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2022
Abrasive
Product Catalogue

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Wood Working Solution

CATALOGUE PRODUCT

Abrasive
Product Catalogue

www.sandwox.com

2022

Hello, We Are
SANDWOX
We are
Committed to
Innovation
And Quality.



We provide a broad range of abrasive solutions to improve processes for woodworking customers around the world.

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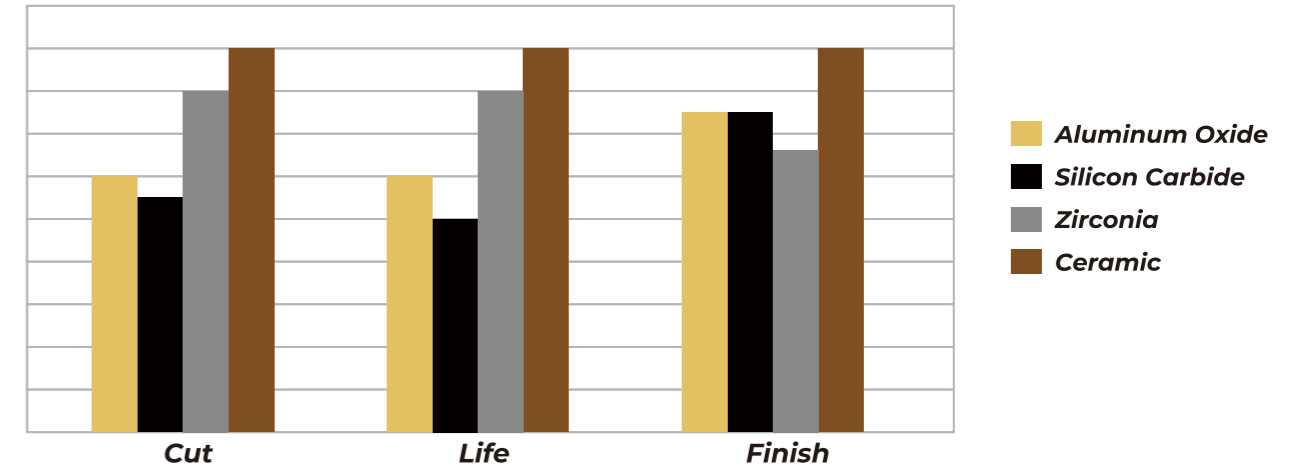
Sanding Material Construction

2022

Wood Working

Abrasive Mineral

Mineral Performance Comparison



Aluminum Oxide

Aluminum Oxide is a tough, durable mineral. Aluminum Oxide is the most widely used abrasive in sanding applications today because it offers a good cut rate and durability. It can be used in applications from cutting to polishing and fine finish. Used on work pieces including metal (ferrous and non-ferrous), wood (soft and hard), plastics and leathers.

Silicon Carbide

Silicon Carbide is a hard mineral, yet fractures easily to provide a sharp edge as it wears. It offers a good cut rate with excellent finish characteristics. Used on work pieces including softer non-ferrous metals (aluminum, brass, bronze, magnesium and titanium), rubber, stainless steel, wood (soft and hard), particleboard, plastics, glass and leathers.

Zirconia

Zirconia fractures frequently to continually produce sharp points as it wears, delivering a faster cut-rate than silicon carbide. As a synthetic mineral, it was developed for rapid stock removal and high pressure grinding.

Ceramic

Ceramic abrasive grain is a tough, durable mineral. The mineral resists fracturing which attributes to extended abrasive life while still providing a consistent finish. Can be used on wood and ferrous metals in applications requiring cutting all the way to fine finishing.



Backing Materials

The backing material not only carries the abrasive layers, it must also transfer the sanding power through to the surface. This means that larger abrasive grains demand more power and, therefore, also need a stronger backing material. For example, a backing material made of cloth is often stronger and more stable than a backing material made of paper. Cloth can be either rigid or flexible depending on the thickness.

