



# Stainless Steel Polishing

Trusted Finishing Products and Solutions

# From start to finish, Osborn has your back with innovative solutions.

As the global leader in surface treatment and finishing solutions, Osborn knows that it's about more than just a product. With Osborn, you have a partner; an expert in your field that is dedicated to providing you the right solutions to do the job at hand better, faster, and safer.

The **highest quality materials** deliver the most efficient results

**130+**  
years of  
experience

**Local Inventories**  
Osborn serves 120 countries around the world. North American, European and Asian manufacturing assure product availability and prompt delivery.

Cost savings, improved efficiency, optimal results. Our experts are highly trained to serve you best, when and where you need it most. We help you optimize your polishing challenges.

**High Performance**  
Finest quality cloths and construction techniques for buffing solutions. Superior buff treatments for repeatability and performance.

**100%**  
performance  
satisfaction  
guaranteed

**Hands-on testing**  
of your complex workpiece to develop a tailored solution

# UNIQUE + REPUTABLE CAPABILITIES

## Honest experts providing trusted solutions.

Since 1887, we have grown to become the world's largest surface treatment and finishing provider. We're dedicated to offering the very best—a standard to which we hold ourselves and the aspiration we reserve for our diverse customer base. Osborn helps you **Finish. First.**

## Products for every application.

Osborn has the broadest selection of buffs, compounds and chemicals in the industry. Osborn will develop custom solutions for particular applications when standard products cannot meet the demands.

## Continued innovation.

Product development focused upon customer applications. This applies to new products, continuous improvement, and process control.

## Leading combination.

The combination of long lasting Osborn buffs and economical compounds provide excellent results and fewer rejects. Our liquid compounds are the most stable in the business due to unique methods of manufacturing. Our compounds are made using the highest quality minerals, sized within a very limited range, to ensure no unexpected lines or scratches on a given surface. They adhere perfectly to Osborn buffs for a clean and economical process. Let our experts show you how to achieve the lowest cost per part!



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**Osborn polishing solutions** are perfect for any application. From aluminum to stainless steel. From titanium to polymers. Compound and buffs are paired to provide a perfect combination.

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**Highest Quality**  
Tightest standards and controls for compound formulations providing consistency and repeatability.

**Finest Materials**  
Mill-treated cloth manufactured to the exact Osborn specification.

**Perfect Balance**  
Osborn buffs are balanced for perfect concentricity.

**Consistency Every Time**  
All cloths used by Osborn are subject to stringent quality control procedures to ensure exactly the same quality every time (particularly important for robotic operations running 24/7).

**Available in Multiple Sizes**  
Osborn buffs are available in metric and imperial sizes.

**Designed for All Applications**  
Osborn perfectly attuned buffs and compounds for manual and automatic operations.



**Local Inventories**  
Osborn serves 120 countries around the world. North American, European, and Asian manufacturing assures product availability and prompt delivery.

**130+**  
years of  
experience

**High Performance Buffs**  
Finest quality cloths and construction techniques for buffing solutions. Superior buff treatments for repeatability and performance.

## FEATURES

# Products for every application.

Osborn has the broadest selection of buffs and compounds in the industry. Osborn will develop custom solutions for particular applications when standard products cannot meet the demands.





## Finest Quality Cloths

Mill-treated cloth manufactured to exact Osborn specifications



## Perfect Balance

Osborn buffs are balanced for perfect concentricity.



## Highest Quality

Tightest standards and controls for compound formulations providing consistency and repeatability.



# POLISHING COMPOUNDS

There is no one size fits all, Osborn prides itself on recommending the best, most efficient solution for every application. Recommendations on these pages are just examples. Our experts are happy to advise you.



## Liquid Polishing Compounds

Osborn liquid compounds can be dispensed through a central system or with pressure pots. They are suitable for both high and low pressure spray guns.

