

FANDELI® NON-WOVEN FANDEL

DISCS

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FANDELI®



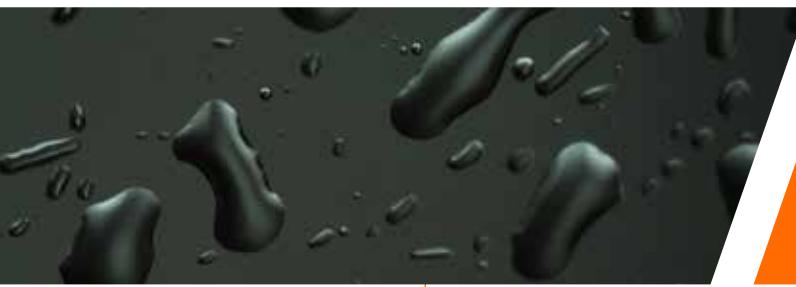
Coated Abrasives

› GENERAL CATALOG



› Fábrica Nacional de Lija S.A. de C.V.

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LEADERSHIP AND EXCELLENCE IN MANUFACTURING

FANDELI is the brand name of Fábrica Nacional de Lija, S.A. de C.V., the first and the largest producer of coated abrasives in Mexico and in Latin American, with a history of more than 80 years.

With four state of the art manufacturing facilities and an Abrasives Center for Research and Development, FANDELI has a comprehensive catalogue of abrasive solutions to exceed the expectations of our customers and users.

Mission, Vision, and Values

Mission: To provide efficient and effective solutions in the abrasive processes of grinding, sanding and final finishing.

Vision: The best option in abrasive products for the Mexican and international markets in terms of product variety, high level of service and optimum cost-benefit to our customers and users.

Values: Our people, social image, integrity, commitment, respect, leadership, teamwork, trustworthiness and customer focus.



Complete portfolio of solutions

Our **certificate ISO 9001:2000** covers various industries and processes for grinding, sanding and polishing applied on different materials.

Industries: Metalworking, woodworking, furniture sanding, painted Metal Surfaces, Automotive, Leather, Rubber, Ceramics, Glass and others.

Materials: Ferrous and non ferrous metals, Stainless Steel, Alloys, Woods, Particle Board, Plastics, Rubber, Fiberglass, Leather, Glassware, Marble and Textiles.

Products: Sheets, Rolls, Belts, Discs and Specialties. Cut-off and Grinding Wheels, Brushes, Mounted Points and Diamond Discs Tridimensional Abrasives, Pads and SCM.

Abrasives: Silicon Carbide, Zirconia Alumina, White, Premium, Brown Aluminium Oxide, Emery, and Ceramics.

We have created our **Abrasive Training Center** offering technical assessment to different end users as well as our sales force and distributors. We have developed our own **Research and Development Department** to generate newer and better products, to fully cover our customer needs.

A customer focused company

Focused to fulfill customers, end users and distributors in every demanding requirement, FANDELI has a **complete Distribution Network** all over Mexico, in the United States of America and in Central and South America providing the most effective and reliable service.



PRIME COMMITMENT

FANDELI has implemented and maintains a Quality Management System Certified by UL DQS Inc. Management Systems Solutions that covers the design and manufacture of coated abrasives products. Through an audit, UL has verified that the management system fulfills the requirements of ISO 9001: 2008.

Also, FANDELI complies with the rules established by the Mexican Voluntary Environmental Protection Program, which sets **social commitment on environmental issues**. As a result, our company has invested to improve processes and infrastructure to **ensure a sustainable development, avoiding environmental damages**, considering also safety and healthy procedures for best working practices (PASST).



Safety advice: when using abrasives observe safety signs and recommendations

Always use safety equipment



COATED ABRASIVES, FULL LINE AVAILABILITY

Coated abrasives, also known as Sandpaper, are produced from three basic raw materials: a mineral, an adhesive bond and a backing. The adhesive is uniformly applied to anchor a single layer of abrasive particles which are oriented to maximize the aggressiveness and uniformity, producing a high rate of cut in grinding operations in materials such as metal, wood, glass, plastic and rubber, among others.

Final forms of coated abrasives

The finished forms of our products are: **Sheets, Resin Sanding Discs, Rolls, Portable, Narrow, Wide and Segmented Belts, Contact Disc with Kwik Grip and PSA system, Flap wheels, Flap discs and other Specialties.**





Sheets

Abrasive sheets are a traditional form of Sandpaper. Most common sheets are 230 x 280 mm (9" x 11"). Designed for use in manual operations by hand or hand block, or on orbital sanders and used in areas that are either inaccessible or inadequate for mechanical sanding applications, mainly on wood sanding, rust and corrosion removal. Waterproof papers are used for polishing operations on paint, varnish, lacquer, sealers and primers.



Available types: waterproof paper, emery cloth, cloth sheets, paper sheets and lube paper sheets. Products are offered as: closed coated for aggressive coating action, long life and great finishes; and open coated provides excellent sanding with less loading.

Resin sanding discs

Discs are produced on a strong vulcanized fiber backing in different diameters or octagonal shapes with centre holes for attach to air or high-speed pneumatic or electric grinding tools. Discs are best for applications on metallic surfaces or devices requiring heavy stock removal, cutting down welds, blending and intermediate finishing.



Available sizes: 102 mm (4"), 114 mm (4 1/2"), 127 mm (5"), 178 mm (7") y 229 mm (9") by 22 mm (7/8") arbor hole, grits from 120 to 16 in Aluminum oxide and Alumina zirconia. It is recommended to use a backing pad (see page 156).

Rolls

Abrasive rolls are presented in various widths, on paper or cloth backings, most commonly in 9 mm (3/8") up to 1,372 mm (54") and in lengths ranging from 20 m (22 yd) to 91 m (100 yd). Rolls main benefit is to allow end user to cut and use whatever required quantity for his process, either mechanical or manual application.



Portable, narrow, wide and segmented belts

Continuous abrasive sections with extremes joined at various different angles, presented in all types of widths from 6 mm. (1/4") to 3,430 mm. (135"), and from 203 mm. (8") to 12 m. (13 yd) in length. To be used in



stationary or portable mechanical sanders such as: back stand, vertical or horizontal platens and multiple heads, among others. Mostly used where performance and productivity are important.

Contact discs

Discs have a paper or cloth backing with a Pressure Sensitive Adhesive (PSA) or Kwik Grip, ideal for light to medium pressure grinding, for smoothing and finishing applications on metal and wood surfaces, to be used with portable tool machines. Larger diameter discs are generally used on stationary disc sanding machines for dimensioning and finishing metal and wood parts.



Flap wheels, Mini Flap wheels mounted or unmounted

Portable tools ideal for sanding and polishing for flat or curved surfaces, small parts and concave or convex cavities for automotive and metalworking industries, wood and plastics.



Specialties

Abrasives products in a variety of forms and designs, such as: body file sheets, cones, cartridges, sleeves, abrasive stars, deltas, anti-slip stripes, abrasive sponges and many others.



Other type of abrasives

Cut off wheels, mounted points, flap discs, non-woven abrasives, Hand pads, pads, surface discs and belts.