Type	Weight	Application	Example product
Ywt	cotton cloth	Wide or Portable Belt Sanding	GZ818,GC558
Xwt	cotton cloth	Portable Belt Sanding	GA168
Cwt-paper	125g/m ²	Machine Sanding	233,312,315,518,528
Film	Film	Superior Finish Sanding	235,328,668



When sanding between coats or around place, it is very important to find a material that is both light and has a flexible backing. Flexibility enables the sanding material to follow edges and profiles, while the light paper provides a smooth surface for the abrasive grains which, in turn, results in a finer surface finish. For paper, the weight of the backing material is in direct proportion to its strength and stiffness.

When a superior surface finish is demanded, film backing can provide a good alternative. The advantage of a film backing is the same as for premium light paper backings – it provides a very even surface for the abrasive grains.



Fastening System

Generally there are two types of fastening systems – ‘PSA’ and ‘Hook&Loop’. PSA uses the pressure sensitive adhesives that is permanently tacky in dry form. With only light contact or hand pressure, PSA’s adhere firmly to a variety of different surfaces which makes them ideally suited for fastening of discs and similar products to an even backing.

The Hook&Loop system is a velcro material attached to the backing of the abrasive disc. The velcro loops on the abrasive disc backing joins with the velcro hooks on the backing pad to fasten the two together.

Application Overview



Wide Belt Sanding

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Wide belt sanding is the process for sanding relatively level work pieces like doors, face frames and panels.



Edge Sanding

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Edge sanding involves the sanding of flat, narrow surfaces with small surface areas like panel edges.



Portable Belt Sanding

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Coarse grades remove wood stock to a uniform dimension. The finishing grade(s) remove all previous abrasive grit scratches.



Stroke Sanders

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A machine that makes sanding contact by “stroking” the back of a moving coated abrasive belt with a back-up block or pad



Mould/Profile Sanding

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In mould/profile sanding, the abrasive belt generally runs over a shaped block that transfers the shape of the block into the wood.



Pump Sleeves

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Pump Sleeves (pneumatic drum) sanders are used when looking to sand irregular shapes and contours.



Sanding Belt

Founder
2005

Wood Working

Sanding Belt

Sandwox offers a long line of woodworking belts and keeps improving the mineral to dramatically increase overall productivity per belt. These belts are designed to extend abrasive life, improve cut and finish, as well as provide enhanced antistatic performance.

Work Jam Industry Ltd.

Optional Products

Product	Mineral Type	Backing	Wide Belt Sanding	Edge Belt Sanding	Portable Belt Sanding
GA168	Aluminum Oxide	Xwt-Cotton Cloth		•	•
GZ818	Zirconia	Ywt-Cotton Cloth	•	•	•
GC558	Ceramic	Ywt-Cotton Cloth	•	•	•

Belt Joint

Belt joint is a very important factor for sanding belts performance. These joints must be as strong as the actual sanding material and should not be too thick or too thin compared to the sanding material. The belt should also have the right shape and dimension.



Overlapped Joint

It is the most common joint for sanding belts with cloth backing. This type of the joint is an overlapping joint with compensation on the sand side. This means that the joint palce is free of abrasive material which allows the cloth to overlap without the joint having to be thicker than the rest of the belt.



Butt Joint

Usually used for the sanding belts that require strength and flexibility at the same time, a joint is cut through the sanding belt without an overlap and the joint is attached with special tape on the backing side. The special tape can be attached the belt backing firmly after pressed by the machine.