Type	Color	Characteristics	Grease	Cut	Color
8220	Gray	Premium Cut Compound	3	9	1
LS5994	Yellow	Cut Compound	2	8	2
8755	White	Cut and Color Compound	1	7	4
8765	White	Premium Cut and Color Compound	2	5	6
8140	White	Color Compound	2	3	7
8511	Green	High Gloss Color Compound	2	2	8
LC3567	White	Ultra High Gloss Color Compound	2	1	9

Scale from 1 = Low to 10 = High

## Special Animal-Fat-Free Liquid Compounds

Animal-fat free emulsions, perfect for attaining the finest surfaces required on orthopedic implants and other medical devices. Specially developed for robotic and other automatic applications.

Type	Color	Characteristics	Grease	Cut	Color
LC4250	Green	Animal Fat Free Color Compound	3	2	8

Scale from 1 = Low to 10 = High





### Solid Polishing Compounds

Osborn has a complete range of solid compounds for manual polishing. Most types can also be supplied as sized bars for robotic applications.

Part No.	Color	Characteristics	Grease	Cut	Color
A-16	Black	Cut Compound	3	8	1
2433A	Black	Cut Compound	1	9	1
C3776	Yellow	Cut and Color Compound	2	5	7
21 Deluxe	Green	Cut and Color Compound	2	5	7
SS-51	White	Color Compound	3	4	7
C-3	Green	Color Compound	2	2	8
C3568	White	High Gloss Color Compound	1	1	8
BC4431	White	High Gloss Color Compound	2	1	8
BR4007	Red	Ultra High Gloss Color Compound	2	1	9
C3570	Green	Ultra High Gloss Color Compound	2	1	9

Scale from 1 = Low to 10 = High

### Special Animal-Fat Free Solid Compounds

Animal-fat free compounds excelling in the medical and food industry.

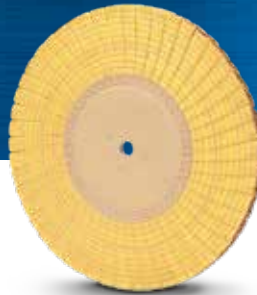


Part No.	Color	Characteristics	Grease	Cut	Color
BS5699-VG	Gray	Cut Compound	1	8	4
BC4197-VG	White	Cut and Color Compound	2	6	6
BC4431-VG	White	Color Compound	1	4	7
BC4250-VG	Green	High Gloss Color Compound	2	3	8
BC4393-VG	White	Ultra High Gloss Color Compound	3	1	9

Scale from 1 = Low to 10 = High

# SISAL BUFFS

Sisal is a natural material, perfect for the polishing process due its excellent compound retention properties. Sisal buffs are aggressive and usually follow a coated abrasive grinding process.



## Waved Sisal Cloth Buff

The combination of dense sisal web and cotton cloth, folded in regular waves, results in a very hard cutting buff, ideal for removing oxidization or other first steps in the polishing process. Optional dip treatments extend service life and increase the hardness. A particularly useful tool if there is little or no oscillation. Together with Osborn cutting compounds, this is the tool of choice on rotary table and flatbed polishing machines, especially when processing pots & pans.

## Meter Sisal Cloth Buff

Regular folds with a sandwich of sisal web and cotton cloth, make the Osborn Pleated Sisal Cloth Buffs an aggressive tool with good compound retention. For greater hardness and rigidity, Osborn dip treatments are available. Manufactured in diameters up to 40", they are perfect for robotic polishing of builder's hardware and cutting or polishing knives using Osborn 8140 compound.

## ODCBS Sisal Cloth Buff

A flexible and economical cutting tool with irregular folds of sandwiched sisal and cotton cloth. Buffs can be mounted together to form a wider surface when polishing larger surfaces, particularly on flatbed machines. For extended life and less flexibility, Osborn dip treatments are available. Suitable for a wide range of applications including builder's hardware and car parts.

## Sisal Types

Sisal is available as a woven fabric, sandwiched with cloth or plaited in to cord.



Sisal Web



Sisal Cloth (Sandwich)



## Bias Sisal Buff

A compact buff, purely made of sisal web. Lacking in flexibility it is a hard and aggressive tool with or without the Osborn dip treatments. Together with Osborn cutting compounds, Sisal Buffs are perfect for centerless polishing of tubes or for pots and pans.

