	2	1/8	80	26,000	38327	95103
1/2	2	1/8	120	26,000	38328	95103
5/8	2	1/8	60	18,000	38332	95103
5/8	2	1/8	80	18,000	38333	95103
5/8	2	1/8	120	18,000	38334	95103
3/4	1-1/2	1/8	60	18,000	38338	95104
3/4	1-1/2	1/8	80	18,000	38339	95104
3/4	1-1/2	1/8	120	18,000	38340	95104
3/4	2	3/16	60	18,000	38344	95106
3/4	2	3/16	80	18,000	38345	95106
3/4	2	3/16	120	18,000	38346	95106

COATED
ABRASIVES

SPECIALTIES

Tech
INFO

- Multi-layer, self dressing construction - exposes sharp, new cutting abrasive as each layer wears away
- Available in straight and full taper designs - long lasting performance
- Quick removal and installation - less downtime



Die Grinder

Cross Pads

Size	Mandrel Size	Grit	Recommended RPM Range	Max RPM	Part No.	Qty Per Box
1 x 3/8	3-48	60	20,000-23,000	25,000	48036	50
	3-48	80	20,000-23,000	25,000	48037	50
	3-48	120	20,000-23,000	25,000	48038	50
1-1/2 x 1/2	8-32	60	19,000-20,000	23,000	48041	50
	8-32	80	19,000-20,000	23,000	48042	50
	8-32	120	19,000-20,000	23,000	48043	50
2 x 1/2	8-32	60	19,000-20,000	23,000	48046	50
	8-32	80	19,000-20,000	23,000	48047	50
	8-32	120	19,000-20,000	23,000	48048	50
2 x 1	1/4-20	60	19,000-20,000	23,000	48051	50
	1/4-20	80	19,000-20,000	23,000	48052	50
	1/4-20	120	19,000-20,000	23,000	48053	50
3 x 1	1/4-20	60	10,000-12,000	14,000	48056	50
	1/4-20	80	10,000-12,000	14,000	48057	50
	1/4-20	120	10,000-12,000	14,000	48058	50
4 x 1	1/4-20	60	9,000-10,000	14,000	48061	50
	1/4-20	80	9,000-10,000	14,000	48062	50
	1/4-20	120	9,000-10,000	14,000	48063	50

TA-X

Premium Aluminum Oxide Grain

- Excellent for deburring tubing, blending radii, polishing inside contours, and polishing and finishing bell-mouth configurations, drop forge and Kirksite dies

METAL

Ferrous and/or non-ferrous metals

STAINLESS

Stainless steel, high tensile steel



See page 147 for mandrels

Square Pads

Size	Mandrel Size	Grit	Recommended RPM Range	Max RPM	Part No.	Qty Per Box
1-1/2 x 1/4	8-32	60	19,000-20,000	23,000	48001	50
	8-32	80	19,000-20,000	23,000	48002	50
	8-32	120	19,000-20,000	23,000	48003	50
1-1/2 x 1/2	1/4-20	60	19,000-20,000	23,000	48006	50
	1/4-20	80	19,000-20,000	23,000	48007	50
	1/4-20	120	19,000-20,000	23,000	48008	50
2 x 1/4	8-32	60	19,000-20,000	23,000	48011	50
	8-32	80	19,000-20,000	23,000	48012	50
	8-32	120	19,000-20,000	23,000	48013	50
2 x 1/2	1/4-20	60	19,000-20,000	23,000	48016	50
	1/4-20	80	19,000-20,000	23,000	48017	50
	1/4-20	120	19,000-20,000	23,000	48018	50
2 x 3/4	1/4-20	60	19,000-20,000	23,000	48021	50
	1/4-20	80	19,000-20,000	23,000	48022	50
	1/4-20	120	19,000-20,000	23,000	48023	50
3 x 1/4	1/4-20	60	10,000-12,000	14,000	48026	50
	1/4-20	80	10,000-12,000	14,000	48027	50
	1/4-20	120	10,000-12,000	14,000	48028	50
3 x 1/2	1/4-20	60	10,000-12,000	14,000	48031	50
	1/4-20	80	10,000-12,000	14,000	48032	50
	1/4-20	120	10,000-12,000	14,000	48033	50

TA-X

Premium Aluminum Oxide Grain

- Excellent for grinding and blending on channels, fillets and corners, spotting on flat surfaces, and blending welds inside of pipes

METAL

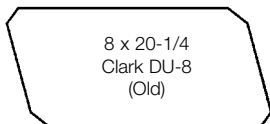
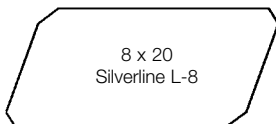
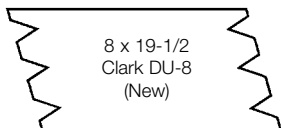
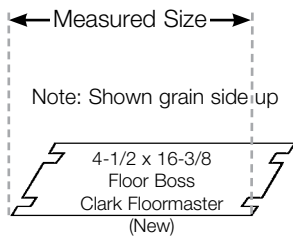
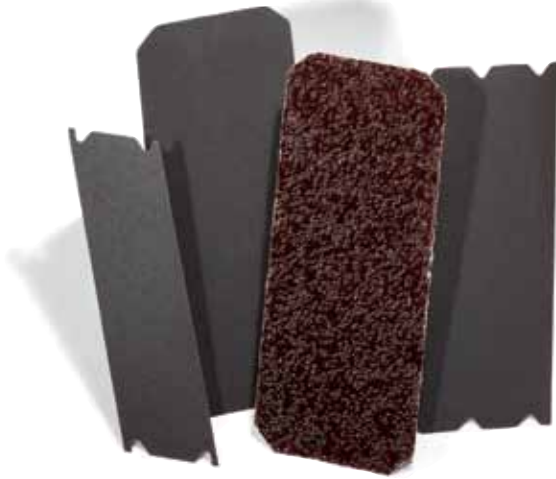
Ferrous and/or non-ferrous metals

STAINLESS

Stainless steel, high tensile steel, wood



- Multi-ply abrasive pad - exposes new cutting surface as each layer wears
- Cushioned, chatter free grinding and polishing for long lasting performance



Size	Grit Available		Part Nos.	Qty Per Box
	New Grit	Old Grit		
4-1/2 x 16-3/8	12	4-1/2	85049	50
	16	4	85050	50
	20	3-1/2	85051	50
	36	2	85052	50
	40	1-1/2	85053	50
	60	1/2	85054	50
8 x 19-1/2	80	0	85055	50
	100	2/0	85056	50
	12	4-1/2	85021	50
	16	4	85000	50
	20	3-1/2	85001	50
	36	2	85002	50
8 x 20	40	1-1/2	85003	50
	60	1/2	85004	50
	80	0	85005	50
	100	2/0	85006	50
	12	4-1/2	85022	50
	16	4	85007	50
8 x 20-1/4	20	3-1/2	85008	50
	36	2	85009	50
	40	1-1/2	85010	50
	60	1/2	85011	50
	80	0	85012	50
	100	2/0	85013	50
	12	4-1/2	85023	50
	16	4	85014	50
	20	3-1/2	85015	50
	60	1/2	85018	50
	100	2/0	85020	50

Sheets

Grits 12-20

- Silicon carbide grain
- Combination backing paper and cloth
- Open coat structure prevents loading
- **Excellent for removing heavy finishes**

WOOD Wood

Grits 36-100

- Silicon carbide grain
- Closed coat for more material removal
- **Excellent for general refinishing**

WOOD Wood

There are 2 grit grading systems for abrasive floor paper. Both systems appear in the table at left.



Belts - Cloth Grits 36-120

- Premium Zirconium grain for high stock removal and long life
- Belt design allows for quick changing of abrasive materials

WOOD Wood floors

Size	Grit Available	Part Nos.	Qty Per Box
8 x 19 AZ-X Zirconium	36	85285	10
	50	85286	10
	60	85287	10
	80	85288	10
	120	85289	10

**Tech
INFO**

- Professional quality for use in tough industrial jobs
- Shrink wrapped for easy handling and long life
- Box label UPC bar coded for easy identification and inventory maintenance

COATED
ABRASIVES

FLOOR SANDING

Sanding Discs



Edge Sander



Floor Sander

FLOOR SANDING

Grits 12-20

- Silicon carbide grain
- Combination backing paper and cloth
- Open coat structure prevents loading
- **Excellent for removing heavy finishes**

WOOD Wood

Grits 36-100

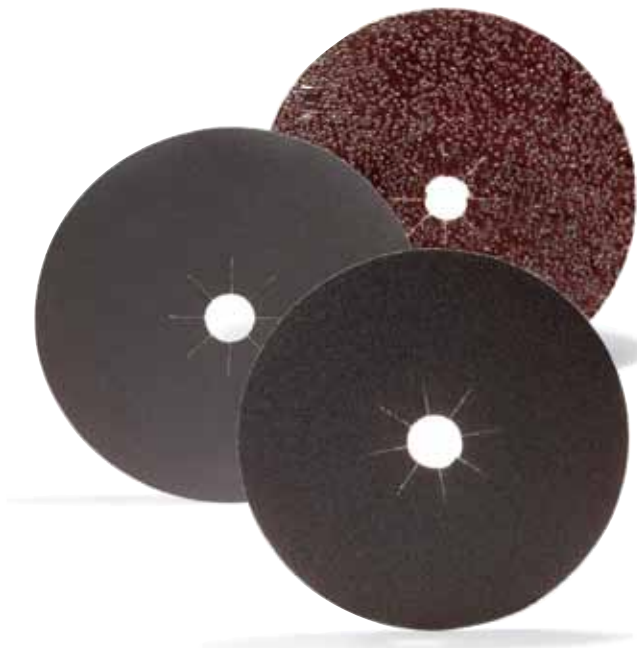
- Silicon carbide grain
- Closed coat for more material removal
- **Excellent for general refinishing**

WOOD Wood

There are 2 grit grading systems for abrasive floor paper. Both systems appear in the table.



Edge



Lg. Dia.

Size	Grit Available		Part Nos.	Qty Per Box
	New Grit	Old Grit		
5 x 1/4	12	4-1/2	85230	20
	16	4	85231	20
	20	3-1/2	85232	20
	36	2	85233	20
	40	1-1/2	85234	20
	60	1/2	85235	25
	80	0	85236	25
	100	2/0	85237	25
5 x 7/8	12	4-1/2	85207	20
	80	0	85205	25
	100	2/0	85206	25
	12	4-1/2	85209	20
6 x 7/8	16	4	85210	20
	20	3-1/2	85211	20
	36	2	85212	20
	60	1/2	85214	25
	80	0	85215	25
	12	4-1/2	85219	20
7 x 7/8	16	4	85220	20
	20	3-1/2	85221	20
	36	2	85222	20
	40	1-1/2	85223	20
	60	1/2	85224	25
	80	0	85225	25
	100	2/0	85226	25
	12	4-1/2	85121	20
15 x 2	16	4	85100	20
	20	3-1/2	85101	20
	36	2	85102	20
	40	1-1/2	85103	20
	60	1/2	85104	25
	80	0	85105	25
16 x 2	100	2/0	85106	25
	12	4-1/2	85122	20
	16	4	85107	20
	20	3-1/2	85108	20
	36	2	85109	20
	40	1-1/2	85110	20
17 x 2	60	1/2	85111	25
	80	0	85112	25
	100	2/0	85113	25
	12	4-1/2	85123	20
	16	4	85114	20
	20	3-1/2	85115	20
18 x 2	36	2	85116	20
	40	1-1/2	85117	20
	60	1/2	85118	25
	80	0	85119	25
	100	2/0	85120	25
	12	4-1/2	85130	20
20 x 2	16	4	85131	20
	20	3-1/2	85132	20
	36	2	85133	20
	40	1-1/2	85134	20
	60	1/2	85135	25
	80	0	85136	25
	100	2/0	85137	25
	12	4-1/2	85140	20
	16	4	85141	20
	20	3-1/2	85142	20
	36	2	85143	20
	40	1-1/2	85144	20
	60	1/2	85145	25
	80	0	85146	25
	100	2/0	85147	25

Tech
INFO

- Professional quality for use in tough industrial jobs
- Shrink wrapped for easy handling and long life



Floor Sander



Grits 12-20

- Silicon carbide grain
- Combination backing paper and cloth
- Open coat structure prevents loading
- **Excellent for removing heavy finishes**

WOOD Wood floors

Grits 36-100

- Silicon carbide grain
- Closed coat for more material removal
- **Excellent for general refinishing**

WOOD Wood floors

There are 2 grit grading systems for abrasive floor paper.
Both systems appear in the table below.

Size	Grit Available		Part Nos.	Pack
	New Grit	Old Grit		
8" x 50 yards	12	4-1/2	85307	1
	16	4	85300	1
	20	3-1/2	85301	1
	36	2	85302	1
	40	1-1/2	85303	1
	60	1/2	85304	1
	80	0	85305	1
	100	2/0	85306	1
12" x 50 yards	12	4-1/2	85407	1
	16	4	85400	1
	20	3-1/2	85401	1
	36	2	85402	1
	40	1-1/2	85403	1
	60	1/2	85404	1
	80	0	85405	1
	100	2/0	85406	1

Tech
INFO

- Professional quality for use in tough industrial jobs
- Box label UPC bar coded for easy identification and inventory maintenance

COATED
ABRASIVES

FLOOR SANDING



Nylon Floor Pads

WOOD Maintaining wood and tile floors

CONCRETE Ceramic tile, cement

- Available in 1" thick and 1/4" thin

Black

- Heavy aggressiveness
- For stripping heavy finishes

Green

- Medium aggressiveness
- For scrubbing and cleaning

Tan

- Light applications
- For buffing and polishing
- Also used between sander and Saitscreen™

White

- High gloss finish
- For buffing



Size	Grades Available Part Numbers				Qty Per Box	Lbs Per Box
	Black	Green	Tan	White		
13" thin	86134	86133	-	-	10	3
13" thick	87134	-	87132	87131	5	3
15" thin	86154	86153	86152	-	10	3
15" thick	87154	87153	87152	87151	5	3
16" thin	86164	86163	86162	-	10	4
17" thin	86174	86173	-	-	10	5
18" thin	86184	86183	86182	-	10	6
18" thick	87184	87183	87182	-	5	6
20" thin	86204	86203	86202	-	10	6
20" thick	87204	-	-	-	5	6



Saitscreen™ Discs

- Cloth screen impregnated with silicon carbide grain
- Long life
- Non-loading
- Double sided
- Excellent for removing paint and varnish from floors

WOOD Wood

CONCRETE Ceramic tile, cement

Size	Grit	Part No.	Qty Per Box
15"	60	88506	10
	80	88508	10
	100	88510	10
	120	88512	10
16"	60	88606	10
	80	88608	10
	100	88610	10
	120	88612	10
17"	60	88706	10
	80	88708	10
	100	88710	10
	120	88712	10
18"	60	88806	10
	80	88808	10
	100	88810	10
	120	88812	10
20"	60	88006	10
	80	88008	10
	100	88010	10
	120	88012	10



Nylon Floor Pads

- Available in an assortment of grits for excellent coverage of a wide range of applications

Saitscreen™

- Cloth screen impregnated with silicon carbide grain for non-loading sanding
- Double sided for long life



- For orbital sanding machines

Saitscreen™

- Silicon carbide grain
- Long life
- Non-loading
- Double sided
- Excellent for removing paint and varnish

WOOD Wood

CONCRETE Concrete

Nylon Floor Pads

- See applications page 114

WOOD Wood

CONCRETE Concrete

Size	Grit	Part No.	Qty Per Box
Saitscreen™ 12 x 24	80	88002	10
	100	88003	10
	120	88004	10
Nylon 12 x 24	Tan/Thin	86122	10
	Green/Thin	86123	10
	Black/Thin	86124	10

Tech
INFO

- Non-gouging for safe use on all floor surfaces
- Popular with DIY homeowners for ease of use

COATED
ABRASIVES

FLOOR SANDING



NON-WOVEN INTRODUCTION

- Extensive line of non-woven abrasives for use in a variety of applications especially in the metal working industry.
- Constructed of nylon fibers with a resin binder to hold the nylon and grains together.
- Use as a final finishing step.
- Change the surface of the material without removing or damaging the base materials.
- Reduce the risk of under-cutting or gouging the workpiece.
- Open weave has non-loading characteristics.



Sand-Light™ Abrasive Hand Pads (pg. 117):

- 6 x 9 hand pads for hand use.



SAIT-LOK™ and SAIT-LOK-R™ (pg. 119):

- Surface conditioning discs 1-1/2", 2", 3", 4" discs for mechanical use.



Surface Conditioning, Sand-Light™ & Buffing Discs (pg. 120, 127 & 128):

- Surface Conditioning Discs available 4", 4-1/2", 5", 6", 7", 8" hook and loop discs for excellent removal of surface coatings and contaminants.
- Sand-Light™ Blending Discs for mirror finishing and blending.
- Buffing Discs designed for cosmetic finishing.



Surface Conditioning Belts (pg. 118):

- High speed removal of surface coatings and contaminants.
- Available in coarse, medium and very fine.



SAIT-Strip™ (pg. 121):

- High speed stripping tool used for removing paint, rust or other contaminants from surfaces.



Flap Brushes (pg. 122):

- Provide a linear finish on a variety of materials.



Interleaf Flap Wheels (pg. 123):

- Constructed with alternating flaps of surface conditioning material and coated abrasive material for a high cut rate and a uniform scratch pattern.



Unitized Wheels and Type 27 (pg. 124-125):

- Constructed by bonding and compressing layers of non-woven materials.
- Excellent for light deburring to fine finishing.



Convolute Wheels (pg. 126):

- Dense, non-woven wheels for use in aggressive deburring, weld blending and polishing.