APPLICATION MARKETS

Coated abrasives are widely used in the Manufacturing Industry, either in finishing of pieces or for surface preparation of parts and materials including high stock removal operations. Markets which commonly use coated abrasives are Woodworking, Automotive, Metal (ferrous and non ferrous), Plastics, Leather and Glass Industry among many others.

INDUSTRIES



Woodworking Raw wood, furniture, tables and chairs, plywood, particle board and others.



Automotive Within this market there are applications such as original auto parts and spare parts, repair, auto manufacturing, automotive aftermarket and repainting.



Metal (ferrous & non ferrous) Used in industrial and hand tools manufacturing, kitchen furniture, domestic and electric appliances, metal furniture, valves, piping, cutlery, surgical instruments and many more.



Plastics This market includes brake linings, acrylic materials in general, molded plastic accessories, fiberglass forms and plastic laminated surfaces, among others.



Leather Tannery and footwear markets include sanding and finishing of such materials as leather, hides and related synthetic materials.



Glass Sanding and polishing for edge glass finishing, automotive windshields, glassware and mirrors.

Other applications Concrete grinding, marble and quarried stone, also used in the rubber and paper industry, as well as textiles among other applications.



SANDING AND LUBRICANTS

In order to optimize the performance of coated abrasives and the quality of finished materials, lubricants and grinding aids are used, to provide the following advantages: cool worked pieces, reduce frictional heat, improve finishing, protect parts against corrosion or oxidation increasing the life and performance of coated abrasives products, reducing glazing and loading.

Water: Lubricant with most advantages in cost and cooling performance, as reduces frictional heat from materials sanding operations. Water is also used with waterproof products to prevent loading when lacquer or enamels are being sanded.

Aqueous solutions: Mixtures containing wetting agents and / or rust inhibitors. Chemical additives in water are adequate for sanding non ferrous metals.

Soluble oils: Commonly used in a ratio of one part of oil per ten to sixty parts of water, according to the type of application, which may be grinding and/or polishing on ferrous and non ferrous metals, such as stainless, carbon steel, nickel and titanium alloys, zinc, brass, bronze, copper and aluminium parts. Their application have substituted mineral oils, waxes and some others, reducing the risk of fire during sanding operations, as

well as fumes from grinding, improving cooling conditions of the parts preventing metal burning.

Cutting oils: Stable commercial mineral oils will not react with coated abrasives components or sanding operations. They can be used on non-waterproof products. Although their cost is high and frictional heat is low, they show advantages for good finished qualities. Their use is essentially recommended on ferrous and non ferrous metals. This group includes fatty oils and mineral oils blended with melted tallow or lard.

Solid Grease bars: Improve finishing by reducing deep scratching and increase lifespan of coated abrasives, preventing loading and overheating. Recommended on non ferrous metals specifically aluminium.

STORAGE AND HANDLING RECOMMENDATIONS

Coated abrasives will perform at maximum efficiency only when they are properly handled and stored.

Backings and some of the adhesives used in products that are sensitive to weather conditions and will either pick up or loose moisture.



- Ideal storage is recommended at constant temperatures varying within 13 to 21°C (55.4 to 69.8°F) and relative humidity between 45 to 60%.
- Products must be kept off from concrete floors and from hot air ducts and all sources of dampness.

Temperature and humidity are the most important factors that influence the performance and efficiency of coated abrasive products. If they are submitted frequently to climatic changes their adhesives could be damaged.

- Excessive humidity can cause softening in the adhesive coating. High humidity exposure might result in a drop on performance. Cloth-backed belts and discs will be affected showing a severe curling.
- Excessive dryness results in the loss of flexibility that creates difficulties in handling. Narrow belts tend to cup in the opposite direction due to the shrinking of the backing as it dries out. Light weight paper products, loose pliability and become brittle. Waterproof paper is similarly

affected.

• **Handling** In addition to maintain optimal temperature and humidity conditions for coated abrasive products, they should also observe the following tips:

- Keep in closed original containers until they are ready to be used.
- Narrow rolls may be stacked.
- Wide rolls should be laid flat rather than stored upright on the ends.
- Belt should be hung on adequate diameter fixtures not on nails or small rods.
- Keep paper and cloth discs in their original package.
- Keep resin fiber discs compressed in their original package.



ABRASIVES

Abrasive grains are manufactured in electric furnaces, producing extremely hard, tough and heat resistant synthetic abrasives, satisfying most efficient stock removal and finishing applications.

FANDELI uses a wide variety of abrasive grains, which includes: Silicon Carbide, Zirconia Alumina, White, Premium, Brown Aluminium Oxide, Emery and Ceramics.

Silicon Carbide

Synthetic abrasive, glossy black, hardest and sharpest commonly used in coated abrasives, provides a fast aggressive removal of material with excellent finishes for non ferrous metals, such as: aluminium, brass, bronze, magnesium, titanium, and other materials such as: leather, rubber, glass, plastics and woods. Silicon Carbide is superior to any other abrasive in its ability to penetrate and cut faster under light pressure, producing best results on polishing of primers, automotive lacquers and sealers.

FANDELI Silicon Carbide lines: A090, A-99, B-99, C-99, D091, E-93, E-96, H-98, Q-99, R-98, S-98, S-99, W-98, X-91, X-98, Y-98, Z096, ZF98.

Zirconia Alumina

Mixture of Zirconium Oxide dissolved in Aluminium Oxide at molten temperatures. Coated abrasives use a micro-crystalline structure form, which is characterized by a robust and compact grain, high hardness and extremely tough, requires high working pressures to break off grains creating new edges at a much slower rate than standard Aluminium Oxide. It produces superior performance on a wide variety of materials on both high and low tensile strengths, under high grinding pressures. Recommended for heavy grinding in metalworking Industry specially on stainless steel, widely recommended for heavy grinding on carbon steel, tough bronzes, exotic metal alloys and nodular cast iron.

FANDELI Zirconia lines: G-18, R013, R-13, S-18 and S-19

White Aluminium Oxide

Durable man-made abrasive characterized by the long life of its cutting edges. It is recommended to sand all types of hard wood as well as general purpose applications.

FANDELI White Aluminum Oxide: E-63 and K-61.

Premium Aluminium Oxide

Synthetic mineral based on fusion of Bauxite of high purity which has been heat treated at very high temperatures, improving its hardness and friability properties; due to these improvements, the performance during applications keeps the edges sharp, cutting at lower temperatures, resulting in longer life and lower grinding costs. Used for grinding high tensile strength materials such as: steel, stainless steel and tough bronzes. It is also very effective for rough grinding of many low tensile

strength materials such as grey iron, low carbon steel, aluminium and brass. **FANDELI** Premium Aluminium Oxide: A080, B080, D080, E080, F084, G-88, JF88, R-88, W-88, X-88, XR88, Y088, Y-88, X088, EW80, E088, XL88.

Brown Aluminium Oxide

Mineral formed by large crystals, extremely tough and wedge shaped, designed for high speed penetration on tough materials without excessive fracturing, well adapted for normal to heavy grinding on high tensile materials, such as: carbon steel, grey cast iron, mild and tool steels, tough bronzes and hard woods. It is effective for rough grinding on low tensile strength materials.