## OBS Sisal Buff

A flexible and economical cutting tool with irregular folds of sandwiched sisal. Buffs can be mounted together to form a wider surface when polishing larger surfaces, particularly on flatbed machines. For extended life and less flexibility, Osborn dip treatments are available. Suitable for a wide range of applications including builder's hardware and car parts.

Type	Characteristics	Cut
Bias Sisal (BS)	Biased Buff dense structure sisal tight web face mostly flat surfaces	Very Heavy
Open Bias Sisal (OBS)	Airway Buff flexible structure sisal open face for flat and contoured surfaces	Heavy
Open Double Cloth Bias Sisal (ODCBS)	Airway Buff flexible structure open face for flat and contours good compound retention	Medium
Cloth and Sisal Wavering	Wavering very heavy structure with tight closed face to promote oscillation	Heavy
Cloth and Sisal Meter Buff	Pleated Buff very heavy structure, large diameter wheel for reduced heat providing longer buff life	Medium

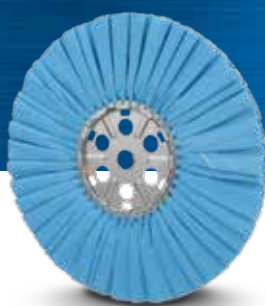
# CLOTH BUFFS

An extensive range of different cloths in natural or mill-treated form have been developed to meet the demands of the polishing industry.



## Waved Cloth Buff

The most resilient Osborn cloth buff. The regular waves fixed around a core, offer stability and a long service life. Despite the high density of the material, the construction still offers a cooling effect. Waved buffs are the tool of choice when there is little or no possibility of oscillation. Waved Cloth Buffs with compounds are popular for polishing flat parts and pots & pans.



## Pleated Cloth Buff

The flat, regular pleats offer an excellent surface for retention of Osborn liquid and solid compounds. The hardness and flexibility of this buff depends on whether a mill-treated cloth, a standard cloth or a raised cloth is selected, this plus the choice of Osborn compound determines the polishing results. Pots & pans require softer cloths for that perfect final finish. Pleated Cloth Buffs are particularly suitable for robotic operations and also for manual polishing.



## Airway Cloth Buff

The standard ventilated buff, suitable for almost every step in the polishing process. Various qualities of mill-treated or gray cloth can be selected depending on the results required. The irregular folds fixed to a metal clinch ring form a flexible and economical buff. Buffs can be used individually or mounted on a wide shaft, depending on the equipment available. All grades of material can be matched to the Osborn polishing compounds.



## Cloth Conventional

Discs of material are layered and stitched to a required width. Layers are arranged such that any fraying is minimal. By varying the grade of cloth and the stitching, different hardnesses can be determined. Cloth mops are often used for robotic and manual finishing processes on car components and other stainless-steel parts with uneven surfaces. In this case solid compounds are used either in the form of sized bars for robots or smaller hand size bars.

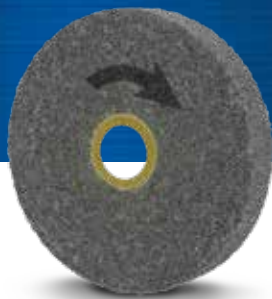
## Cloth Types

Allow our experts to advise you on the most suitable cloth types for your specific polishing process.