Brown

- Heavy duty
- Excellent for removing heavy rust and cleaning welds

METAL Ferrous and/or non-ferrous metals

Maroon

- General purpose
- For removing light rust
- Excellent for cleaning and brightening

METAL Ferrous and/or non-ferrous metals

Black

- For blending and finishing
- Excellent for paint removal

STAINLESS Stainless steel

METAL Ferrous and/or non-ferrous metals

Green

- General cleaning
- Excellent for stripping paint and varnish

METAL Ferrous and/or non-ferrous metals

WOOD Paint, varnish

Gray

- Ultra fine
- For light finishing
- Excellent for sanding before/between finish coats

METAL Non-ferrous metals

WOOD Wood

White

- Light duty
- For light cleaning and polishing

WOOD Fiberglass, vinyl, plastic

CONCRETE Ceramic



Size	Grade	Color	Part Nos.	Pads Per Box
6 x 9	Heavy Duty	Brown	77440	20
	General Purpose	Maroon	77447	20
	Stainless	Black	77446	20
	Stripper	Green	77496	20
	Ultra Fine	Gray	77448	20
	Light Duty	White	77486	20

Handle available for uniform finishing on page 145



- Non-woven synthetic fiber impregnated with abrasive grain for surface conditioning without damage to or removal of base material. Resists loading and heat build-up
- Wet/dry construction for use in a wide range of applications
- Available in a variety of grades from heavy duty to polishing applications
- Reusable and long lasting design for economical use
- Box label UPC bar coded for easy identification and inventory maintenance

NON-WOVEN
ABRASIVES

NON-WOVEN

Belts



Benchstand



File Sander



Portable Sander



Backstand

NON-WOVEN

Brown

- Coarse
- Excellent for deburring, blending
- For use on mill marks, tool marks, to create a smooth transition on surface profiles

STAINLESS Stainless steel

METAL Ferrous and/or non-ferrous materials

WOOD Fiberglass and rubber

Maroon

- General purpose
- Excellent for blending and cleaning
- Reduce uneven edges on adjoining surfaces
- Remove coatings, gaskets, and surface discolorations

STAINLESS Stainless steel

METAL Ferrous and/or non-ferrous materials

WOOD Fiberglass and rubber

Blue

- Very fine
- Excellent for cleaning and finishing
- Reduce surface roughness
- Polish welds
- Use to apply cosmetic grain or scratch patterns

STAINLESS Stainless steel

METAL Ferrous and/or non-ferrous materials

WOOD Fiberglass and rubber



Size	Coarse Brown	Medium Maroon	Very fine Blue	Qty Per Box
1/2 x 18	77510	77511	77512	10
1/2 x 24	77515	77516	77517	10
3/4 x 18	77520	77521	77522	10
3/4 x 20-1/2	77575	77576	77577	10
3-1/2 x 15-1/2	77500	77501	77502	10
1 x 42	77525	77526	-	10
2 x 48	77530	77531	-	10
2 x 60	77535	77536	-	10
2 x 132	77550	-	-	5
3 x 21	77570	77571	77572	10
3 x 24	77560	77561	77562	10
3 x 132	-	77556	-	5
4 x 24	77565	77566	77567	10
6 x 48	77540	77541	-	5



Tech
INFO

- Non-woven synthetic fiber impregnated with abrasive grain for surface conditioning without damage to or removal of base material. Resists loading and heat build-up
- Offered in very narrow widths for use on tight radii and hard to reach applications
- Flexible yet extra durable splice method for resistance to breaking or cracking under severe stress



Brown

- Heavy duty
- Excellent for deburring, blending, cleaning, polishing

STAINLESS Stainless steel

METAL Ferrous and/or non-ferrous materials

WOOD Fiberglass, gaskets

Maroon

- General purpose
- Excellent for deburring, blending, cleaning, polishing

STAINLESS Stainless steel

METAL Ferrous and/or non-ferrous materials

WOOD Fiberglass, gaskets

Blue

- Very fine
- Excellent for cleaning and finishing

STAINLESS Stainless steel

METAL Ferrous and/or non-ferrous materials

WOOD Fiberglass, gaskets



See page 145 for backing pads

Hook & Loop style discs in 4" - 8" available on page 120

See page 128 for Buffing Discs



SAIT-LOK™



All-metal attachment on disc ensures a secure fit to the backing pad

SAIT-LOK-R™



Nylon screw threaded hub for easy mounting to the backing pad

Size	Grade	Color	SAIT-LOK™ Part No.	SAIT-LOK-R™ Part No.	Qty Per Box
1-1/2"	Coarse	Brown	77200	77300	50
	Medium	Maroon	77202	77302	50
	Very Fine	Blue	77203	77303	50
2"	Coarse	Brown	77206	77306	50
	Medium	Maroon	77208	77308	50
	Very Fine	Blue	77209	77309	50
3"	Coarse	Brown	77212	77312	25
	Medium	Maroon	77214	77314	25
	Very Fine	Blue	77215	77315	25
4"	Coarse	Brown	-	77318	25
	Medium	Maroon	-	77320	25
	Very Fine	Blue	-	77321	25



- For finer finishing prior to buffing, use Sand-Light™ blending discs on page 127
- Non-woven synthetic fiber coated with aluminum oxide grain resists loading for long life
- Flexible construction for use on contoured surfaces
- Non-woven disc can be switched to laminated disc using same backing pads for less downtime
- Box label UPC bar coded for easy identification and inventory maintenance

Discs



Disc Sander



Angle Grinder



Portable Grinder

NON-WOVEN HOOK & LOOP



See page 128 for Buffing Discs

Brown

- Heavy duty
- Excellent for removing surface coatings and contaminants, including rust

STAINLESS Stainless steel, high tensile steel

METAL Ferrous and/or non-ferrous materials

WOOD Fiberglass

Maroon

- General purpose
- Excellent for removing surface coatings and light rust

STAINLESS Stainless steel, high tensile steel

METAL Ferrous and/or non-ferrous materials

WOOD Fiberglass

Blue

- Very fine
- Excellent for blending and finishing

STAINLESS Stainless steel, high tensile steel

METAL Ferrous and/or non-ferrous materials

WOOD Fiberglass

A variety of 1/4" shank, 5/16-24 and 5/8-11 backing pads are available for use on drills, dual action/random orbital sanders, and right angle grinders/sanders. See page 145

SAIT-LOK™ & SAIT-LOK-R™ discs available in 1-1/2" - 3" on page 119

Size	Grade	Color	Part No.	Qty Per Box
4"	Coarse	Brown	77116	10
	Medium	Maroon	77117	10
	Very Fine	Blue	77115	10
4-1/2"	Coarse	Brown	77118	10
	Medium	Maroon	77120	10
	Very Fine	Blue	77122	10
5"	Coarse	Brown	77124	10
	Medium	Maroon	77126	10
	Very Fine	Blue	77128	10
6"	Coarse	Brown	77130	10
	Medium	Maroon	77132	10
	Very Fine	Blue	77134	10
7"	Coarse	Brown	77136	10
	Medium	Maroon	77138	10
	Very Fine	Blue	77140	10
8"	Coarse	Brown	77142	10
	Medium	Maroon	77144	10
	Very Fine	Blue	77146	10

Tech INFO

- Hook and loop fastening system allows for quick changes and less downtime
- Non-woven synthetic fiber impregnated with abrasive grain for surface conditioning without damage to or removal of base material. Resists loading and heat build-up
- Used in a wide variety of applications including cleaning, polishing, blending, and deburring
- Resilient shape and performance characteristics for contour and radius applications
- Box label UPC bar coded for easy identification and inventory maintenance

NON-WOVEN
ABRASIVES

NON-WOVEN



SAIT-Strip™ Discs

Size	Max RPM	SAIT-LOK™ Part No.	SAIT-LOK-R™ Part No.	Qty Per Box
2"	12,000	77250	77350	25
3"	8,500	77255	77355	10



SAIT-Strip™ Type 27

Size			Max RPM	Part Number	Qty Per Box
Dia.	Width	Bore			
4-1/2"	1/2"	7/8"	10,000	77230	4

SAIT-Strip™ Arbor Hole Discs

- Fast, safe removal of surface contaminants
- Available in 4" x 1/4", 6" x 1/2", 8" x 1/2"

METAL Ferrous and/or non-ferrous metals

STAINLESS Stainless steel, high tensile steel

Size			Max RPM	Part Number	Qty Per Box
Dia.	Width	Bore			
4"	1/2"	1/4"	6,000	77270	10
6"	1/2"	1/2"	4,000	77275	5
8"	1/2"	1/2"	3,000	77280	5

SAIT-Strip™

- Fast, safe removal of surface contaminants
- Available in SAIT-LOK™, SAIT-LOK-R™, Type 27, and spindle mounted wheels
- Excellent for cleaning welds, removing corrosion, rust, scaling, and blending
- Great for removing paints, varnishes and sealants from difficult to reach surfaces

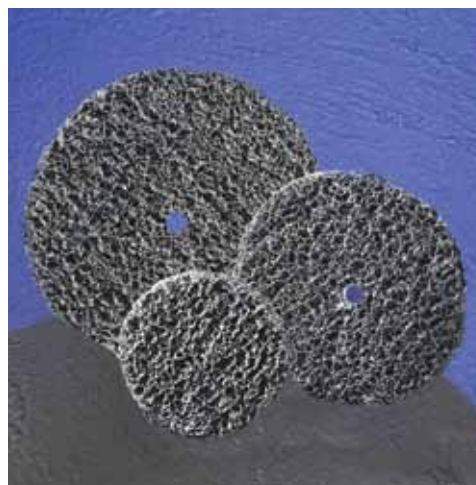
METAL Ferrous and/or non-ferrous metals

STAINLESS Stainless steel, high tensile steel



SAIT-Strip™ Spindle Mounted Wheel

Size			Max RPM	Part Number	Qty Per Box
Dia.	Width	Mandrel			
3"	1-Ply	1/4"	10,000	77235	5
3"	2-Ply	1/4"	10,000	77240	5



Tech
INFO

- Constructed of large nylon filament, providing an open, non-loading surface
- Utilizes coarse silicon carbide grain for rapid removal of surface contaminants, while producing fine finishes

Flap Brushes

NON-WOVEN



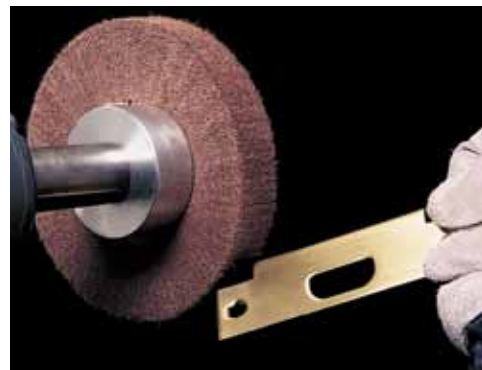
Pedestal Grinder

Flap Brushes

- Capable of conforming to concave, flat, and irregular surfaces
- Creates matte and satin finishes without lines on work piece
- Excellent for blending, cleaning welds, and removing corrosion, rust, or scaling
- **Excellent for grain, antique, and satin finishes, finishing aluminum extrusions, and applying an inline brushed finish on aluminum and stainless steel**

ALUMINUM Aluminum, brass

STAINLESS Stainless steel



Size	Grade	Max RPM	Part No.	Qty Per Box
6 x 1 x 2	Medium	3,400	77325	3
	Very Fine	3,400	77327	3
8 x 1 x 3	Medium	3,200	77330	3
	Very Fine	3,200	77332	3



See page 148 for mounting flanges and reducing bushings

Tech
INFO

- Flexible, consistent face for ease of use
- Cool, smooth running for less operator fatigue
- Non-woven synthetic fiber impregnated with abrasive grain for surface conditioning without damage to or removal of base material. Resists loading and heat build-up



Die Grinder

Medium Grade

- Medium surface conditioning material with either 60 or 80 grit coated abrasive material
- **Excellent for removing heavy oxidation, blending, cleaning, and deburring**

ALUMINUM	Aluminum
STAINLESS	Stainless steel
METAL	Ferrous and non-ferrous materials
WOOD	Fiberglass

Very Fine Grade

- Very fine surface conditioning material with either 120 or 180 grit coated abrasive material
- **Excellent for grain finishing, satin finishing, and linear scratch patterns**

ALUMINUM	Aluminum
STAINLESS	Stainless steel
METAL	Ferrous and non-ferrous materials
WOOD	Fiberglass



Size	Grit	Grade	Max RPM	Part No.	Qty Per Box
2 x 1 x 1/4	60	Medium	15,000	77710	10
	80	Medium	15,000	77712	10
	120	Very Fine	15,000	77714	10
	180	Very Fine	15,000	77716	10
3 x 1 x 1/4	60	Medium	12,000	77730	10
	80	Medium	12,000	77732	10
	120	Very Fine	12,000	77734	10
	180	Very Fine	12,000	77736	10
3 x 2 x 1/4	60	Medium	12,000	77750	5
	80	Medium	12,000	77752	5
	120	Very Fine	12,000	77754	5
	180	Very Fine	12,000	77756	5



- Interleaf flap wheels are constructed with alternating flaps of surface conditioning material and coated abrasive material for a high cut rate and a uniform scratch pattern. Provides blending action while leaving final finish on work piece
- Smear-resistant non-woven material for clean, smear-proof work surfaces
- Interleaf design makes product more aggressive than SAIT non-woven flap brushes and less aggressive than SAIT coated abrasive flap wheels

NON-WOVEN
ABRASIVES

NON-WOVEN



Angle Grinder

Unitized Type 27 Wheels

Series 524-Soft Density, Medium Grade, Silicon Carbide Grain

- General purpose cleaning, finishing and polishing

Series 732- Medium Density, Fine Grade, Silicon Carbide Grain

- Light pressure for blending and finishing
- High edge durability
- High degree of stock removal, while maintaining bright finish

Series 811- Hard Density, Coarse Grade, Aluminum Oxide Grain

- Highest stock removal and edge breaking capability
- Most aggressive for deburring

Series 821- Hard Density, Medium Grade, Aluminum Oxide Grain

- Provides high stock removal, long life and productivity
- Very durable on edge

STAINLESS	Stainless steel, high tensile steel
ALUMINUM	Aluminum
METAL	Ferrous and/or non-ferrous metals

Go from a coarse grind finish to a near mirror finish with the Unitized Wheel



Unitized Type 27

Size	Series	Grain	Density	Grade	Max RPM	Part No.	Qty Per Box
4-1/2 x 7/8	524	S/C	Soft	Medium	10,000	77875	4
4-1/2 x 7/8	732	S/C	Medium	Fine	10,000	77880	4
4-1/2 x 7/8	811	A/O	Hard	Coarse	10,000	77885	4
4-1/2 x 7/8	821	A/O	Hard	Medium	10,000	77890	4



- Constructed by bonding and compressing layers of non-woven material
- Hot pressed to form a solid block from which wheels are cut



Unitized Wheels

Series 524-Soft Density, Medium Grade, Silicon Carbide Grain

- General purpose cleaning, finishing and polishing

Series 532-Soft Density, Fine Grade, Silicon Carbide Grain

- Requires light pressure for fine finishing and polishing
- Highly conformable material
- Provides clean, bright surface on stainless steel
- Finer finish than the 524 series

Series 632-Medium Density, Fine Grade, Silicon Carbide Grain

- Requires light pressure for fine finishing and polishing
- Highly conformable material
- Provides clean bright stainless steel finishes, blends tool marks, and removes slight surface imperfections

Series 731- Medium Density, Fine Grade, Aluminum Oxide Grain

- Light pressure for blending and finishing
- High edge durability
- High degree of stock removal, while maintaining bright finish
- Smaller contact area than the 632 series

Series 811- Hard Density, Coarse Grade, Aluminum Oxide Grain

- Highest stock removal and edge breaking capability
- Most aggressive for deburring

Series 821- Hard Density, Medium Grade, Aluminum Oxide Grain

- Provides high stock removal, long life and productivity
- Very durable on edge

STAINLESS Stainless steel, high tensile steel

ALUMINUM Aluminum

METAL Ferrous and/or non-ferrous metals



Unitized Wheels

Size	Series	Grain	Density	Grade	Max RPM	Part No.	Qty Per Box	Mandrel Part No.
1 x 1 x 3/16	821	A/O	Hard	Medium	30,000	77830	10	95240
3 x 1/2 x 1/4	821	A/O	Hard	Medium	18,000	77835	10	95002
3 x 1/4 x 1/4	524	S/C	Soft	Medium	18,000	77840	10	95002
3 x 1/4 x 1/4	532	S/C	Soft	Fine	18,000	77845	10	95002
3 x 1/4 x 1/4	632	S/C	Medium	Fine	18,000	77850	10	95002
3 x 1/4 x 1/4	731	A/O	Medium	Fine	18,000	77855	10	95002
3 x 1/4 x 1/4	811	A/O	Hard	Coarse	18,000	77860	10	95002
3 x 1/4 x 1/4	821	A/O	Hard	Medium	18,000	77865	10	95002



- Constructed by bonding and compressing layers of non-woven material
- Hot pressed to form a solid block from which wheels are cut



Deburring 8SF-Medium Density

- Excellent starting point for general purpose deburring, blending, and weld polishing
- Silicon carbide grain for fast cut rate and finest finish
- Comparable to competitive 8SF products

METAL Ferrous and non-ferrous materials

ALUMINUM Aluminum

STAINLESS Stainless steel, high tensile materials



Deburring 9SF-Hard Density

- Excellent for aggressive deburring, blending
- Silicon carbide grain for fast cut rate and finest finish
- Comparable to competitive 9SF products

METAL Ferrous and non-ferrous materials

ALUMINUM Aluminum

STAINLESS Stainless steel, high tensile materials

NOTE: Wheels must be run in the direction of the arrow as indicated on the wheel.

Size	Spec.	Density	Grain	Grade	Max RPM	Part No.	Qty Per Box
6 x 1/2 x 1	9SF	Hard	Silicon Carbide	Fine	6,000	77810	4
6 x 1 x 1	8SF	Medium	Silicon Carbide	Fine	6,000	77815	3
6 x 1 x 1	9SF	Hard	Silicon Carbide	Fine	6,000	77820	3
8 x 1 x 3	9SF	Hard	Silicon Carbide	Fine	4,500	77825	3



See page 148 for mounting flanges and reducing bushings



Tech
INFO

- Convolute wheels are constructed by wrapping non-woven nylon, impregnated with abrasive grains, around a hard core to form a homogenous wheel
- Dense, non-woven construction for long lasting wear and high edge durability
- Smooth running for less operator fatigue
- Non-metallic for no workpiece contamination
- Smear-resistant formulation to greatly reduce the possibility of smearing
- Provides best durability, stock removal, and finest finish for increased productivity



Disc Sander



Portable Grinder



Bench Grinder

Sand-Light™ Blending Discs

- For minor finishing and blending applications
- Less aggressive cutting than traditional surface conditioning discs (pg 119-120)
- Great for final finishing prior to buffing with compounds

ALUMINUM Aluminum

STAINLESS Stainless steel

METAL Ferrous and non-ferrous materials

Available in SAIT-LOK™, Hook and Loop, and arbor hole discs

Packaging

SAIT-LOK™	2"	50/box
	3"	25/box
Hook and Loop		10/box
Arbor Hole		10/box



Size	Grade	Arbor Hole Part No.	Qty Per Box
6 x 1/2	Medium	77162	10
	Very Fine	77165	10
8 x 1/2	Medium	77182	10
	Very Fine	77185	10

Medium

- General purpose
- Excellent for light deburring, cleaning and polishing

ALUMINUM Aluminum

STAINLESS Stainless steel

METAL Ferrous and non-ferrous materials



Very Fine

- Excellent for blending and final finishing

ALUMINUM Aluminum

STAINLESS Stainless steel

METAL Ferrous and non-ferrous materials

Size	Grade	SAIT-LOK™ Part No.	Qty Per Box
2" Thick	Medium	77672	50
	Very Fine	77675	50
3" Thick	Medium	77682	25
	Very Fine	77685	25

Size	Grade	Hook & Loop Part No.	Qty Per Box
5" Thick	Medium	77382	10
	Very Fine	77385	10
6" Thick	Medium	77392	10
	Very Fine	77395	10



- Use the Medium grade for light finishing after using surface conditioning discs
- Use the Very Fine grade followed by the SAIT Buffing Discs and compounds for a near mirror finish
- Use the slowest speed possible for optimum results



Buffing Discs

- Premium quality buffing material
- Designed for final cosmetic finishing
- Available in hook and loop and SAIT-LOK-R™

STAINLESS Stainless steel and other high tensile alloys

ALUMINUM Aluminum, brass and other non-ferrous metals



Size	SAIT-LOK-R™ Part No.	Hook & Loop Part No.	Qty Per Box
2"	41012	-	50
3"	41013	-	25
5"	-	41055	10
7"	-	41057	10

See page 145 and 148 for backing pads

Compound Kit

The compound kit contains the following:

Brown Bar: Used for buffing aluminum, brass, copper, wood, plastics, hard rubber, and painted surfaces. Also called tripoli rouge.