FANDELI Brown Aluminium Oxide lines: E-83, J-86, D081, JF87, X-86, J82, J081, C081.

Emery

Man-made emery is a regular Aluminium Oxide containing a small amount of ferric oxide. This addition gives high durability if compared to natural grain. Emery is recommended for hand polishing of ferrous and non ferrous metals.

FANDELI Emery lines: J-73, J74, J72.

Ceramics

High performance abrasive being the toughest abrasive for grinding on metalworking applications, stainless steel, alloys, ferrous and non ferrous metals, primary lumber, high strength hardened steels (cemented, nitrated), titanium; offering higher removal rates, compared with the standard Aluminium Oxide products, Ceramic requires much heavier in feed pressures than normal grinding, obtaining exceptional results.

FANDELI Ceramic lines: S-20.





BACKINGS

Coated abrasive is a product composed of three basic elements: a flexible or semi-rigid backing to which abrasive grains are coated by an adhesive. The backings used include: paper, cloth, vulcanized fiber or a combination.

Paper

The paper backings used for coated abrasives are highly specialized, made to meet very exact specifications, assuring essential physical properties, such as: finish, strength, adhesion, flexibility and weight. Light paper weight corresponds to backings for hand sanding or backings designed for intermediate through fine sanding. There are also **waterproof** papers for wet or dry sanding. The heaviest papers are strong and less flexible; some have antistatic properties.

Constructed by laminating a light weight cloth to a high tensile resistant paper, to be used for high speed drum sanders and for severe floor sanding operations.

Vulcanized fiber

Fiber backings are made of multiple layers of impregnated paper. This backing is very tough and strong. The 0.030" thickness used by FANDEL, has the greatest strength of all backings. It is used on resin bonded fiber disc for heavy duty portable grinding applications.

Cloth

Cloth backings offer greater resistance than paper and tolerate bending and flexing during use.

Cloth weights are indicated by a letter code, which appears on the backing. Lightest and most flexible cloth backings are identified as "J" weight, used where finish and uniformity of the surfaces are more important than stock removal. "X" weights are stronger and relatively stiffer backings.

"W" weight is for a waterproof and flexible cloth backing. Woven polyester cotton blends are represented by backings "R" and "Y" weights, designed for high working pressures. "S" weight backings are very heavy and stretch resistant fabrics, made out of high tensile polyester yarns used in the manufacture of narrow and wide belts. "S" weight designs are also suited to manufacture segmented belts (width greater than 1,400 mm (55')).

Combination of paper and cloth

ADHESIVES

The adhesive is applied in two bonding applications, the first coat adheres the abrasive grain to the backing insuring proper anchoring, after curing the second coat is applied, unifying the bonds, providing total adhesive level for the abrasive.



Resin bond

Resins are basically thermosetting adhesives which can be modified to provide greater strength, more flexibility or other desirable properties. Offering greater resistance to heat and durability for heavy stock removal. Some other flexible bonds will produce more uniform and less harsh finish which in the case of fine grits, will produce superior finish.





MANUFACTURING PROCESS

Coated abrasives manufacturing has two separate steps: the coating and the converting processes. In the coating process the backing is covered by an adhesive, followed by abrasive grains passing through an electrostatic field, causing grains to stand on end. This results on the sharpest abrasive cutting edges, which are exposed towards the working surface. The results of this coated process are Jumbo rolls on different widths.

Auxiliary processes consist in preparing Jumbo rolls with auxiliary operations, such as: different types of flexing breaking down the adhesive layers. Basically, there are three types of operations: flex, bi-flex and triple flex.

When flexing, fracture lines of the material are perpendicular in relation to the edge of the material forming a 90° angle that provides certain flexibility in lengthwise direction.

In bi-flexing, there are two flexing lines at a 45° angle, each in relation to the edge of the material, providing intermediate flexibility, that is, both crosswise and lengthwise.

Triple flexing is the combination of the two operations just mentioned above, that are two flexing lines at 45° angle and one at 90° angle in relation to the edge of the material. The result is a very flexible material, in both directions.

These procedures are based on the final application requirements for coated abrasive products.

In the converting processes the Jumbo rolls are ready to be slit into different forms and shapes, such as: sheets, rolls, belts, sanding discs, PSA, Kwik Grip, flap wheels and specialties.

Abrasive coatings and gradings. There are two basic types of abrasives coatings: closed coat and open coat. In closed coat, abrasive grains totally cover the surface. Most coated abrasives have this type of coating recommended for severe operations.

In open coat, abrasive grains are uniformly separated to one another, covering approximately (60% - 70%) of the surface. This type gives more flexibility and prevents loading with the abraded material.

Abrasive grain standards

The size of the abrasive grains is the most important factor in product selection. Abrasive standards define different grading systems: ANSI (American National Standard Institute), FEPA (Federation of European Producers of Abrasives) and JIS (Japanese International Standard). They are referred into a comparison table that indicates the average size on microns to every mesh for every grading system, including a simplified grading and the type of finishing operation.

GRADING SYSTEM TABLE

Average size in microns	Grading standards			Simplified grading	Type of operation
	ANSI	FEPA	JIS		
+ F i n e r				2000	Micro Finishing
				1500	
				1200	
				1000	
			P1500	800	
	6.6		P1200	600	
	9.3	P2000	P1000	500	
	11		P800	400	
	15	600	P600	360	
	19	500	P500	320	
+ C o a r s e r	23	400	P400	320	Polishing
	28	360	P320	280	
	35	320	P360	240	
	43	280	P320	240	
	52	240	P280	220	
	65	220	P240	220	
	77	180	P220	180	
	92	150	P180	150	
	115	120	P150	120	Fine
	141	100	P120	100	
+ C o a r s e r	190	80	P100	80	
	265	60	P80	60	
	350	50	P60	50	
	425	40	P50	40	
	530	36	P40	36	
	630	30	P36	30	
	710	24	P30	24	
	895	20	P24	24	
	1310	16	P20	20	
	1825	12	P16	16	
			P12	12	Extra Coarse
					Heavy Grinding

NOTE:

On grading systems, particle sizes vary from grit to grit. You have to consider the equivalent sizes from one grading to another.

FANDELI®



Coated Abrasives



>SHEETS



GENERAL PRODUCTS



WATERPROOF SHEETS <

PAPER SHEETS <

CLOTH SHEETS <



WOOD SANDING SHEETS <

DRY SANDING SHEETS <





WATERPROOF PAPER SHEETS

WATERPROOF PRODUCTS A-99, C-99, Q-99, B-99 and H-98 SERIES

Applications

- A-99, and C-99: professional use in industry and shops.
- B-99: automotive repainting industry.
- Q-99: better finishing processes.
- H-98: general purpose, automotive, industrial.
- For finishing, polishing and microfinishing operations, both in dry and wet applications.
- Excellent results on primers, paints, clear coats, lacquers, and sealers in the automotive industry, metal furniture, and appliances; as well as glass, crystal, non ferrous metals and fiberglass.
- Due to its quality it provides the best results in sanding and surface preparation.
- **An essential tool in automotive repainting shops, industry and homes.**

Benefits

- High resistance and great cutting power in sanding operations where flexibility is an important factor.
- Waterproof paper with anti-slip treatment for working either in dry or wet applications.
- Closed coat to obtain fast cutting and a uniform surface.
- Designed for wet finishing applications, where silicon carbide provides unique finishing properties.
- Long lasting sandpaper.