Type	Cloth	Characteristics	Cut
Treated Cloth	GXL	Treated Light Green cotton, dense weave	Cut & Color
Treated Cloth	HY	Treated yellow cotton, dense weave	Cut & Color
Treated Cloth	HF	Treated cotton, dense weave and flexible	Cut & Color
Treated Cloth	BHVF	Treated dense cotton—quite and flexible	Cut & Color
Treated Cloth	BHVP	Double treated purple dense cotton	Cut & Color
Treated Cloth	HPB	Treated light blue polycotton, flexible and resilient	Cut & Color
Treated Cloth	PGF	Treated blue polycotton, heavy and resilient	Cut & Color
Treated Cloth	PHCB	Treated blue polycotton, heavy and resilient	Cut & Color
Gray Cloth	HR	Medium cotton, standard base cloth	Coloring
Gray Cloth	BR	Soft cotton, standard base cloth	Coloring
Gray Cloth	BHVR	Heavy cotton, standard base cloth	Coloring
Gray Cloth	PHVR	Heavy polycotton—standard base cloth	Cut & Color
Gray Cloth	HPR	Medium-soft polycotton—quite flexible	Cut & Color
Raised Cloth	DF	Standard double brushed	Coloring
Raised Cloth	CF	Hard-soft cloth—one side brushed	Coloring

# ABRASIVE NON-WOVENS

Abrasive non-wovens consist of tangled nylon and/or polyester web with different types of abrasive grit particles resin bonded to the fibers. The material has an open and flexible structure, as it wears new abrasive is



## Non-Woven Convolute Wheel

Non-woven abrasive web is wound around a core and specially treated, resulting in a consistent hardness and level of abrasion over the life of the product. This convolute product is perfect for light deburring. An arrow indicates the direction in which the wheels must be used.



## Non-Woven Flap Wheel

Non-woven abrasive flaps are bonded radially to a phenolic tube. Hardness can be varied by increasing or decreasing the number of flaps. The three-dimensional open web ensures a self-cleaning action, for easy removal of surface contamination. Depending on the process, a technically defined surface result can be achieved or a visual surface. Wheels are extremely versatile in satin finishing operations.



## Non-Woven Wide Face Wheel

Rollers are perfect to create a defined satin finish on stainless steel sheet. Rollers are available up to 2000 mm wide and can be supplied with dynamic balancing. Suitable flatbed equipment is required to mount these large rollers.

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**Did you know?** Osborn can also supply rollers in widths up to 12 ft., perfect for a satin finish on aluminum and copper sheet or strip.



exposed to create a uniform and consistent finish, whether on a flat or slightly profiled surface. Abrasive grit particles are usually Silicon Carbide or Aluminum Oxide. The material can be used in both wet and dry operations.



### Waved Non-Woven Buff

The waved construction allows for a high-density buff with minimal flexibility, an advantage when good cutting action and a uniform surface are required. This buff is suitable for all satin finishing operations, especially when equipment does not allow for oscillation.

### Airway Non-Woven Buff

Usually 2 to 4 layers of non-woven are fixed to a metal clinch ring. The irregular folds offer a versatile satinizing tool that performs best when minimal pressure is applied, this in turn increases the surface life of the Airway. This is a highly economical buff.

### Rolls, Discs and Handpads

For manual operations, Osborn offers a selection of rolls that can be cut to width as required. Alternatively, stamped discs and standard handpads are available.

### Abrasive Non-Woven Types

A selection of the most standard non-woven types for the steel and stainless-steel industry.

Material Type	Density	Grit
S=Silicon Carbide	4 = Soft	CRS = Coarse
A = Aluminium Oxide	6 = Medium	MED = Medium
	7 = Hard	FIN = Fine
	8 = Very Hard	VFN = Very Fine

# COATED ABRASIVES

Osborn offers a range of coated abrasive tools, making the most of the best materials on the market and our manufacturing expertise.



## Epoxy Flap Wheels

Coated abrasive sheets are arranged in an epoxy bonded core, making an evenly distributed and quieter efficient polishing tool. This versatile wheel is available in multiple grit types and sizes and can be adapted to fit the application. Round parts, flat parts, edges and contours benefit from this product with its ability to continually produce consistent and repeatable results. Effective for applications with narrow face widths.

## Mechanical Flap Wheels

Tightly packed coated abrasive flaps arranged around a mechanical core, make an effective, durable, and versatile polishing tool. Round parts, tubes, pots & pans or even the sole of an iron benefit from this product, with its long life and ability to continually reproduce the same surface when compared to coated abrasive belts. Great for wide face width applications.

