



Non-ferrous 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!



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.





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
8273	Brown	Tripoli compound for cut and coloring	3	6	4
LT-44	Brown	Tripoli compound for cut and coloring	1	7	3
18T	Brown	Tripoli compound and easy to clean	3	5	5
8140	White	Color	2	3	6
LC3044	Light Green	Color	2	2	5
8511	Green	High Gloss	3	3	6
8700	Red	Ultra High Gloss	3	2	7

Scale from 1 = Low to 10 = High



Solid Polishing Compounds

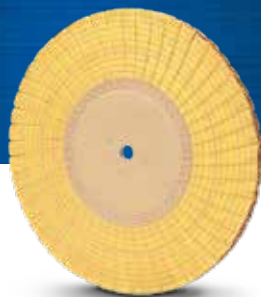
A full range of solid polishing compounds that can be used individually or in combination to achieve a desired result. All compounds can be supplied as sized robotic bars. For manual operations, Osborn offers approx. 1200g bags or bars.

Part No.	Color	Characteristics	Grease	Cut	Color
D-18	Brown	Tripoli compound for cut	2	5	5
D-32	Brown	Tripoli compound for cut	3	6	4
BT3067	Brown	Tripoli compound for cut	1	8	3
2B100	Brown	Tripoli compound for Cut/Color Greasy	3	5	6
D-14	Brown	Tripoli compound for Cut/Color Dry	1	5	4
BC4431	White	Color	2	1	8
SS51	White	Color	3	4	7
C-3	Green	High Gloss	2	2	8
15500 (21 Deluxe)	Green	High Gloss	2	5	7
C-3570	Green	High Gloss	2	1	9
BR4007	Red	Ultra High Gloss	2	1	9

Scale from 1 = Low to 10 = High

SISAL & SISAL CLOTH 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.



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.

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.

TREATMENTS

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.



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.

Sisal Types

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



Sisal Web



Sisal Cloth (Sandwich)

Type	Characteristics	Cut
Open Bias Sisal (OBS)	Airway Buff has flexible structure sisal and open face for flat and contoured surfaces	Heavy
Open Double Cloth Bias Sisal (ODCBS)	Airway Buff has flexible structure and open face for flat and contours good compound retention	Medium
Cloth and Sisal Meter Buff	Pleated Buff has very heavy structure and 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.



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 is 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 parts with uneven surfaces.

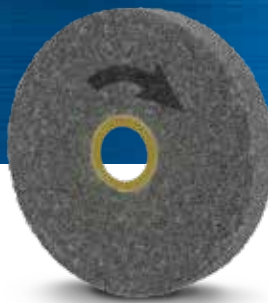
Cloth Types

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 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 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.

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.

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.



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 on an epoxy bonded core, making an evenly distributed and 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, and pots & pans 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.

Visit osborn.com to find a huge range of Abrasive Cutting Discs, Abrasive and Wire Brushes in the Osborn range.

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

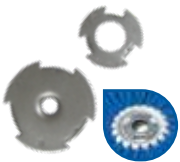
ACCESSORIES

Metal Centerplates and Nylon and Aluminum accessories can be used to reduce the inside diameter of Buffs.



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.



Nylon Centerplates and Spacer

Nylon centerplates are used to reduce the inside diameter of the buff, they can also be supplied as a combination of centerplate and spacer for quick and efficient mounting.

PRODUCT SELECTION

Osborn’s policy is to work with our customers to find the perfect solution for every polishing process, taking in to account the shape and size of parts to be finished, the material in question and its original surface quality. We need to understand the ultimate quality required, machines and equipment available and any subsequent processes. Below, we have outlined some typical application combinations, starting points, as we work with you to identify the optimum process.

Sanitary Fittings–Robotic Process

	Process	Buff	Compound
Solid	Cutting	GXL, HY, HPB	D-18 Tripoli Cut Compound
	Coloring	HR, HF	BC4431 Color Compound
Liquid	Cutting	GXL, HY, HPB	8273 Tripoli Cut Compound
	Coloring	HR, HF	8700 Color Compound

Sanitary Fittings–Mush Polishing

	Process	Buff	Compound
Liquid	Cut & Color	HR, BHVR, HF	8273 Tripoli Cut Compound

Aluminum Door Handles

	Process	Buff	Compound
Solid	Cut	GXL	D-18
	Cut & Color	MAGF	2B100
	Coloring	HR, BR	C-3
Liquid	Cut	MAGF, GXL	18-T, LT-44 Tripoli
	Coloring	HR	8140, 8700
	Satin Finish	Flat Brush, Flap Brush, Non-woven Buff, Convolute	

Aluminum Trim (shower units, kitchens)

	Process	Buff	Compound
Solid	Cut	ODCBS, OBS, BS, Wavering	D-18
	Cut & Color	GXL, BHVP, HY, HPB	D-32, 884E
	Color	HR, BR, BHVR	C-3, BC4431, C-3570
	Satin Finishing	Non-woven Buff, Flap Brush, Convolute	