Characteristics

➤ Backing	➤ Anti slip, flexible, resistant, and waterproof A, B, C, and Q paper weights
➤ Mineral	➤ Sharp silicon carbide
➤ Grading	➤ A-99 and C-99 ANSI, wet or dry applications Q-99 FEPA professional, industrial or shop use B-99 JIS for microfinishing surface qualities, for automotive and high quality finish and H-98 general purpose, automotive, industrial.
➤ Structure	➤ Closed coat



WATERPROOF PAPER SHEETS A-99 ANSI > 600 to 220

NOTE:

In sanding processes aluminium oxide has a different aggressiveness than silicon carbide resulting in different finishing patterns.

Black line



TECHNICAL TIP:

In the case of automotive repainting where water is used as a lubricant, it is recommended a perfectly dry surface before applying primers or paint coats. Sanding with an orbital sander improves the finish and yields faster processes.

Applications and use recommendations

Optimum Functional



Plastic



Glass



Lacquers and paints



Non ferrous metals



Metal



Hand Sanding



To use with sander 1/4, 1/3, or 1/2 sheets

Code	Grading	mm	Inches	Box	Pack
00044*	600	230 x 280	9 x 11	500	50
00043*	500	230 x 280	9 x 11	500	50
00042*	400	230 x 280	9 x 11	500	50
00041*	360	230 x 280	9 x 11	500	50
00040*	320	230 x 280	9 x 11	500	50
00039*	280	230 x 280	9 x 11	500	50
00038*	240	230 x 280	9 x 11	500	50
00037*	220	230 x 280	9 x 11	500	50



WATERPROOF PAPER SHEETS

C-99

ANSI > 180 to 60

Code	Grading	mm	Inches	Box	Pack
00055*	180	230 x 280	9 x 11	500	50
00054*	150	230 x 280	9 x 11	500	50
00053*	120	230 x 280	9 x 11	500	50
00052*	100	230 x 280	9 x 11	500	50
00051*	80	230 x 280	9 x 11	500	50
00778*	60	230 x 280	9 x 11	500	50

WATERPROOF PAPER SHEETS

Q-99

FEPA > 2000 to 800

Code	Grading	mm	Inches	Box	Pack
14128*	P2000	230 x 280	9 x 11	500	25
14127*	P1500	230 x 280	9 x 11	500	25
14126*	P1200	230 x 280	9 x 11	500	25
14125*	P1000	230 x 280	9 x 11	500	25
14104*	P800	230 x 280	9 x 11	500	25

WATERPROOF PAPER SHEETS

B-99

JIS > 2000 to 1000

Code	Grading	mm	Inches	Box	Pack
10965*	2000	230 x 280	9 x 11	250	25
00049*	1500	230 x 280	9 x 11	250	25
00048*	1200	230 x 280	9 x 11	250	25
05525*	1000	230 x 280	9 x 11	250	25

HALF WATERPROOF PAPER SHEETS MICROFINE

B-99

JIS > 2000 to 1000

Code	Grading	mm	Inches	Box	Pack
11661*	2000	140 x 230	5 1/2 x 9	250	25
08698*	1500	140 x 230	5 1/2 x 9	250	25
19521*	1200	140 x 230	5 1/2 x 9	250	25
08697*	1000	140 x 230	5 1/2 x 9	250	25

WATERPROOF PAPER SHEETS

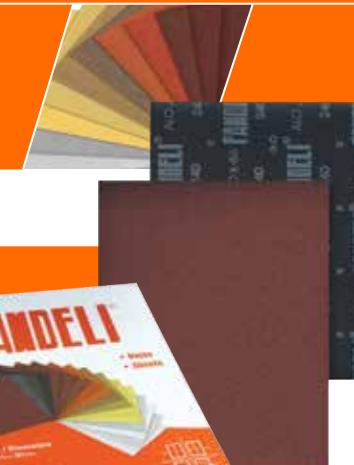
H-98

**FEPA > 1200, 600,
400, 320, 220 to 60**

Code	Grading	mm	Inches	Box	Pack
29996-	2000	230 x 280	9 x 11	500	25
29995-	1500	230 x 280	9 x 11	500	25
10817	1200	230 x 280	9 x 11	500	25
29993-	1000	230 x 280	9 x 11	500	25
29992-	800	230 x 280	9 x 11	500	25
10816	600	230 x 280	9 x 11	500	25
29991-	500	230 x 280	9 x 11	500	25
10813	400	230 x 280	9 x 11	500	25
10812	320	230 x 280	9 x 11	500	25
10811	220	230 x 280	9 x 11	500	25
10810	180	230 x 280	9 x 11	500	25
10809	150	230 x 280	9 x 11	500	25
10808	120	230 x 280	9 x 11	500	25
10807	100	230 x 280	9 x 11	500	25
10806	080	230 x 280	9 x 11	500	25
10805	060	230 x 280	9 x 11	500	25

- No standard product.

* Standard products



CLOTH SHEETS RED PRODUCTS J-86 and X-86 SERIES

Applications

- Designed for operations that require a better finish in industry or in the shop.
- For manual use or orbital sanders.
- Ideal tool for cleaning and polishing metals, wood, plastics and non ferrous metals.
- Recommended for coarse sanding finishes, also for fine to medium finishing according to the grit size selected.
- Due to its grading and versatility, this abrasive line is the best advice.

Benefits

- High cut power and optimum finishing quality.
- Closed coat structure that increases abrasive cut.

Red line



TECHNICAL TIP:

When Sanding Wood it is important that the sanding direction matches the wood grain to obtain better finishes and less reprocesses.

Characteristics

- Backing Medium flexibility and high resistant J weight cotton cloth; standard X weight cotton cloth
- Mineral
- Grading ➤ Aluminium oxide
- ANSI J-86: 400 to 80 (fine to medium)
- X-86: 60 to 36 (medium to coarse)
- Structure ➤ Closed coat



Applications and use recommendations

Optimum



Hand Sanding



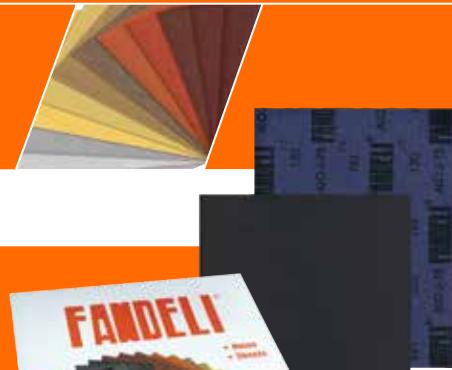
To use with sander 1/4, 1/3, or 1/2 sheets

CLOTH SHEETS J-86 and X-86 ANSI > 400 to 36

NOTE:

Grading must be defined by specification, cutting, finishing or polishing.

