

SAIT

***When Quality, Service,
and Dependability Count!***



2016 - 2017

GRINDING WHEELS - PG. 13



Bench Wheels

Aluminum Oxide & Green Silicon Carbide Pg 33

Cones, Plugs & Mounted Points

Type 16, 17, 18 Pg 25
Type A, B, W 24

Contaminant-Free Wheels

XA24Q (1/4") Pg 16
XA24Q (1/8") 45

Cup Stones

Type 11 Pg 22-23

Exclusive Super-Lock™ Hub

Features Pg 12

Flexible Grinding/Blending

Type 29 Challenger Wheels Pg 21
Cotton Fiber 30-31

Grinding Wheels (1/4" Thick)

Introduction Pg 13
Type 27 14-18
Type 28 19-20

Hand and Floor Rubs

Plain, Fluted, Handle, Scored Pg 32

Pipeline Wheels (1/8" Thick)

Introduction Pg 27
1/8" Wheels 28-29

WIRE BRUSHES - PG. 131

Introduction Pg 131-132
Bench Wire Wheels 133
Cup Brushes (Small & Large) 133-134
Joint and End Brushes 137
Knot & Crimped Wire Wheels 135-136
Nylon Brushes 139
Pipeline Brushes 136
Scratch, Metal Chip, Acid, & Paint Brushes 138

CUTTING WHEELS - PG. 34



.045" Cutting Wheels

Type 27 (Type 42) Pg 36-37
Type 1 (Type 41) 38-39
Type 1 Contaminant-Free 1/16" 38

.090" Cutting/Notching Wheels

Type 27 (Type 42) Pg 40
Type 1 (Type 41) 41

.095" Combo Wheels

Type 27 (Type 42) Pg 42
Cut, Notch, Deburr, & Light Grind

3/32" & 1/8" Cutting Wheels

Type 27 Pg 43-45

Chop & Stationary Saw Wheels

Chop Saw Pg 50-51
Stationary Saw 56-57

Contaminant-Free Wheels

XA46R (1/16" Cutting) Pg 38

Diamond

Diamond Pg 62-63

Metal-Cutting Carbide Blades

Introduction Pg 58-59
Carbide Blades 60-61

Portable Saw Cut-Off Wheels

Type 1 (4-1/2" - 8") Pg 48
Type 1 (12" - 16") 52-54

Street Saw Wheels

Street Saw Pg 55

Thin High Speed Cut-Off

.035", 1/16" & 1/8" Pg 46

CARBIDE BURS - PG. 140

Introduction Pg 140
Carbide Burs 141

COATED ABRASIVES - PG. 64



Belts

Introduction	Pg 83-85
Belt Specifications	86-87

Cloth Discs

Introduction	Pg 88
Aluminum Oxide	96-97
Zirconium	96-97

Fiber Discs

Introduction	Pg 77
Fiber Discs	78-82

Flap Discs

Introduction	Pg 68-69
High Density	72-73
Mini	76, 98
Non-Woven & Interleaf	75, 126
Regular Density	70-71, 74, 76
Trimmable & Plastic	71, 73-74

Flap Wheels

Small Diameter	Pg 101
Large Diameter	102
5/8-11 Threaded	102

Floor Sanding

Discs	Pg 116
Rolls	117
Saitscreen™	117
Sheets/Belts	115

Laminated Discs

SAIT-LOK™	Pg 98-100
SAIT-LOK-R™	98-100

Paper Discs

Introduction	Pg 88
Hook & Loop	93-95
PSA Disc Rolls	89-90
PSA Disc Individual	91-92, 95

Sheets

Introduction	Pg 103
Cloth	104
Fileboard	107
Paper	104-105
Saitscreen™/Drywall	106
Sanding Sponges	107

Shop Rolls

Industrial/Handy	Pg 108
Mini/Custom	109-110
Saitscreen™/Plumber	110

Specialties

Cartridge Rolls	Pg 112-113
Cross Pads	114
Spiral Bands	111
Square Pads	114

NON-WOVEN ABRASIVES - PG. 118

Belts	Pg 120	Hand Pads	Pg 119
Buffing Pads/Compounds	130	Interleaf (Wheels & Flap Discs)	125-126
Convolute Wheels	128	SAIT-Strip™ Products	129
Discs	121-122	Sand-Light™ Blending Discs	123
Flap Brushes	124	Sand-Light™ (Flap Discs)	126
Flap Wheels	125	Unitized Wheels/Type 27	127

ACCESSORIES / LITERATURE / DISPLAYS - PG. 142

CATALOG GUIDE

COLOR CODING SYSTEM

Our catalog has been color coded as follows for quick reference to these product groups.

GRINDING

- Type 27, 28 and 29 – general purpose to high performance
- Pipeline performs light grinding and cutting
- Cones, plugs, cup stones and mounted points also available

CUTTING

- Type 27 and Type 1 to cut metal, stainless or concrete
- Includes our patented .045 and .090
- Large diameter wheels available for general purpose to specialty
- Metal cutting blades and diamond wheels

COATED ABRASIVES

- Type 27 and 29 Flap Wheels – regular and high density
- Fiber disc offering – most comprehensive in the industry
- Belts available in most common sizes & new portable, narrow & wide belts
- Full line of laminated, paper and cloth discs along with sheets, floor products and specialty items

NON-WOVEN ABRASIVES

- Extensive product offering for a variety of applications
- Use as a final finishing step
- Hand pads, belts, discs, flap brushes and more

WIRE BRUSHES

- Various styles to cover a multitude of applications
- Bench wire wheels, large and small cup brushes
- Knot and crimp wire wheels along with Pipeline brushes

CARBIDE BURS

- Top quality tungsten in the most popular shapes and sizes
- Double cut or alternate cut available
- Packaged in individual capsules for storage and protection

ACCESSORIES

- Many items to complement and match our product offering
- Specifically engineered for our products

- 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.
- Worldwide reputation 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.
- Continually updating and investing in all aspects of our company – production, shipping and customer support.
- Only premium raw materials are used.
- Demand consistent manufacturing operations and have one of the most rigorous quality control testing procedures in the industry.
- ***EVERY order is a RUSH delivery!*** From phone order to truck in minutes!



TECHNICAL & REFERENCE MATERIAL

Bonded Abrasives Application Chart _____	10-11
Bonded Abrasives Introduction _____	6-9
Coated Abrasives Application Chart _____	66-67
Coated Abrasives Introduction _____	64-65
Flap Discs Introduction _____	68-69
Index by Product Description _____	154-155
Marking System _____	8
Metal-Cutting Carbide Blade Technical Data _____	59
Promotional Information and Displays _____	149-151
Products By Tool Index _____	153
Safety Information _____	152
Storage and Handling _____	8 & 65
Super-Lock™ Hub _____	12
Wheel Label Example _____	8

BONDED ABRASIVES

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.

Main Components of Resinoid Bonded Abrasives

Abrasive Grains

Abrasive grains, sometimes referred to as grit, are particles of man-made compounds. The chemical structure of the grains determines the physical properties such as the shape and sharpness of each particle along with its hardness and friability (the propensity to break down). 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 - Zirconium**
A very fine, dense crystalline grain which can be used for rugged stock removal
- **SG - Ceramic**
A unique ceramic aluminum oxide that is two or three times tougher than standard aluminum oxide

Bonding Agent

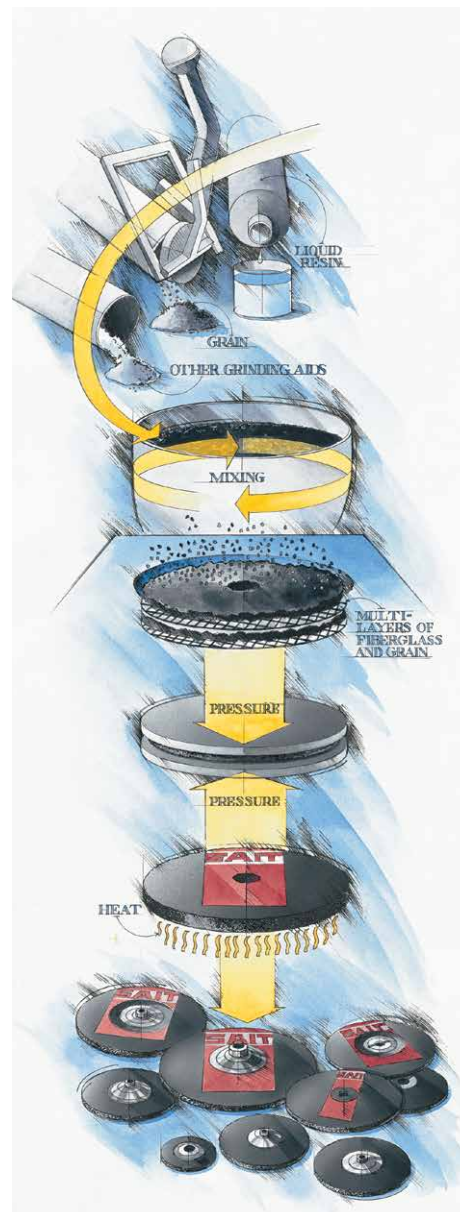
The bonding agent that holds the grains together determines the resistance of the wheel.

Reinforcement

The reinforcement material provides strength to operate the abrasive product at the marked maximum RPMs and to withstand lateral pressure that is applied during use. This critical element, unseen to the naked eye, determines the structural strength of the product.

Combining the Components

During the manufacturing process, these three components are combined to form an abrasive tool. The grains and bonding agents are measured, combined, and then pressed in an automated hydraulic press. The items are then cured in temperature controlled ovens.

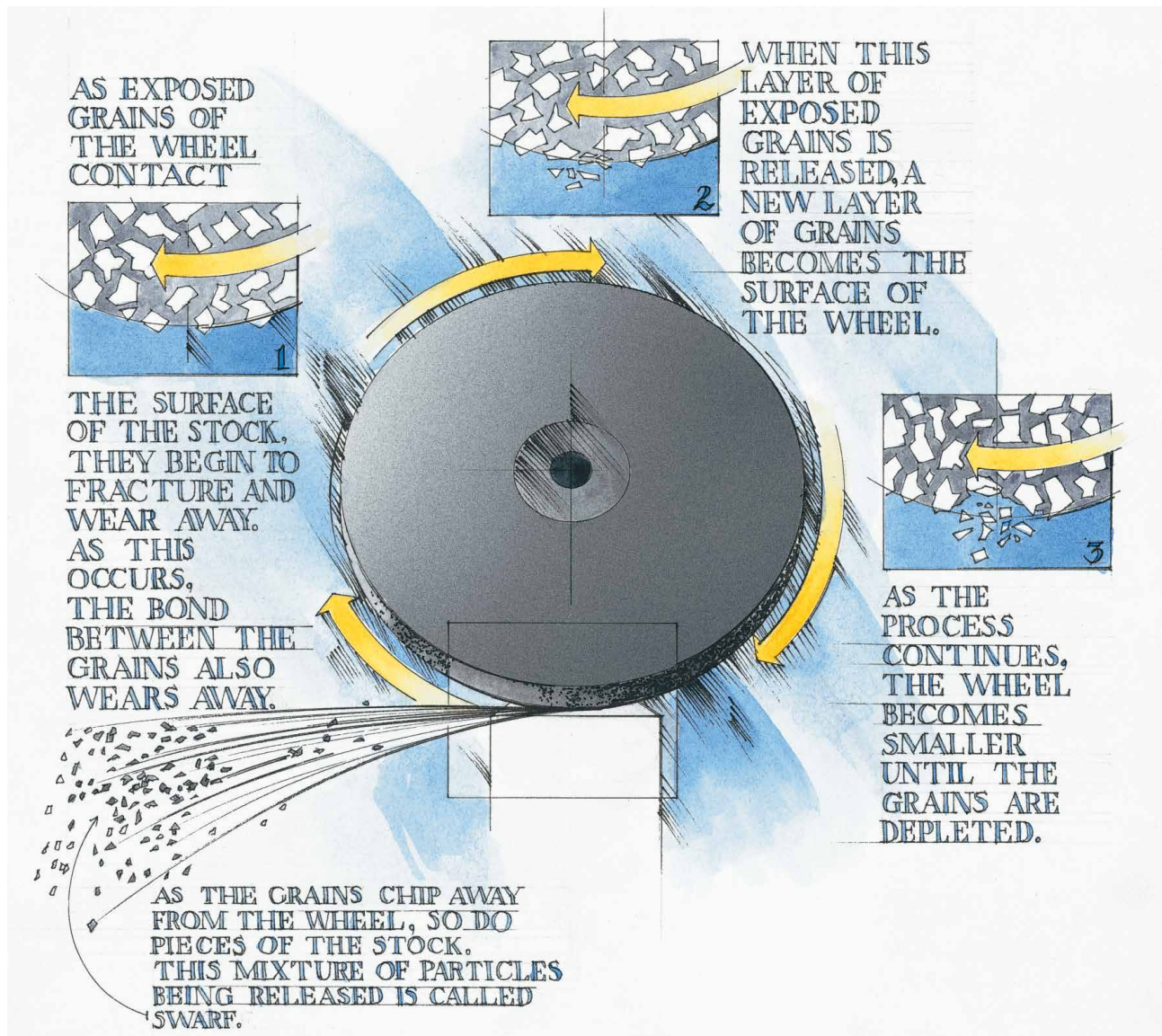



The

Difference

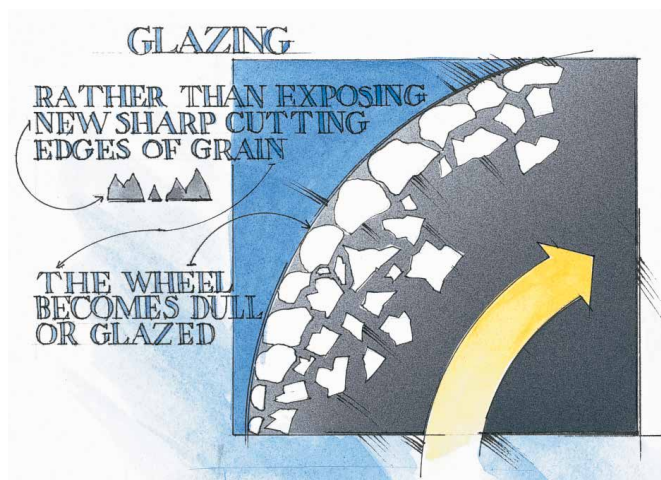

- Only uses first quality, premium grains that are made to our specifications
- Never uses inferior fillers or bonding agents
- Always uses first quality, heavy duty fiberglass to ensure your safety
- The manufacturing process, from start to finish, incorporates state-of-the-art equipment, quality control analysis and compliance, and rigorous product evaluation to ensure our customers receive the safest, most consistent and best performing wheels on the market

How a Wheel Works



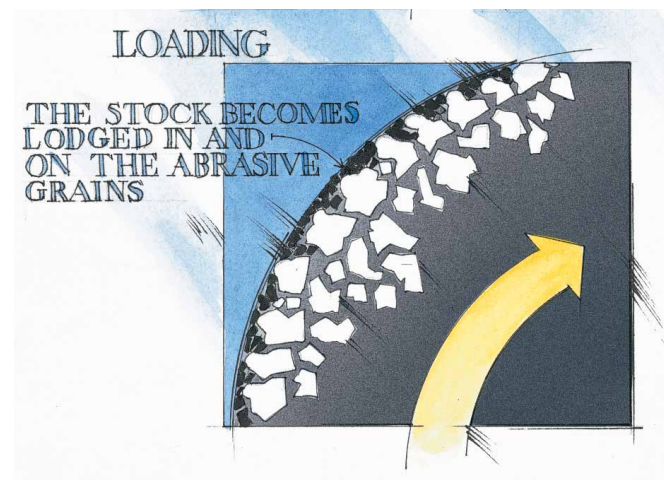
Common Occurrences With Grinding/Cutting Applications

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

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 needed 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, shall 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
- Please refer to the Safety Guide accompanying the product and on page 162 of this catalog.