White Bar: Used for buffing stainless steel, carbon steel, nickel, aluminum, and chromium to a high luster shine.

Red Bar: For buffing precious metals like gold, silver, platinum, sterling, and other high-end metals. Can also be used to further enhance materials that have already been buffed with other compounds. The finest grade.

Black Bar: Used to buff contaminants out prior to finishing. Will remove rust, stains, scale, and other contaminants. An extremely fast cutting material. Also called emery cake.

Individual bars are also available.



Description	Part No.	Qty Per Box
Buffing Compound Kit	41000	1
Brown Bar	41024	1
White Bar	41022	1
Red Bar	41020	1
Black Bar	41026	1

Tech INFO

- To achieve the best finish possible, use with the soft backing pads (part numbers 95255 & 95257) and the compound kit (part number 41000)
- In general, a slower speed achieves a better finish and reduces heat
- For use on right angle grinder, D/A (dual action) sanders, and right angle air grinders

WIRE BRUSHES INTRODUCTION



United Abrasives' brushes consist of only the highest grade industrial tempered wire and state-of-the-art construction, designed for off-hand equipment. The various styles cover a multitude of applications.



Features and Benefits

Brushes are available in a variety of wire types. The proper brush for the application should be selected based on the characteristics of the brush, including wire type. All BlueLine™ packaging is one piece per package.

Knot wire brushes provide high impact action and offer low to medium flexibility through the use of twisted wire tufts for heavy duty applications, such as weld cleaning. Knot wire brushes are available in 2 knot configurations.

Crimped wire brushes are general purpose brushes that provide higher flexibility and cleaning action through the use of flexible wire points. They offer a wider work face than knot style and are ideal for light applications such as rust or paint removal.



Flag at end of wire tuft provides additional brush flexibility for irregular surface preparation.



Extremely narrow tufted face is ideal for bead weld preparation.



Flexible wire points provide cleaning action for light applications.

Wire Size Specifications

The thickness of brush wire will impact the end result of the workpiece. Fine wire such as .008 will produce a finer finish and will yield a longer brush life. Thicker wires, such as .014 and .020 or higher, will be more aggressive and will decrease production times.

Brush Fill Materials

Carbon is a soft steel wire that can be used for lighter, general purpose brushing jobs. This is the most common wire brush material used.

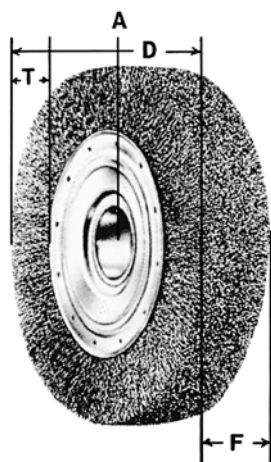
Type 302 Stainless Steel Wire offers a long brush life and is resistant to corrosion. Type 302 stainless should be used when "after rust" or contamination is a problem such as on aluminum, stainless steel, or other high tensile alloys. "After rust" occurs when these alloys are brushed with other types of wire.

WIRE
BRUSHES

BRUSHES

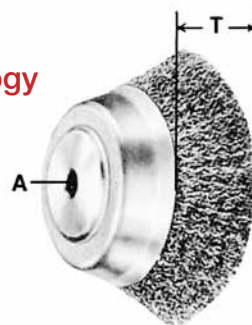


WIRE BRUSHES INTRODUCTION



Common Brush Terminology

A = Arbor Hole
D = Brush Diameter
F = Face Width
T = Trim Length



Application Information

- Always check warning labels for safety information
- Always follow safety guidelines included with each brush package
- Proper application of wire brushes is for the removal of various surface contaminants, not the removal of the base stock material
- The power tool determines the size and speed of the brush to be used
- Check the R.P.M. rating of the tool to verify that it does not exceed the Maximum Safe Free Speed (M.S.F.S.) of the brush
- The slowest speed that will do the job is the most efficient use of the brush. Running at the M.S.F.S. is not necessarily the most efficient speed
- The tool shaft must match the arbor hole of the brush
- The tips of wire at the end of the brush do the work. Excessive pressure will cause premature wire breakage, reduced brush life, increased heat build-up and rapid dulling

Power Brush Safety Requirements

- 1. Safety Goggles:** Safety goggles, or full face shields worn over safety glasses with side shields, **MUST BE WORN** by all OPERATORS and OTHERS IN THE AREA OF POWER BRUSH OPERATIONS. Comply with the requirements of ANSI Z87.1 ("Occupational Eye and Face Protection").
- 2. Guards:** Keep all machine guards in place.
- 3. Speeds:** Observe all speed restrictions indicated on the brushes, containers, labels, or printed in pertinent literature. "MSFS" or "MAX.SFS" means Maximum Safe Free Speed (R.P.M.) - spinning free with no work applied. For reasons of safety, the "MSFS/MAX.SFS" should not be exceeded under any circumstances.
- 4. Safety Standard:** Comply with the safety standards of the American National Standards Institute, ANSI B165.1 and ANSI B165.2 - "Safety Requirements - Power Brushes."
- 5. Protective Equipment:** Appropriate protective clothing and equipment (such as full face shield, gloves, respirator, etc.) must be used where a possibility of injury exists that can be prevented by such equipment.
- 6. Before starting brush:** Use eye protection and safety equipment. Inspect brush for rust, damage, speed limit, etc. If no-load speed marked on the power tool is higher than the brush speed limit, do not mount brush. Inspect and jog machine to assure the brush is mounted properly and securely, machine guards are in place, no vibration, etc. Run machine at operating speed for at least one minute before applying work. **DO NOT STAND IN FRONT OF OR IN LINE WITH BRUSH.**

All United Abrasives brushes comply with the standards of the American Brush Manufacturers' Association, the American National Standards Institute, and the Canadian Standard Association Safety Code.



Bench Grinder



Angle Grinder

Bench Wire Wheels

- Dense, compact crimped steel wire brush face
- **May be stacked to achieve wider work face**
- Primary application: For general scale removal, cleaning and surface preparation
- Standard 2" arbor, with adaptor to listed arbor
- Includes bushing pairs to adapt to variety of arbors

Additional arbors available

Part No.	Size
95201	2 x 1/2
95203	2 x 5/8
95204	2 x 3/4
95206	2 x 1
95207	2 x 1-1/4

**** not available for part number 09558 and 09555



Size			Face Width	Trim Length	Max RPM	INDUSTRIAL		BLUE LINE™ Part No.
Dia.	Wire	Arbor				Part No.	Std Pkg	
6	.014	5/8, 1/2	Wide	1-1/16"	6,000	09557	1	06557
6	.014	5/8, 1/2	Narrow	1-3/16"	6,000	09558****	1	06558
6	.008	5/8, 1/2	Narrow	1-1/16"	6,000	09555****	1	06555
7	.014	5/8	Wide	1-9/16"	6,000	09559	1	06559
8	.014	5/8	Wide	1-1/2"	4,000	01411	1	06556
10	.014	3/4	Wide	2"	3,600	09560	1	-

Note: Wide 1"
Narrow 1/2"

Packaging

Standard industrial packaging or Blue Line™ point of sale display packaging

Large Cup Brushes

- Available in the following wire types:
 - Knot wire for low to medium flexibility and aggressive cutting action
 - Crimped wire which has higher flexibility for light cleaning and removal, especially on irregular surfaces
- Primary application: **For fast cleaning of large surfaces**

Knot Wire - nut inside

Size			Rows	Trim Length	Max RPM	INDUSTRIAL		BLUE LINE™ Part No.
Dia.	Wire	Arbor				Part No.	Std Pkg	
4	.020	5/8-11	1	1-3/8"	9,000	03407**	1	06407
4	.020	5/8-11	1	Stainless*	9,000	03406***	1	06406
6	.020	5/8-11	1	1-3/4"	6,600	03409***	1	06409
6	.035	5/8-11	1	1-3/4"	6,600	03410***	1	06410
6	.020	5/8-11	2	1-3/4"	6,000	03411***	1	06411
6	.035	5/8-11	2	1-3/4"	6,000	03412***	1	06412
6	.020	5/8-11	1	Stainless*	6,600	03413***	1	-

Crimped Wire - nut inside

4	.020	5/8-11	-	1-1/8"	9,000	09551	1	06551
5	.020	5/8-11	-	1-1/2"	8,000	09552	1	-
5	.020	5/8-11	Stainless*	1-1/2"	8,000	09554	1	06554
6	.020	5/8-11	-	1-1/2"	6,600	09553	1	06553



Packaging

Standard industrial packaging or Blue Line™ point of sale display packaging

* 302 stainless steel wire used

** nut on outside

***nut on outside in Canada only

Small Cup



Angle Grinder

BRUSHES

Small Cup Brushes

- For use on small grinders
- Available in the following wire types:
 - Knot wire for low to medium flexibility and aggressive cutting action
 - Crimped carbon steel wire for light cleaning and where greater flexibility is required
 - Stainless steel knot wire for use on stainless, aluminum, and high strength alloys
- Variety of threaded arbors available

Packaging

Standard industrial packaging or Blue Line™ point of sale display packaging

*302 stainless steel wire used



Size			Wire Style	Matl Type	Max RPM	INDUSTRIAL		BLUE LINE™ Part No.
Dia.	Wire	Arbor				Part No.	Std Pkg	
2-3/4	.014	5/8-11	Knot	Carbon	12,500	03414	6	06414
2-3/4	.014	M14 x 2.0	Knot	Carbon	12,500	03415	6	06415
2-3/4	.014	M10 x 1.25	Knot	Carbon	12,500	03416	6	06416
2-3/4	.014	M10 x 1.5	Knot	Carbon	12,500	03417	6	06417
2-3/4	.014	1/2-13	Knot	Carbon	12,500	03418	6	06418
2-3/4	.020	5/8-11	Knot	Carbon	12,500	03501	6	06501
2-3/4	.020	M14 x 2.0	Knot	Carbon	12,500	03502	6	06502
2-3/4	.020	M10 x 1.25	Knot	Carbon	12,500	03503	6	06503
2-3/4	.020	M10 x 1.5	Knot	Carbon	12,500	03504	6	06504
2-3/4	.020	1/2-13	Knot	Carbon	12,500	03505	6	06505
2-3/4	.014	5/8-11	Knot	Stainless*	12,500	03419	6	06419
2-3/4	.014	M14 x 2.0	Knot	Stainless*	12,500	03423	6	06423
2-3/4	.014	M10 x 1.25	Knot	Stainless*	12,500	03422	6	-
2-3/4	.014	M10 x 1.5	Knot	Stainless*	12,500	03421	6	06421
2-3/4	.014	1/2-13	Knot	Stainless*	12,500	03420	6	06420
2-3/4	.020	5/8-11	Knot	Stainless*	12,500	03506	6	06506
2-3/4	.020	M14 x 2.0	Knot	Stainless*	12,500	03507	6	06507
2-3/4	.020	M10 x 1.25	Knot	Stainless*	12,500	03508	6	06508
2-3/4	.020	M10 x 1.5	Knot	Stainless*	12,500	03509	6	06509
2-3/4	.020	1/2-13	Knot	Stainless*	12,500	03510	6	06510
2-3/4	.014	5/8-11	Crimped	Carbon	12,500	01401	6	06401
2-3/4	.014	M14 x 2.0	Crimped	Carbon	12,500	01405	6	06405
2-3/4	.014	M10 x 1.25	Crimped	Carbon	12,500	01404	6	06404
2-3/4	.014	M10 x 1.5	Crimped	Carbon	12,500	01403	6	06403
2-3/4	.014	1/2-13	Crimped	Carbon	12,500	01402	6	06402
2-3/4	.014	5/8-11	Crimped	Stainless*	12,500	01408	6	06408
3-1/2	.020	5/8-11	Knot	Carbon	12,500	03511	1	06511
3-1/2	.020	5/8-11	Knot	Stainless*	12,500	03512	1	06512
3-1/2	.014	5/8-11	Crimped	Carbon	12,500	03513	1	06513
3-1/2	.014	5/8-11	Crimped	Stainless*	12,500	03514	1	06514



Angle Grinder



Knot & Crimped Wire Wheels

- For use on small grinders
- Available in the following wire types:
 - Regular twist covers more surface area in a single pass
 - Stringer bead twist excellent for welds, flux removal and where a narrow work face is required
 - Crimped carbon steel wire provides flexibility and a wider work face than knot style
 - Stainless steel wire for use on stainless, aluminum, and high strength alloys
- Variety of threaded arbors available

Packaging

Standard industrial packaging or Blue Line™ point of sale display packaging

Regular Twist

*302 stainless steel wire used

Size			Matl Type	Max RPM	INDUSTRIAL		BLUE LINE™
Dia.	Wire	Arbor			Part No.	Std Pkg	Part No.
4	.014	5/8-11	Carbon	20,000	03426	6	06426
4	.014	M14 x 2.0	Carbon	20,000	03427	6	06427
4	.014	M10 x 1.25	Carbon	20,000	03428	6	06428
4	.014	M10 x 1.5	Carbon	20,000	03429	6	06429
4	.014	1/2-13	Carbon	20,000	03430	6	06430
4	.020	5/8-11	Carbon	20,000	03460	6	06460
4	.014	5/8-11	Stainless*	20,000	03431	6	06431
4	.014	M14 x 2.0	Stainless*	20,000	03435	6	06435
4	.014	M10 x 1.25	Stainless*	20,000	03434	6	06434
4	.014	M10 x 1.5	Stainless*	20,000	03433	6	06433
4	.014	1/2-13	Stainless*	20,000	03432	6	06432
4	.020	5/8-11	Stainless*	20,000	03461	6	06461
6	.025	5/8-11	Carbon	9,000	03385	6	06385

Stringer Bead / Pipeline

4	.020	5/8-11	Carbon	20,000	03440	6	06440
4	.020	M14 x 2.0	Carbon	20,000	03441	6	06441
4	.020	M10 x 1.25	Carbon	20,000	03442	6	-
4	.020	M10 x 1.5	Carbon	20,000	03443	6	06443
4	.020	1/2-13	Carbon	20,000	03444	6	06444
4	.020	5/8-11	Stainless*	20,000	03445	6	06445
4	.020	M14 x 2.0	Stainless*	20,000	03446	6	06446
4	.020	M10 x 1.25	Stainless*	20,000	03447	6	06447
4	.020	M10 x 1.5	Stainless*	20,000	03448	6	06448
4	.020	1/2-13	Stainless*	20,000	03449	6	-
5	.020	5/8-11	SB-Carbon	12,000	03380	6	06380
5	.020	M14 x 2.0	Carbon	12,000	03381	6	06381
5	.020	5/8-11	SB-Stainless*	12,000	03382	6	06382
6	.020	5/8-11	SB-Stainless*	12,000	03383	6	06383
6	.020	5/8-11	SB-Carbon	12,000	03384	6	06384
6-1/2	.020	5/8-11	SB-Stainless*	9,000	03389	6	06389
6-1/2	.020	5/8-11	SB-Carbon	9,000	03391	6	06391

Crimped

4	.014	5/8-11	Carbon	12,500	03450	6	06450
4	.014	M14 x 2.0	Carbon	12,500	03451	6	06451
4	.014	M10 x 1.25	Carbon	12,500	03452	6	06452
4	.014	M10 x 1.5	Carbon	12,500	03453	6	06453
4	.014	1/2-13	Carbon	12,500	03454	6	06454

Wire Wheels



Angle Grinder

BRUSHES



Packaging

Standard industrial packaging or Blue Line™ point of sale display packaging

*302 stainless steel wire used

Knot Wire Wheels

- Can be used on portable power tools
- Available in the following wire types:
 - Knot wire for low to medium flexibility and aggressive cutting action
 - Stainless steel wire for use on stainless, aluminum, and high strength alloys
- Primary application: **Cleaning, deburring, and scale removal**

Size			Matl Type	Max RPM	INDUSTRIAL		BLUE LINE™
Dia.	Wire	Arbor			Part No.	Std Pkg	Part No.
3	.014	3/8	Carbon	25,000	03377	4	06377
3	.014	1/2, 3/8	Stainless*	25,000	03376	4	06376
4	.014	1/2	Carbon	20,000	03378	4	06378
5	.020	5/8-11	Carbon	12,000	03373	1	06373
5	.020	5/8-11	Stainless*	12,000	03374	1	06374
6	.020	5/8, 1/2	Carbon	9,000	03386	1	06386
6	.020	5/8-11	Carbon	9,000	03388	1	06388
6	.016	5/8, 1/2	Stainless*	9,000	03387	1	06387



Packaging

Standard industrial packaging or Blue Line™ point of sale display packaging

*302 stainless steel wire used

Pipeline Brushes

- **Excellent for use in the pipeline industry**
- Available in the following wire types:
 - Knot wire provides aggressive action in the removal of bead scale, weld flash, or splatter
 - Regular twist and stringer bead twist for higher impact action
 - Stainless steel wire available in stringer bead twist for use on stainless, aluminum, and high strength alloys
- Primary application: **Cleaning, deburring, and scale removal**

Size			Matl Type	Max RPM	INDUSTRIAL		BLUE LINE™
Dia.	Wire	Arbor			Part No.	Std Pkg	Part No.
4	.020	5/8-11	Carbon	20,000	03440	6	06440
4	.020	M14 x 2.0	Carbon	20,000	03441	6	06441
4	.020	M10 x 1.25	Carbon	20,000	03442	6	-
4	.020	M10 x 1.5	Carbon	20,000	03443	6	06443
4	.020	1/2-13	Carbon	20,000	03444	6	06444
4	.020	5/8-11	Stainless*	20,000	03445	6	06445
4	.020	M14 x 2.0	Stainless*	20,000	03446	6	06446
4	.020	M10 x 1.25	Stainless*	20,000	03447	6	06447
4	.020	M10 x 1.5	Stainless*	20,000	03448	6	06448
4	.020	1/2-13	Stainless*	20,000	03449	6	-
5	.020	5/8-11	SB-Carbon	12,000	03380	6	06380
5	.020	M14 x 2.0	Carbon	12,000	03381	6	06381
5	.020	5/8-11	SB-Stainless*	12,000	03382	6	06382
6	.020	5/8-11	SB-Stainless*	12,000	03383	6	06383
6	.020	5/8-11	SB-Carbon	12,000	03384	6	06384
6	.025	5/8-11	Carbon	9,000	03385	6	06385
6-1/2	.020	5/8-11	SB-Stainless*	9,000	03389	6	06389
6-1/2	.020	5/8-11	SB-Carbon	9,000	03391	6	06391

BRUSHES

Joint/End Brushes



Die Grinder



Street Saw



Joint Brushes

- For use on street saws
- Primary application: **Cleaning concrete expansion joints**

Packaging

1 brush per package

Dia.	Wire Size	Description	Max RPM	Part No.	Std Pkg
12"	.035	Joint Brush 1" Arbor, 7/16 Pinhole	6,000	09570	1

End Brushes

- For use on portable power tools
- **Excellent for use in cleaning and finishing recessed areas or pipes**
- Available in the following wire types:
 - Knot wire provides aggressive cutting action
 - Circular flared end brush excellent for side cleaning action
 - Crimped wire for high flexibility
- 1/4" shank diameter