Code	Grading	mm	inches	Box	Pack
00082*	400	230 x 280	9 x 11	500	50
00081*	320	230 x 280	9 x 11	500	50
00080*	280	230 x 280	9 x 11	500	50
00079*	240	230 x 280	9 x 11	500	50
00078*	220	230 x 280	9 x 11	500	50
00077*	180	230 x 280	9 x 11	500	50
00076*	150	230 x 280	9 x 11	500	50
00075*	120	230 x 280	9 x 11	500	50
00074*	100	230 x 280	9 x 11	500	50
00073*	80	230 x 280	9 x 11	500	50
00092*	60	230 x 280	9 x 11	250	25
00091*	50	230 x 280	9 x 11	250	25
00090*	40	230 x 280	9 x 11	250	25
00089*	36	230 x 280	9 x 11	250	25



CLOTH SHEETS EMERY BLACK PRODUCTS J-73 SERIES

Emery black line



Applications

- Designed for operations that require a better finish in industry or in the shop.
- For manual use or orbital sanders.
- Ideal tool for cleaning and polishing metals, wood, plastics and non ferrous metals.
- Recommended for coarse sanding finishes, also for fine to medium finishing according to the grit size selected.

➤ Due to its grading and versatility, this abrasive line is the best advice.

TECHNICAL TIP:

Use it for operations whose finishing processes do not require an in-line sanding.

Characteristics

➤ Backing	➤ Light J weight cotton cloth
➤ Mineral	➤ Aluminium oxide
➤ Grading	➤ Fine, medium, coarse and extra coarse
➤ Structure	➤ Closed coat

Applications and use recommendations



Metal



Non ferrous metals



Hand Sanding



To use with sander 1/4, 1/3, or 1/2 sheets



CLOTH SHEETS J-73 ANSI

Code	Grading	mm	Inches	Box	Pack
02331*	FINE	230 x 280	9 x 11	500	50
02332*	MEDIUM	230 x 280	9 x 11	500	50
02333*	COARSE	230 x 280	9 x 11	250	25
08714*	EXTRA COARSE	230 x 280	9 x 11	250	25



WOOD SANDING

Cabinet Paper

BROWN PRODUCTS C081, and D081 SERIES

Applications

- Professional sanding.
- Surface preparation in wood and furniture industries.
- Plaster, fillers and paint sanding.
- Offers alternate uses in dry sanding of plastics and non ferrous metals.
- It is the professional line for wood sanding in industry and in the shop.**

Benefits

- Open coat prevents premature loading, providing longer useful life.
- Abrasive grain versatility for different processes obtaining various finishes.

Brown line



TECHNICAL TIP:

Can be used in plastic and non ferrous metals sanding, as an alternate use. Look for the optimum FANDELI product.

Characteristics

➤ Backing	➤ High resistant C and D paper weights
➤ Mineral	➤ Aluminium oxide
➤ Grading	➤ ANSI, C081 240 to 100 (intermediate finishes); D081 80 to 36 (fast cutting action).
➤ Structure	➤ Open coat



Applications and use recommendations

Optimum Functional



Hand Sanding



To use with sander 1/4, 1/3, or 1/2 sheets

**WOOD
SANDING**
C081
ANSI > 240 to 100
D081
ANSI > 80 to 36

NOTE:

It is the best choice in professional sanding for furniture manufacturers.

Code	Grading	mm	Inches	Box	Pack
11841*	240	230 x 280	9 x 11	500	50
11840*	220	230 x 280	9 x 11	500	50
03267*	180	230 x 280	9 x 11	500	50
00780*	150	230 x 280	9 x 11	500	50
00047*	120	230 x 280	9 x 11	500	50
00046*	100	230 x 280	9 x 11	500	50
00060*	80	230 x 280	9 x 11	500	50
00059*	60	230 x 280	9 x 11	250	25
00058*	50	230 x 280	9 x 11	250	25
00057*	40	230 x 280	9 x 11	250	25
00056*	36	230 x 280	9 x 11	250	25



WOOD SANDING ORANGE PRODUCTS K-61 SERIES

Orange line

Applications

- Sanding of raw wood and untreated wood where professional finishing is required.
- Woodworking that requires an aggressive fast cut.
- Due to its great cutting power on raw wood, sanding process is fast and simple.

Benefits

- Resistant paper provides longer life.



TECHNICAL TIP:

For longer life make the sanding pressure uniform all over the material.

Characteristics

- Backing
- Mineral
- Grading
- Structure
- Resistant Kraft paper
- White aluminium oxide
- Extra fine, fine, medium and coarse
- Closed coat

Applications and use recommendations

 Optimum



To use with sander 1/4, 1/3, or 1/2 sheets

WOOD SANDING K-61 ANSI

Code	Grading	mm	Inches	Box	Pack
17219*	EXTRA FINE	230 x 280	9 x 11	500	50
00084*	FINE	230 x 280	9 x 11	500	50
00086*	MEDIUM	230 x 280	9 x 11	500	50
00085*	COARSE	230 x 280	9 x 11	250	25



DRY SANDING OPEN COAT BISON PRODUCTS B080 SERIES

Applications

- Sanding processes where smooth finishing is required.
- Best tool for dry sanding or finishing where loading is an issue, for surfaces mainly on paint, plastics, polyester, varnishes, lacquers.
- **Best option in automotive refinishing industry due to its excellent finish, accelerates the process as it does not require drying surfaces to apply primers or paint.**

Benefits

- Open coat premium aluminium oxide abrasive yields fine finishes while retaining superior cut and longer life.
- Extensive grit range from microfine grits to coarser grits, gives versatility in applications with optimum results.
- Clean cutting action.
- It avoids color transfer from product to pieces due to its neutral color.

Properties

- Manufactured with stearated lubricants, which prevent premature loading and extend useful life.

Tan line



TECHNICAL TIP:

Sanding Sheets have no color, so do not stain working piece, however piece must be changed for each new color.

Characteristics

➢ Backing	➢ B weight paper
➢ Mineral	➢ Premium aluminium oxide
➢ Grading	➢ FEPA, extensive grit range from P2000 to P80
➢ Structure	➢ Open coat



Dry Sanding

Stearated lubricants

Prevent loading

Applications and use recommendations

Optimum

Functional



Hand Sanding



To use with sander 1/4, 1/3, or 1/2 sheets

DRY SANDING B080 FEPA > P2000 to P80

NOTE:

The very best product for professional work.

Code	Grading	mm	Inches	Box	Pack
19964	P800	230 x 280	9 x 11	500	50
19945	P600	230 x 280	9 x 11	500	50
19944	P400	230 x 280	9 x 11	500	50
19676	P320	230 x 280	9 x 11	500	50
19943	P280	230 x 280	9 x 11	500	50
23682	P240	230 x 280	9 x 11	500	50
19672	P220	230 x 280	9 x 11	500	50
19942	P180	230 x 280	9 x 11	500	50
19671	P150	230 x 280	9 x 11	500	50
19669	P120	230 x 280	9 x 11	500	50
19832	P100	230 x 280	9 x 11	500	50
19833	P80	230 x 280	9 x 11	500	50



DRY SANDING OPEN COAT GOLD PRODUCTS A080 SERIES

Applications

- It is an excellent option in dry sanding and finishing operations on wood surfaces, paint and plastics.
- Ideal sandpaper for manual or machine sanding in wood industry, due to its uniform cutting power will produce fine finishes.
- It is ideal for working in wood surfaces.**

Benefits

- Manufactured with stearated lubricants, which prevent premature loading and extend useful life.