Cutting & Grinding 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 General Purpose Grinding Wheels																	
A24N - Fast Grinding	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
A24R - Long Life	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
A24T - Edge Grinding	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
C24N - Concrete			•														
Type 27 Specialty Grinding Wheels																	
A46N - Aluminum																	
The Ultimate Grind™ - Premium Performance	•	•		•	•	•	•	•	•	•				•	•		•
Sait Z-tech™ - Zirconium High Performance	•	•		•	•	•	•	•	•	•				•	•		•
Saitech Ultimate Performance™ - Ceramic High Performance								•						•	•		•
Saitech Attacker® - Ceramic Fast Cutting			•					•						•	•		•
Stainless Contaminant Free														•			
Type 28 Grinding Wheels																	
A24N - Fast Grinding	•	•	•	•	•			•	•	•				•	•		•
A24R - Long Life	•	•	•	•	•		•		•	•				•	•		•
Saitech Ultimate Performance™ - Ceramic High Performance	•					•						•			•		•
Type 29 Flexible Grinding/Blending Wheels																	
Challenger II™ / Challenger 3	•	•			•	•		•	•	•	•		•	•	•		•
Type 27 Specialty Cutting & Light Grinding Wheels																	
Pipeline A24R - General Purpose	•	•			•	•			•	•	•	•	•	•	•	•	•
Sait Z-tech™ Pipeline / The Ultimate Pipeline™ - High Performance	•	•			•	•			•	•	•	•	•	•	•	•	•
Saitech™ Pipeline (S Pipe) - Ceramic	•	•		•			•	•	•	•				•	•		•
Type 27 (42) Cutting Wheels																	
A24R - Long Life	•	•		•	•	•	•		•	•				•	•		•
.095 - Cuts and Light Grinds	•	•		•	•	•	•		•	•				•	•		•
C24R - Concrete			•														
Type 27 (42) Specialty Cutting Wheels																	
Sait Z-tech™ - Zirconium High Performance	•	•		•	•	•	•		•	•				•	•		•
A46N .045 - Aluminum																	
Saitech .045 / The Ultimate Cut™ .045 - High Performance				•	•				•	•				•	•		•
Stainless Contaminant Free														•			
Type 1 Chop Saw Wheels - Cutting																	
EZ-Chop Attacker® - General Purpose	•	•			•		•		•		•	•		•	•		•
EZ-Chop® / Stud King® - Burr Free Finish											•	•		•	•		•
Saitech Steel Worker® / Z-tech™ - High Performance				•				•					•	•		•	•
Iron Worker™ - Structural Metal Applications	•	•			•		•		•					•	•		•
Non-ferrous Metals - Aluminum																	
Type 1 (41) High Speed Cut-off Wheels																	
A24R - General Purpose / Durability	•	•		•	•		•		•	•				•	•		•
SAIT-Pro - Economical Choice	•	•		•	•	•		•	•	•	•	•	•	•	•	•	•
A60S .045" - General Purpose				•	•				•				•	•	•	•	•
Saitech™ .045 / Z-tech™ .045 / The Ultimate Cut™ .045 - High Performance				•	•				•	•	•			•	•		•
C24R - Concrete			•														
Type 1 Portable Saw Cut-off Wheels																	
Brute™ - Thin Metal						•					•	•	•				
Hobo® - Railroad - rail steel	•	•			•		•		•	•							
Ductile™ - Ductile Pipe			•						•								
Big M.A.C.™ - Masonry, Asphalt, Concrete																	
Type 1 Cut-off Wheels for Street Saws																	
C16 - Green concrete, asphalt																	
C24R - Concrete																	
Street Walker™ - Hot pressed - fast cut																	
Street Runner™ - Hot pressed - long life																	
Type 1 Wheels for Stationary Cut-off Saws																	
A24N - Fast Cutting	•	•	•	•	•		•	•	•	•				•	•		•
A24R - Long Life	•	•		•	•	•	•	•	•	•				•	•		•
A36R - Burr-Free		•			•		•	•						•	•		•
C24R - Concrete																	
Metal-Cutting Carbide Blades																	
Type 1 (41) Thin High Speed Cut-off Wheels																	
A24R - General Purpose	•	•					•		•		•	•	•		•		•
A36T - Fast Cutting	•	•					•		•		•	•	•		•		•
A60T - Burr-Free							•				•	•					
Saitech Ultimate Performance™ - Ceramic High Performance				•				•						•			
Type 11 Cup Wheels																	
A16 - General Purpose						•			•					•	•		•
Z16 - Zirconium						•			•					•	•		•
C16 - Concrete			•											•	•		•
CA16 - Combination				•		•											
Type 16,17,18 Cones & Plugs																	
Resin Bonded Mounted Points																	

* Indicates most common usages

Exclusive Super-Lock™ Hub

Super-Lock™ combines a mechanically interlocked transversed key lock system with a unique two-part bonding system to give it superior performance capabilities. Other manufacturers use hubs that depend only on 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.

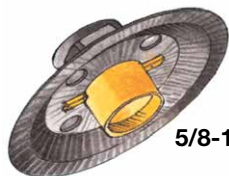
Patented

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 4-1/2", 5", 6", 7" and 9" Type 27 and Type 28 depressed center grinding and cutting wheels. Turbo 5" x 1/8", .045" wheels, .090" wheels, .095" wheels and flap discs do not have Super-Lock™ Hubs but use a non-keyway hub with the same unique two-part bonding system.

Look for this drawing throughout the catalog indicating the wheels that are available with the Super-Lock™ Hub.



5/8-11 Super-Lock™ Hub

Unique two-part epoxy bonding system applied to the hub area



Before



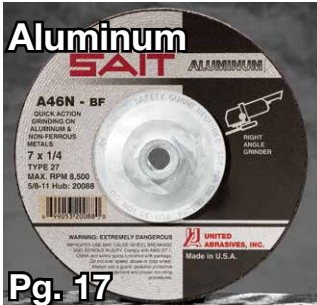
After

GRINDING



- This section contains eleven 1/4" thick grinding specifications (Type 27, 28 and 29).
- You will also find Cones, Plugs, Cup Stones, Mounted Points, Challenger II, and Challenger 3.

TYPE 27



TYPE 28



PAGES 14-17

- A24N**
Fast Grinding
- A24R**
Long Life
- A24T**
Edge Grinding

The Ultimate Grind™
High performance grinding
for the toughest applications

Sait Z-tech™

Extremely Fast
Stock Removal
Special Zirconium Grain

Can be used on
Stainless Steel

A46N

Extremely Fast
Stock Removal
Non-loading Formula

PAGES 19-20

- A24N**
- A24R**
- Saitech
Ultimate
Performance™**

TYPE 27



PAGES 16-18

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 & 3



Mounted Points



Cones & Plugs



Cup Stones



Grinding

1/4"

TYPE 27 Depressed Center Wheels

GRINDING
WHEELS

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

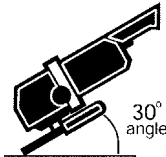
- Aluminum oxide grain - our most popular wheel
- For general purpose grinding
- **Longer life** for fewer wheel changes

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

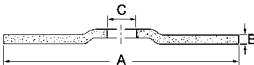
METAL Ferrous Metals (iron, steel, welds, etc.)



Angle Grinder



5/8-11 Super-Lock™ Hub



Size			Max RPM	Grades Available			Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		A24N	A24R	A24T			
3	1/4	3/8	18,000	20002	-	-	25	100	4
4	1/4	3/8	13,500	20012	-	-	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



Quick Tip

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

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
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry

TYPE 27 Depressed Center Wheels

Grinding 1/4"

GRINDING
WHEELS

HIGH PERFORMANCE



The Ultimate Grind™

- Proprietary grain and bond system
- High performance grinding for the toughest applications

METAL Ferrous metals (iron, steel, welds)

STAINLESS Stainless steel, high tensile alloys

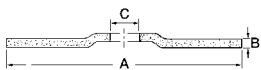


Z24R - Zirconium

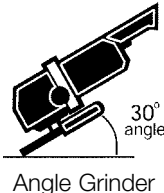
- Tough zirconium grain
- High performance grinding for the toughest applications

METAL Ferrous metals (iron, steel, welds)

STAINLESS Stainless steel, high tensile alloys



5/8-11
Super-Lock™ Hub



Angle Grinder

Size			Max RPM	Grades Available		Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Ult. Grind™	Z24R			
4	1/4	5/8	13,500	-	22599	25	100	7
4-1/2	1/4	7/8	13,300	22414	22600	25	100	9
4-1/2	1/4	5/8-11	13,300	22514	22610	10	40	6
5	1/4	7/8	12,200	22415	22602	25	100	12
5	1/4	5/8-11	12,200	22515	22612	10	40	6
6	1/4	7/8	10,200	22416	22603	25	50	20
6	1/4	5/8-11	10,200	22516	22613	10	40	9
7	1/4	7/8	8,500	22417	22604	25	50	25
7	1/4	5/8-11	8,500	22517	22614	10	40	14
9	1/4	7/8	6,600	22419	22606	25	50	42
9	1/4	5/8-11	6,600	22519	22616	10	40	21



- The highest quality zirconium grain
- All sizes made with uniform grain throughout, no filler grain used
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry

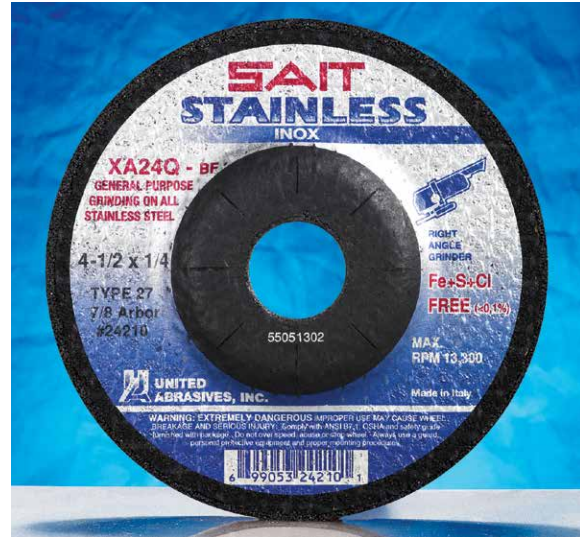
Grinding

1/4"

TYPE 27 Depressed Center Wheels

GRINDING
WHEELS

CONTAMINANT-FREE/STAINLESS STEEL



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.)

XA24Q - Contaminant-Free

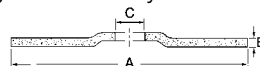
- Specially formulated for nuclear and food processing plants where the need for contaminant-free stock removal on stainless steel is a concern
- Free of iron, chlorine and sulphur compounds (Fe + Cl + S <0.1%)

STAINLESS Stainless steel and other high tensile alloys

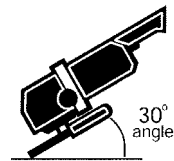
METAL Ferrous metals (iron, steel, welds, etc.)

contaminant **cf** free

- Will not contaminate stainless steel



Size			Max RPM	Grades Available			Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers					
4	1/4	3/8	13,500	-	20112	-	25	100	7
4	1/4	5/8	13,500	-	20014	-	25	100	8
4-1/2	1/4	7/8	13,300	20046	20064	24210	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	24215	25	100	13
5	1/4	5/8-11	12,200	20147	20174	-	10	40	8
6	1/4	7/8	10,200	-	-	24220	25	50	20
7	1/4	7/8	8,500	20048	20084	24225	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	24230	25	50	43
9	1/4	5/8-11	6,600	20149	20099	-	10	40	21



Angle Grinder

Tech INFO

- Saitech™, manufactured with patented 3M™ ceramic abrasive grain, is designed to outlast standard aluminum oxide wheels (3M is a trademark of 3M Company)
- 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
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry

TYPE 27 Depressed Center Wheels

Grinding
1/4"

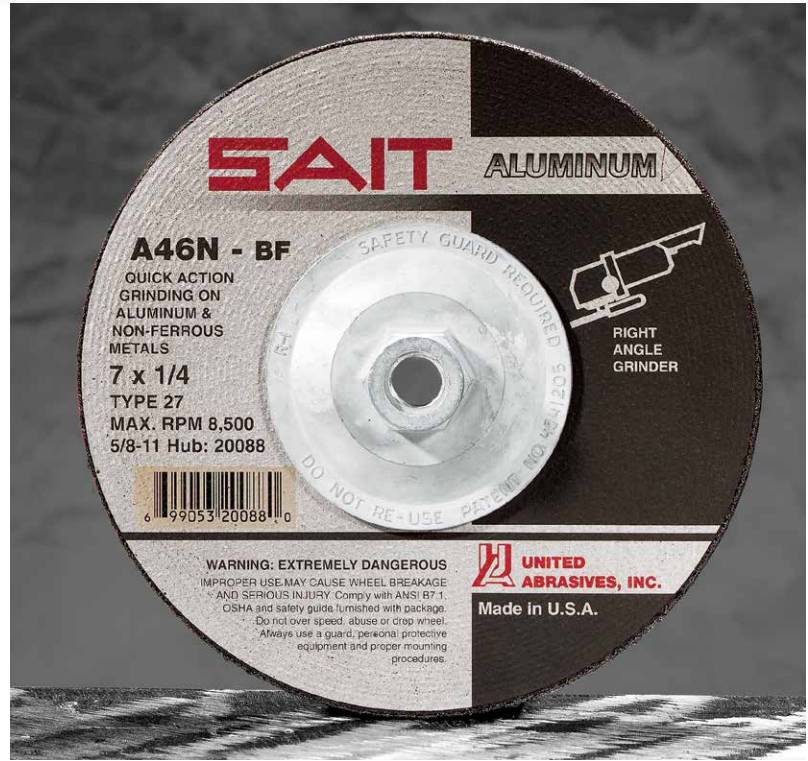
GRINDING
WHEELS

ALUMINUM

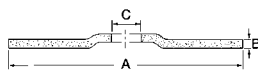
A46N - Aluminum

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

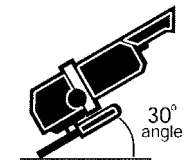
ALUMINUM Non-ferrous metals
(aluminum, copper, brass, etc.)