Packaging

Standard industrial packaging or Blue Line™ point of sale display packaging

*302 stainless steel wire used



Size		Wire Style	Trim Length	Overall Length	Max RPM	INDUSTRIAL		BLUE LINE™ Part No.
Dia.	Wire					Part No.	Std Pkg	
1	.020	Knot Type	1	2-5/8	22,000	02701	12	06701
1	.020	Crimped Wire	1	2-5/8	22,000	02709	12	06709
1	.020	SS-Knot*	1	2-5/8	22,000	02704	12	06704
3/4	.014	Crimped Wire	1	2-5/8	22,000	02702	12	06702
3/4	.014	Knot Type	1-1/8	2-5/8	22,000	02703	12	06703
1-1/2	.012	Circ. Flared Crimped	5/16	1-3/4	20,000	02710	12	06710
2-1/2	.014	Circ. Flared	11/16	1-3/4	20,000	02705	12	06705
2	.014	Crimped Wire Wheel	7/16	1-1/4	25,000	02712	12	06712
3	.014	Circ. Flared Crimped*	7/8	1-3/4	20,000	02711	12	06711
3	.014	Crimped Wire Wheel	15/16	1-1/4	25,000	02713	12	06713
3	.014	Crimped Wire Wheel*	15/16	1-1/4	25,000	02714	12	06714

WIRE
BRUSHES

BRUSHES

Scratch/Miscellaneous

BRUSHES



Hand Brush

Hand Brush



Scratch Brushes

- Excellent for light scale removal
- Available in the following wire types:
 - Carbon steel wire for general purpose cleaning
 - Stainless steel wire is carbon free
 - Brass wire for general purpose cleaning
- Primary application: Maintenance cleaning

*302 stainless steel wire used

Size Rows	Wire Size	Type	Part No.	Std Pkg
3 x 19	.014	Curved Handle	05751	12
3 x 19	.014	Curved Handle w/Scraper	05760	12
3 x 19	.012	Curved-Stainless*	05755	12
3 x 14	.014	V-Groove Scratch	05764	12
3 x 14	.012	V-Groove Scratch-Stainless*	05765	12
4 x 16	.014	Shoe Handle	05753	12
4 x 16	.014	Shoe Handle w/Scraper	05761	12
4 x 16	.012	Shoe Handle-Stainless*	05763	12
4 x 19	.014	Curved Handle	05752	12
3 x 7	.006	Small Cleaning Brush-Stainless*	05759	12
3 x 7	.006	Small Cleaning Brush w/Plastic Handle-Stainless*	05766	12
3 x 7	.006	Small Cleaning Brush-Brass	05762	12
3 x 7	.006	Small Cleaning Brush w/Plastic Handle-Brass	05768	12
3 x 15	-	Chipping Hammer Brush	05757	12

Miscellaneous Brushes

Metal Chip Brush

- Durable, long lasting
- For cleaning metal chips from work surfaces

Acid Brushes

- Quality horsehair bristles
- Machine trimmed and crimped to specification

Paint Brushes

- Quality horsehair bristles/Wood handle
- Use for solvents and chemicals

Brush Type	Width	Trim Length	Overall Length	Part No.	Std Pkg
Metal Chip	1-1/2"	1-1/2"	5-5/16"	00510	12 pcs
	3/8"	3/4"	6"	00501	1 gross
Acid Brush	7/16"	7/8"	6-1/2"	00502	1 gross
	9/16"	7/8"	6-1/8"	00503	1 gross
	1/2"	1-1/2"	7"	00511	72 pcs
Paint Brush	1"	1-1/2"	7-1/2"	00512	72 pcs
	1-1/2"	1-1/2"	7-1/2"	00513	72 pcs
	2"	1-1/2"	7-1/2"	00514	72 pcs
	3"	1-1/2"	8"	00515	48 pcs
	4"	2-1/4"	9-1/2"	00516	12 pcs



BRUSHES

Nylon



Hand Brush



Die Grinder



Bench Grinder



Angle Grinder

Nylon Abrasive Brushes

- Available in silicon carbide
- Use on steel, aluminum, copper, brass, stainless steel, super alloys, plastics, composites, ceramics, wood, leather



Large Diameter Wheels

Size		Grit	Face Width	Trim Length	Max RPM	Part No.	Qty Per Box
Dia.	Arbor						
3	5/8	80	1/2	5/8	18,000	04110	1
3	5/8	320	1/2	5/8	18,000	04120	1
4	5/8	120	5/8	3/4	12,000	04130	1
4	5/8	180	5/8	3/4	12,000	04140	1
6	2	120	7/8	1-1/16	6,000	04150	1
6	2	180	7/8	1-1/16	6,000	04160	1

Small Diameter Wheels

Size		Grit	Face Width	Trim Length	Max RPM	Part No.	Qty Per Box
Dia.	Arbor						
1-1/2	1/2	320	1/4	1/4	20,000	04210	4
2	5/8	120	3/8	7/16	15,000	04220	4
2-1/2	5/8	120	3/8	11/16	15,000	04230	4
2-1/2	5/8	320	3/8	11/16	15,000	04240	4

Tube Brushes

Dia.	Grit	Trim Length	Overall Length	Part No.	Qty Per Box
1/2	80	2	5	04270	12
1	80	2-1/2	5-1/2	04275	12
1-1/4	80	2-1/2	5-1/2	04280	12
5/8	120	2	5	04285	12
1	120	2-1/2	5-1/2	04290	12

Cup Brushes

Size		Grit	Trim Length	Max RPM	Part No.	Qty Per Box
Dia.	Arbor					
4	5/8-11	80	1-1/2	6,000	04310	1
6	5/8-11	80	1-1/2	6,000	04340	1

End Brushes

Dia.	Grit	Trim Length	Overall Length	Max RPM	Part No.	Qty Per Box
1	120	1	2-3/4	19,000	04380	12
1	80	1	2-3/4	9,000	04390	6



WIRE
BRUSHES

BRUSHES



Die Grinder

BURS

Tungsten Carbide Burs

United Abrasives offers a complete line of tungsten carbide burs in the most popular shapes and sizes to meet your needs. Choosing the right bur depends on the material to be ground, grinding speed, desired shape and finish requirements. United Abrasives' burs are precision ground with diamond wheels resulting in a concentric tool with very sharp, uniform teeth. This manufacturing method produces the highest quality bur, properly balanced for vibration-free operation and long tool life. Tungsten burs are best suited for efficient material removal at high RPMs. United Abrasives' burs are made in the U.S.A.

Double Cut (Alternate Cut)



Double cut or Alternate cut is the most popular bur in ferrous applications. Manufactured with cuts made on the left and right spirals, this design produces a finer finish on material producing smaller chips and slivers. The double cut offers much smoother operation and greater tool control.

Non-Ferrous (Aluminum Cut)



Non-ferrous or aluminum cut burs have a more open, aggressive cut to avoid loading on softer materials. This design provides outstanding stock removal on aluminum, magnesium, copper, soft steel, brass, zinc alloys, hard rubber, most plastics, and non-ferrous metals. These burs provide easy chip flow with little or no clogging.



Features

- Tungsten Carbide construction for long life and precision cutting
- Highest quality construction for proper balance which delivers vibration-free operation
- Double cut provides smooth operation and maximum tool control
- Non-ferrous burs have an open design for non-loading on softer materials

Applications

- Excellent for confined or hard-to-reach areas
- Use for deburring and finishing on ferrous and non-ferrous metals
- Shaping and enlarging holes in steel
- Removing welds
- Smoothing castings

MAXIMUM RECOMMENDED RPMs FOR CARBIDE BURS

FILE DIA.	RPM(1)	RPM(2)
1/4"	22,000	33,000
3/8"	18,000	27,000
1/2"	16,000	24,000

Use RPM(1) for iron, steel welds, cast iron, tool steels, die steels, bronze, brass and aluminum.

Use RPM(2) for stainless steel.

CARBIDE
BURS

BURS

BURS

Tungsten Carbide Burs



Die Grinder

SB
(End Cut)



SH



SA



SC



SD



SE



SF



SG



SL



SM



Wooden Display Case
Holds up to 8 burs
P/N 99046

**Double Cut
(Alternate Cut)**

Type	Size		Shank Dia.	Part Numbers	Qty Per Box
	Dia.	Length			
SA1	1/4	5/8	1/4	45000	1
SA3	3/8	3/4	1/4	45001	1
SA5	1/2	1	1/4	45002	1
SB1	1/4	5/8	1/4	45111	1
SB3	3/8	3/4	1/4	45004	1
SB5	1/2	1	1/4	45113	1
SC1	1/4	5/8	1/4	45005	1
SC3	3/8	3/4	1/4	45006	1
SC5	1/2	1	1/4	45007	1
SD1	1/4	7/32	1/4	45010	1
SD3	3/8	5/16	1/4	45011	1
SD5	1/2	7/16	1/4	45012	1
SE1	1/4	3/8	1/4	45015	1
SE5	1/2	7/8	1/4	45016	1
SF1	1/4	5/8	1/4	45020	1
SF3	3/8	3/4	1/4	45021	1
SF5	1/2	1	1/4	45022	1
SH1	1/4	5/8	1/4	45115	1
SH2	5/16	3/4	1/4	45116	1
SH5	1/2	1-1/4	1/4	45117	1
SL1	1/4	5/8	1/4	45025	1
SL3	3/8	1-3/16	1/4	45026	1
SL4	1/2	1-1/4	1/4	45027	1
SG1	1/4	5/8	1/4	45030	1
SG3	3/8	3/4	1/4	45031	1
SG5	1/2	1	1/4	45032	1
SM1	1/4	1/2	1/4	45035	1
SM2	1/4	3/4	1/4	45036	1
SM4	3/8	3/4	1/4	45037	1
SM5	1/2	1	1/4	45038	1

**Non-ferrous
(Aluminum)**

SA3NF	3/8	3/4	1/4	45050	1
SA5NF	1/2	1	1/4	45051	1
SC3NF	3/8	3/4	1/4	45052	1
SF3NF	3/8	3/4	1/4	45053	1
SF5NF	1/2	1	1/4	45054	1
SL4NF	1/2	1-1/8	1/4	45055	1

Heavy Duty

Type	Size		Shank Dia.	Part Numbers	Qty/ Box
	Dia.	Length			
SA5	1/2	1	1/4	45125	1
SC5	1/2	1	1/4	45130	1
SE5	1/2	7/8	1/4	45135	1
SF3	3/8	3/4	1/4	45140	1
SF5	1/2	1	1/4	45145	1
SG5	1/2	1	1/4	45150	1
SL3	3/8	1-3/16	1/4	45155	1
SL4	1/2	1-1/4	1/4	45160	1

6" Length Shank

Type	Size		Shank Dia.	Part Numbers	Qty/ Box
	Dia.	Length			
SA3L6	3/8	3/4	1/4 6L	45603	1
SA5L6	1/2	1	6L	45605	1
SB1L6	1/4	5/8	6L	45611	1
SB3L6	3/8	3/4	6L	45613	1
SC3L6	3/8	3/4	6L	45623	1
SD1L6	1/4	7/32	6L	45631	1
SD3L6	3/8	5/16	6L	45633	1
SE5L6	1/2	7/8	6L	45645	1
SF3L6	3/8	3/4	6L	45653	1
SF5L6	1/2	1	6L	45655	1
SG3L6	3/8	3/4	6L	45663	1
SG5L6	1/2	1	6L	45665	1
SH2L6	5/16	3/4	6L	45672	1
SL3L6	3/8	1-1/16	6L	45683	1
SM3L6	1/4	1	6L	45693	1
SC3NFL6	3/8	3/4	6L	45063	1
SF3NFL6	3/8	3/4	6L	45073	1
SD3NFL6	3/8	5/16	6L	45083	1

**Tech
INFO**

- Tungsten carbide construction for long life and durability
- High quality manufacturing method delivers vibration-free operation
- Precision ground with diamond wheels to produce a very sharp uniform cutting edge
- Each enclosed in individual plastic capsules for storage and protection

CARBIDE
BURS

BURS

SAIT-PAK™



Packaged for industrial, hardware, and do-it-yourself markets

We are pleased to include our line of packaged abrasives called SAIT-PAK™. This offers our same industrial quality abrasives, packaged in smaller, easy-to-sell quantities. It complements our existing product line by providing a “line” specifically geared to those customers desiring more consumer-oriented packaging. Skilled craftsmen, professional tradesmen, MRO engineers, fabricators, and the knowledgeable do-it-yourselfer will benefit by this addition to our product line.



United Abrasives makes selecting the correct products and quantities easy

Choosing the correct product for your application is made simple. The packaging contains the same easy-to-use color coded application boxes as our catalog. To meet all of your application needs, SAIT-PAK™ offers products in multi or single packs. Your local distributor has access to United Abrasives' entire SAIT-PAK™ line, offering you the products you want in the quantities you need.



Our foundation is the mid-size independent distributor

United Abrasives has always relied on the small to mid-size independent distributor as our foundation, not the large national chains. As a result, this means that you will continue to receive the attention you deserve with United Abrasives' SAIT-PAK™ program.



We manufacture only a single line of the highest quality

United Abrasives manufactures only a single line of the highest quality industrial abrasives, not a two-tier system of industrial versus retail quality. The SAIT-PAK™ program represents our same high quality products packaged specifically for retail trade.



We're a “one stop shopping” source for all your abrasive product needs

It's easy to buy from United Abrasives. Quality and safety are of utmost importance, minimizing your product performance worries. UA is truly a “one stop shopping” source! Your account will be serviced by the best trained customer service reps and sales force in the industry.



For more information call us at (860) 456-7131

This SAIT-PAK™ program allows you to move up to a level of industrial quality abrasive products at the retail packaged level. You'll get a full spectrum abrasives program with minimal inventory investments. The result is increased inventory turns, expanded market share, and excellent profit margins. For more information about how United Abrasives can help get you to the next level, contact us at (860) 456-7131.

SAIT-PAK™ 9" x 11" Sheets

All Purpose Aluminum Oxide Sheets

Part No	Grade/Grit	Sheets Per Pkg	Pkgs Per Unit
10012	Very Fine - 220	5	5
10010	Fine - 150	5	5
10008	Medium - 100	5	5
10006	Coarse - 60	3	5
10015	Assorted: 2 Very Fine, 2 Fine, 1 Medium	5	5

Waterproof Silicon Carbide Sheets

10034	Ultra Fine - 600	5	5
10032	Super Fine - 400	5	5
10031	Extra Fine - 320	5	5
10028	Very Fine - 220	5	5
10036	Assorted: 2 Super Fine, 2 Extra Fine, 1 Very Fine	5	5

SAIT-PAK™ Accessories

Hand Sanding Block

Part No	Description	Parts Per Pkg
16000	Hand Sanding Block	1

Accessory Items

The convenience of “one stop shopping” is provided through the selection of accessories offered by United Abrasives to complement and match our product offering.

All of the accessories carried in our line have been specifically engineered for use with our products, providing the greatest possible safety and performance. You will find that our SAIT-PAK™ product line of packaging geared for the Do-It-Yourself market includes accessory items specific to those products available in the line. However, should you need additional products that may not be available as part of the SAIT-PAK™ program, refer to our standard line of accessories in this section. Many of our accessory items are skin packaged, providing better labeling capabilities and appearance.

Throughout the catalog, references are made to the various accessories in this section. As part of the product selection, it is important to ascertain if a specific accessory is necessary to operate the abrasive safely. In most cases, where a nut or backing pad is required, one is supplied with the box of product. However, if additional accessory items are needed, they are available in this section. Thus, whether you are ordering in large quantities or individually, sufficient accessories are available for your needs.



Backing Pads for Resin Fiber Discs



- Spiralcool™ backing pads' exclusive rubber, fabric, and fiber board construction provide extra strength and reliability
- Spiral ribs provide contact points and form channels for air flow extending disc life 30% to 50%
- Each pad is supplied with a nut as indicated
- For the 10mm arbor pad specify nut:
#95044 for 1.5 nut or #95043 for 1.25 nut

NOTES: Pad nut must be purchased separately.
This backing pad is not to be used with
SAIT-LOK™ quick change fiber discs

Size	Arbor	Grade Available			Max RPM
		Soft	Med	Hard	
4	5/8-11 Thread	-	95010	-	12,000
* 4-1/2	5/8	-	95011	-	11,000
4-1/2	1/2	-	95012	-	11,000
4-1/2	10mm	-	95013	-	11,000
5	5/8	-	95016	-	10,000
7	5/8-11 Thread	95017	-	-	7,000
7	5/8-11 Thread	-	95018	95019	8,500
9	5/8-11 Thread	95020	95021	95022	6,500

* #95011 also for use on SAITBLEND™ discs

Spanner Wrench



- Adjustable wrench for tightening and loosening center nuts
- Fits all center nuts

Description	Part No
Spanner Wrench	95008

SAIT-LOK™ Backing Pads for Resin Fiber Discs



- Smooth face backing pad for Sait-Lok™ fiber disc
- Minimizes change-over downtime
- No additional mounting hardware required
- Each pad is supplied with nut and washers

NOTE: Sait-Lok™ disc must be used with threaded backing pad

Size	Part No	Max RPM
*4-1/2 x 5/8-11	95023	18,000
4-1/2 x 5/8-11	95025	18,000
*5 x 5/8-11	95024	18,000
5 x 5/8-11	95026	18,000
7 x 5/8-11	95027	8,600
9 x 5/8-11	95028	7,000

* Low profile for short spindles

Challenger II™ Backing Pad



- For use with Challenger II flexible grinding/blending wheels (pg. 18)
- Set includes 5/8-11 nut and pad

Description	Part No	Max RPM
Pad for 4-1/2 & 5" Challenger II™	95245	13,300/12,200
Pad for 7" Challenger II™	95247	8,500

Center Nuts



- For attaching fiber discs to backing pad and tool
- Use small* for 4", 4-1/2", 5" diameter pads
- Use large* for 7", 9" diameter pads

Size	Part No
5/8-11 Small*	95040
5/8-11 Large*	95041
1/2-13	95042
M10 x 1.25	95043
M10 x 1.5	95044
M14 x 2.0	95045

Type 1 Cut-Off Adaptors



- For use with Type 1 Thin High Speed Cut-Off wheels up to 3" diameter only (pg. 39)

Size	Part No
1/4 x 1/4-20	95002
1/4 x 3/8-24	95003
1/4 x 1/2-20	95004

Type 27 Reusable Adaptor Kit



- For use with Type 27 wheels on 7" and 9" 5/8-11 spindle grinders
- Alternative to a throwaway hub

Description	Part No
Reusable Adaptor Kit	95000

Type 1 & Type 27 Reusable 5/8-11 Adaptor



- Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8"

Description	Part No
5/8-11 Reusable Adaptor	95055

Type 1 Cut-Off Wheel Reducing Bushings



- For use with Type 1 Cut-Off wheels
- Reduces wheel arbor size

Size	Part No
1-5/8	95030
1-20mm	95031
1-7/8	95032
1-3/4	95033

Size	Part No
7/8-5/8	95034
Dia.-5/8	95035
Dia.-1/2	95036
1/2-3/8	95037

PSA Backing Pads



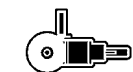
- For use with PSA adhesive backed sanding discs (pg. 81-83, 86)
- 1/4" Shank pads for die grinders
- Threaded pads for dual action/random orbital sanders and right angle grinders/sanders



Portable Grinder



Disc Sander



Angle Grinder

Size	Part No	Max RPM
1 x 1/4	95059	30,000
1-1/2 x 1/4	95060	30,000
2 x 1/4	95061	28,000
3 x 1/4	95062	20,000
4 x 1/4	95063	16,000
5 x 1/4	95064	12,000