Gold line



TECHNICAL TIP:

For longer life make the sanding pressure uniform all over the material.

Characteristics

- Backing
- Mineral
- Grading
- Structure
- A weight paper
- Premium aluminium oxide
- FEPA from P800 to P80 (except P500 and P360)
- Open coat



Dry Sanding

Stearated lubricants

DRY SANDING A080 FEPA > P800 to P80

NOTE:

For professional finishing use specific grade.

Applications and use recommendations

 Optimum

 Functional



Wood



Lacquers and paints



Hand Sanding



Sander



To use with sander 1/4, 1/3, or 1/2 sheets



Code	Grading	mm	Inches	Box	Pack
09769	P800	230 x 280	9 x 11	500	50
09768*	P600	230 x 280	9 x 11	500	50
17171*	P400	230 x 280	9 x 11	500	50
17170*	P320	230 x 280	9 x 11	500	50
17169*	P280	230 x 280	9 x 11	500	50
09444*	P240	230 x 280	9 x 11	500	50
18238*	P220	230 x 280	9 x 11	500	50
18248*	P180	230 x 280	9 x 11	500	50
18249*	P150	230 x 280	9 x 11	500	50
18250*	P120	230 x 280	9 x 11	500	50
09767*	P100	230 x 280	9 x 11	500	50
18237*	P80	230 x 280	9 x 11	500	50



DRY SANDING SILVER PRODUCTS A090 SERIES

Applications

- Sanding processes that requires fast and aggressive cut.
- Works over plastics, paint, fiberglass, polyester, coatings and non ferrous metals.

Benefits

- Silicon carbide provides sandpaper the power to cut fast with a uniform finish.
- Standard line from fine to medium grits to be used on wood, plastics, fiberglass, paint, polyester and coatings.
- Silicon carbide results in unique finishing characteristics.
- Manufactured with stearated lubricants, which prevent premature loading and extend life.

Silver line



TECHNICAL TIP:

Expert workers can obtain a great finish, with finer grits.

Characteristics

- Backing
- A weight paper
- Mineral
- Sharp silicon carbide
- Grading
- ANSI from 360 to 80
- Structure
- Open coat



Dry Sanding

Stearated lubricants

Prevent loading

Applications and use recommendations

Optimum Functional



Lacquers and paints



Wood



Non ferrous metals



Hand Sanding



To use with sander 1/4, 1/3, or 1/2 sheets



To use with sander 1/4, 1/3, or 1/2 sheets



To use with sander 1/4, 1/3, or 1/2 sheets

DRY SANDING A090 ANSI > 360 to 80

NOTE:

Silicon carbide provides faster and deeper cut power.

Code	Grading	mm	inches	Box	Pack
00209*	360	230 x 280	9 x 11	500	50
00208*	320	230 x 280	9 x 11	500	50
00207*	280	230 x 280	9 x 11	500	50
00206*	240	230 x 280	9 x 11	500	50
00205*	220	230 x 280	9 x 11	500	50
00204*	180	230 x 280	9 x 11	500	50
00203*	150	230 x 280	9 x 11	500	50
00202*	120	230 x 280	9 x 11	500	50
00201*	100	230 x 280	9 x 11	500	50
00200	80	230 x 280	9 x 11	500	50

FANDELI®



Coated Abrasives



› **BELTS**

GENERAL CATALOG



PORTABLE BELTS <

NARROW BELTS <

WIDE BELTS <

SEGMENTED BELTS <

GRAPHITIZED FABRIC <



BELTS CHART

BELTS CHART									
Belt	Applications								
	Sleeves			Portable Belts			Segmented		
Line	Backing	Abrasive	Adhesive	Coating	Brand	Line	Width (m)	Length (m)	Measurement
E-93	E Wt paper	SIC	Resin/Glue	Closed coat	F	E-93	0.203 y ≤ 0.254	0.159 y ≤ 0.229	P = FEPA - P Granding
E-96	E Wt paper	SIC	Resin/Glue	Closed coat	F/N	E-96	0.006 y ≤ 0.305	0.006 y ≤ 0.305	J = JIS Granding
R-98	X Wt Polycotton cloth	SIC	Resin/Resin	Closed coat	N	R-98	0.006 y ≤ 0.305	0.914 y ≤ 25.0	M = Medium
Y-98	Y Wt Polyester cloth	SIC	Resin/Resin	Closed coat	N	S-98	0.006 y ≤ 0.305	0.813 y ≤ 8.868	EF = Extra Fine
S-99*	S Wt Polyester cloth	SIC	Resin/Resin	Antistatic	F	S-99*	0.006 y ≤ 0.305	2.5 y ≤ 4.170	Segmented
W-98	W Wt Waterproof cloth	SIC	Resin/Resin	Closed coat	F	W-98	0.305 y ≤ 1.372	0.813 y ≤ 2.645	Wide
X-98	X Wt Cotton cloth	SIC	Resin/Resin	Closed coat	F	X-98	0.406 y ≤ 0.914	1.372 y ≤ 4.170	Major
Y-98	Y Wt Polycotton cloth	SIC	Resin/Resin	Closed coat	N	Y-98	0.406 y ≤ 0.914	1.372 y ≤ 4.170	Minor
E-83	E Wt Lube paper	ALO	Resin/Glue	Closed coat	F	E-83	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
J-86	J Wt Cotton cloth	ALO	Resin/Resin	Closed coat	F/N	J-86	0.006 y ≤ 0.305	0.813 y ≤ 8.868	Minor or equal
JF-87	J Wt Cotton cloth	ALO Premium	Resin/Resin	Closed coat	F	JF-87	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major
X-86	X Wt Cotton cloth	ALO	Resin/Resin	Closed coat	F	X-86	0.006 y ≤ 0.305	0.813 y ≤ 8.868	Minor
X-86	X Wt Cotton cloth	ALO	Resin/Resin	Closed coat	N	X-86	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
E088	E Wt paper	ALO Premium	Resin/Resin	Open coat	F	E088	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
F084*	E Wt paper	ALO Premium	Resin/Resin	Open coat	N	F084*	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
JF-88**	J Wt flexible cloth	ALO Premium	Resin/Resin	Closed coat	F	JF-88**	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
R-88	X Wt Polycotton cloth	ALO Premium	Resin/Resin	Closed coat	F/N	R-88	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
W-88	W Wt Waterproof cloth	ALO Premium	Resin/Resin	Closed coat	F	W-88	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
XO-88	X Wt Cotton cloth	ALO Premium	Resin/Resin	Closed coat	F/N	XO-88	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
X-88	X Wt Cotton cloth	ALO Premium	Resin/Resin	Closed coat	F/N	X-88	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
Y0-88	Y Wt Polycotton cloth	ALO Premium	Resin/Resin	Closed coat	N	Y0-88	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
Y-88	Y Wt Polycotton cloth	ALO/ZIRC	Resin/Resin	Closed coat	N	Y-88	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
RO-13	X Wt Polycotton cloth	ALO/ZIRC	Resin/Resin	Closed coat	N	RO-13	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
R-13	X Wt Polycotton cloth	ZIRC	Resin/Resin	Closed coat	N	R-13	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
S-18	Y Wt Polyester cloth	ZIRC	Resin/Resin	Closed coat	N	S-18	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
S-19**	Y Wt Polyester cloth	ZIRC	Resin/Resin	Closed coat	N	S-19**	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal
S-20**	Y Wt Polyester cloth	Ceramic	Resin/Resin	Closed coat	F	S-20**	0.006 y ≤ 0.305	0.914 y ≤ 25.0	Major or equal