See pages 30-31 for Cotton Fiber grinding and blending products for aluminum



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	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



Angle Grinder

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
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry

Grinding

1/4"

TYPE 27 Depressed Center Wheels

GRINDING
WHEELS

CONCRETE



C24N - Concrete

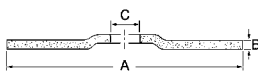
- Silicon carbide grain
- Soft bond for fast stock removal

CONCRETE Masonry, concrete, stone

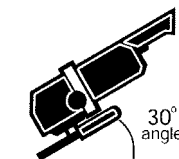
METAL Cast iron and other ferrous metals

QT 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					
4-1/2	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



Angle Grinder

Tech INFO

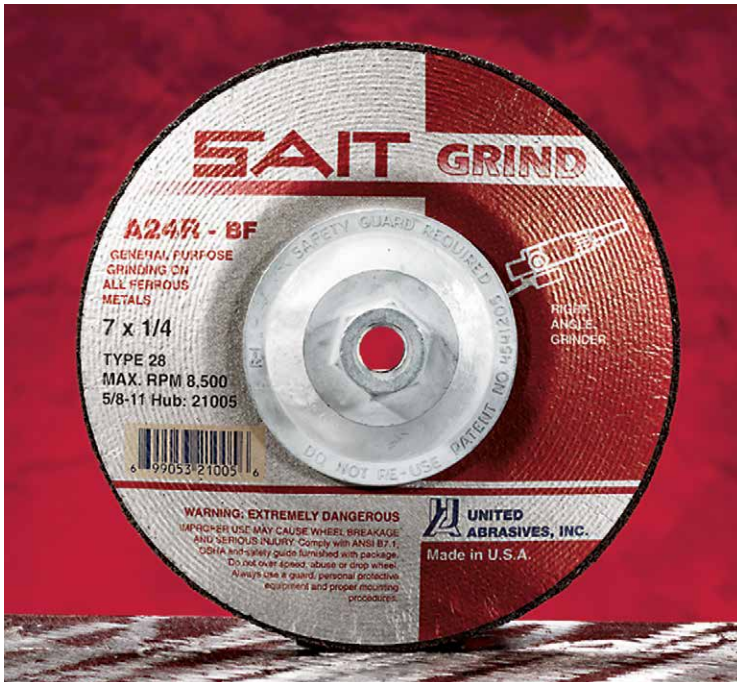
- Special silicon carbide grain formula is excellent for grinding masonry, concrete, stone and aggregate
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry

TYPE 28 Depressed Center Wheels

Grinding 1/4"

GRINDING
WHEELS

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

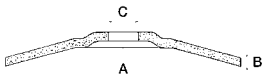
METAL

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

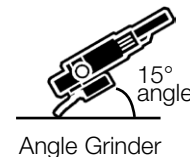


Quick Tip

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



Size			Max RPM	Grades Available		Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Part Number				
				A24N	A24R			
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	-	21000	25	50	23
7	1/4	5/8-11	8,500	-	21005	10	40	13
9	1/4	7/8	6,600	-	21010	25	50	38
9	1/4	5/8-11	6,600	-	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
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry

Grinding

1/4"

TYPE 28

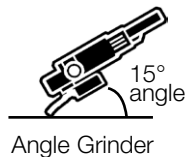
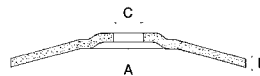
Saitech High Performance Wheels

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



- Type 28 saucer shape (see diagram above) allows greater surface area coverage and provides the operator with greater grind visibility
- Saitech™, manufactured with patented 3M™ ceramic abrasive grain, is designed to outlast standard aluminum oxide wheels (3M is a trademark of 3M Company)
- Additional fiberglass reinforcement for maximum safety in high lateral pressure applications
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry

TYPE 29

Blending

Flexible Grinding/Blending Wheels

GRINDING
WHEELS

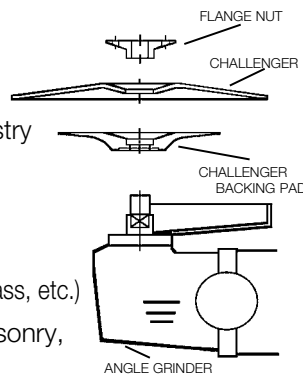
SPECIALTY



Challenger II™

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

PROPER CLAMPING PROCEDURES



- | | |
|------------------|--|
| METAL | Steel, iron, bronze |
| STAINLESS | Stainless steel |
| ALUMINUM | Non-ferrous metals (aluminum, copper, brass, etc.) |
| CONCRETE | Also for use on masonry, plastic, fiberglass |

Packaging

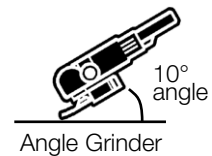
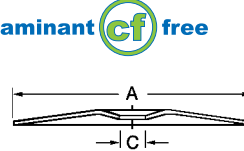
Each box of 25 supplied with a backing pad and one 5/8-11 nut
Additional pad assembly:
4-1/2" & 5" - #95245
7" - #95247
For additional pads & nuts see pg. 142

Quick Tip
Use Challenger II™ for longer life in aggressive applications.

contaminant **cf** free



contaminant **cf** free



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

Size		Max RPM	Part Numbers/Grits Challenger 3		Qty Per Box	Lbs Per Box
A Dia.	C Bore		36	60		
4-1/2	7/8	13,280	27610	27611	10	3
5	7/8	12,200	27615	27616	10	3

Tech
INFO

- 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



Z16 - Zirconium

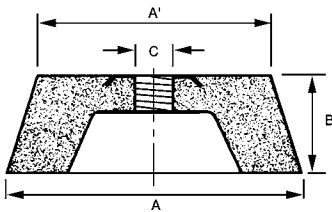
- Special zirconium grain formulation
- Coarse grit and hard bond for the toughest grinding applications
- Outlasts standard aluminum oxide cup wheels 2:1

- 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

CUP
STONES

CONCRETE



C16 - Concrete

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

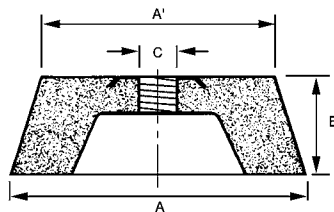
CONCRETE Masonry, concrete, stone

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 metals

CONCRETE and/or concrete materials



Available with an optional metal backing



Angle Grinder

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	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

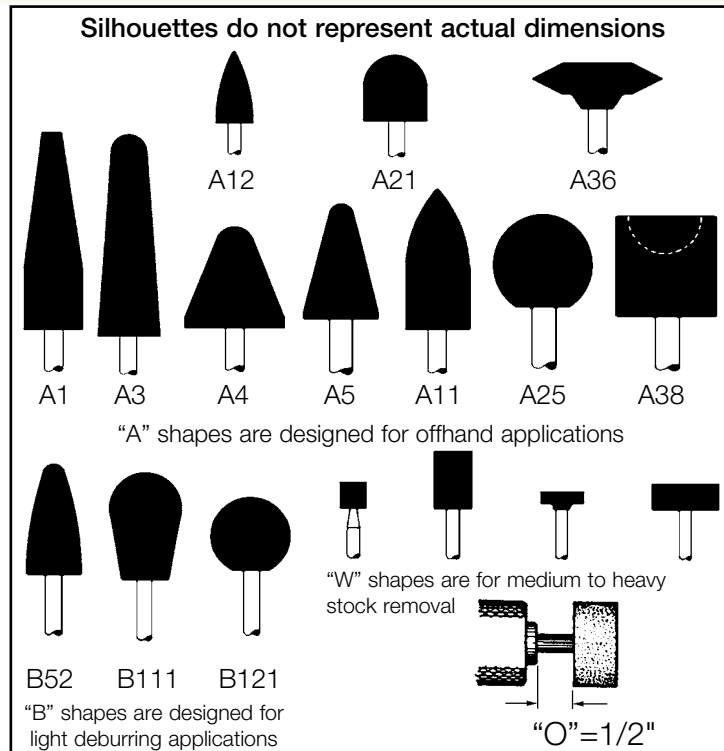
A36Q - Resin Bonded

- 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 dia. to perform without vibration or run-out

TYPE 16, 17, 18 Cones & Plugs

Grinding

CONES & PLUGS

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.)

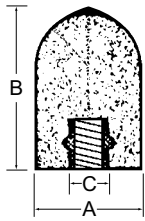
Packaging
10 per box



Die Grinder

Type 16 Cone

Size			Grade Available	Max RPM	Part No.	Qty Per Box	Lbs Per Box
A Dia.	B Length	C Bore					
1	3	3/8-24	A20	36,300	24999	10	3
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
3	3	5/8-11	A20	12,000	25009	10	16



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	3	3/8-24	A20	36,300	25200	10	4
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	3	3/8-24	A20	36,300	25300	10	3
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

"THE ULTIMATE" Product Line

THE BEST GETS EVEN BETTER!

THE ULTIMATE™ grind



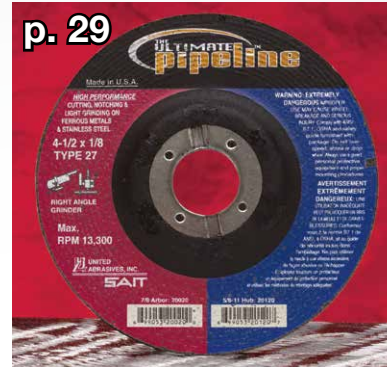
NEW!

Premium Performance!

- Proprietary grain and bond system
- High performance grinding for the toughest applications

METAL STAINLESS

THE ULTIMATE™ pipeline



NEW!

Premium Performance!

- Proprietary grain and bond system
- Fast, free-cutting with exceptional life
- Premium performance cutting and light grinding for the toughest applications

METAL STAINLESS

THE ULTIMATE™ cut



- Best in class – cutting a wide range of **STAINLESS** thin & thick gauge, flat stock, bar stock, square tubing, etc.
- Exceptional cutting performance on

METAL ALUMINUM

Premium Performance!

THE ULTIMATE™ ceramic CUT-OFF

NEW!



- Premium ceramic aluminum oxide grain
- Exceptionally long-lasting on carbon steel, stainless steel, and hard to grind alloys
- Maximizes productivity

METAL STAINLESS

Premium Performance!

4 in 1 THE ULTIMATE™ combo

CUT • NOTCH • DEBUR • LIGHT GRIND

A60S - General Purpose

- Aluminum oxide grain
- Consistent performance with long life for cutting, notching, deburring, & light grinding

26

METAL



Now Available in 6"

Premium Performance!

Z-Tech High Performance

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

METAL STAINLESS

PIPELINE INTRODUCTION



PIPELINE
WHEELS

- This section contains four 1/8" thick specifications
- Designed and manufactured to perform both cutting and light grinding
- Pipeline wire brushes also available (pages 135-136)



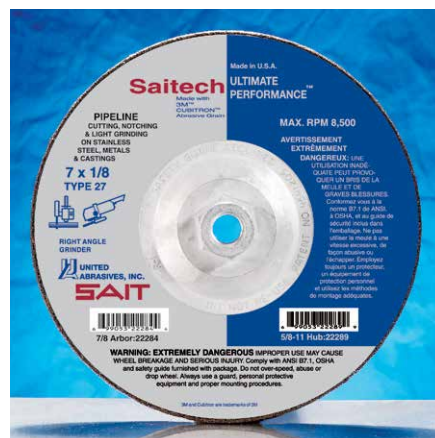
A24R Pipeline
General Purpose



Z24R
High Performance



The Ultimate Pipeline™
Premium Performance

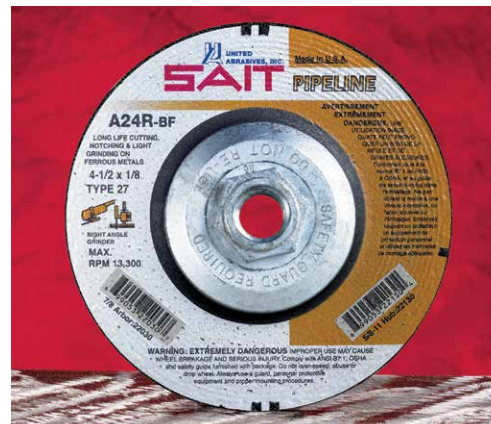


Saitech™ Pipeline
High Performance
Stainless Steel

A24R Pipeline - General Purpose

- Aluminum oxide grain
- Designed and manufactured to perform both cutting and light grinding

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

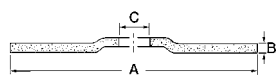


Z24R

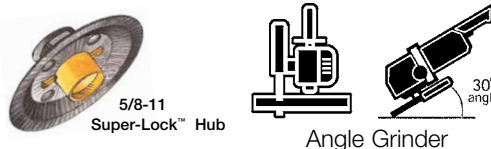
- Tough zirconium grain
- High performance cutting and light grinding for the toughest applications

METAL Ferrous metals (iron, steel, welds)

STAINLESS Stainless steel, high tensile alloys



Size			Max RPM	Part Number		Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Pipeline	Z-tech™			
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	22620	25	100	6
4-1/2	1/8	5/8-11	13,300	22130	22630	10	40	5
5	1/8	7/8	12,200	22040	22622	25	100	7
5	1/8	5/8-11	12,200	22140	22632	10	40	5
6	1/8	7/8	10,200	22042	22623	25	50	10
6	1/8	5/8-11	10,200	22046	22633	10	40	8
7	1/8	7/8	8,500	22055	22624	25	50	15
7	1/8	5/8-11	8,500	22052	22634	10	40	10
9	1/8	7/8	6,600	22065	22626	25	50	25
9	1/8	5/8-11	6,600	22062	22636	10	40	13



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).