## Specialty Abrasives

Sand Shapers Spin-On Finishing Flap Brush

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Visit [osborn.com](http://osborn.com) to find a huge range of Abrasive Cutting Discs, Abrasive and Wire Brushes in the Osborn range.

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Grit	40	60	80	120	150	180	220	240	280	320	400
X-Standard	X	X	X	X	X	X	X	X		X	
J-Flexible				X	X	X	X	X		X	X



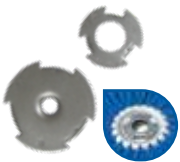
# ACCESSORIES & TREATMENTS

Metal Centerplates, Nylon and Aluminum accessories can be used to reduce the inside diameter of Buffs. Osborn cloths are often mill-treated (at source) according to our specific demands, to make them stiffer or more flexible, longer wearing or to perfectly suit the Osborn polishing compounds. Alternatively finished buffs made from cloth or combinations of cloth and sisal web, are dip-treated for extended service life, greater hardness or flexibility. Check out the various options.



## Centerplates and Flanges

Centerplates with ventilation holes are required to reduce the inside diameter of buffs to a bore size that suits the shaft on to which they are to be mounted. Metal centerplates are re-usable.



## Interchangeable Metal Adapters

Small centerplates are specifically to reduce the buff inside diameter of 31.75 mm to a smaller size.



## Mandrill

Mandrills in 6 mm are available to clamp polishing or satin finishing buffs with an inside diameter of 10 mm to 100 mm. Parts can then be used on a power drill. Mandrills are intended for repeated use.



## Dip Treatments

Specially developed in the Osborn labs, dip treatments extend service life, make the buffs harder or increase compound retention. Using high pressure vacuum equipment, the treatment is equally and thoroughly distributed through the buff and then allowed to dry for several hours.

# PRODUCT SELECTION

Osborn knows that every set-up is different, whether finishing in one step or more, Osborn tools and compounds complement each other throughout the process.

## Pots and Pans

	Grinding	Cutting	Cut/Color	Coloring	Satin Finish
Wheel	Coated Abrasive Flap Wheel	Waved Sisal Cloth Buff	GXL Airway	Pleated Airway	Non-woven Abrasive Products
		Bias Sisal (BS)	HY Airway	HR Airway	
		Open Bias Sisal (OBS)	BHVP Airway	BHVR Airway	
		Open Double Cloth Bias Sisal(ODCBS)	HPB Airway	BR Airway	
Liquid Compound		8220 Compound	8755 Compound	8511 Compound	
Bar Compound		2433A	C3776	C-3	

## Cutlery

	Grinding	Cutting	Cut/Color	Coloring	Satin Finish
Wheel	Coated Abrasive Flap Wheel	Waved Sisal Cloth Buff	GXL Airway	Pleated Airway	Non-woven Abrasive Products
		Bias Sisal (BS)	HY Airway	HR Airway	
		Open Double Cloth Bias Sisal(ODCBS)	Violet Airway	BR Airway	
Liquid Compound		8220 Compound	8703 Compound	8511 Compound	
Bar Compound		A-16	SS-51	C-3	

## Sinks

	Grinding	Cutting	Cut/Color	Coloring	Satin Finish
Wheel	Coated Abrasive Flap Wheel	Bias Sisal (BS)	GXL Airway	Pleated Airway	Non-woven Abrasive Products
		Open Double Cloth Bias Sisal(ODCBS)	HY Airway	HR Airway	
Liquid Compound		8220	8703	8140	
Bar Compound		A-16	21 Deluxe	C-3	

## Knives

	<b>Grinding</b>	<b>Cutting</b>	<b>Polishing</b>	<b>Coloring</b>	<b>Satin Finish</b>
Bufs		Pleated Sisal Cloth Buff	Pleated Sisal Cloth Buff		
Compounds			Autolin 741		

## Stainless Steel Sheet

	<b>Cut</b>	<b>Color</b>
Wheel	GXL Airway	BR Airway
Liquid Compound	8220	8140
Bar Compound	A-16	C-3