$P = PEA - P$ Granding $A = ANSI - A$ Granding $J = JS$ Granding
 $XC =$ Extra Coarse $C =$ Coarse $M =$ Medium
 $F =$ Fine $EF =$ Extra Fine

A = ANSI - A
C = Coarse
EF = Extra Fine

F = FANDELI Brand N = Unbranded

AI : Major or equal
VI : Menor or equal
Λ : Major
∨ : Minor

Type	Width (m)	Measurement	Length (m)
Narrow	$0.006 \leq y \leq 0.305$	$y > 0.914$	$y \leq 25.0$
Wide	$y > 0.305$	$y \leq 1.372$	$y \leq 8.868$

Type	Width (m)	Length (m)	Measurement
Sleeves	$0.203 \text{ y} \leq 0.254$	$0.159 \text{ y} \leq 0.229$	$\Delta 0.0006 \text{ y} \leq 0.305$ < 0.406
Portable belts	$0.0006 \text{ y} \leq 0.305$	$0.406 \text{ y} \leq 0.914$	$\Delta 0.0006 \text{ y} \leq 0.305$ < 0.406



BELTS

Coated abrasive belts are one of the most required abrasive in the industry. Also the most effective and most economical tool, available for stock removal, intermediate finishing and polishing operations on hard and soft metals and wood. Used on portable belt sanding machines and stationary sanders.

Paper belts. Wood working narrow and wide belts have a broad use in primary woodworking operations and furniture manufacturing operations. Wide belts are used for plywood and panel sanding, where moderate pressures are used on E or F weight backing. Narrow paper belts are applied on stroke sanding machines.

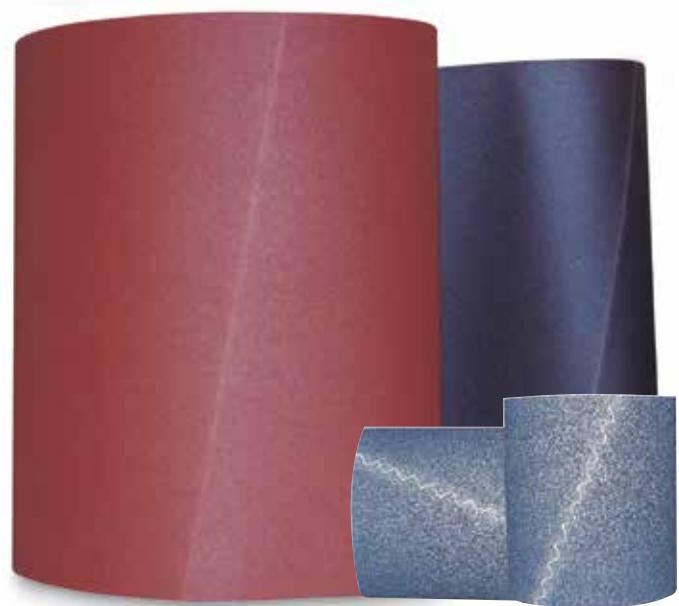
Portable belts. The choice where operating pressures are from moderate to heavy, and where belt life and cutting action are more important than a soft finishing action.

Narrow cloth belts. Used on a wide range of moderate to heavy grinding metalwork operations; manufactured with different abrasives, such as: aluminium oxide, zirconia alumina, silicon carbide and ceramics, resin bonded, and closed coat for heavy stock removal.

Wide cloth belts and segmented. Used on a wide range of metalworking and woodworking applications where operating pressures will vary from moderate to heavy.

Widths. Narrow belts from 1/4" to 12". Wide belts from 12" up to 54". Segmented belts from 56" up to 130".

Splices. Butt splices and sine-lock splices.



Benefits:

- Complete product standard line and made to order.
- Best cost benefit ratio.
- Technical assessment for end users applications.
- More than 80 years on the market place.

PORTABLE BELTS RED PRODUCTS R-88, and Y-88 SERIES

Applications

- Professional series designed for industrial operations used on a wide range of metalworking applications.
- Stronger backings along with premium abrasive, provides a high stock removal and excellent finish.
- Great metal and wood finished surfaces, by the action of tough, closed coat aluminium oxide.
- Good performance on aluminium as other well as other non ferrous metals.
- Good option for wet sanding of non ferrous and marble.
- **It is the best option for surface preparation.**

Benefits

- High quality on finishes.
- Made to order special sizes.
- Sizes:
3" x 18", 3" x 21", 3" x 24", 4" x 21", 4" x 24".

Red line



TECHNICAL TIP:

In portable belts use is important to keep the contact platen in optimal conditions to avoid splice failure.

Characteristics

- Backing ➤ R-88, heavy weight polycotton;
 Y-88, heavy
 Y weight polycotton
- Mineral ➤ Premium aluminium oxide
- Grading ➤ R-88 FEPA from P120 to P50 (medium grit sizes
 to intermediate)
- Structure ➤ Y-88 FEPA from P40-P24 (coarse grit sizes to
 heavy grinding)
- Closed coat



Applications and use recommendations



Optimum



Functional



Metal



Wood



Non ferrous
metals



Portable
belt sander

NOTE:

If there is premature loading,
the belt can be washed in
order to be reused.



**PORTABLE
BELTS
R-88**
FEPA > P120 to P50

Code	Grading	mm	Inches	Box	Pack
02891	P120	76 x 457	3 x 18	50	10
02883	P100	76 x 457	3 x 18	50	10
02874	P80	76 x 457	3 x 18	50	10
02863	P60	76 x 457	3 x 18	50	10
02837	P50	76 x 457	3 x 18	50	5
02888	P120	76 x 533	3 x 21	50	5
03159	P100	76 x 533	3 x 21	50	5
02881	P80	76 x 533	3 x 21	50	5
03103	P60	76 x 533	3 x 21	50	5
02844	P50	76 x 533	3 x 21	50	5
02889	P120	76 x 610	3 x 24	50	5
01527	P100	76 x 610	3 x 24	50	5
02880	P80	76 x 610	3 x 24	50	5
03173	P60	76 x 610	3 x 24	50	5
02849	P50	76 x 610	3 x 24	50	5
02892	P120	101 x 533	4 x 21	50	5
02882	P100	101 x 533	4 x 21	50	5
02878	P80	101 x 533	4 x 21	50	5
02868	P60	101 x 533	4 x 21	50	5
02852	P50	101 x 533	4 x 21	50	5
02890	P120	101 x 610	4 x 24	50	5
03269	P100	101 x 610	4 x 24	50	5
02877	P80	101 x 610	4 x 24	50	5
03266	P60	101 x 610	4 x 24	50	5
02840	P50	101 x 610	4 x 24	50	5