Also available:
Pipeline Brushes
page 136



- 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
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry

TYPE 27

Specialty Pipeline Wheels

Cutting/Grinding

1/8"

PIPELINE
WHEELS

STAINLESS STEEL/HIGH PERFORMANCE



The Ultimate Pipeline™

- Proprietary grain and bond system
- Fast, free-cutting with exceptional life
- Premium performance cutting and light grinding for the toughest applications



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



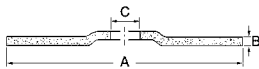
Saitech™ Pipeline

- 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



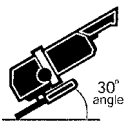
Size			Max RPM	Part Number		Qty Per Box	Qty Per Ctn	Lbs Per Box	
A Dia.	B Width	C Bore		Ult. Pipe™	Saitech™			Z-tech™	Saitech™
4-1/2	1/8	7/8	13,300	20020	22264	25	100	6	7
4-1/2	1/8	5/8-11	13,300	20120	22269	10	40	5	5
5	1/8	7/8	12,200	20025	22274	25	100	8	8
5	1/8	5/8-11	12,200	20125	22279	10	40	11	10
6	1/8	7/8	10,200	20030	-	25	100	11	-
6	1/8	5/8-11	10,200	20130	-	10	40	8	-
7	1/8	7/8	8,500	20035	22284	25	50	17	20
7	1/8	5/8-11	8,500	20135	22289	10	40	9	10
9	1/8	7/8	6,600	20040	22294	25	50	26	32
9	1/8	5/8-11	6,600	20140	22299	10	40	14	16



5/8-11 Super-Lock™ Hub



Angle Grinder



30° angle

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)



Also available: Pipeline Brushes page 136



- 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
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry
- Saitech™, manufactured with patented 3M™ ceramic abrasive grain, is designed to outlast standard aluminum oxide wheels (3M is a trademark of 3M Company)

Blending



Die Grinder



Angle Grinder

COTTON FIBER

COTTON FIBER

COTTON FIBER

A24 UA-MTX

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

STAINLESS Stainless steel

ALUMINUM Non-ferrous metals

METAL Ferrous metals

A36 UA-GFX

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

STAINLESS Stainless steel

ALUMINUM Non-ferrous metals

METAL Ferrous metals

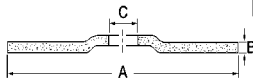
A54 UA-GFX

- UA-GFX latex bond for weld blending and finishing

STAINLESS Stainless steel

ALUMINUM Non-ferrous metals

METAL Ferrous metals



Size			Max RPM	Grades Available			Qty Per Box	Lbs Per Box
A Dia.	B Width	C Bore		A24	A36	A54		
4	1/4	5/8	13,500	-	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

ALUMINUM Non-ferrous metals

METAL Ferrous metals

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	38,550	10
B42	1/2	3/4	1/4	50561	50361	61,120	10
B52	3/8	3/4	1/4	50562	50362	78,340	10
B121	1/2	1/2	1/4	-	50363	69,310	10
B122	3/8	3/8	1/4	-	50364	69,310	10
W163	1/4	1/2	1/4	-	50365	33,750	10
W189	1/2	2	1/4	50566	50366	26,830	10
W220	1	1	1/4	-	50367	25,500	10
W222	1	2	1/4	-	50368	15,900	10



RA (roughness average) Values

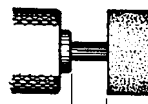
Specification	304 Stainless Steel	6061 Aluminum
A24UA-MTX	140 RA	N/A
A36UA-GFX	40 RA	130 RA
A54UA-GFX	30 RA	80 RA



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"



Tech INFO

- 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



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

ALUMINUM Non-ferrous metals

METAL Ferrous metals

A36F

- Medium grit with higher flexibility for smoother action

STAINLESS Blending on stainless steel, high tensile alloys

ALUMINUM Non-ferrous metals

METAL Ferrous metals

A54F

- Fine grit with higher flexibility for finishing

STAINLESS Blending on stainless steel, high tensile alloys

ALUMINUM Non-ferrous metals

METAL Ferrous metals

A80F

- Finer grit for ultimate finishing

STAINLESS Blending on stainless steel, high tensile alloys

ALUMINUM Non-ferrous metals

METAL Ferrous metals



Nylon screw threaded hub for easy mounting to the backing pad

See page 145 for backing pad

RA (roughness average) Values

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



Deburring wheels

A54GFX/A54MTX

- Fine grit with higher flexibility for finishing

STAINLESS Deburring of stainless steel, high tensile alloys

ALUMINUM Non-ferrous metals

METAL Ferrous metals

Size Dia.	Max RPM	Part Numbers				Qty Per Box	Lbs Per Box
		A24M	A36F	A54F	A80F		
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		Part Numbers			
3	1/16	3/8	18,000	-	29310	10	1
3	1/8	3/8	12,000	29312	-	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/FLOOR RUBS



Hand Rub

VITRIFIED

VITRIFIED

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

VITRIFIED

VITRIFIED

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 Dia.	B Width	C Bore		Part Numbers					
				A24	A36	A46	A60	A80	
6	1/2	1	4,456	-	28003	-	28004	28005	1-1/2
6	3/4	1	4,456	-	28000	-	28001	28002	2
6	1	1	4,456	-	28006	-	28007	28008	2-1/2
7	3/4	1	3,760	-	28010	-	28011	28012	2-1/2
7	1	1	3,760	-	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	2,674	-	28040	28043	28041	28042	7
10	1-1/2	1-1/4	2,674	-	28050	28053	28051	28052	10
12	2	1-1/2	2,228	28060	28063	28061	28062	-	19-1/2
14	2	1-1/2	1,910	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	4,456	28100	28101	28102	1-1/2
6	1	1	4,456	28103	28104	28105	2
7	1	1	3,760	28113	28114	28115	2-1/2
8	1	1	3,600	28123	28124	28125	3-1/2
10	1	1-1/4	2,674	28140	28141	28142	6-1/2
12	2	1-1/2	2,228	28160	28161	28162	19-1/2
14	2	1-1/2	1,910	28170	28171	-	28



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



CUTTING

- This section contains Type 27 and Type 1 cut-off wheels.
- 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.

CUTTING
WHEELS

PRODUCT TYPE	SPECS	PAGES
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Thin High Speed Cut-Off Wheels



A24R
General Purpose
A36T
Long Life
A60T
Burr-free Cutting
Saitech™
Stainless Steel

46-47

.045, .090 & 1/16 High Speed Cut-Off Wheels



A60S
General Purpose
A46N
Aluminum
SAIT.M.X.™
Fast burr-free cutting
SAIT Z-tech™
High Performance

Saitech™
Stainless Steel
The Ultimate Cut™
Best in Class
The Ultimate Ceramic™
Premium
XA46R
Contaminant-Free

36-41



.095 The Ultimate Combo™ Wheels



A60S
General Purpose
Z-Tech™
High Performance

42

3/32 & 1/8








A24R
General Purpose
SAIT Z-tech™
High Performance
Saitech Ultimate Performance™
High Purpose/Stainless Steel
C24R
Concrete
XA24Q
Contaminant-Free

43-45

CUTTING

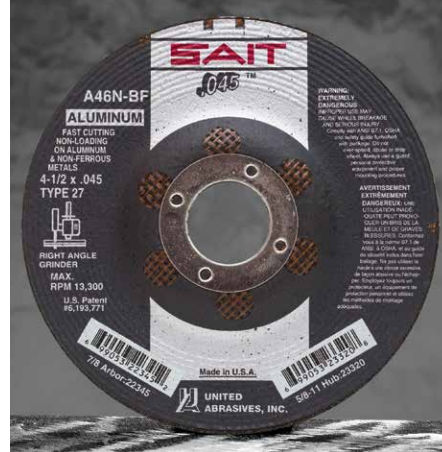


PRODUCT TYPE	SPECS		PAGES
Portable Saw Cut-Off Wheels 	A24R General Purpose SAIT XFC™ Extremely Fast Cutting SAIT-Pro Metal Brute™ Metal Decking A30S Long Life	Hobo® Rail Steel Ductile™ Ductile Pipe C24R Concrete Big M.A.C.™ Masonry, Asphalt, Concrete	48 52-54
Chop Saw Wheels 	EZ-Chop Attacker® General Purpose EZ-Chop® Burr Free SAIT Z-tech™ High Performance	Stud King® Metal Studding Iron Worker™ Angle Iron Saitech™ Steel Worker® Stainless Aluminum	50-51
Metal-Cutting Carbide Blades 	Steel Worker® TMX - Thin Metal Xtra Stainless Aluminum		58-61
Stationary Saw Cut-Off Wheels 	A24N Fast Cutting A24R General Purpose	A36R Stainless Steel C24R Concrete	56-57
Street Saw Wheels 	C16 Fast Cutting Street Walker™ Asphalt Street Runner™ Asphalt, Green Concrete		55

Cutting .045"

TYPE 27 Depressed Center Wheels

PATENTED!



CUTTING
WHEELS

GENERAL PURPOSE

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.)

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.)



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**

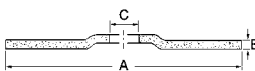
METAL Ferrous and/or non-ferrous metals (iron, steel, welds, etc.)

STAINLESS Stainless steel, high tensile alloys

QT Quick Tip
Try .045 sizes for longer life and better value.

See pages 38-39 for Type 1 .045 wheels

.045™



Size			Max RPM	Grades Available			Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers					
4	.045	5/8	19,000	22011	-	-	50	200	4
4-1/2	.045	7/8	13,300	22021	22345	23334	50	200	4
4-1/2	.045	5/8-11	13,300	23318	23320	23322	10	40	2
5	.045	7/8	12,200	22071	22350	23335	50	200	6
5	.045	5/8-11	12,200	23305	23307	23309	10	-	2
6	.045	7/8	10,200	22047	22360	23336	50	200	8
7	.045	7/8	8,500	22053	22370	23337	50	200	14



Angle Grinder



5/8-11 Hub

**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

TYPE 27 High Performance Wheels

Cutting .045"

PATENTED!



CUTTING
WHEELS

Saitech .045™

- 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.)

THE ULTIMATE Cut™

The Ultimate Cut™

- Best in class – cutting a wide range of **STAINLESS** thin & thick gauge, flat stock, bar stock, square tubing, etc.
- Exceptional cutting performance on

METAL ALUMINUM

THE ULTIMATE Ceramic CUT-OFF™

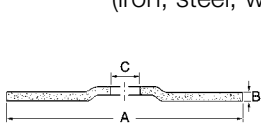
The Ultimate Ceramic™

- Premium ceramic aluminum oxide grain
- Exceptionally long-lasting on carbon steel, stainless steel, and hard to grind alloys
- Maximizes productivity

METAL STAINLESS

NEW!

STAINLESS STEEL/HIGH PERFORMANCE



See pages 38-39 for Type 1 .045 wheels

Size			Max RPM	Grades Available			Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Saitech™	Ult. Cut™	Ult. Ceramic™			
4	.045	5/8	19,000	22068	-	-	50	200	4
4-1/2	.045	7/8	13,300	22072	22380	22470	50	200	4
4-1/2	.045	5/8-11	13,300	23319	23321	22570	10	40	2
5	.045	7/8	12,200	22073	22385	22471	50	200	6
5	.045	5/8-11	12,200	23306	23308	22571	10	-	2
6	.045	7/8	10,200	22082	22390	22472	50	200	8
7	.045	7/8	8,500	22088	-	-	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)



Angle Grinder



- Saitech™, manufactured with patented 3M™ ceramic abrasive grain, is designed to outlast standard aluminum oxide wheels (3M is a trademark of 3M Company)
- 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

Cutting **.045"** **TYPE 1** Thin High Speed Cut-Off



A60S General Purpose **.045"**

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

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



See page 151 for details



SAIT.M.X.™ (Ferrous Metals)

- 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
- 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.)

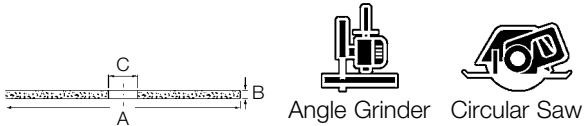


XA46R contaminant free

- 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

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			Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers					
4	.045	5/8	19,000	23099	-	-	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	-	50	200	6
6	.045	5/8	10,200	23105	-	-	50	200	8
6	.045	7/8	10,200	23106	23606	23316	50	200	8
7	.045	5/8	8,500	23107	-	-	50	200	14

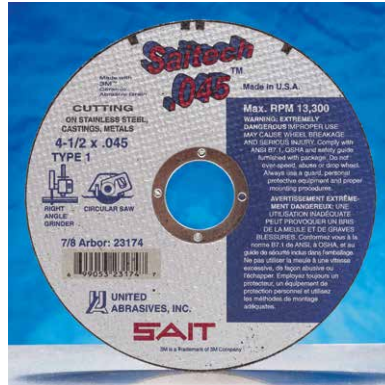
Size			Max RPM	Part No.	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
4-1/2	1/16	7/8	13,300	24251	50	200	7
5	1/16	7/8	12,200	24252	50	200	7
6	1/16	7/8	10,200	24253	50	200	14
7	1/16	7/8	8,500	24254	50	200	14



- 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
- Specially formulated for contaminant-free stock removal on stainless steel (XA46R)

TYPE 1 Thin High Speed Cut-Off

Cutting .045"



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
- Fast cutting with extremely long life

STAINLESS Stainless steel, high tensile alloys

METAL Ferrous and/or non-ferrous metals

The Ultimate Cut™

- Best in class – cutting a wide range of **STAINLESS** thin & thick gauge, flat stock, bar stock, square tubing, etc.
- Exceptional cutting performance on

METAL ALUMINUM



The Ultimate Ceramic™

- Premium ceramic aluminum oxide grain
- Exceptionally long-lasting on carbon steel, stainless steel, and hard to grind alloys
- Maximizes productivity

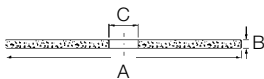
METAL STAINLESS



Angle Grinder Circular Saw

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 36-37 for Type 27 depressed center .045 cutting wheels.