Size	Part No	Max RPM
5 x 5/16-24	95065	10,000
5 x 5/16-24 5 holes	95085	10,000
6 x 5/16-24	95066	10,000
6 x 5/16-24 6 holes	95086	10,000
8" w/mounting holes	95180	1,500

Size	Part No	Max RPM
7 x 5/8-11	95068	4,800
8 x 5/8-11	95067	4,800

Hook & Loop Backing Pads for Paper Discs



- For use with Hook & Loop backed paper discs (pg. 84-85)
- Available in 5/16-24 thread

Description	Part No	Max RPM
5 x 5/16-24	95047	10,000
5 x 5/16-24 5 holes	95057	10,000
5 x 5/16-24 8 holes	95058	10,000
6 x 5/16-24	95046	10,000
6 x 5/16-24 6 holes	95056	10,000
8" w/ 5 mounting holes	95185	1,500
8 x 5/8-11	95187	1,500

Palm Hand Sander



- For manual use with PSA (pp. 81-83) or Sand-Light™ /Hook & Loop discs (pg. 120, 127)
- For more uniform finish when hand sanding

Size	PSA	Sand-Light™
5"	95091	95081
6"	95092	95082

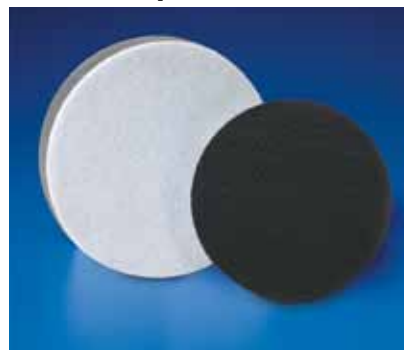
Contour Hand Pads



- For manual use with PSA or Hook & Loop discs (pg. 81-85)
- For more uniform finish when hand sanding

Size	PSA	Hook & Loop
6"	95260	95250

Hook & Loop Soft Interface Pads



- For use with 5" and 6" Hook & Loop Backing Pads
- Excellent for final finishing as the soft foam backing makes the grain cut less and finish finer
- The perfect compliment for the 4S/4V Hook & Loop products (pg. 84-85)

Description	Part No
5" Soft Interface Hook & Loop Pad	95175
6" Soft Interface Hook & Loop Pad	95176

Sand-Light™ Surface Conditioning Backing Pads



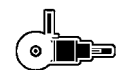
- For use with Hook & Loop style Sand-Light™ Discs (pg. 120, 127)
- 1/4" shank pads
- Threaded pads for dual action random orbital sanders
- Threaded pads for right angle grinders/sanders



Portable Grinder



Disc Sander



Angle Grinder

Size	Part No	Max RPM
4 x 1/4	95154	6,000
5 x 1/4	95153	6,000

Size	Part No	Max RPM
4 x 5/16-24	95157	10,000
5 x 5/16-24	95155	10,000
6 x 5/16-24	95156	10,000

Size	Part No	Max RPM
4-1/2 x 5/8-11	95159	4,800
5 x 5/8-11	95160	4,800
6 x 5/8-11	95161	4,800
7 x 5/8-11	95162	4,800
8 x 5/8-11	95163	4,800

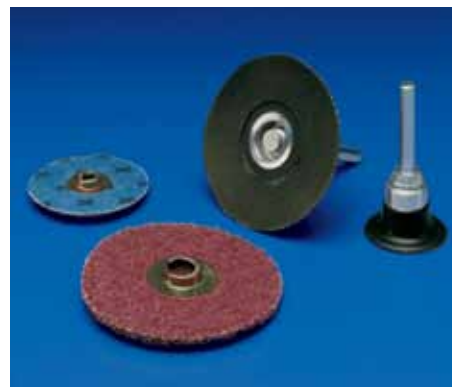
Sand-Light™ Handle



- For manual use with Sand-Light™ 6 x 9 hand pads (pg. 117)
- For more uniform finish when hand sanding

Description	Part No
Sand-Light™ Handle	95080

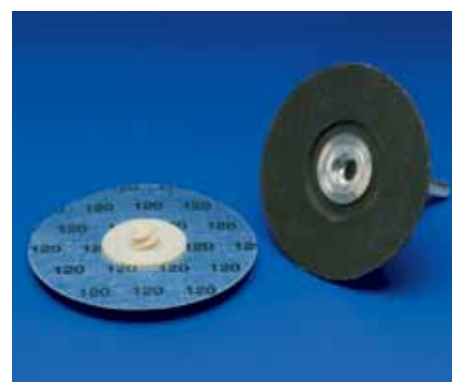
SAIT-LOK™ Backing Pads for Laminated & Surface Conditioning Discs



- For use with SAIT-LOK™ laminated (pg. 77-79) and surface conditioning discs (pg. 119)
- Disc twists into metal threaded center of backing pad for fast and easy disc changes
- Now available in hard density for aggressive cutting action
- 1/4" shank

Size	Part No	Max RPM	Size	Part No	Max RPM
1" Medium	95165	40,000	1-1/2" Hard	95266	30,000
1-1/2" Medium	95166	25,000	2" Hard	95267	30,000
2" Medium	95167	25,000	3" Hard	95268	20,000
3" Medium	95168	20,000			

SAIT-LOK-R™ Backing Pads for Laminated, Surface Conditioning, & Cotton Fiber Discs



- For use with SAIT-LOK-R™ laminated (pg. 77-79), surface conditioning discs (pg. 119), Cotton fiber discs (pg. 59)
- Nylon threaded hub of disc twists into backing pad for secure fit
- Now available in hard density for aggressive cutting action
- Minimizes change-over time
- 1/4" shank

Size	Part No	Max RPM	Size	Part No	Max RPM
1-1/2" Medium	95171	25,000	1-1/2" Hard	95271	30,000
2" Medium	95172	25,000	2" Hard	95272	30,000
3" Medium	95173	20,000	3" Hard	95273	20,000
4" Medium	95280	12,000			

Saitlam™ Flap Disc Backing Pad & Nut



6-1/2" Backing Pad Assembly

- Must be used with 6-1/2" Saitlam™ (pg. 94)
- Includes backing pad, nut (5/8-11), and washer

Description	Part No	Max RPM
6-1/2" Saitlam™ Backing Pad	95070	6,000

Saitlam™ Nuts

Size	Uses Nut	Part No
4-1/2" Saitlam™	5/8-11	95071
4-1/2" Saitlam™	M14 x 2.0	95072
4" Saitlam™	M10 x 1.25	95074

Wood Wedges



- For use with Vitrified Bonded Floor Rubs (pg. 60)
- Skin packaged in quantities of 2 per package

Description	Part No
Wood Wedges	95100

Flap Wheel Adaptor 1-5/8" Metal Bushing



- For use on 6" Flap wheels
- Skin packaged in quantities of 2

Description	Part No
1-5/8" Metal Bushing	95109

Abrasive Cleaning Stick



- For removing loaded material from sanding belts
- Increases abrasive life
- 100% natural rubber; environmentally safe
- Lasts twice as long as conventional (crepe) belt cleaners and will not cause gummy residue
- Size: 1-5/8" x 1-5/8" x 8"

Description	Part No
Abrasive Cleaning Stick	95083

1/4" Shank Threaded Adaptor for Flap Wheels



- For use on United Abrasives 1/4-20 threaded flap wheels
- Facilitates a quick change, thus less downtime

Description	Part No
1/4" Threaded Adaptor	95050

1/4" Shank Adaptor Kit for Flap Wheels



- For converting 1" or 5/8" arbors to a 1/4" shank
- 1/4" Shank adaptor kit

Description	Part No
Adaptor Kit	95009

Cartridge Roll Mandrels



- For use with straight and full taper cartridge rolls on pages 108-109

Size	Part No
1/4 x 1-1/2 x 1/4	95101
1/4 x 1 x 1/4	95102
1/8 x 1-1/2 x 1/4	95103
1/8 x 1 x 1/4	95104
1/8 x 3/4 x 1/4	95105
3/16 x 1-1/2 x 1/4	95106
3/16 x 1 x 1/4	95107
3/32 x 3/4 x 1/4	95108

Spiral Band Drums



- For use with spiral bands on page 107

Size	Max RPM	Part No
1/2 x 1/2 x 1/4	30,000	95121
1/2 x 1 x 1/4	15,000	95122
1/2 x 1-1/2 x 1/4	12,000	95123
3/4 x 1 x 1/4	19,000	95126
3/4 x 1-1/2 x 1/4	10,000	95127
1 x 1 x 1/4	18,000	95130
1-1/2 x 1 x 1/4	14,000	95133
1-1/2 x 1-1/2 x 1/4	10,000	95134
2 x 2 x 1/4	6,000	95137
3 x 3 x 1/4	3,000	95140

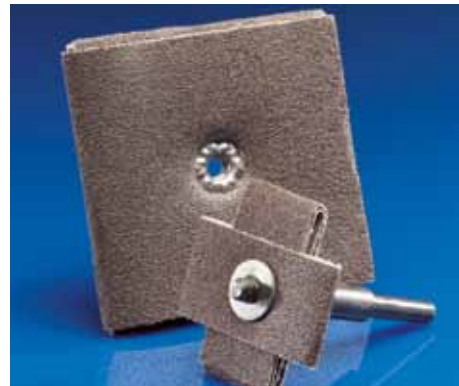
Unitized Wheel Mandrels



- Re-usable mandrels for use with Unitized Wheels
- Packaged each

Description	Part No	For Use With:
Steel Unitized Wheel Mandrel "threaded screw-type"	95240	77830
Type 1 Wheel Adaptor	95002	All 3" diameter, 1/4" hole unitized wheels

Cross Pad & Square Pad Mandrels



- For use with cross and square pads on page 110
- 1/4" shank

Size	Part No
3-48	95095
8-32	95096
1/4-20	95097

Fileboard Backing Plates



Size	PSA	Hook & Loop
2-3/4 x 16-1/2"	95190	95195

Super Soft Buffing Disc Backing Pads



- For use with buffing discs (pg. 128)
- Available in 5" & 7" with 5/8-11 thread

Description	Max RPM	Part No
5" Super Soft Foam Pad	3,200	95255
7" Super Soft Foam Pad	3,200	95257

Buffing Disc Compounds and Kits

Brown Bar: Used for buffing aluminum, brass, copper, wood, plastics, hard rubber, and painted surfaces. Also called tripoli rouge.

White Bar: Used for buffing stainless steel, carbon steel, nickel, aluminum, and chromium to a high luster shine.

Red Bar: For buffing precious metals like gold, silver, platinum, sterling, and other high end metals. Can also be used to further enhance materials that have already been buffed with other compounds. The finest grade.

Black Bar: Used to buff contaminants out prior to finishing. Will remove rust, stains, scale, and other contaminants. An extremely fast cutting material. Also called emery cake.



Description	Part No
Buffing Compound Kit	41000
1 lb Buffing Compound Bar Brown	41024
1 lb Buffing Compound Bar White	41022
1 lb Buffing Compound Bar Red	41020
1 lb Buffing Compound Bar Black	41026

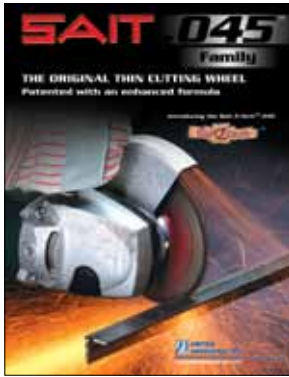
Convolute Wheel and Non-Woven Flap Brush Reducing Bushings



- Re-usable reducing bushings for use with Convolute Wheels and Flap Brushes
- Packaged per pair

Description	Part No	For Use With:
1" OD to 3/8" ID	95210	6" Diameter Convolute Wheels
1" OD to 1/2" ID	95212	6" Diameter Convolute Wheels
1" OD to 5/8" ID	95214	6" Diameter Convolute Wheels
1" OD to 3/4" ID	95216	6" Diameter Convolute Wheels
2" OD to 1" ID	95220	6" Diameter Non-woven Flap Brushes
3" OD to 1" ID	95230	8" Diameter Convolute Wheels and Non-woven Flap Brushes
3" OD to 1-1/4" ID	95232	8" Diameter Convolute Wheels and Non-woven Flap Brushes

PROMOTIONAL LITERATURE



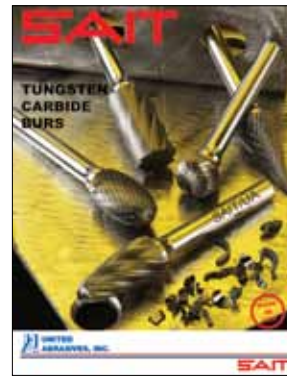
.045 Cut-Off Wheels
Part #99045



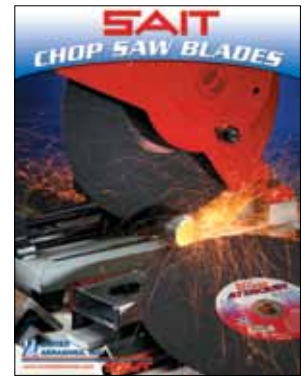
Abrasive Steps Tri-Fold
Part #99031



Company Overview
Part #99981



Carbide Burs
Part #99220



Chop Saw Wheels
Part #99014



.090 Cutting/Notching
Part #99990



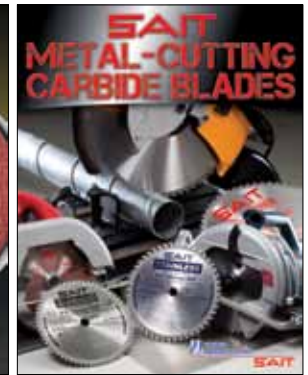
Cotton Fiber Products
Part #99026



Encore Flap Disc
Part #99978



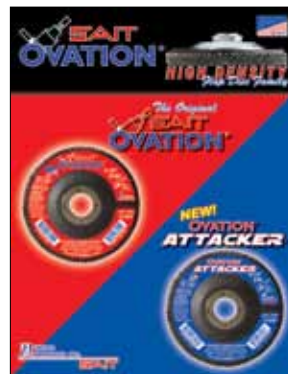
Fiber Discs
Part #99028



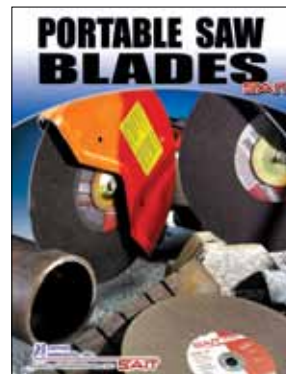
Metal-Cutting Carbide Blades
Part #99982



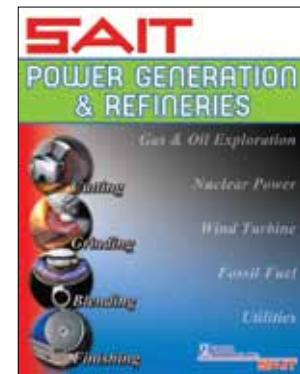
MRO (Maintenance, Repair
& Operations) • Part #99048



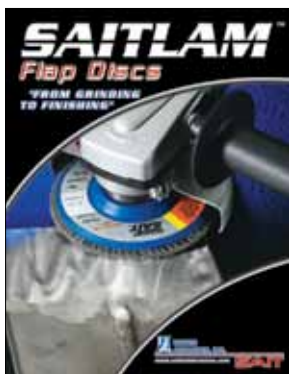
Ovation® Family
Part #99980



Portable Saw Blades
Part #99040



Power Generation & Refineries
Part #99087



Saitlam™ Flap Discs
Part #99007



Super-Lock™ Hub
Part #99019



Surface Conditioning Products
Part #99027



Wire Brushes
Part #99005

Pegboard Display



Sample Display

1 Hardware Kit

6 Sait Back Panels

6 Corner Triangles

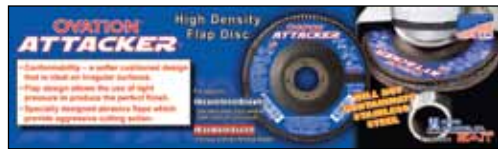
6 Line Cards

Slatwall Display

99155



99098



99089

Rectangle Header Cards - 1 per panel

(used ONLY for Counter and Wall racks)

Part#	Description
99089	Double sided Ovation®/Ovation® Attacker®
99098	United Abrasives/SAIT Header
99104	Concrete cutting
99105	Concrete grinding
99106	Flap discs
99107	Metal cutting
99108	Metal grinding
99109	Metal grinding/blending
99110	Stainless Steel cutting
99111	Stainless Steel grinding
99112	Wire Brushes
99113	Accessories
99114	Aluminum
99117	Metal/Stainless Steel cutting
99118	Metal/Stainless Steel grinding
99122	Stainless Steel/Aluminum blending/finishing
99123	Belts
99155	US Flap Disc

Counter Rack POP

Counter Display Rack

Part# 99079

h17" x w15.5" x d11"



4" hooks do NOT come with racks

Set of 4 hooks for Counter Rack

Part # 99100



Wall Rack POP

Flat Wall Display Rack

Part # 99078

h24" x w15.5"

4" hooks do NOT come with racks

Set of 6 hooks for Wall Rack

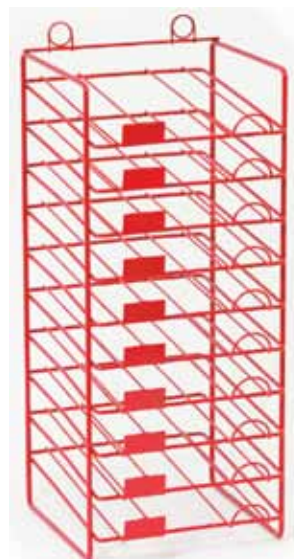
Part # 99115



Hang Tag

For use with Wall Rack and Counter Rack

Part # 99080 (order in multiples of 50)



9 x 11 Sandpaper Rack POP

9x11 Sheet Rack

Part # 99077

h24" x w9.5" x d11.5"

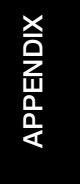
9 x 11 Header Card

Part # 99081

(does not come with POP)



152



COATED ABRASIVES OVERVIEW



What is a Coated Abrasive?

A coated abrasive is a product that consists of a thin layer of abrasive grain attached to a substrate such as paper, cloth, etc. Coated abrasives come in a variety of forms such as sheets, discs, rolls, specialties, or belts.

Components of Coated Abrasives

Abrasive Grains

Coated abrasives are manufactured using abrasive grains, the most common being aluminum oxide, zirconium, ceramic, silicon carbide and garnet. The crude grains are crushed and separated into sizes, called grit sizes, using calibrated screens. Grits range from 12 (very coarse) to 1200 (very fine.) Once the grains are separated into sizes, they are attached to a backing material using various bond techniques. Below are descriptions of the most common abrasive grains:

Ceramic:

A high performance, man-made abrasive material. Very uniform, high density grain structure is extremely durable and self sharpening for longer life and cooler cut. Excels on tough to grind materials.

Aluminum Oxide:

A tough, blocky shaped, man-made grain used for high speed grinding and finishing of metals, wood, and other high tensile strength materials without excessive fracturing or shedding. Wherever the ability to resist fracturing is the main consideration, aluminum oxide will outperform all other coated abrasive grains.

Zirconium:

A very fine, dense, man-made crystalline grain which can be used for aggressive stock removal. Zirconium is a very dense material with a unique self-sharpening characteristic which gives it long life on heavy stock removal operations.