BEST

GC558 Purple Ceramic

- Premium Ceramic Abrasive Grain on a durable Ywt cotton cloth backing
- Provides more durability and cutting efficiency over non-ceramic abrasives
- Performs well on all wood types
- Ideal for light to moderate-pressure stock removal, blending, and scratch refinement

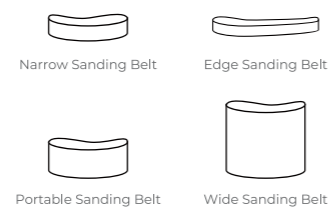


TECHNICAL SPECIFICATIONS

Grain	Ceramic
Bonding	Resin over resin
Backing	Ywt cotton cloth
Coating	Closed
Colour	Purple
Grit range	P40-P120

Available as

** If the size or grade belt you need, is not listed in Standard Stock? Don't worry, we can custom almost any size belt you need. Please contact us as soon as possible!*



BETTER

GZ818 Blue Zirconia

- Premium Zirconia Abrasive Grain on a durable Ywt cotton cloth backing
- Fractures frequently to continually produce sharp points and deliver a faster cut-rate than AlO
- Performs well on all wood types
- High-strength, robust construction

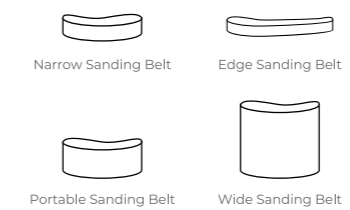


TECHNICAL SPECIFICATIONS

Grain	Zirconia
Bonding	Resin over resin
Backing	Ywt cotton cloth
Coating	Closed
Colour	Blue
Grit range	P60-P400

Available as

** If the size or grade belt you need, is not listed in Standard Stock? Don't worry, we can custom almost any size belt you need. Please contact us as soon as possible!*



GOOD

GA168 Red AIO

- Premium Aluminum Oxide Abrasive Grain on a durable Xwt cotton cloth backing
- Provides long life and uniform finish
- Recommended applications include wide belt, edge or portable sanding



Sanding
Disc

Founder
2005

TECHNICAL SPECIFICATIONS

Grain	Aluminum Oxide
Bonding	Resin over resin
Backing	Xwt cotton cloth
Coating	Closed
Colour	Red
Grit range	P60-P400

Available as

** If the size or grade belt you need, is not listed in Standard Stock? Don't worry, we can custom almost any size belt you need. Please contact us as soon as possible!*



Narrow Sanding Belt



Edge Sanding Belt



Portable Sanding Belt



Wide Sanding Belt

Sanding Disc

Versatile, convenient and efficient, Sandwox manufactures a complete line of coated abrasives to handle all of your random orbital abrasive needs. From pressure-sensitive adhesive coating on the back, to traditional hook&loop style abrasives, we offers a variety of attachment systems to meet your challenging applications.

SELECTION GUIDE

	Product	Mineral Type	Backing	Weight	Substrate							Application			Metal Type				
					Gel Coat	Composites	Solid Surface	E-Coat	Primer/Paint Prep	Wood	Metal	Blending	Deburring	Finishing	Aluminum	Carbon Steel	Non-Ferrous (Brass/Bronze)	Stainless Steel	
Good	233	Aluminum Oxide	Paper	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	312	Aluminum Oxide	Paper	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Better	328	Zirconia+ALO	Film	Film	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	315	Zirconia+ALO	Paper	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	668	Zirconia + ALO	Film	Film	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Best	235	Zirconia+ALO	Film	Film	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	528	Ceramic+ALO	Paper	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	518	Ceramic+ALO	Paper	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Starting Point Recommendations

- Step 1**
Initial sanding should level the work piece if not previously sanded by a wide belt machine. For quick leveling and aggressive, coarse sanding operations, use a disc in grade 80 or 100.
- Step 2**
Intermediate sanding should use a disc in grade 120 or 150, depending on the abrasive grade used on the previous step. It is recommended to skip no more than one grade between sanding steps.
- Step 3**
Recommend finishing using either grade 180 or 220. The wood type, machine parameters and finish used will determine the appropriate abrasive grade.