Size			Max RPM	Grades Available				Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Ult. Ceramic™	Z-Tech™	Saitech™	Ult. Cut™			
4	.045	5/8	19,000	-	23323	23172	-	50	200	4
4-1/2	.045	7/8	13,300	22480	23324	23174	22230	50	200	4
5	.045	7/8	12,200	22481	23325	23177	22235	50	200	6
6	.045	5/8	10,200	-	-	23181	-	50	200	8
6	.045	7/8	10,200	22482	23327	23182	22240	50	200	8
7	.045	5/8	8,500	-	23328	23184	-	50	200	14



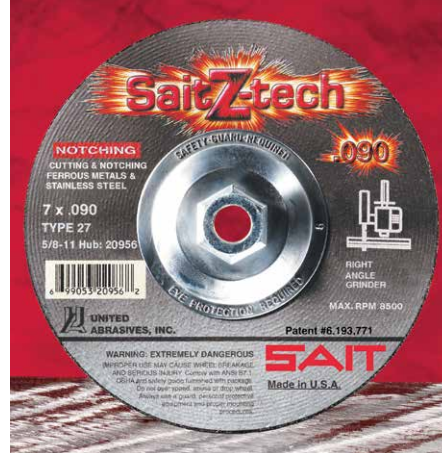
- Type 1 shape for square, burr-free cutting
- Saitech™, manufactured with patented 3M™ ceramic abrasive grain, is designed to outlast standard aluminum oxide wheels (3M is a trademark of 3M Company)
- Externally reinforced with fiberglass layers to provide ultimate safety in a thin wheel
- Wide range of sizes available to fit both angle grinders and circular saws

Cutting

.090"

TYPE 27 Depressed Center Wheels

PATENTED!



CUTTING WHEELS
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.)



Z-Tech High Performance

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

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

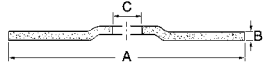
STAINLESS Stainless steel, high tensile alloys

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	Grades Available			Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers					
				A60S	Z-tech™	Saitech™			
4-1/2	.090	7/8	13,300	20903	20943	20923	25	100	4
4-1/2	.090	5/8-11	13,300	20913	20953	20933	10	40	5
5	.090	7/8	12,200	20904	20944	-	25	100	6
5	.090	5/8-11	12,200	20914	20954	-	10	40	5
6	.090	7/8	10,200	20905	20945	-	25	100	8
6	.090	5/8-11	10,200	20915	20955	-	10	40	7
7	.090	7/8	8,500	20906	20946	-	25	100	14
7	.090	5/8-11	8,500	20916	20956	-	10	40	11
9	.090	7/8	6,600	20909	-	-	25	50	21
9	.090	5/8-11	6,600	20919	-	-	10	40	11



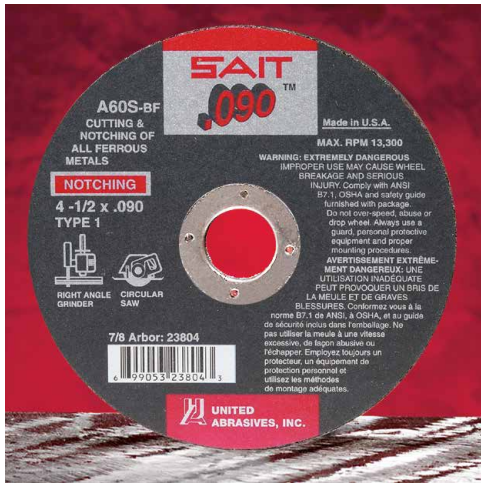
Note: Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8" available on page 143 (part #95055)



- 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
- Saitech™, manufactured with patented 3M™ ceramic abrasive grain, is designed to outlast standard aluminum oxide wheels (3M is a trademark of 3M Company)

TYPE 1 High Speed Cut-Off Wheels

Cutting .090"



.090™

A60S - General Purpose

- Aluminum oxide grain
- Provides consistent performance with long life

METAL Ferrous metals
(steel, angle iron, rebar)



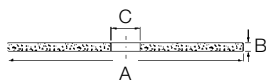
Sait Z-tech™

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 Dia.	B Width	C Bore		Part Numbers				
4-1/2	.090	7/8	13,300	23804	23824	25	100	4
5	.090	7/8	12,200	-	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



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

CUTTING
WHEELS

SPECIALTY

Combo

TYPE 27

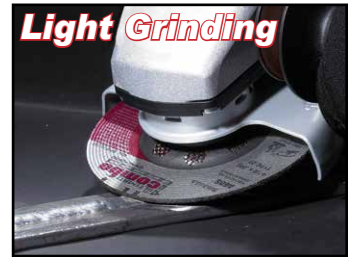
.095" Cut, Notch, Deburr, & Light Grind

4 APPLICATIONS WITH JUST 1 WHEEL

Less Wheel Changes = Greater Productivity

CUTTING WHEELS

COMBO



1 in 1 THE ULTIMATE™ combo
CUT - NOTCH - DEBUR - LIGHT GRIND

A60S - General Purpose

- Aluminum oxide grain
- Provides consistent performance with long life for cutting, notching, deburring, & light grinding

METAL Ferrous metals (steel, angle iron, rebar)

Now Available in 6"



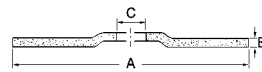
Z-Tech High Performance

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

METAL Ferrous metals (iron, steel, welds)

STAINLESS Stainless steel, high tensile alloys

.095"
4 Applications
1 Wheel!



Size			Max RPM	Grades Available		Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers				
4-1/2	.095	7/8	13,300	22320	22330	25	100	3
4-1/2	.095	5/8-11	13,300	22420	22430	10	40	4
5	.095	7/8	12,200	22325	22335	25	100	4
6	.095	7/8	10,200	22326	22336	25	100	8
6	.095	5/8-11	10,200	22426	22436	10	40	7



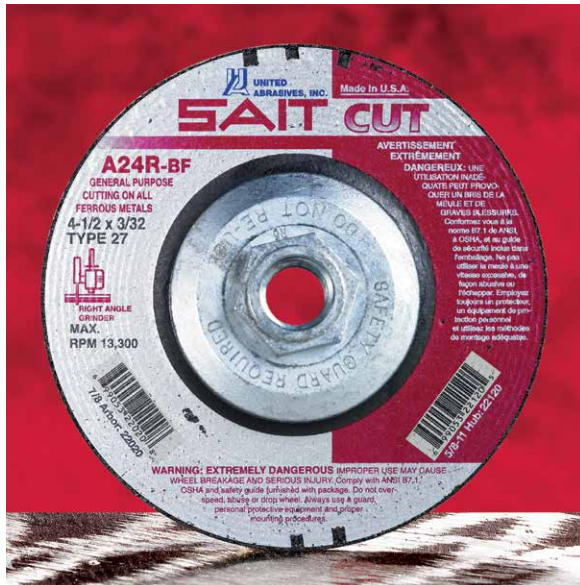
NEW 6"

Tech INFO

- Increases Productivity: 1 wheel to cut, notch, deburr, and light grind
- 2 formulas for a wide variety of production applications and maintenance work.
- Additional reinforcement for added strength and versatility

TYPE 27 Specialty Cutting Wheels

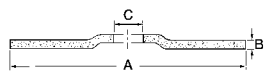
Cutting 3/32"



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					
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

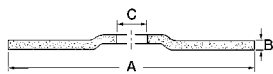


Z24R - Zirconium

- 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					
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	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



- Aggressive cutting performance over a wide range of applications
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance

CUTTING WHEELS
SPECIALTY

Saitech Cutting

TYPE 27

3/32" Saitech High Performance Wheels

CUTTING WHEELS

STAINLESS STEEL

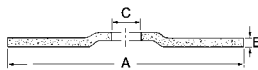


Saitech Ultimate Performance™

- 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	13
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



- Saitech™, manufactured with patented 3M™ ceramic abrasive grain, is designed to outlast standard aluminum oxide wheels (3M is a trademark of 3M Company)
- Unique bonding system lets you make faster burr-free cuts
- Designed to provide very long life for fewer wheel changes and less downtime
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry

TYPE 27 Depressed Center Wheels

Cutting
1/8"

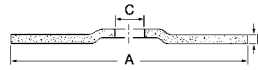


C24R - Concrete

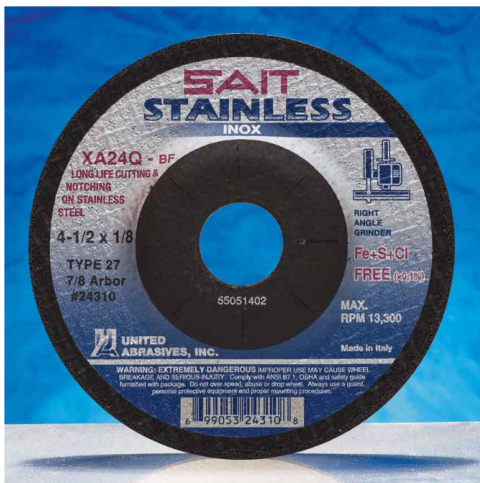
- Silicon carbide grain
- General purpose cutting, hard bond for long life

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					
4-1/2	3/32	7/8	13,300	22025	25	100	5
4-1/2	3/32	5/8-11	13,300	22125	10	40	7



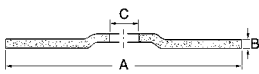
XA24Q - Contaminant-Free

- 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
- Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry
- Specially formulated for contaminant-free stock removal on stainless steel (XA24Q)

CUTTING WHEELS

STAINLESS STEEL/CONCRETE

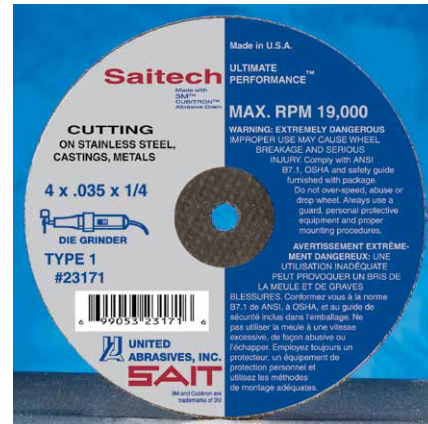
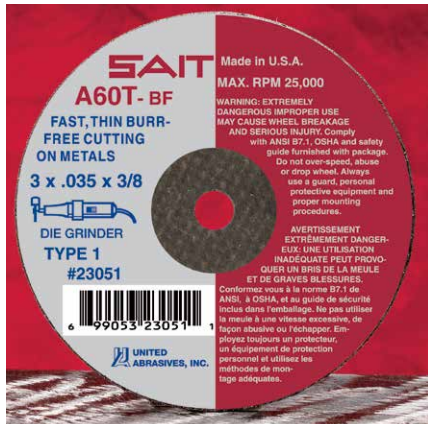
Cutting



Die Grinder

TYPE 1

Thin High Speed Cut-off Wheels



CUTTING WHEELS

STAINLESS STEEL/METAL

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

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.)

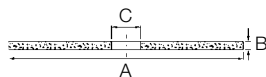
STAINLESS High tensile metals

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



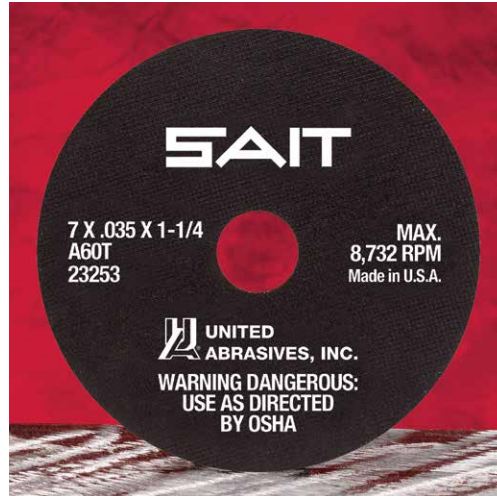
1/4" shank adaptors for wheels up to 3" diameter available on page 143

A Dia.	Size		Max RPM	Grades Available Part Numbers				Qty Per Box	Qty Per Ctn	Lbs Per Box
	B Width	C Bore		A24R	A36T	A60T	Saitech™			
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	23142	50	50	3
3	1/16	3/8	25,000	-	23040	23041	23140	50	50	3
3	.035	1/4	25,000	-	23052	23053	23152	100	100	3
3	.035	3/8	25,000	-	23050	23051	23150	100	100	3
3	1/8	3/8	20,372	23060	-	-	-	25	100	2
4	1/16	1/4	19,000	-	23067	23068	23167	50	50	5
4	1/16	3/8	19,000	-	23065	23066	23165	50	50	5
4	1/16	5/8	19,000	-	23061	23062	23161	50	50	5
4	.035	1/4	19,000	-	23071	23072	23171	100	100	5
4	.035	3/8	19,000	-	23069	23070	23169	100	100	5
4	.035	5/8	19,000	-	23063	23064	23163	100	100	5
4	1/8	3/8	15,278	23075	-	-	-	25	100	4



- Type 1 shape for square, burr-free cutting
- Saitech™, manufactured with patented 3M™ ceramic abrasive grain, is designed to outlast standard aluminum oxide wheels (3M is a trademark of 3M Company)
- Externally reinforced with fiberglass layers to provide ultimate safety in a thin wheel

Tool Room Reinforced Cut-off Wheels



CUTTING
WHEELS

GENERAL PURPOSE

A36T - Fast Cutting

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

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

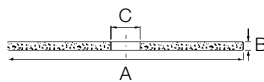
STAINLESS Stainless steel

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



Size			Max RPM	Grades Available Part Numbers		Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		A36T	A60T			
6	1/16	1/2	10,186	23202	-	50	50	8
6	1/16	5/8	10,186	23200	-	50	50	8
6	.035	7/8	10,186	23210	23211	50	50	5
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
8	1/16	5/8	7,640	-	23276	50	50	7



- 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

* These sizes are typically used for tool room applications

Cutting



Circular Saw



Angle Grinder

TYPE 1 Portable Saw Cut-off Wheels

A24R - General Purpose

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

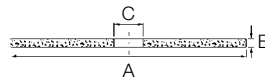
METAL Ferrous metals (steel, angle iron, rebar)

A30S - Long Life

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

METAL Ferrous metals

STAINLESS Stainless steel, high tensile alloys

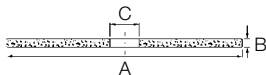


Size			Max RPM	Grades Available		Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers				
4-1/2	5/64	7/8	13,300	-	23102	50	200	9
4-1/2	3/32	7/8	13,300	23100	-	50	200	10
7	3/32	Dia. (5/8)	8,500	23234	-	25	50	10
8	3/32	Dia. (5/8)	7,600	23258	-	25	50	13

C24R - Concrete

- Silicon carbide grain
- **Long life**

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					
7	3/32	Dia (5/8)	8,500	23235	25	50	9



- Type 1 shape for square, burr-free cutting
- External fiberglass reinforcement withstands offhand lateral pressure for added safety and controlled performance
- Versatile Dia. (5/8) arbor contains diamond knockout for use on circular saw or worm drive saw