Silicon Carbide:

A very hard, very sharp, man-made abrasive suited for non-ferrous materials and non-metallic materials such as concrete, marble and glass. A very friable grain, silicon carbide cuts faster under light pressure than any other grain used in coated abrasives.

Garnet:

Garnet is made of natural aluminum oxide which is a relatively sharp, but very weak bonding structure. Very inconsistent when compared to synthetics. It is used primarily in woodworking as garnet dulls too quickly to be used in metalworking.

Backing Materials (Substrates)

Below are the four major types of backing materials:

Paper

Specialized technical papers are used as substrates for coated abrasives. They are identified by letters representing weight and flexibility:

“A” and “B” weights are light weight and highly flexible. “C”, “D”, “E”, “F” weights are medium to heavy weight for more strength and less flexibility.

Cloth

Cloth backings are more durable than paper backings. There are two common types of cloth backing, cotton (ie: Egyptian) and polyester. Cloth backings are identified by weight and flexibility:

“F” weight (J-Flex) is light and highly flexible. This lighter weight is suitable for cleaning, finishing, and polishing.

“J” weight (Jeans) is highly flexible and suitable for cleaning, finishing, and polishing of contour surfaces.

“X” weight (Drills) is medium to heavy weight for more strength and durability. It has low flexibility suitable for grinding, deburring and finishing.

“H” (Heavy Duty) is a heavier weight than “X” weight. It has low flexibility and is suitable for heavy duty grinding and deburring applications. Excellent edge stability.

Fiber

Fiber backing is a tough vulcanized material made from rag stock. This backing is usually used for abrasive fiber discs.

Combination

Combination backing is laminated paper and cloth, and is very sturdy and shock resistant. Combination backings typically are used for a wide range of grits and mounting techniques.

Other Backing Materials

There are also a variety of other substrates such as nylon fiber or screens that can be coated for special applications. Non-woven nylon impregnated with abrasive grain is another substrate that can be used for cleaning, polishing, or blending.



COATED ABRASIVES OVERVIEW

Bond Techniques

The grains are locked to the backing material using a bond technique that involves a two layer process. There are three major types of bond techniques used in coated abrasives:

Resin over Resin

A very strong bond resistant to heat and moisture. Resin over resin bonds are durable for heavy stock removal and is by far, the most popular bonding method.

Resin over Glue

A bond that is resistant to heat. It is more aggressive than glue over glue bonds and leaves a finer finish than resin over resin bonds.

Glue over Glue

A bond that is less durable than resin bonds, but glue over glue bonds produce a more uniform finish. Glue over glue bonds soften under heat, thereby reducing the life of the product.

All coated abrasives are stiff and rigid after the drying and curing of the bond. To achieve the flexibility required for the application, a mechanical flexing process is required. This process is actually a controlled cracking of the bond in one or more directions to achieve the desired flexibility.

Open Coat vs. Closed Coat

These terms refer to the spacing between the abrasive grains bonded to the backing.

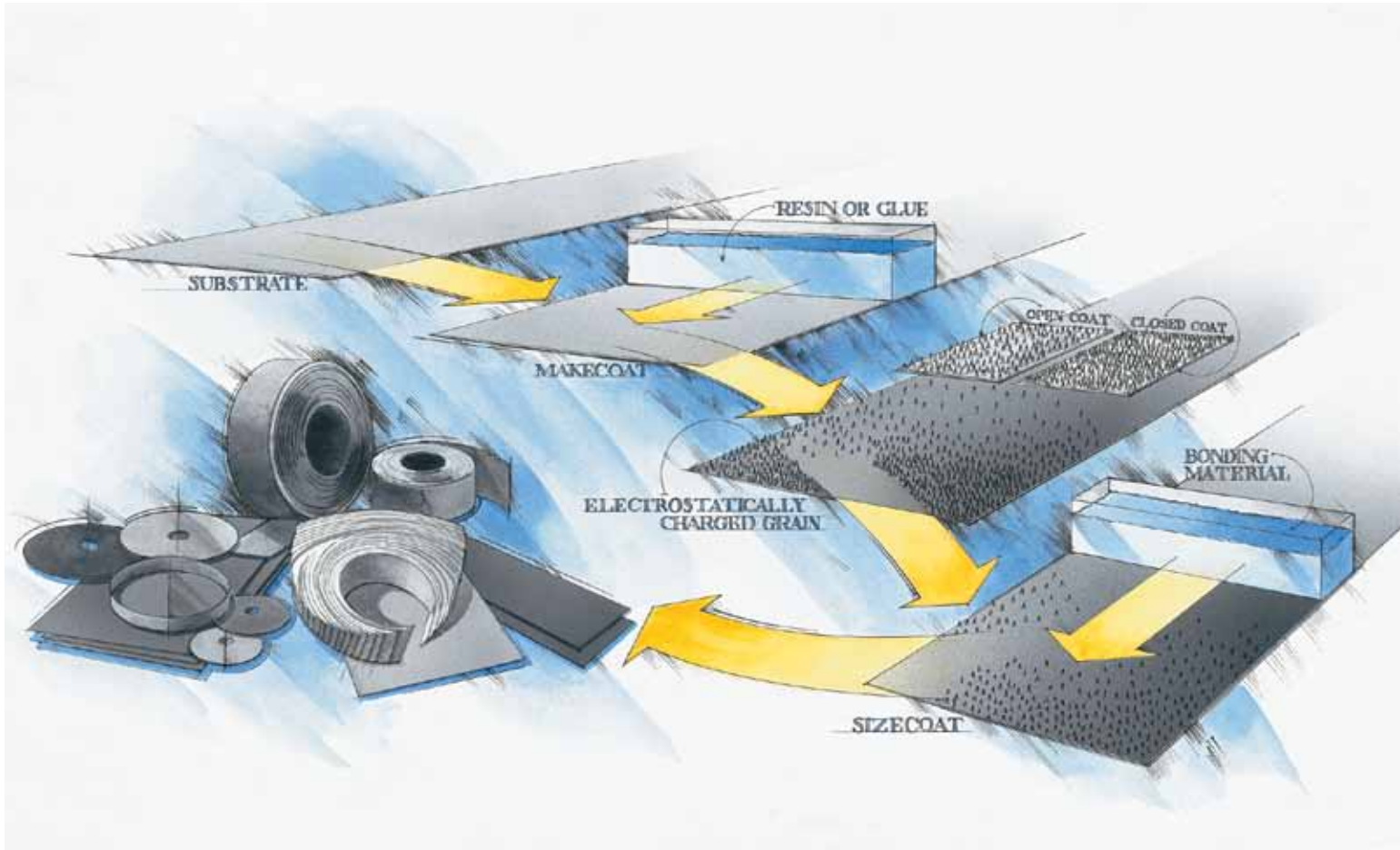
Closed Coat

Closed coat means the abrasive grains are adjacent to each other with no space between. The majority of applications will benefit from closed coat material because it allows for more material removal.

Open Coat

Open coat means the grains are set apart from each other, achieving a surface coverage of about 60% or more. In situations where loading is likely (soft, non-ferrous materials, painted surface, wood, etc.) open coat will resist loading and clogging and extend the useful life of the abrasive.

Making Coated Abrasives



Storage and Handling

Incorrect storage of coated abrasives will significantly affect performance. All types of backings are susceptible to variations in temperature and humidity during storage:

- Keep stockroom at constant levels of humidity (35-50%) and temperature (60-80° F)
- Keep cartons away from damp or cold walls and floors where they may absorb moisture
- Store coated abrasives away from any heat source
- Keep products in original packages for easy handling and stacking
- Flap wheels removed from the original packaging should be spread out on a clean shelf, always placed face down, never resting on edge
- Fiber discs removed from the original packaging should be stored in a suitable disc holder and kept under pressure
- Store bulk rolls flat on shelves or pallets, not on edge
- Belts removed from packing case should be rolled up and stood on edge on a clean shelf. They may be draped over a large cylinder but never hang a belt from a nail or peg (the backing will crease and the abrasive coat will crack)
- Precondition the coated abrasive products in a humidity and temperature controlled environment before use for maximum efficiency

Coated Application Chart

Product	Structure	Adhesive	Backing/Weights	Form								
				Sheets	Rolls	SAIT-Saver	Quick Ship	Blue Line Belts	Custom Belt	Discs	Fiber Discs	Specialties
Cloth- Belts												
LA-X	Closed	Resin over Resin	X-Weight Cloth			•						
1A-X	Closed	Resin over Resin	X-Weight Cloth				•	•				
2A-X	Closed	Resin over Resin	X-Weight Cloth				•	•	•			
3A-X	Closed	Resin over Resin	X-Weight Cloth					•				
AO-X	Open	Resin over Resin	X-Weight Cloth				•	•	•			
2A-H	Closed	Resin over Resin	H-Weight Polyester					•				
C-W	Closed	Resin over Resin	X-Weight Cloth				•	•	•			
Z-H	Closed	Resin over Resin	H-Weight Polyester				•	•	•			
3Z-H	Closed	Resin over Resin	H-Weight Polyester					•				
AZ-X	Closed	Resin over Resin	X Weight Poly/Cotton						•			
Cloth- Other												
Aluminum Oxide (AOX)	Open/Closed	Resin over Resin	J-Flex, J, X cloth	•	•	•	•			•		•
DA-F	Open	Resin over Resin	J-Flex Cloth		•							
EA-F	Open	Resin over Resin	J-Flex Cloth	•	•							
TA-X	Closed	Resin over Resin	X Weight Cloth									•
2A-X	Closed	Resin over Resin	X Weight Cloth									•
3A-X	Closed	Resin over Resin	X Weight Cloth									•
Zirconium	Closed	Resin over Resin	X Cloth, H Polyester									•
3Z-H	Closed	Resin over Resin	H Polyester									•
AZ-X	Closed	Resin over Resin	X Weight Poly/Cotton				•					
Paper- Other												
Zirconium (Z-F)	Closed	Resin over Resin	F							•		
Aluminum Oxide (A-E)	Open	Resin over Resin	E							•		
Aluminum Oxide (AW-D & AW-C)	Open/Closed	Resin over Resin	C, D	•						•		
Stearate Aluminum Oxide (3S)	Open	Resin over Resin	C	•						•		
Stearate Aluminum Oxide (4S/4V)	Open	Resin over Resin	C	•						•		
Silicon Carbide (CW-C)	Open/Closed	Resin over Resin	C	•						•		
Silicon Carbide (C-E/C-F)	Closed	Resin over Resin	E, F							•		
Garnet	Open	Glue over Glue		•								
Fiber												
8S (Ceramic)	Closed	Resin over Resin										•
9S (Ceramic)	Closed w/ Coolants	Resin over Resin										•
AO (Aluminum Oxide)	Open	Resin over Resin										•
2A (Aluminum Oxide)	Closed	Resin over Resin										•
3A (Aluminum Oxide)	Closed w/ Coolants	Resin over Resin										•
Z (Zirconium)	Closed	Resin over Resin										•
3Z (Zirconium)	Closed w/ Coolants	Resin over Resin										•
C (Silicon Carbide)	Closed	Resin over Resin										•
Screens												
Silicon Carbide	N/A	Resin over Resin	Cloth screen impregnated with Silicon Carbide	•	•	•	•			•		
Non-Woven												
Aluminum Oxide/Silicon Carbide	N/A	N/A	Non woven nylon	•						•		
Silicate Compounds	N/A	N/A	Non woven nylon	•								
Buffing Discs	N/A	N/A	Buffing Cloth							•		
Combination												
Silicon Carbide	Open/Closed	Resin over Glue	Paper/Cloth		•	•	•			•		

Coated Application Chart

Wet	Dry	Application

	•	General purpose, metalworking and woodworking
	•	Ordinary and alloyed steel, ferrous and non-ferrous metals, cast iron, wood
	•	Ordinary and alloyed steel, ferrous and non-ferrous metals, cast iron, wood
	•	Stainless steel and other heat sensitive materials, aluminum
	•	Ferrous, non-ferrous metals (steel, iron, aluminum, copper), wood, plastic, fiberglass
•	•	Ordinary and alloyed steel, ferrous and non-ferrous metals, cast iron
•	•	Hard cast iron, aluminum, glass, ceramics, marble and stone
•	•	Ordinary and alloyed steel, cast iron, aluminum, stainless steel
•	•	Stainless steel and other heat sensitive materials, aluminum
•	•	Ordinary and alloyed steel, cast iron, aluminum, stainless steel, wood

	<ul style="list-style-type: none"> • Ferrous, non-ferrous metals (steel, iron, aluminum, copper), wood, plastic, fiberglass • Ordinary and alloyed steel, ferrous and non-ferrous metals, cast iron, wood • Ordinary and alloyed steel, ferrous and non-ferrous metals, cast iron, wood • Ordinary and alloyed steel, ferrous and non-ferrous metals, cast iron, wood • Ordinary and alloyed steel, ferrous and non-ferrous metals, cast iron, wood • Stainless steel and other heat sensitive materials, aluminum • Ordinary and alloyed steel, cast iron, aluminum, stainless steel • Stainless steel and other heat sensitive materials, aluminum • Wood floors
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	•	Ferrous, non-ferrous metals, wood, plastic, fiberglass, sealers, fillers, paint, body filler
		Ferrous, non-ferrous metals, wood, plastic, fiberglass, sealers, fillers, paint, body filler
•	•	Ferrous, non-ferrous metals, wood, plastic, fiberglass, sealers, fillers, paint
	•	Automotive-Sealers, body filler, paint, fiberglass, aluminum
	•	Automotive-Sealers, body filler, paint, fiberglass, aluminum
•	•	Body filler, paint, fiberglass, glass, wood, varnish, plastic, ceramics, marble, ferrous and non-ferrous metals
	•	Marble, granite, solid surface, ceramics, glass, fiberglass
	•	Soft woods

	<ul style="list-style-type: none"> High tensile steels, titanium, aluminum, ferrous, non-ferrous metals Stainless steel, high tensile steels, titanium, aluminum, ferrous, non-ferrous metals Ferrous, non-ferrous metals, wood, fiberglass Ferrous, non-ferrous metals, wood, fiberglass Stainless steel, high tensile steels, titanium, aluminum, ferrous, non-ferrous metals Ferrous and non-ferrous metals, stainless steel, high tensile steels Stainless steel, high tensile steels, titanium, aluminum, ferrous, non-ferrous metals Glass, marble, ceramic, ferrous and non-ferrous metals
--	---

•	•	Fiberglass, body filler, paint, cement, ceramic, marble, wood, varnish, ferrous, non-ferrous metals
---	---	---

•	•	Ferrous and non-ferrous metals, stainless steel, aluminum, wood, tile, rust and paint removal, cleaning welds
•	•	Ferrous and non-ferrous metals, paint, varnish, ceramic, fiberglass, plastic, formica
	•	Buffing stainless steel, carbon steel, aluminum, non-ferrous metals

	•	Wood floors
--	---	-------------

Description of Backing Materials

Backing	Flexibility
Cloth	
F	Lightest and most flexible
J	Very flexible
X	Medium to heavy weight Low flexibility
H	Heavier weight than "X" Low flexibility

Paper

- A Lightest and most flexible
- B Heavier weight and less flexible than “A” weight
- C Medium weight and flexibility
- D Heavier weight and less flexible than “C” weight
- E Heavy Duty, low flexibility
- F Heavy Duty, extremely low flexibility

Anatomy of a Wheel

What is a Bonded Abrasive?

A resin bonded abrasive is a grinding or cutting tool composed of abrasive grains which are held tightly together by a bonding agent and typically reinforced with a woven material. Within the bonded abrasives category are grinding and cutting wheels, as well as “stones” in a variety of shapes and sizes.

3 Main Components of Resinoid Bonded Abrasives

① Abrasive Grains

Abrasive grains are particles of man-made abrasive compounds. While some manufacturers use recycled grains, United Abrasives uses only high quality, virgin grains that are made to our specifications. The chemical structure of the grains determines the physical properties of the grains (i.e. shape, sharpness, hardness, friability). Common grain types used in making bonded abrasives include:

- **A - Aluminum Oxide**
A tough blocky shaped grain used for cutting metals and other high tensile strength materials without excessive fracturing
- **C - Silicon Carbide**
A very hard and very sharp abrasive suited for non-metallic materials such as concrete
- **Z - Alumina Zirconium** (also referred to as Zirconium)
A very fine, dense crystalline grain which can be used for rugged stock removal
- **SG - 3M Cubitron™**
An exclusive patented ceramic aluminum oxide, two or three times tougher than standard aluminum oxide

② Bonding Agent

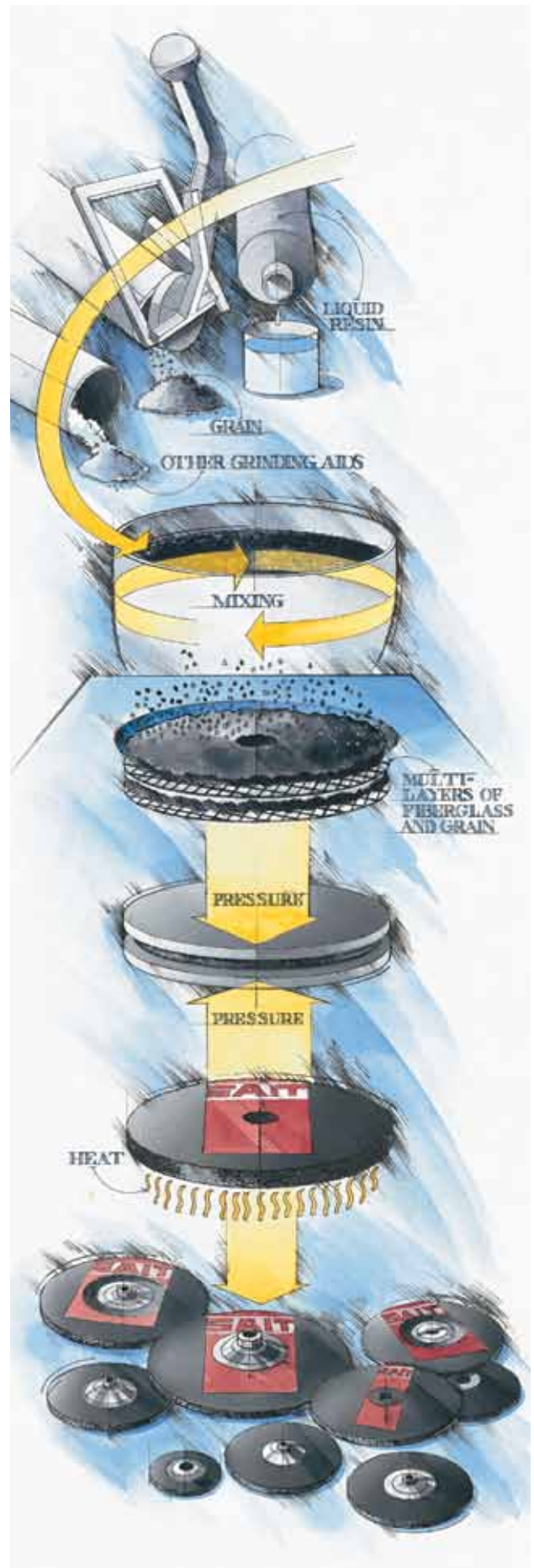
The bonding agent that holds the grains together determines the resistance of the wheel. United Abrasives uses a resinoid bond that is formulated to meet the unique specifications of each product.