Work Piece	Hardwood			Softwood			
	Starting Point	Step 1	Step 2	Step 3	Step 1	Step 2	Step 3
Heavy Sanding (required): has a 60 or 80 grit wide belt finish or an 80 grit Random Orbital Sander finish		GC558	GZ818	GA168	GC558	GZ818	GA168
		328,668,235			328,668,235,233,312,315,528,518		
Intermediate Sanding (required): has a 100 or 120 grit wide belt finish or a 120 grit Random Orbital Sander finish		GC558	GZ818	GA168	GC558	GZ818	GA168
		328,668,235,233,312,315,528,518			328,668,235,233,312,315,528,518		
Light Sanding (required): has a 150-180 grit wide belt finish or a 150 grit Random Orbital Sander finish		GC558	GZ818	GA168	GC558	GZ818	GA168
		328,668,235,233,312,315,528,518			328,668,235,233,312,315,528,518		

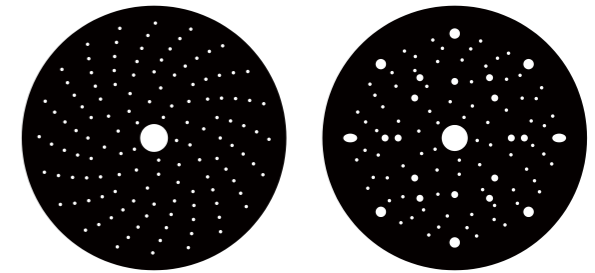
When a finer finish is required for very hard woods such as hard maple or hickory, it might be necessary to use a disc that is one grade finer for the final step.

Random Orbital Sanding – Unfinished Wood Application Information

Substrate	Backing	Stock Removal (Dimensioning) Grades 60-80	Medium Stock Removal (Intermediate Sanding) Grades P100-P150	Finishing (Defect Removal) Grades P180 and Finer
Hardwoods	Cloth	—	—	—
	Film	328,668,235	328,668,235	328,668,235
	Paper	233,312,315,528,518	233,312,315,528,518	233,312,315,528,518
Softwoods	Cloth	—	—	—
	Film	328,668,235	328,668,235	328,668,235
	Paper	233,312,315,528,518	233,312,315,528,518	233,312,315,528,518

Multi-hole Discs are designed to Cut More and Last Longer!

Help improve productivity with the latest innovation in dust evacuation. The multi-hole design captures and removes more dust when compared to 5- or 6-hole products — which can dramatically increase abrasive disc life. This new design doesn't require alignment of holes with the disc pad so switching the abrasive discs is fast, easy and convenient. We also provides excellent backing support and easy reuse.



BEST

528 Blue Ceramic

- Premium Ceramic Abrasive Grain on a durable cwt paper backing
- Provides long life and uniform finish
- Performs well on all wood types
- High-strength, robust construction



TECHNICAL SPECIFICATIONS

Grain	Ceramic
Bonding	Resin over resin
Backing	Cwt Paper
Coating	Semi-open
Colour	Blue
Grit range	P40-P800

Available as



BETTER

668 Pink Zirconia

- Premium Zirconia Abrasive Grain on plastic film backing
- Provides long life and uniform finish
- Performs well on all wood types
- High-strength, robust construction



TECHNICAL SPECIFICATIONS	
Grain	Zirconia Mixed With Aluminum Oxide
Bonding	Resin over resin
Backing	Film
Coating	Semi-open
Colour	Pink
Grit range	P40-P500
Available as	

BETTER

235 Grey Zirconia

- Premium Zirconia Abrasive Grain on plastic film backing
- Provides long life and uniform finish
- Performs well on all wood types
- High-strength, robust construction



TECHNICAL SPECIFICATIONS	
Grain	Zirconia Mixed With Aluminum Oxide
Bonding	Resin over resin
Backing	Film
Coating	Semi-open
Colour	Grey
Grit range	P40-P2000
Available as	

BETTER

328 Purple Zirconia

- Premium Zirconia Abrasive Grain on plastic film backing
- Provides long life and uniform finish
- Performs well on all wood types
- High-strength, robust construction



TECHNICAL SPECIFICATIONS	
Grain	Zirconia Mixed With Aluminum Oxide
Bonding	Resin over resin
Backing	Film
Coating	Semi-open
Colour	Purple
Grit range	P36-P2000
Available as	