CUTTING WHEELS

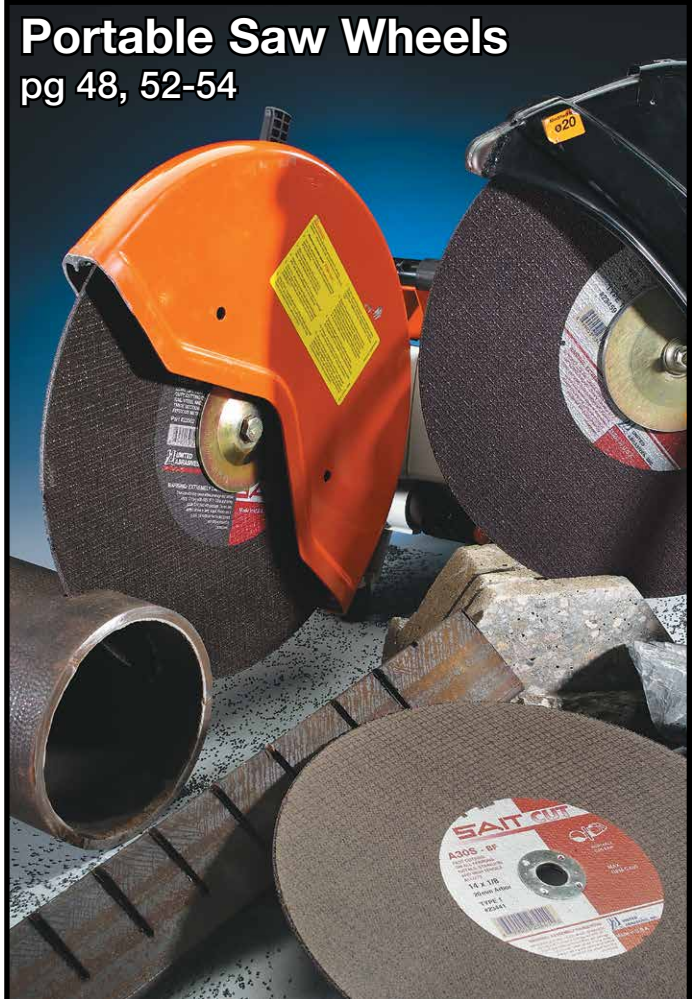
METAL/CONCRETE

Large Diameter Cutting Wheels & Metal-Cutting Blades

Chop Saw Wheels
pg 50-51



Portable Saw Wheels
pg 48, 52-54



Stationary Saw Wheels
pg 56-57



Metal-Cutting Carbide Blades
pg 58-61



CUTTING
WHEELS

Cutting



TYPE 1 Chop Saw Wheels

CUTTING
WHEELS

GENERAL PURPOSE



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

QT Quick Tip

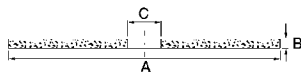
Use this wheel as an economical alternative for general purpose cutting.



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



- EZ-ChopAttacker® is the most economical general purpose chop saw blade
- Specially formulated ultrathin design for fast cutting of thin gauge metals and heavy metals
- EZ-Chop® is 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)

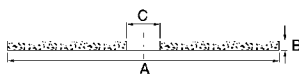
- Aluminum oxide grain
- Special **non-loading formulation**

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 Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers							
				Z-Tech™	S.K.	I.W.	Saitech™	Alum.			
10	3/32	5/8	6,100	-	24035	-	-	-	25	50	20
12	3/32	1	5,100	-	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	-	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
- 14" Z-tech is internally reinforced with the highest quality fiberglass to withstand the toughest applications
- Saitech™, manufactured with patented 3M™ ceramic abrasive grain, is designed to outlast standard aluminum oxide wheels (3M is a trademark of 3M Company)

CUTTING
WHEELS

HIGH PERFORMANCE/SPECIALTY



Portable Saw

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

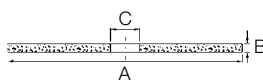
METAL Ferrous metals

CUTTING WHEELS

GENERAL PURPOSE

2 Wheels in 1!

14" and 16" portable wheels are formulated to interchange between high and low power saws!



Size			Max RPM	Grades Available			Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers					
				A24R	XFC™	SAIT Pro			
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	24150	24135	10	20	19
14	1/8	20mm	5,460	23455	24160	24140	10	20	24
16	1/8	1	4,800	23459	-	-	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 multiple arbor sizes to fit a wide variety of tools
- More fiberglass reinforcement than competitors for increased torque strength

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.)

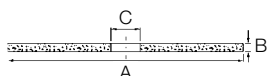


Ductile™

- 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



Quick Tip

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

2 Wheels in 1!

14" and 16" portable wheels are formulated to interchange between high and low power 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 multiple arbor sizes to fit a wide variety of tools
- More fiberglass reinforcement than competitors for increased torque strength

CUTTING WHEELS

SPECIALTY



CUTTING WHEELS
CONCRETE



C24R - Concrete

- Silicon carbide grain
- Long life

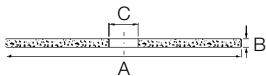
CONCRETE Stone, brick, soft aggregate, masonry, concrete, schedule 40 and schedule 80 PVC pipe



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



Size			Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore					
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

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

2 Wheels in 1!
14" and 16" portable wheels are formulated to interchange between high and low power 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
- More fiberglass reinforcement than competitors for increased torque strength

TYPE 1 Street Saw Wheels

Cutting



Street Saw



CUTTING
WHEELS

CONCRETE

C16

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

CONCRETE Green concrete, asphalt

Street Walker™

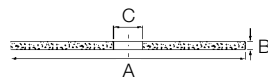
- Silicon carbide grain
- **Hot pressed wheel**
- Combines **fast cutting with long life**

CONCRETE 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



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

All wheels have a pinhole



- All wheels have a pinhole 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
WHEELS

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**

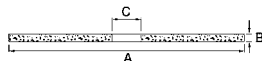
METAL Ferrous metals (iron, steel, angle iron, etc.)

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 Per Box	Qty Per Ctn	Lbs Per Box
A Dia.	B Width	C Bore		Part Numbers					
10	1/8	5/8	6,100	-	-	24002	25	50	23
12	1/8	1	5,100	-	24020	-	10	50	14
14	1/8	1	4,400	-	24040	-	10	20	19
16	5/32	1	3,800	-	24070	-	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

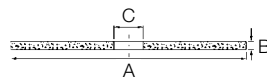
- Silicon carbide grain
- General purpose, **long life**
- Square cutting

CONCRETE Masonry, concrete, stone, brick



CUTTING
WHEELS

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
18	3/16	1	3,400	24083	5	20	22

Tech INFO

- 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

METAL-CUTTING CARBIDE BLADES



Low RPM Metal
Cutting Saw

Long Life

Cool Cutting

Fast, Burr-Free Cutting

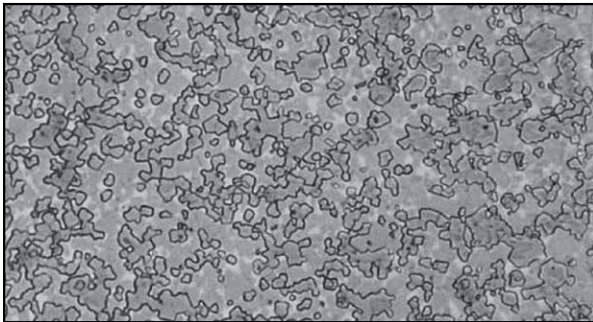
KEY FEATURES

- 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

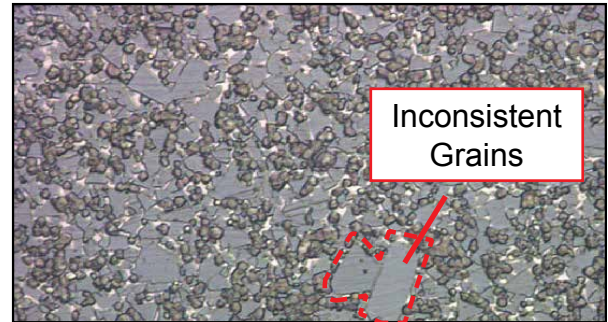
Technical Data

CARBIDE GRAIN STRUCTURE



SAIT Carbide Matrix

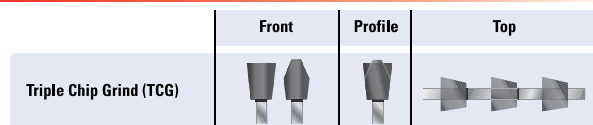
Consistent size of carbide grains.
More carbide per tooth as grains are smaller.
Smaller grain = harder tooth, more durability.



Competitor Carbide Matrix

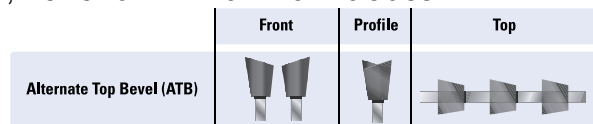
Very inconsistent size of carbide grains.
Less life due to larger grain sizes.

TOOTH CONFIGURATION



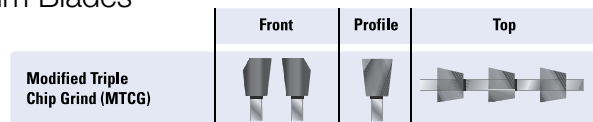
Triple Chip Grind (TCG):

- **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



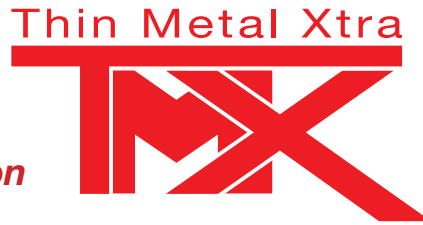
Modified Triple Chip Grind (MTCG):

- **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

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

CUTTING WHEELS

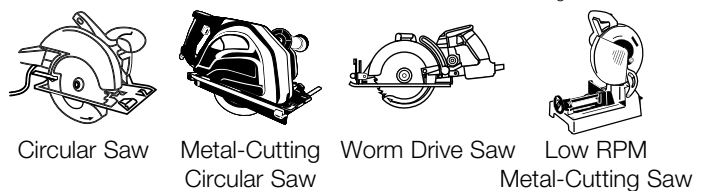
METAL-CUTTING CARBIDE BLADES

STEEL WORKER®	Diameter	Teeth	Grind	Arbor	RPM	Machine
77915	5-3/8 137mm	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



NOTE

- Blades must be run in the direction of the arrow as indicated on the blade.

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

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

ALUMINUM

Cool cutting action with long life and minimal melting of aluminum



Fast, burr free cutting on:

- Aluminum, other non-ferrous metals and pipe

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

NOTE

- Blades must be run in the direction of the arrow as indicated on the blade.

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

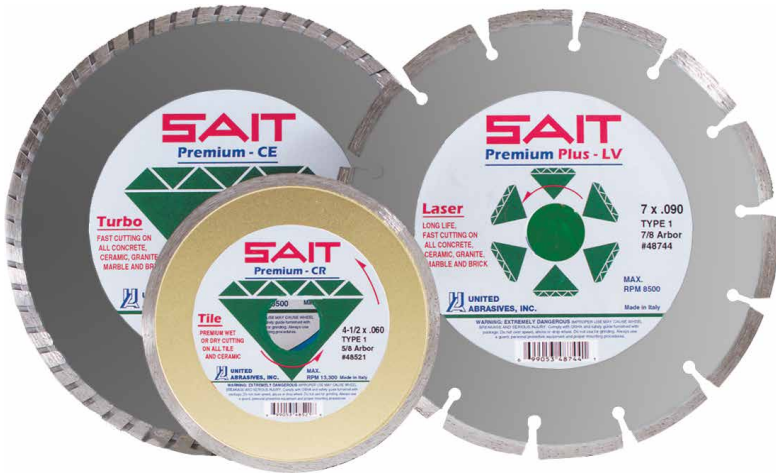
CUTTING
WHEELS

METAL-CUTTING CARBIDE BLADES



Circular Saw Angle Grinder

DIAMOND



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



Circular Saw Angle Grinder



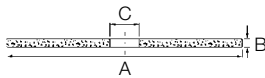
Segmented Rim (Laser)

- 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 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

COATED ABRASIVES

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 are 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 several types of cloth backings: cotton (ie: Egyptian), polyester and polyester-cotton blends. 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.

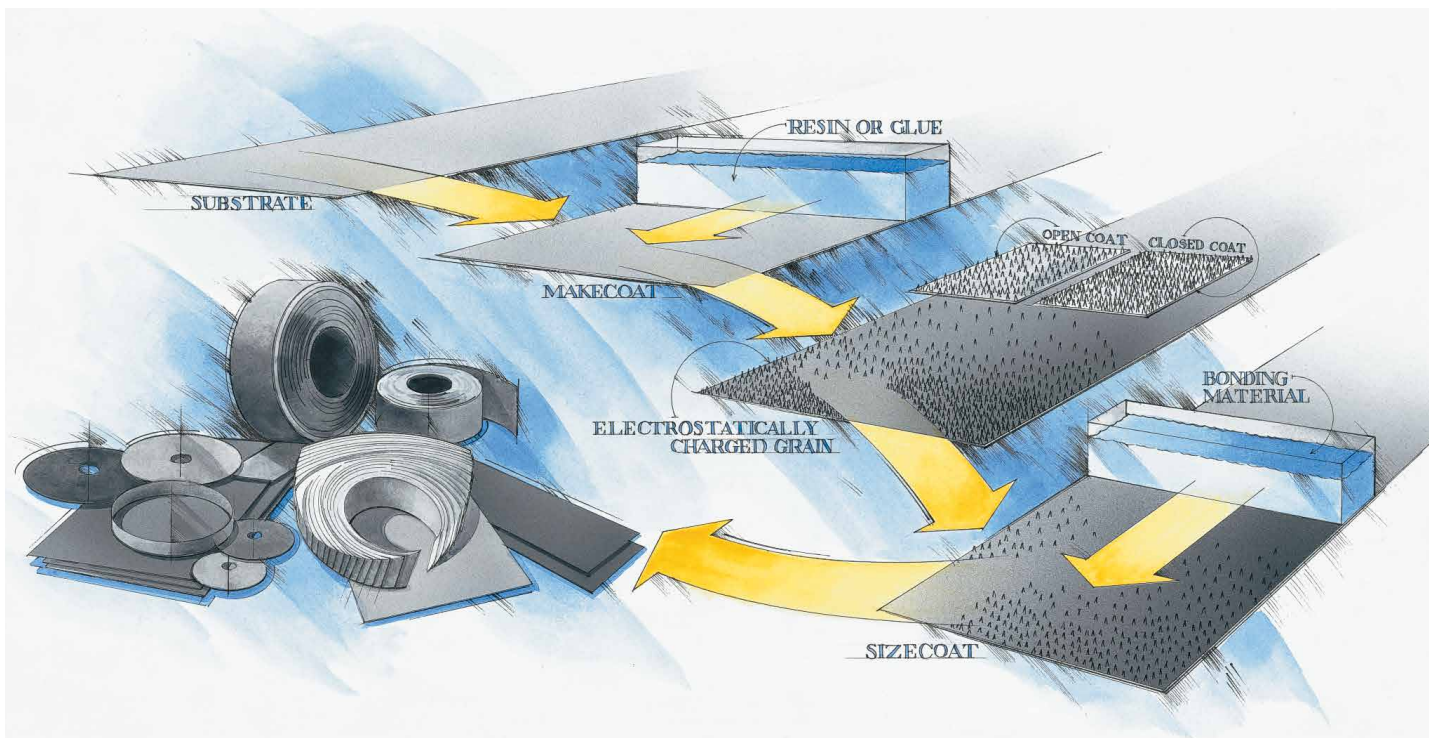
Other Backing Materials

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.