③ Reinforcement

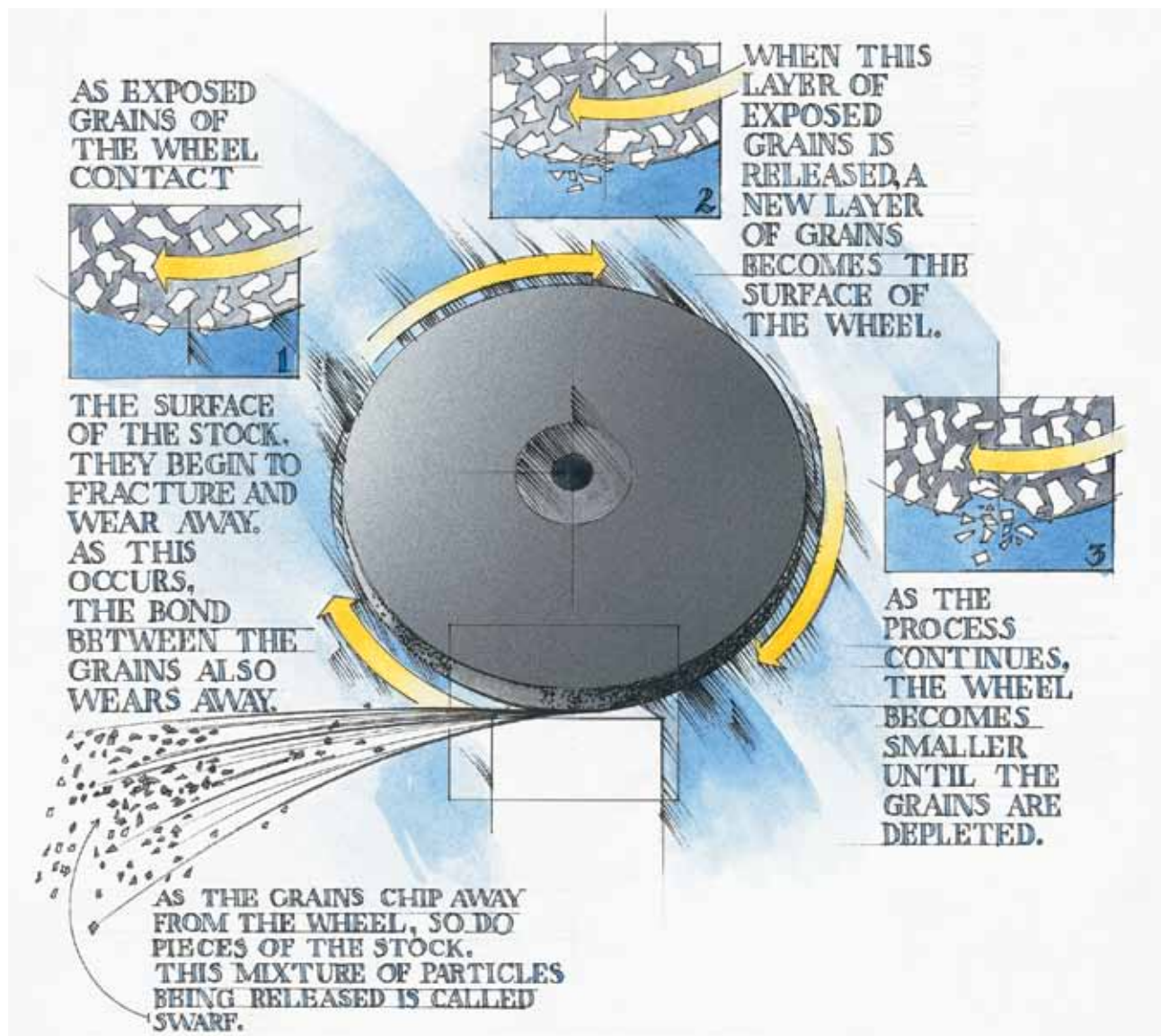
The reinforcement material provides extra strength to use the wheel at maximum RPMs and withstand lateral pressure that is applied during use. United Abrasives uses multiple layers of long stranded fiberglass which are woven to form an exceptionally strong reinforcement layer specific to the application.

Combining the 3 Components

During the manufacturing process, these three components are combined to form a grinding wheel. The grains and bonding agents are measured, combined, and pressed in an automated hydraulic press. United Abrasives' labels are also incorporated into the manufacturing process and therefore remain intact throughout the life of the wheel.

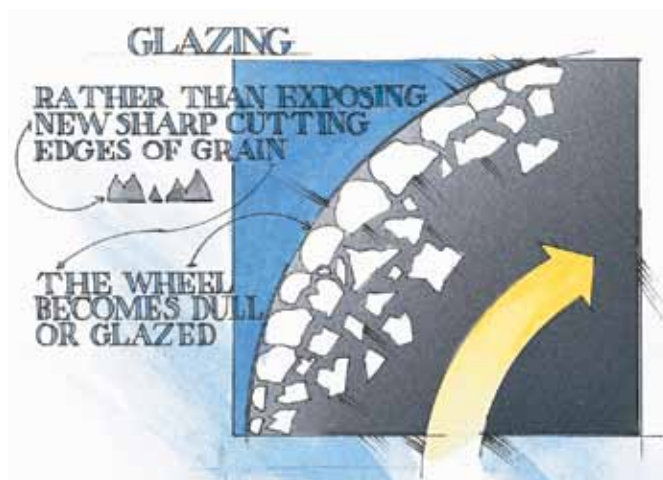


How a Wheel Works



Common Occurrences With Grinding/Cutting Applications

As a wheel is grinding and/or cutting, some situations may occur with the application such as glazing or loading. Here is a description of each of these occurrences and some possible solutions.



Solutions to Glazing

- Dress the wheel for a temporary solution
- Use a softer bond and/or coarser grit wheel



Solutions to Loading

- Dress the wheel for a temporary solution
- Use the correct wheel for the application

Resin Bonded Abrasives

ANSI Standard Marking System

The following chart is an example of the ANSI standard marking system for identifying grinding wheels and other bonded abrasives

A	24				R	BF
Primary grain used to make the wheel	Size of the abrasive grain				Hardness of the bond	Type of bond used
	Coarse	Medium	Fine	Very Fine	Soft Medium Hard	B Resinoid
A = Aluminum Oxide	8	30	70	220	←————→	BF Resinoid Reinforced
C = Silicon Carbide	10	36	80	240	A N R T Z	E Shellac
Z = Alumina Zirconium	12	46	90	280		O Oxychloride
SG = Seeded Gel	14	54	100	320		R Rubber
	16	60	120	400		RF Rubber Reinforced
	20		150	500		S Silicate
	24		180	600		V Vitrified

Wheel Configurations

Bonded abrasive wheels have different configurations depending upon the tool the wheel is used on and the desired end result. Below are the configurations that a wheel can have:

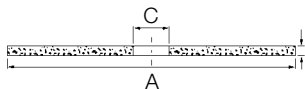
Each wheel configuration is shown on the pages throughout this catalog. The A, B, and C connotations represent the size of the wheel.

A = The diameter of the wheel

B = The width or thickness of the wheel

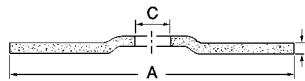
C = The bore of the wheel

Type 1



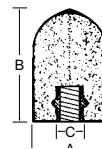
Straight Wheel

Type 27



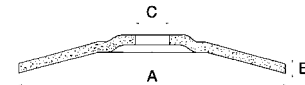
Depressed Center Wheel

Type 16



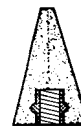
Rounded Cone

Type 28



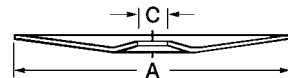
Saucer-shaped Wheel

Type 17



Straight Sided Cone

Type 29



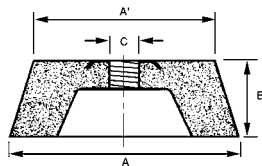
Flexible Wheel

Type 18



Plug

Type 11



Flaring Cup Wheel

Type 18R



Round Plug

Resin Bonded Abrasives

Sample of Wheel Label

Below is an example of a label that can be found on United Abrasives' wheels. We feel it is important to include as much information as possible on our labels so the end user has the pertinent information he needs to operate the wheel. All of our labels are baked on the wheels during the manufacturing process, so the label remains intact throughout the life of the wheel.



Wheel Label Color Coding:

METAL

STAINLESS

ALUMINUM

CONCRETE

Storage and Handling

All abrasive wheels are breakable and therefore care shall be exercised in handling and storage to prevent damage. The following rules, which are based on experience, should be observed:

- Handle wheel carefully to prevent dropping or bumping
- Do not roll wheels (hoop fashion)
- Use trucks or other suitable conveyances to provide support and protection in transporting all wheels which cannot be carried by hand
- Suitable racks, bins, drawers or boxes shall be provided to store the various types of wheels used
- Abrasive wheels should be stored in a dry area not subject to extreme temperature changes since some bonds may be affected by excessive humidity and temperature differentials
- Racks should be located as near as practical to the grinding location, but never where there is danger of damage from passing trucks, crane handling equipment or excessive vibration

Exclusive Super-Lock™ Hub

Super-Lock™ combines a mechanically interlocked transversed key lock system and uses a unique two-part bonding system to give it superior performance capabilities. Other manufacturers use hubs that depend upon two part epoxy, which can fail in many instances due to poor surface preparation, improper curing conditions, incorrect ratio of catalyst and epoxy, or the quantity of epoxy material applied.

Unique in the industry

The United Abrasives Super-Lock™ system is our exclusive, fail-safe throw away hub assembly. This is a unique hubbing system that is used on Type 27 and Type 28 grinding and cutting wheels where hub mounting is preferred.

Unsurpassed Performance

The rotational torque placed upon wheels can vary based on material being removed and pressure that is applied. While the chemical bonds that other manufacturers use can fail, the Super-Lock™ Hub ensures the stability of the hub to wheel connection.

Millions sold - Not one Failure

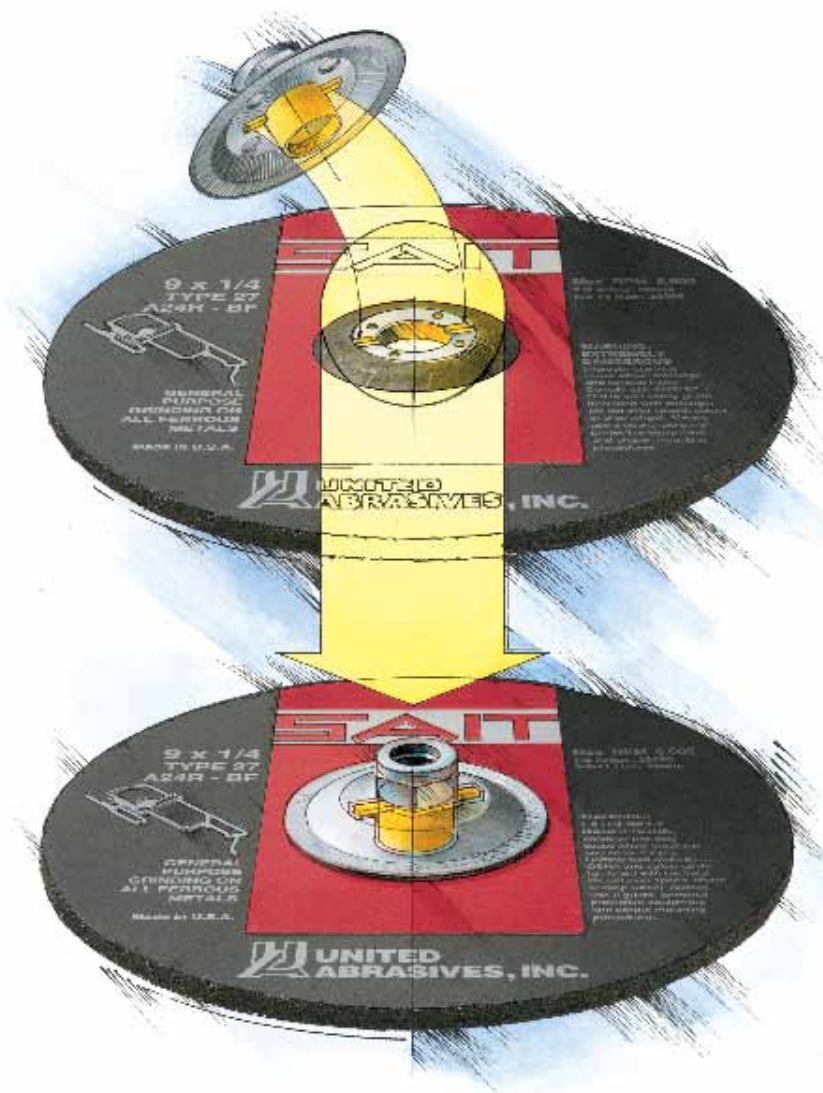
Since 1983, United Abrasives has manufactured and sold millions of depressed center wheels with Super-Lock™ Hubs. Not a single one has ever been reported as a failure.

Patented

The Super-Lock™ Hub system is so safe that it was originally protected by United States patent #4,541,205. United Abrasives is the only manufacturer to utilize this outstanding hub system.

Use on Type 27 and Type 28 Wheels

The Super-Lock™ Hub System is available on all 4-1/2", 5", 7" and 9" Type 27 and Type 28 depressed center grinding and cutting wheels. Turbo 4-1/2" and 5"x1/8" and .090 wheels do not have Super-Lock™ Hub.



Look for this drawing throughout the catalog indicating the wheels that are available with the Super-Lock™ Hub



Safety Guide

Important:

The following information about safety should be used only as a guide. All products listed in this catalog shall be used in accordance with safety regulations set by OSHA and by the directive described by the American National Safety Institute B7.1, the Canadian Standard Association Safety Code B-173-5 and by the American Brush Manufacturers Association covering: Speed, Safety Guards, Flanges, Mounting Procedures, General Operating Rules, Handling, Storage, and Inspection of General Machine Conditions.

The information to the right is designed as a guide for the individual user of abrasive wheels, whether he be in the employ of a large corporation or in the confines of his home work shop. It is based on the premise that grinding/cutting is a safe operation when a few basic rules are followed. These rules are based on material contained in the American National Standards Institute Safety Requirements B7.1 - "Use, Care & Protection of Abrasive Wheels." Follow Them.



Warning:

Avoid inhalation of dust generated by grinding and cutting operations. Exposure to dust may cause respiratory ailments as well as irritation to eyes and skin. In most cases, a greater hazard is the exposure to the dust/fumes from the base material being ground or paint or coatings applied to it. Use approved NIOSH or MSHA respirators, safety glasses or face shields, gloves and protective clothing. Provide adequate ventilation to eliminate dust or to maintain dust levels below the permissible exposure level for nuisance dust as classified by OSHA. Refer to Material Safety Data Sheet for further information.

All operators must read and understand safety information thoroughly.

Follow Safety Instructions:

You must follow all operator and safety instructions, as well as all common safety practices which reduce the likelihood of physical injury.

Operate Wheels at Recommended Speeds:

It is imperative that abrasive wheels be operated at recommended safe speeds. For safety reasons no abrasive wheel shall be operated at a speed greater than that indicated on the blotter or wheel.

- Do always handle and store wheels in a careful manner.
- Do visually inspect all wheels before mounting for possible damage.
- Do make sure operating speed of machine does not exceed speed marked on wheel, its blotter or container.
- Do check mounting flanges for equal size, relieved as required & correct diameter.
- Do use mounting blotters as required by ANSI standards.
- Do be sure work rest is properly adjusted on bench, pedestal and floor stand grinders.
- Do always use safety guard that covers a minimum of one-half (1/2) the abrasive wheel.
- Do allow newly mounted wheels to run at operating speed, with guard in place, for at least one minute before grinding.
- Do always wear safety glasses or some type of approved eye protection while grinding or cutting.
- Do turn off coolant before stopping wheel to avoid creating an out-of-balance condition.
- Do follow common sense safety considerations.
- Do follow federal, state and local laws and regulations.
- Don't use a wheel that has been dropped or appears to have been abused.
- Don't force a wheel onto the machine or alter the size of the mounting hole. If wheel won't fit the machine, get one that will.
- Don't ever exceed maximum operating speed established for the wheel.
- Don't use mounting flanges on which the bearing surfaces are not clean, flat and smooth.
- Don't tighten the mounting nut excessively.
- Don't grind on the side of conventional, straight or Type 1 wheels.
- Don't use a wheel on any machine that is not properly designed for the specific application of the wheel.
- Don't start the machine until the safety guard is properly and securely in place.
- Don't jam work into the wheel.
- Don't stand directly in front of a grinding/cutting wheel whenever a machine is in operation.
- Don't grind or cut material for which the wheel is not designed.

A pamphlet including these Do's and Don'ts and other safety information is included in each box of wheels.

Bonded Application Chart

	Ferrous Metals *																
	Angle Iron	Bar Stock	Cast Iron / Ductile Pipe	Carbon Steel	Channel Iron	Decking	Heavy Rebar	High Tensile Steel	Iron Pipe	I-Beams / Rail Steel	Light Gauge Metals	Metal Studding	Metal Tubing	Stainless Steel	Steel	Thin Rebar	Welds
Type 27 Grinding Wheels																	
A24N	•	•	•	•	•		•	•	•	•				•	•		•
A24R	•	•		•	•	•	•		•	•							
A24T	•	•			•				•	•	•	•			•		
C24N			•									•			•		
Type 27 Specialty Grinding Wheels																	
A46N																	
A24 Turbo	•	•			•				•		•	•					
Sait Z-tech	•	•		•	•	•	•	•	•	•				•	•		•
Saitech Ultimate Performance™								•						•			•
Saitech Attacker®			•					•						•			•
Stainless Contaminant Free														•			
Type 28 Grinding Wheels																	
A24N	•	•	•	•	•			•	•	•				•	•		•
A24R	•	•		•	•	•	•		•	•	•				•	•	•
C24N			•														
Saitech Ultimate Performance™			•					•						•			•
Type 29 Flexible Grinding/Blending Wheels																	
Challenger II™	•	•			•	•		•	•	•	•		•	•	•		•
Type 27 Specialty Cutting & Light Grinding Wheels																	
Pipeline/Turbo	•	•			•	•	•		•	•	•	•	•		•	•	
Sait Z-tech™ Pipeline	•	•			•	•	•	•	•	•	•	•	•	•	•	•	
Saitech™ Pipeline (S Pipe)		•		•		•	•	•	•	•				•	•	•	
Type 27 Cutting Wheels																	
A24R	•	•		•	•	•	•		•	•					•	•	
.090	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
C24R			•														
Type 27 Specialty Cutting Wheels																	
Sait Z-tech™	•	•		•	•	•	•	•	•	•				•	•	•	
.045 Aluminum																	
Saitech UP™ / Saitech™ .045, Z-tech™ .045				•	•			•	•	•				•	•		
Stainless Contaminant Free														•			
Type 1 Chop Saw Wheels																	
EZ-Chop Attacker® /Z-tech™	•	•			•		•		•		•	•			•	•	
EZ-Chop® /Stud King®											•	•			•	•	
Saitech Steel Worker®				•				•					•	•			
Iron Worker™	•	•			•		•		•						•	•	
Non-ferrous Metals (Alum)																	
Type 1 High Speed Cut-off Wheels for Portable Saws																	
A24R	•	•			•		•		•	•					•	•	
SAIT-Pro	•	•		•	•	•		•	•	•	•	•	•	•	•	•	
A60S				•	•			•	•	•	•		•	•	•	•	
Saitech™ .045 / Z-tech™ .045				•	•			•	•	•				•	•		
C24R / XFC			•														
Type 1 Specialty High Speed Cut-off Wheels																	
Brute™						•					•	•	•				
Hobo®	•	•			•		•		•	•	•	•	•				
Ductile™			•						•								
Big M.A.C.™																	
Type 1 Cut-off Wheels for Street Saws																	
C16																	
C24R																	
Street Walker™																	
Street Runner™																	
Type 1 Wheels for Stationary Cut-off Saws																	
A24N	•	•	•	•	•		•	•	•	•				•	•		
A24R	•	•		•	•	•	•		•	•	•				•	•	
A36R		•			•		•	•						•	•		
C24R																	
Metal-Cutting Carbide Blades																	
Type 1 Thin High Speed Cut-off Wheels																	
A24R	•	•				•			•		•	•	•			•	
A36T	•	•				•					•	•	•			•	
A60T						•					•	•					
Saitech Ultimate Performance™				•				•						•			
Type 11 Cup Wheels																	
A16						•			•					•	•		
Z16						•			•					•	•		
C16			•											•	•		
CA16				•		•											
Type 16,17,18 Cones & Plugs																	
Resin Bonded Mounted Points								•	•				•	•	•		

* Indicates most common usages

Bonded Application Chart

Non-Ferrous Metals *				Stone *								Other *			Page in Catalog
Aluminum	Brass	Bronze	Copper	Asphalt	Brick	Ceramic	Concrete	Granite	Green Concrete	Marble	Masonry	Fiberglass	Plastic	Wood	
															8
															8
															8
					•	•	•	•	•	•	•				14
•	•	•	•												11
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															37
•			•												35
															28
															29, 36
															37
															42-43
															42-43
•	•	•	•												43
															43
															44
															44
•	•	•	•		•		•				•		•		30
															31
															46
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															45
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				•			•		•						47
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				•			•		•		•				47
															48
•	•	•	•		•	•	•			•	•				48
•	•	•	•		•	•	•				•				48
															49
															51, 52
												•	•		38-39
															38-39
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															20
							•	•		•	•				20
							•	•		•	•				21
							•	•		•	•				21
															19
															22

* Indicates most common usages

How To Use This Chart

This chart should be used as a reference to match wheel to application. Following these steps will help you utilize this chart to choose the wheel that will best suit your needs.