GOOD

33 Gold ALO

- Premium ALO Abrasive Grain on a durable cwt paper backing
- Provides long life and uniform finish
- Performs well on all wood types
- High-strength, robust construction



TECHNICAL SPECIFICATIONS	
Grain	Aluminum Oxide
Bonding	Resin over resin
Backing	Cwt Paper
Coating	Semi-open
Colour	Gold
Grit range	P40-P800
Available as	



Hand Sanding

Founder
2005

WOODWORKING

Hand Sanding

Hand and hand block sanding are still necessary in industrial operations despite the preference to do it all with machines. The methods are applicable to sanding large open areas as well as areas inaccessible to machines when doing touch-up and repair sanding. Sandwox has a complete line of sheets to meet your hand sanding needs.

SELECTION GUIDE

	Product	Mineral Type	Backing	Application				Wood		
				Deburring	Blending	Finishing	Cleaning	Hard	Soft	Medium
	GA-5	Aluminum Oxide	Jwt-Cloth	•	•					
Good	GS34	Silicon Carbide	Craft Paper	•	•	•	•	•	•	•
	GS38	Silicon Carbide	Latex Paper		•	•	•	•	•	•
	58	Aluminum Oxide	Cwt-Paper		•	•	•	•	•	•
Better	518	Ceramic+ALO	Cwt-Paper		•	•	•	•	•	•
	268	Aluminum Oxide	Non-Woven			•				
Best	528	Ceramic+ALO	Cwt-Paper		•	•	•	•	•	•

BEST

528 Blue Ceramic

- Premium Ceramic Abrasive Grain on a durable cwt paper backing
- Fast cutting, load resistant
- Provides exceptional finishes and excellent conformability for contour sanding
- Ideal for dry sanding between coats of varnish and other wood finishes

TECHNICAL SPECIFICATIONS

Grain	Ceramic
Bonding	Resin over resin
Backing	Cwt Paper
Coating	Semi-open
Colour	Blue
Grit range	P60-P800
Available as	




BETTER

GS34 Black Sic

- Silicon Carbide on a durable craft paper backing
- Both suit for wet and dry sanding
- Provides remarkable finishes and excellent conformability for surface sanding




TECHNICAL SPECIFICATIONS	
Grain	Silicon Carbide
Bonding	Resin over resin
Backing	Craft Paper
Coating	Open
Colour	Black
Grit range	P80-P2500
Available as	

BETTER

GS54 Blue Sic

- Silicon Carbide on a latex paper backing
- Both suit for wet and dry sanding
- Provides remarkable finishes and excellent conformability for surface sanding




TECHNICAL SPECIFICATIONS	
Grain	Silicon Carbide
Bonding	Resin over resin
Backing	Latex Paper
Coating	Semi-open
Colour	Blue
Grit range	P80-P5000
Available as	

GOOD

58 Gold ALO

- Aluminum Oxide on a medium cwt paper backing
- Works great on soft woods
- Good for general purpose sanding




TECHNICAL SPECIFICATIONS	
Grain	Aluminum Oxide
Bonding	Resin over resin
Backing	Cwt Paper
Coating	Semi-open
Colour	Gold
Grit range	P40-P800
Available as	

GENERAL USE

GA-5 Red ALO

- Aluminum oxide on a J-wt, durable cloth backing
- Can be torn and rolled without shelling
- Good choice for all your utility sanding jobs



TECHNICAL SPECIFICATIONS	
Grain	Aluminum Oxide
Bonding	Resin over resin
Backing	Jwt Cotton Cloth
Coating	Open
Colour	Red
Grit range	P80-P400
Available as	

268 Scuff Abrasive

- Tightly graded for consistent scratch
- High performance pad reduces surface prep time
- Flexible nylon fiber with more effective mineral sites
- Better cut, longer life, better durability, less loading



TECHNICAL SPECIFICATIONS

Grain	Aluminum Oxide
Bonding	Special resin
Backing	Non-Woven
Coating	Open
Colour	Maroon / Grey
Grit range	Fine (Maroon) / Ultra Fine (Grey)
Available as	