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
ABRASIVES



- We use only the **highest quality raw materials**, which are stored in an environmentally controlled area. These include grains, backings (such as paper, cotton, cotton-polyester and polyester materials) as well as resins and glues used in the process.
- One of the world's most modern, **highly automated, and state-of-the-art** coated abrasives production facilities.
- Our coated abrasives are cured in the latest, most updated, temperature controlled ovens to ensure that we produce a **consistent and quality finished product**, which is rigorously monitored every step of the way by our world renowned quality control department.
- SAIT Abrasives has been the world leader in producing the highest quality coated abrasives for over 50 years!

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 & 2A-X	Closed	Resin over Resin	X-Weight Cloth				•	•	•			
7A-S & 9A-S (contains grinding aid)	Closed	Resin over Resin	H-Weight Polyester						•			
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								•	
6S - Ceramic High Performance	Open	Resin over Resin	C	•							•	
Aluminum Oxide (AW-D/AW-C/A-E)	Open/Closed	Resin over Resin	C, D	•							•	
Stearate Aluminum Oxide (3S/6A)	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												
7S & 7A-S (Ceramic Blended)	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										•
AZ-X & 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								•	
Flap Discs												
Flap Discs	Closed	Resin over Resin	Cloth								•	

COATED ABRASIVES

Coated Application Chart

Wet	Dry	Application
	•	General purpose, metalworking and woodworking
	•	Ordinary and alloyed steel, ferrous and non-ferrous metals, cast iron, wood
	•	High tensile steels, titanium, ferrous, non-ferrous metals
	•	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
	•	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
	•	Ferrous, non-ferrous metals, wood, plastic, fiberglass, sealers, fillers, paint, body filler
	•	Automotive-Sealers, body filler, paint, fiberglass, aluminum
•	•	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
	•	High tensile steels, titanium, 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
	•	Weld grinding, blending, and finishing



Description of Substrate

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

COATED ABRASIVES

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

Fiber

Fiber backing is a tough vulcanized material used for fiber discs



FLAP DISCS

What is a Flap Disc?

- Flap discs are constructed by layering coated abrasive flaps so they wear away and expose new, sharp grain
- Flap discs increase productivity and reduce total grinding and finishing costs by grinding, blending & finishing in 1 step

BACKING SHAPE

Conical shape features (type 29): 

- Built-in angle for increased contact area
- Best for use on contoured surfaces and edge work
- Minimizes workpiece gouging
- More aggressive stock removal due to higher angle
- 15°-25° working angle

Flat shape features (type 27): 

- Best for use on miter joints, corners and edges
- Best choice for finishing intricate and ornate surfaces
- Ideal for smooth finishing
- 0°-15° working angle

BACKING TYPE

Fiberglass backing features:

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

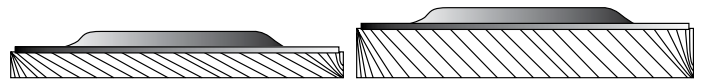
Plastic backing features:

- Non-scratching, high strength backing
- Resistant to temperature extremes, common chemicals and solvents
- Some plastic backings are trimmable

DENSITIES

Regular Density

High Density



High density flap discs contain approximately 40% more material than regular density flap discs.

FLAP DISCS VS. GRINDING WHEELS

- Faster stock removal and smoother finish
- Quieter operation and reduced vibration minimizing operator fatigue
- Cooler cutting, reduced loading and glazing
- Easy to use – reduced gouging and rework

FLAP DISCS VS. FIBER DISCS

- Up to 20 times longer life than a fiber disc
- No backing pad needed
- Easier storage – no curling
- Flap discs should use one grit coarser than used in fiber discs (except 36 grit)
- More consistent finish

COATED
ABRASIVES



TWO TYPES OF PLASTIC BACKINGS

- **Soft ABS Plastic** designed to be trimmed to expose more abrasives material
- **Hard Plastic** designed for high strength and rigidity promoting ease of use and long-life

FIBERGLASS BACKING

- **Custom engineered fiberglass backing plates for strength and safety**
- More fiberglass than competitors – making our flap discs **among the safest on the market**

ADHESIVE SYSTEM

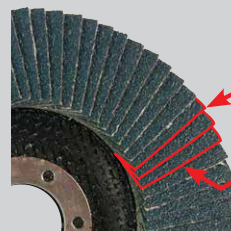
- **Specially formulated adhesive system**, designed to effectively secure the abrasive flaps to the backing, maximizes abrasive performance and safety

COATED MATERIAL

- **Our own coated material** has been specifically designed for flap discs
- Unique materials are used for each flap disc application

FLAP DESIGN

- We utilize **more and larger flaps** than our competitors to yield great performance and product life



More flaps than competitive flap discs

Larger flaps than competitive flap discs

FLAP DISCS



FIBERGLASS BACKING

Regular Density



ENCORE p. 70

- General Purpose
- Premium Zirconium Grain
- Cotton Backing

ENCORE Ceramic p. 70

- High Performance Ceramic Grain
- Durable Polyester-Cotton Backing

High Density



OVATION® p. 72

- Heavy Duty
- Premium Zirconium Grain
- Full Tough Polyester Backing

OVATION® ATTACKER® p. 72

- Fast Cutting
- Premium Zirconium Grain
- Conformable Cotton Backing

OVATION® Ceramic p. 72

- High Performance Ceramic Grain
- Durable Polyester-Cotton Backing

PLASTIC BACKING

Regular Density



ENCORE Plus+ p. 71

- Ease of use & long life
- Premium Zirconium Grain
- Durable Polyester-Cotton Backing

ENCORE Ceramic Plus+ p. 71

- High Performance Ceramic Grain
- Ease of use & long life
- Durable Polyester-Cotton Backing

High Density



OVATION® Plus+ p. 73

- Heavy Duty
- Ease of use & long life
- Premium Zirconium Grain
- Full Tough Polyester Backing

OVATION® ATTACKER® Plus+ p. 73

- Ease of use & long life
- Premium Zirconium Grain
- Durable Polyester-Cotton Backing

OVATION® Ceramic Plus+ p. 73

- Ease of use & extra long life
- High Performance Ceramic Grain
- Durable Polyester-Cotton Backing

SPECIALTY

Encore Mini Flap Discs

p. 76



- 2" & 3" Diameters
- Zirconium Grain
- Long Life
- SAIT-LOK-R™ thread for easy changeover

SAIT GF Grind & Finish

p. 75



- Interleaf flap disc
- Combines coated & non-woven abrasives which allows you to "Grind & Finish" with one product reducing time & labor

4" Saitlam UK™

p. 76



- General Purpose
- Zirconium Grain

- Durable Polyester-Cotton Backing

Sand-Light™

p. 75



- Non-Woven Material
- Surface preparation & finishing

TRIMMABLE PLASTIC BACKING



TrimBack™ p. 74

- Trimmable
- Premium Zirconium Grain
- Durable Polyester-Cotton Backing

TrimBack™ Ceramic p. 74

- Trimmable
- High Performance Ceramic Grain
- Durable Polyester-Cotton Backing



COATED ABRASIVES

Regular Density

FLAP DISCS



ENCORE (Fiberglass Backing)



contaminant **cf** free

Fe+S+Cl FREE (<.1%)

APPLICATIONS:

- Weld grinding and blending
 - Deburring
- Finishing and blending
 - Contour finishing



LONG LIFE

SAIT ENCORE

- General Purpose Specification
- Premium zirconium grain on cotton backing which provides long life and high stock removal
- Resists loading on aluminum

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

SAIT

ENCORE Ceramic

- High performance
- Premium ceramic grain on a durable polyester-cotton backing provides high stock removal and **extra long life**

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

COATED ABRASIVES

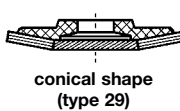
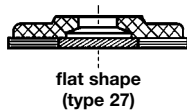
FLAP DISCS



RPM's

4-1/2"	13,300
5"	12,200
6"	10,200
7"	8,500

Packaging
10/box
40/ctn



Size		Grit	Type 27	Type 29	Type 29
Dia.	Arbor		Part No. Encore	Part No. Encore	Part No. Encore Ceramic
4-1/2	7/8	36	71205	79105	72820
4-1/2	7/8	40	71206	79106	72821
4-1/2	7/8	60	71208	79108	72822
4-1/2	7/8	80	71209	79109	72823
4-1/2	7/8	120	71211	79111	-
4-1/2	5/8-11	36	71215	79115	72930
4-1/2	5/8-11	40	71216	79116	72931
4-1/2	5/8-11	60	71218	79118	72932
4-1/2	5/8-11	80	71219	79119	72933
4-1/2	5/8-11	120	71221	79211	-
5	7/8	36	71225	79125	72827
5	7/8	40	71226	79126	72828
5	7/8	60	71228	79128	72829
5	7/8	80	71229	79129	72830
5	7/8	120	71231	79131	-
5	5/8-11	36	71235	-	72937
5	5/8-11	40	71236	-	72938
5	5/8-11	60	71238	-	72939
5	5/8-11	80	71239	-	72940
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	-
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	5/8-11	40	-	71276	-
7	5/8-11	60	-	71278	-
7	5/8-11	80	-	71279	-
7	5/8-11	120	-	71281	-

FLAP DISCS

ENCORE (Plastic Backing)

Regular Density



NEW!



contaminant **cf** free

Fe+S+Cl FREE (<.1%)

APPLICATIONS:

- Weld grinding and blending
- Deburring
- Finishing and blending
- Contour finishing

NEW!



Premium Performance!

SAIT ENCORE Plus+

- Long life
- Premium zirconium grain on a durable polyester-cotton backing provides fast cutting action and long life

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

SAIT ENCORE Ceramic Plus+

- High performance
- Premium ceramic grain on a durable polyester-cotton backing provides high stock removal and **extra long life**

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



— Hard Plastic Backing —

- Ease of use reduces operator fatigue
- **Longer life** than fiberglass backing at the **same cost**



conical shape
(type 29)



Size		Grit	Part No. Encore Plus+	Part No. Encore Ceramic Plus+
Dia.	Arbor			
4-1/2	7/8	36	72238	72250
4-1/2	7/8	40	72239	72251
4-1/2	7/8	60	72240	72252
4-1/2	7/8	80	72241	72253
4-1/2	5/8-11	36	72338	72350
4-1/2	5/8-11	40	72339	72351
4-1/2	5/8-11	60	72340	72352
4-1/2	5/8-11	80	72341	72353
5	7/8	36	72244	72256
5	7/8	40	72245	72257
5	7/8	60	72246	72258
5	7/8	80	72247	72259
5	5/8-11	36	72344	72356
5	5/8-11	40	72345	72357
5	5/8-11	60	72346	72358
5	5/8-11	80	72347	72359

www.UnitedAbrasives.com

LONG LIFE

COATED ABRASIVES

FLAP DISCS

High Density



FLAP DISCS

OVATION® (Fiberglass Backing)



The Original
SAIT
OVATION®

- Excels on high pressure / heavy duty applications
- Premium zirconium grain on a tough, full polyester backing

METAL Ferrous and/or non-ferrous metals

STAINLESS Stainless steel, high tensile steel, titanium

OVATION®
ATTACKER®

- Excels on irregular surfaces in light pressure applications
- Premium zirconium grain on a cotton backing providing a softer-acting and faster cutting disc

STAINLESS Stainless steel, high tensile steel, titanium

METAL Ferrous metals

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

SAIT
OVATION® Ceramic

- High performance product provides increased productivity
- Premium ceramic grain on a durable polyester-cotton backing provides high stock removal and **extra long life**

METAL Ferrous and/or non-ferrous metals

STAINLESS Stainless steel, high tensile steel, titanium

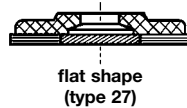


MORE GRINDING MATERIAL

contaminant **cf** free
Fe+S+Cl FREE (<.1%)

APPLICATIONS:

- Weld grinding and blending
- Deburring
- Finishing and blending
- Contour finishing



flat shape (type 27)



5/8-11 Hub



RPM's

4-1/2"	13,300
5"	12,200
6"	10,200
7"	8,500

Packaging
10/box
40/ctn

Size		Grit	Part No. Ovation®	Part No. Ovation® Attacker®	Part No. Ovation® Ceramic
Dia.	Arbor				
4-1/2	7/8	36	78005	-	78260
4-1/2	7/8	40	78006	76206	78261
4-1/2	7/8	60	78008	76208	78262
4-1/2	7/8	80	78009	76209	78263
4-1/2	7/8	120	78011	76211	-
4-1/2	5/8-11	36	78105	-	78320
4-1/2	5/8-11	40	78106	76316	78321
4-1/2	5/8-11	60	78108	76318	78322
4-1/2	5/8-11	80	78109	76319	78323
4-1/2	5/8-11	120	78111	76321	-
5	7/8	36	78025	-	78267
5	7/8	40	78026	76226	78268
5	7/8	60	78028	76228	78269
5	7/8	80	78029	76229	78270
5	7/8	120	78031	76231	-
5	5/8-11	36	78125	-	78327
5	5/8-11	40	78126	76336	78328
5	5/8-11	60	78128	76338	78329
5	5/8-11	80	78129	76339	78330
5	5/8-11	120	78131	76341	-
6	7/8	36	78035	-	-
6	7/8	40	78036	76236	-
6	7/8	60	78038	76238	-
6	7/8	80	78039	76239	-
6	7/8	120	78041	76241	-
6	5/8-11	36	78135	-	-
6	5/8-11	40	78136	76346	-
6	5/8-11	60	78138	76348	-
6	5/8-11	80	78139	76349	-
6	5/8-11	120	78141	76351	-
7	7/8	36	78045	-	-
7	7/8	40	78046	76246	-
7	7/8	60	78048	76248	-
7	7/8	80	78049	76249	-
7	7/8	120	78051	76251	-
7	5/8-11	36	78145	-	-
7	5/8-11	40	78146	76356	-
7	5/8-11	60	78148	76358	-
7	5/8-11	80	78149	76359	-
7	5/8-11	120	78151	76361	-

PREMIUM

COATED ABRASIVES

FLAP DISCS

FLAP DISCS

OVATION[®] (Plastic Backing)

High Density



NEW!