STEPS IN SELECTING A WHEEL

1. Select the material you will be using based upon the choices at the top of the chart.
2. Determine what you want to do to this material?
 - Are you cutting?
 - Are you grinding?
 - Are you cutting and grinding?
 - Are you finishing?
3. What tools do you have available?
4. Once you have followed these steps, select the wheel that will best suit your needs and turn to that page to see more specifications on that product.

Index By Product Description

Product Description	Page
.045 & .090 Thin High Speed Cut-Off Wheels	28-34
Accessory Items	141-148
Acid Brushes	136
Belts	<ul style="list-style-type: none"> • Backstand • Benchstand • Custom • Floor Sanding • Portable • Surface Conditioning
Bench Grinding Wheels	66, 69
Bonded Abrasives Application Chart	66-69
Brushes for Bench Grinders	70
Brushes For Small Grinders	111
Buffing Discs/Compounds	118
Carbide Burs/Wood Storage Box	61
Cartridge Rolls	162-163
Challenger II™ Wheels	131, 137
Chop Saw Wheels	135, 137
Coated Abrasives Application Chart	128, 148
Cones & Plugs	138-139
Convolute Wheels	108-109
Cotton Fiber Grinding Wheels/Mounted Points	18
Cotton Fiber Laminated Discs/Cutting Wheels	41-43
Cross Pads	164-165
Cup Brushes	19
Cup Stones	126
Cutting Wheels	<ul style="list-style-type: none"> • .045 Type 27/Type 1 • .090 Type 27/Type 1 • 1/8 inch Type 27 • 3/32 inch Type 27 • Type 1 Thin High Speed Cut-Off
Diamond Wheels	57-58
End Brushes	59
Fiber Discs	110
Flap Brushes, Non-woven	131-132
Flap Discs	<ul style="list-style-type: none"> • Encore • Ovation®/Ovation® Attacker® • Saitlam™ Fiberglass Backing • Saitlam™ Plastic Backing
Flap Wheels	<ul style="list-style-type: none"> • Coated • Interleaf
Floor Sanding	<ul style="list-style-type: none"> • Coated • Non-woven
Grinding Wheels	<ul style="list-style-type: none"> • 1/4 inch Type 27 • 1/4 inch Type 28
Hand & Floor Rubs	20-21
	28-31
	32-34
	24-25, 37
	35-36
	30-31, 38-39
	54-55
	135
	71-76
	116, 122
	89
	90-91
	92-93
	94
	95-96
	116, 123
	111-113
	114-115
	8-14
	15-17
	60

Index By Product Description

Product Description	Page
Hand Pad, 6x9	116-117
Hook & Loop Discs	84-85
How to Use This Catalog	4
Knot Wire Wheels.....	133-134
Laminated Discs.....	77-79
Metal Chip Brush.....	136
Metal-Cutting Carbide Blades.....	50-53
Mounted Points.....	22
Nylon Abrasive Brushes.....	137
Paint Brushes	136
Pipeline Brushes.....	133-134
Pipeline Wheels - 1/8 inch Type 27	23-25
Plumber Rolls	106
Portable Saw Cut-Off Wheels.....	40, 44-46
Products by Tool Index	6
Promotional Items/Point of Purchase Display	149-151
PSA Cloth Discs	80, 86-87
PSA Paper Discs.....	80-83
Safety Guide.....	153
SAITBLEND™ Wheels	58
SAIT-PAK™	140
Saitscreen™ Rolls.....	106
SAIT-Strip™	116, 121
Sanding Sponges.....	103
Scratch Brushes.....	136
Sheets	
• Cloth	97-98
• Drywall	102
• Fileboard	100-101
• Paper	97-99
• Saitscreen™	102
Shop Rolls.....	104-105
Spiral Bands.....	107
Square Pads	110
Stationary Saw Cut-Off Wheels	48-49
Super-Lock Hub™	154
Surface Conditioning Belts	116, 118
Surface Conditioning Discs.....	116, 119-120
Technical Info (Resin Bonded & Coated).....	155-161
Thin High Speed Cut-Off Wheels.....	30-31, 38-39
Unitized Wheels/Type 27	116, 124-125
Vitrified Mounted Points.....	22
Wire Brush - Concrete Expansion Joints	135

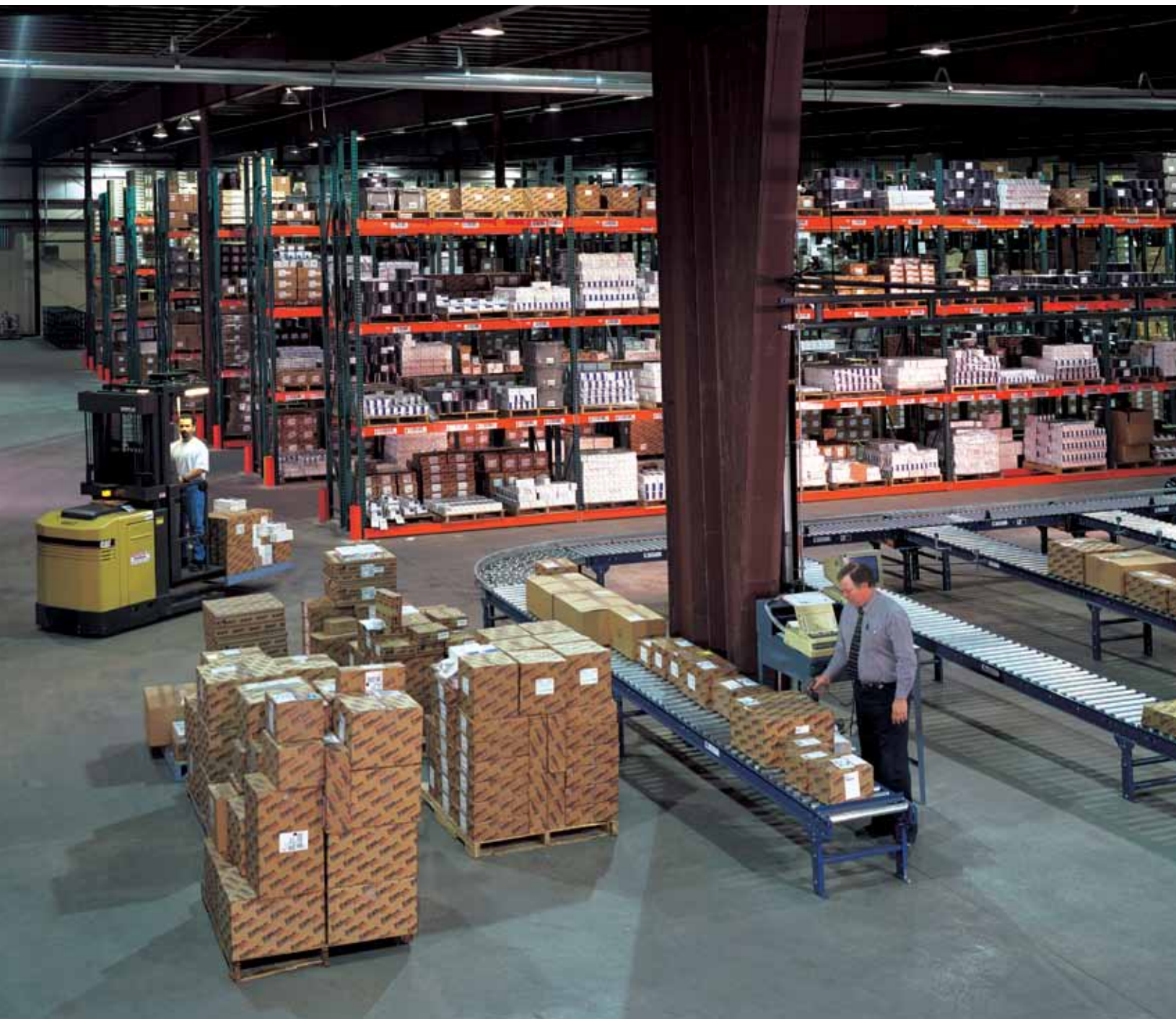
Index By Product Number

Product No.	Page	Product No.	Page	Product No.	Page
00501-00516	136	20173.....	8	23413.....	46
01401-01408	132	20174.....	13	23414.....	44
01411.....	131	20175-20295	8	23415.....	45
02701-02714	135	20902-20919	32	23418.....	46
03373-03378	134	20922-20936	33	23420-23421	44
03380-03385	133, 134	20942-20956	32	23422.....	45
03386-03388	134	21000-21001	15	23423.....	46
03389-03391	133, 134	21002.....	17	23425.....	45
03406-03413	131	21004-21005	15	23427.....	46
03414-03423	132	21006.....	17	23450.....	44
03426-03435	133	21010-21011	15	23451.....	46
03440.....	134	21012.....	17	23452-23453	45
03441-03449	133, 134	21014-21015	15	23455.....	44
03450-03461	133	21015.....	17	23456.....	46
03501-03514	132	21020-21026	15	23457-23458	45
03673.....	134	21084-21099	16	23459.....	44
04110-04390	137	22000.....	35	23460-23466	46
05751-05766	136	22005-22007	24	23470.....	44
06374-06378	134	22010.....	35	23478-23502	45
06380-06384	133, 134	22011.....	28	23604-23606	30
06385.....	133	22015.....	24	23654-23656	28
06386-06388	134	22017.....	37	23703-23717	24
06389-06391	133	22020.....	35	23803-23827	34
06401-06405	132	22021.....	28	24000-24002	48
06406-06407	131	22025.....	37	24003.....	49
06408.....	132	22030-22040	24	24004.....	48
06409-06412	131	22041.....	37	24007.....	49
06414-06423	132	22042.....	24	24010-24013	43
06426-06435	133	22045.....	35	24020.....	48
06440-06448	133, 134	22046.....	24	24023.....	49
06450-06461	133	22047.....	28	24030-24033	43
06501-06519	132	22050-22051	37	24034.....	42
06551-06559	131	22052.....	24	24035.....	43
06701-06714	135	22053.....	28	24039.....	42
07568.....	136	22055.....	24	24040-24042	48
09551-09560	131	22056-22057	35	24043.....	49
09570.....	135	22060-22061	37	24045.....	47
10006-16000	140	22062.....	24	24050-24053	43
20001-20013	8	22064.....	36	24060-24066	47
20014.....	13	22065.....	24	24070-24072	48
20015.....	8	22066-22067	35	24073.....	49
20017.....	14	22068.....	29	24080-24082	48
20018.....	11	22069.....	36	24083.....	49
20019.....	8	22070.....	35	24090-24102	48
20041-20049	13	22071.....	28	24120-24121	47
20050-20060	8	22072-22073	29	24122-24127	46
20061.....	14	22074-22079	36	24130-24131	47
20062.....	11	22082.....	29	24135-24140	44
20063.....	8	22084.....	36	24145.....	47
20064.....	13	22088.....	29	24150-24160	44
20065-20070	8	22089-22099	36	24210-24230	12
20071.....	14	22120.....	35	24251-24254	31
20072.....	11	22125.....	37	24310-24330	37
20073.....	8	22130-22140	24	24412-24416	43
20074.....	13	22141.....	37	24500.....	42
20075-20081	8	22170.....	35	25000-25008	19
20082.....	14	22264-22299	25	25010-25062	60
20083.....	11	22340-22370	28	25101-25306	19
20084.....	13	22599-22616	10	25803-25819	9
20085-20086	8	22619-22636	25	26000.....	20
20087.....	14	22640-22656	35	26001-26002	21
20088.....	11	23002-23072	39	26003.....	20
20089.....	13	23099.....	30, 39	26004-26006	21
20090-20091	8	23100.....	40	26010.....	20
20092.....	14	23101.....	30, 38	26011-26012	21
20093.....	11	23102.....	40	26013.....	20
20094.....	13	23103-23107	30, 38	26014-26015	21
20095-20096	8	23140-23171	39	26020.....	20
20097.....	14	23172-23184	31	26022.....	21
20098.....	11	23200-23211	38	26023.....	20
20099-20149	13	23222-23248	40	26024-26025	21
20150-20160	8	23250-23253	38	26050-26063	20
20161.....	14	23254-23259	40	27010-27414	22
20162.....	11	23265-23278	38	27500-27513	18
20163.....	8	23304-23317	30	28000-28172	61
20164.....	13	23323-23328	31	29200-29214	57
20165-20170	8	23333-23337	29	29270-29279	58
20171.....	14	23410.....	44	29310-29322	59
20172.....	11	23412.....	45	34110-34175	83

Index By Product Number

Product No.	Page	Product No.	Page	Product No.	Page
34210-34627	85	58180-58199	68	77940	51
34770-34777	100	58200-58206	67	77942	52
34987-35135	86	58224-58480	73	77947-77953	51
35136-35241	87	58500-58506	67	77955	52
36500-36519	81	58524-58780	73	77962-77965	51
36520-36525	82	58850-58856	68	77966	52
36540-36568	84	58900-58906	69	77972-77975	51
36600-36619	81	59224-59980	73	77976-77977	52
36620-36625	82	60016-60147	66	78005-78151	91
36640-36658	84	60202-60208	68	79105-79211	89
36800-36910	81	60222-60228	69	80000	106
37082-37127	86	60254-60582	66	80405-80606	104
37138-37239	87	60604-60610	67	80607	105
37505-37511	82	60623-60628	66	80616-80806	104
37515-37563	84	60646-60652	67	80807	105
37605-37610	82	60663-60668	68	80815-81206	104
37615-37651	84	60683-60688	69	81207	105
37800-37909	81	60772-60890	68	81215-81230	104
38001-38134	108	60982-61057	69	81404-81480	105
38300-38346	109	61094-61100	66	81505-81530	104
40020	128	61108-61114	67	81604-81680	105
41000	128, 148	61121-61139	66	81805-81806	104
41012-41013	128	61145-61151	68	81807	105
41022-41026	128, 148	63200-63229	66	81815-82430	104
41055-41057	128	63230-63239	67	83110-83173	101
42001-42054	107	63240-63249	68	83205-83430	104
45000-45693	139	63250-63259	69	84050-84079	102
48001-48063	110	63280-64132	66	84089-84097	106
48501-48521	54	64200-64222	69	84101-84108	98
48531-48568	55	64520-64538	66	84113-84117	100
48701-48721	54	64772-64776	68	84170-84185	101
48731-48768	55	64982-64986	69	84200-84216	98
50000-50045	72	65108-65112	67	84230-84293	99
50050-50052	76	70001-71182	95	84331-84380	100
50060-50087	72	71205-71366	89	84907-84918	98
50100-50113	76	72000-72053	96	85000-85056	111
50120-50165	72	73020-73320	94	85100-85237	112
50166-50200	73	73321	92	85285-85289	111
50208-50235	78	73340	94	85300-85407	113
50238-50262	74	73341	92	86122-86124	115
50264-50284	78	73360	94	86133-86204	114
50300-50311	59	73361	92	86355-86481	103
50320-50334	77	73380	94	87131-87204	114
50338-50359	75	73381	92	88002-88004	115
50360-50368	57	73420-73680	94	88006-88812	114
50370-50372	75	73685-73698	93	95000-95002	143
50410-50434	74	73702-73708	92	95002	147
50510-50533	75	73714-73718	93	95003-95004	143
50560-50566	57	73736-73780	94	95008	142
51022-51120	72	73802-73808	92	95009	146
51242-51296	74	73820-73880	94	95010-95028	142
52100-52125	72	73890-73899	93	95030-95045	143
52208-52284	78	73920-73982	92	95046-95047	144
52320-52334	77	74050-74072	95	95050	146
52716-52736	76	74321-75780	92	95055	143
52810-53120	72	76206-76361	91	95056-95068	144
54016-54400	76	76420-76780	92	95070-95074	146
55215-55282	79	77115-77146	120	95080	145
55342-55357	67	77162-77185	127	95081-95082	144
55362-55367	68	77200-77215	119	95083	146
55420-55464	77	77230-77280	121	95085-95092	144
56024-56120	72	77300-77321	119	95095-95097	147
56215-56282	79	77325-77332	122	95100	146
56313-56353	75	77350-77355	121	95101-95108	147
56480	73	77382-77395	127	95109	146
57016-57090	72	77500-77577	118	95121-95140	147
57100-57113	67	77672-77685	127	95153-95173	145
57120	72	77710-77756	123	95175-95187	144
57200-57513	67	77810-77825	126	95195	148
57600-57913	68	77830-77865	125	95201-95207	131
58000-58006	66	77875-77890	124	95210-95232	148
58016-58090	72	77915	51	95240	147
58111-58116	67	77917	52	95245-95247	142
58120	72	77920-77921	51	95250	144
58121-58126	67	77922	52	95255-95257	148
58131-58136	68	77930-77931	51	95260	144
58142-58146	69	77932-77933	52	95266-95280	145
58152-58156	66	77936	51	99077-99155	151
58160-58179	67	77937-77938	52		

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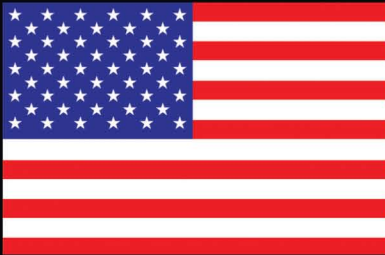
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