NEW!



NEW!



SAIT Ovation[®] Plus⁺

- Excels on high pressure / heavy duty applications
- Premium zirconium grain on a tough, full polyester backing

- METAL** Ferrous and/or non-ferrous metals
- STAINLESS** Stainless steel, high tensile steel, titanium

OVATION[®] ATTACKER[®] Plus⁺

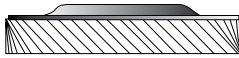
- Long life
- Premium zirconium grain on a durable polyester-cotton backing provides a fast cut and long life

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

SAIT Ovation[®] Ceramic Plus⁺

- High performance product provides increased productivity
- Premium ceramic grain on a durable polyester-cotton backing provides high stock removal and **extra long life**

- METAL** Ferrous and/or non-ferrous metals
- STAINLESS** Stainless steel, high tensile steel, titanium



MORE GRINDING MATERIAL

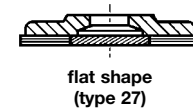
contaminant **cf** free
Fe+S+Cl FREE (<.1%)

APPLICATIONS:

- Weld grinding and blending
- Deburring
- Finishing and blending
- Contour finishing

— Hard Plastic Backing —

- Ease of use reduces operator fatigue
- **Longer life** than fiberglass backing at the **same cost**



RPM's
4-1/2" 13,300
5" 12,200

Packaging
10/box
40/ctn

Size	Dia. Arbor		Grit	Ovation [®] Plus ⁺	Ovation [®] Attacker [®] Plus ⁺	Ovation [®] Ceramic Plus ⁺
4-1/2	7/8	36	72200	72214	72226	
4-1/2	7/8	40	72201	72215	72227	
4-1/2	7/8	60	72202	72216	72228	
4-1/2	7/8	80	72203	72217	72229	
4-1/2	7/8	120	72204	-	-	
4-1/2	5/8-11	36	72300	72314	72326	
4-1/2	5/8-11	40	72301	72315	72327	
4-1/2	5/8-11	60	72302	72316	72328	
4-1/2	5/8-11	80	72303	72317	72329	
4-1/2	5/8-11	120	72304	-	-	
5	7/8	36	72207	72220	72232	
5	7/8	40	72208	72221	72233	
5	7/8	60	72209	72222	72234	
5	7/8	80	72210	72223	72235	
5	7/8	120	72211	-	-	
5	5/8-11	36	72307	72320	72332	
5	5/8-11	40	72308	72321	72333	
5	5/8-11	60	72309	72322	72334	
5	5/8-11	80	72310	72323	72335	
5	5/8-11	120	72311	-	-	

PREMIUM

COATED ABRASIVES

FLAP DISCS

Regular Density



Angle Grinder

FLAP DISCS

TrimBack (Trimmable Plastic)



Regular Density

- Specially designed trimmable ABS plastic – allows you to **easily trim away** the back of the disc to expose more abrasive material

APPLICATIONS:

- Weld grinding and blending
 - Deburring
- Finishing and blending
 - Contour finishing



TrimBack

- Long life
- Premium zirconium grain on a durable polyester-cotton backing provides fast cutting action and **long life**

METAL Ferrous and/or non-ferrous metals

STAINLESS Stainless steel, high tensile steel, titanium

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

TrimBack Ceramic

- High performance product provides increased productivity
- Premium ceramic grain on a durable polyester-cotton backing provides high stock removal and **extra long life**

METAL Ferrous and/or non-ferrous metals

STAINLESS Stainless steel, high tensile steel, titanium



5/8-11 Super-Lock™ Hub

- **Unique 5/8-11 Hub Design** built for **Safety & Ease of Use:**
 - No machine flanges required
 - Heat & strip resistant metal threads

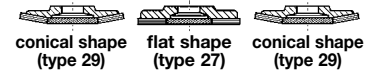
— TrimBack™ Do's and Don'ts —

DO

- Trim **ONLY** TrimBack™ flap discs to expose more abrasive overhang
- Mount the TrimBack™ on a properly guarded right angle grinder
- Apply the plastic backing to a secured metal workpiece while the grinder is running

DON'T

- Trim more than 1/4" of the plastic backing
- Trim beyond the maximum trim line or the ridged edge of the backing



Size			TrimBack Type 29 Part No.	TrimBack Type 27 Part No.	TrimBack Ceramic Part No.
Dia.	Arbor	Grit			
4-1/2	7/8	36	70800	70850	70821
4-1/2	7/8	40	70801	70851	70822
4-1/2	7/8	60	70802	70852	70823
4-1/2	7/8	80	70803	70853	70824
4-1/2	5/8-11	36	70910	70960	70921
4-1/2	5/8-11	40	70911	70961	70922
4-1/2	5/8-11	60	70912	70962	70923
4-1/2	5/8-11	80	70913	70963	70924
5	7/8	36	70807	70857	70827
5	7/8	40	70808	70858	70828
5	7/8	60	70809	70859	70829
5	7/8	80	70810	70860	70830
5	5/8-11	36	70917	70967	70927
5	5/8-11	40	70918	70968	70928
5	5/8-11	60	70919	70969	70929
5	5/8-11	80	70920	70970	70930

RPM's
 4-1/2" 13,300
 5" 12,200

Packaging
 10/box
 40/ctn

PLASTIC BACKING

COATED ABRASIVES

FLAP DISCS

FLAP DISCS

NON-WOVEN & INTERLEAF

Specialty



Angle Grinder



SAITGF
GRIND & FINISH



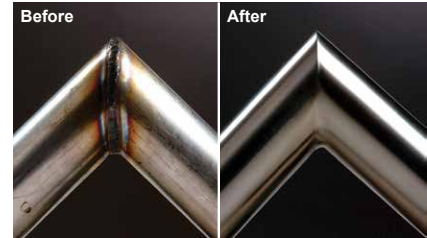
- Combines coated and non-woven abrasives which allows you to **"Grind & Finish" with one product** reducing time and labor
- Cushioned grinding effect allows for effortless blending and finishing of contoured work pieces
- Aluminum oxide specifications available in coarse, medium, and very fine
- Ceramic specification (High Performance) available in 40 grit and 60 grit - provides exceptionally long life

METAL Ferrous and/or non-ferrous metals

STAINLESS Stainless steel, high tensile steel, titanium

— Applications —

- Ideal for cleaning of weld spatter and light deburring operations
- Operate at lower speeds for optimum performance:
Optimal RPM's
4-1/2": 4,000 RPM | 5": 3,500 RPM



Allows you to grind down weld seams and provide a flawless finish in one single operation

State-of-the-art abrasive cloth for the quick, cool & controlled removal of material

Surface conditioning flaps ensure an even finish at low pressure

Size	Grade	Grit	Coated Abrasive Mat'l	Part No.	Qty Per Box
4-1/2" x 7/8"	Coarse	60	A/O	77720	10
	Medium	80	A/O	77721	10
	Very Fine	150	A/O	77723	10
5" x 7/8"	Coarse	40	Ceramic	77760	10
	Coarse	60	Ceramic	77761	10
	Coarse	60	A/O	77725	10
	Medium	80	A/O	77726	10
	Very Fine	150	A/O	77728	10
	Coarse	40	Ceramic	77766	10
	Coarse	60	Ceramic	77767	10

Max RPM's

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

Optimal RPM's

4-1/2" 4,000
5" 3,500



- 10pcs / canister (box)
- Product and features prominently displayed on canister



Sand-Light™ Flap Discs

- Non-woven material – layered flaps create a thick, cushioned design which provides a nice finish
- Designed for surface preparation, cleaning, and finishing applications

METAL Ferrous metals

STAINLESS Stainless steel, high tensile steel

ALUMINUM Non-ferrous metals

Size	Grade	Color	Part No.	Qty Per Box	RPM's
4-1/2" x 7/8"	Coarse	Brown	71980	5	13,300
	Medium	Maroon	71982	5	
	Very Fine	Blue	71984	5	
5" x 7/8"	Coarse	Brown	71990	5	12,200
	Medium	Maroon	71992	5	
	Very Fine	Blue	71994	5	

SPECIALTY

COATED ABRASIVES

FLAP DISCS

Specialty



Angle Grinder



Portable Grinder

FLAP DISCS SMALL DIAMETER



Saitlam U™ Winner Plus (Regular Density on Fiberglass Backing Plate)



APPLICATIONS:

Weld grinding and blending, deburring, finishing and blending, and contour finishing

- General purpose
- Zirconium grain on a durable polyester-cotton backing for

STAINLESS METAL ALUMINUM



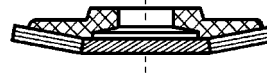
Mat'l	Size		Grit	Part No. Saitlam UK™
	Dia.	Arbor		
Z Zirconium	4	5/8	40	73401
	4	5/8	60	73402
	4	5/8	80	73403
	4	5/8	120	73404

RPM's
4" 15,300

Packaging
10/box

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



conical shape

SPECIALTY

COATED ABRASIVES

FLAP DISCS

SAIT ENCORE

Mini Flap Discs



- Long life performance of a flap disc for use in confined spaces
- More material, longer life than a single layer laminated disc
- SAIT-LOK-R™ thread allows easy changeover between sanding discs, surface conditioning discs and buffing discs

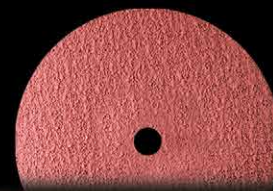
Size	Grit	SAIT-LOK-R™ Part No. Mini Encore
		40
2" Zirconium	60	74822
	80	74823
	120	74825
	40	74830
3" Zirconium	60	74832
	80	74833
	120	74835

See page 145 for SAIT-LOK-R™ backing pads

RPM's: Packaging
2" 30,000 10/box
3" 20,000

FIBER DISCS

INTRODUCTION



- Most comprehensive fiber discs product offering in the industry (10 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 78



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

Zirconium Fiber Discs - Page 79



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

Ceramic Fiber Discs - Page 80-81



7A-S 24-80 Grit Range	<ul style="list-style-type: none"> • Ceramic blended fiber disc - closed coat. • For use on carbon steel.
7S 24-80 Grit Range	<ul style="list-style-type: none"> • High performance ceramic grain, closed coat. • Excels on Carbon Steel - 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 on Stainless Steel and tough to grind materials.

Silicon Carbide Fiber Discs - Page 82

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.
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Innovative Bulk Packaging (see picture on page 79)

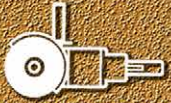
Our unique bulk spindle packaging assures that each disc remains perfectly flat. The unique design offers the convenience of easy access and can be retightened to ensure that your discs are flat when you need them.

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.

Aluminum Oxide



Angle Grinder

FIBER DISCS

GENERAL PURPOSE

COATED ABRASIVES

FIBER DISCS



AO



- Economical aluminum oxide grain for general grinding
- Open coat structure prevents loading
- **Fast material removal**

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

WOOD Wood, fiberglass

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

METAL Ferrous metals

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

Size	Grit	Bulk (100 pcs.)			Blue Line™			SAIT-LOK™			
		Part No.			Part No.			Part No.			
		AO	2A	3A	AO	2A	3A	Pk Per Box	2A	3A	Pk Per Box
4 x 5/8	24	-	56024	-	-	50000	-	20	-	-	-
	36	-	56036	-	-	50001	-	20	-	-	-
	50	-	56050	-	-	50002	-	25	-	-	-
	60	-	56060	-	-	50003	-	25	-	-	-
	80	-	56080	-	-	50004	-	25	-	-	-
	100	-	56100	-	-	50005	-	25	-	-	-
4-1/2 x 7/8	120	-	56120	-	-	50006	-	25	-	-	-
	16	52416	51022	-	50090*	50008	-	20	-	-	15
	24	52424	51024	-	50091*	50010	-	20	50120	-	15
	36	52436	51036	52890	50092*	50011	50060	20	50121	50148	15
	50	52450	51050	52891	50093*	50012	50061	25	50122*	50149	15
	60	52460	51060	52892	50094*	50013	50062	25	50123	50150	15
5 x 7/8	80	52480	51080	52893	50095*	50014	50063	25	50124	50151	15
	100	52400	51100	52894	50096*	50015	50064	25	50125*	50152	15
	120	52420	51120	52895	50097*	50016	50065	25	50126*	50153	15
	16	52516	53016	-	50290*	50018	-	20	-	-	15
	24	52524	53024	-	50291*	50020	-	20	50127	-	15
	36	52536	53036	52810	50292*	50021	50040	20	50128	50154	15
7 x 7/8	50	52550	53050	52811	50293*	50022	50041	25	50129*	50155*	15
	60	52560	53060	52812	50294*	50023	50042	25	50130	50156	15
	80	52580	53080	52813	50295*	50024	50043	25	50131	50157*	15
	100	52500	53100	52814	50296*	50025	50044	25	50132*	50158*	15
	120	52520	53120	52815	50297*	50026	50045	25	50133*	50159	15
	16	52716	57016	-	50050	50030	-	20	-	-	15
9-1/8 x 7/8	24	52724	57024	-	50051	50031	-	20	50134	-	15
	36	52736	57036	52836	50052	50032	50070	20	50135	50160	15
	50	52750	57050	52850	50383*	50033	50071	25	50136	50161*	15
	60	52760	57060	52860	50384*	50034	50072	25	50137*	50162*	15
	80	52780	57080	52880	50385*	50035	50073	25	50138	50163*	15
	100	52700	57090	52100	50386*	50036	50074	25	50139*	50164*	15
9-1/8 x 7/8	120	52720	57120	52125	50387*	50037	50075	25	50140	50165	15
	16	-	58016	-	-	50080	-	20	-	-	15
	24	-	58024	-	-	50081	-	20	50141*	-	15
	36	-	58036	-	-	50082	-	20	50142	-	15
	50	-	58050	-	-	50083	-	25	50143*	-	15
	60	-	58060	-	-	50084	-	25	50144	-	15
9-1/8 x 7/8	80	-	58080	-	-	50085	-	25	50145	-	15
	100	-	58090	-	-	50086	-	25	50146*	-	15
	120	-	58120	-	-	50087	-	25	50147*	-	15

* Items are made to order (must order in multiples of 300 pcs)

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