**PORTABLE
BELTS
Y-88**
FEPA > P40 to P24

Code	Grading	mm	Inches	Box	Pack
03231	P40	76 x 457	3 x 18	50	5
03229	P36	76 x 457	3 x 18	50	5
03218	P24	76 x 457	3 x 18	50	5
03050	P40	76 x 533	3 x 21	50	5
03225	P36	76 x 533	3 x 21	50	5
03222	P24	76 x 533	3 x 21	50	5
16739	P40	76 x 610	3 x 24	50	5
03228	P36	76 x 610	3 x 24	50	5
03219	P24	76 x 610	3 x 24	50	5
03230	P40	101 x 533	4 x 21	50	5
03226	P36	101 x 533	4 x 21	50	5
03220	P24	101 x 533	4 x 21	50	5
03198	P40	101 x 610	4 x 24	50	5
03227	P36	101 x 610	4 x 24	50	5
03224	P24	101 x 610	4 x 24	50	5

PORTABLE BELTS MAROON PRODUCTS X-88 SERIES

Applications

- High performance belts due to the abrasive quality optimize the capacity to remove material, extending useful belt life.
- It has a medium stiffness and longer life in addition to versatility, the best option in metalworking.

Benefits

- Made to order special sizes.
- Sizes:
3" x 18", 3" x 21", 3" x 24", 4" x 21", 4" x 24".

Maroon line



TECHNICAL TIP:

When working on sharp edges is important to avoid excessive loads on the belt, this will improve belt life.

Characteristics

- Backing
- Mineral
- Grading
- Structure
- Standard X weight cotton cloth
- Premium aluminium oxide
- ANSI from 120 to 36, and 24
- Closed coat



Applications and use recommendations



Optimum



Functional



Metal



Wood



Non ferrous metals



Portable belt sander

NOTE:

Portable belts in special sizes also available.



**PORTABLE
BELTS**
X-88
ANSI > 120 to 36, 24

Code	Grading	mm	Inches	Box	Pack
00878*	120	76 x 457	3 x 18	50	10
00955	100	76 x 457	3 x 18	50	10
00933*	80	76 x 457	3 x 18	50	10
00915*	60	76 x 457	3 x 18	50	10
00879	50	76 x 457	3 x 18	50	5
02977	40	76 x 457	3 x 18	50	5
00842	36	76 x 457	3 x 18	50	5
03922	24	76 x 457	3 x 18	50	5
00236*	120	76 x 533	3 x 21	50	5
00237*	100	76 x 533	3 x 21	50	5
07564*	80	76 x 533	3 x 21	50	5
00238*	60	76 x 533	3 x 21	50	5
01556*	50	76 x 533	3 x 21	50	5
01557	40	76 x 533	3 x 21	50	5
01548	36	76 x 533	3 x 21	50	5
03857	24	76 x 533	3 x 21	50	5
07937	120	76 x 610	3 x 24	50	5
07786	100	76 x 610	3 x 24	50	5
07568*	80	76 x 610	3 x 24	50	5
07327*	60	76 x 610	3 x 24	50	5
00239	50	76 x 610	3 x 24	50	5
01565	40	76 x 610	3 x 24	50	5
07024	36	76 x 610	3 x 24	50	5
08237	24	76 x 610	3 x 24	50	5
00980	120	101 x 533	4 x 21	50	5
00956	100	101 x 533	4 x 21	50	5
01213	80	101 x 533	4 x 21	50	5
02987	60	101 x 533	4 x 21	50	5
03162	50	101 x 533	4 x 21	50	5
00846	40	101 x 533	4 x 21	50	5
00843	36	101 x 533	4 x 21	50	5
03158	24	101 x 533	4 x 21	50	5
01552	120	101 x 610	4 x 24	50	5
01546*	100	101 x 610	4 x 24	50	5
07589*	80	101 x 610	4 x 24	50	5
01564*	60	101 x 610	4 x 24	50	5
01555	50	101 x 610	4 x 24	50	5
01554*	40	101 x 610	4 x 24	50	5
01561	36	101 x 610	4 x 24	50	5
01562	24	101 x 610	4 x 24	50	5
07671*	80	152 x 1,220	6 x 48	20	20
01366*	60	152 x 1,220	6 x 48	20	20

PORTABLE BELTS RED PRODUCTS J-86 and X-86 SERIES

Applications

- General use in industry, hardware or woodworking.
- Fine and coarse sanding on wood, metal and non ferrous.
- Gives an excellent cost performance balance for sanding raw wood and treated wood.

Benefits

- Allows a step by step finishing on large surfaces.
- Made to order special sizes.
- High performance and long life.
- Highly resistant and flexible cloth.
- Sizes:
3" x 18", 3" x 21", 3" x 24", 4" x 21", 4" x 24".

Red line



TECHNICAL TIP:

In wood sanding is important that the sanding direction, is the same as the grain of the wood this will result in a good finish.

Characteristics

- Backing J-86, medium flexible J weight cotton cloth; X-86, standard X weight cotton cloth
- Mineral Aluminium oxide
- Grading J-86 ANSI from 400 to 80, and X-86 from 60 to 36
- Structure Closed coat



Applications and use recommendations

Optimum Functional



Portable belt sander

NOTE:

Its wide variety allows working on every sanding operation.



**PORTABLE
BELTS**
J-86
**ANSI > 400, 320
to 150**

Code	Grading	mm	Inches	Box	Pack
02836	400	76 x 457	3 x 18	50	10
02833	320	76 x 457	3 x 18	50	10
02824	280	76 x 457	3 x 18	50	10
02818	240	76 x 457	3 x 18	50	10
02811	220	76 x 457	3 x 18	50	10
02808	180	76 x 457	3 x 18	50	10
02801	150	76 x 457	3 x 18	50	10
02075	400	76 x 533	3 x 21	50	5
02828	320	76 x 533	3 x 21	50	5
02827	280	76 x 533	3 x 21	50	5
02822	240	76 x 533	3 x 21	50	5
06684	220	76 x 533	3 x 21	50	5
03932	180	76 x 533	3 x 21	50	5
02800	150	76 x 533	3 x 21	50	5
12102	400	76 x 610	3 x 24	50	5
02829	320	76 x 610	3 x 24	50	5
02826	280	76 x 610	3 x 24	50	5
02820	240	76 x 610	3 x 24	50	5
04236	220	76 x 610	3 x 24	50	5
04104	180	76 x 610	3 x 24	50	5
02803	150	76 x 610	3 x 24	50	5
02835	400	101 x 533	4 x 21	50	5
02834	320	101 x 533	4 x 21	50	5
02825	280	101 x 533	4 x 21	50	5
02817	240	101 x 533	4 x 21	50	5
02814	220	101 x 533	4 x 21	50	5
02810	180	101 x 533	4 x 21	50	5
02802	150	101 x 533	4 x 21	50	5
04002	400	101 x 610	4 x 24	50	5
02832	320	101 x 610	4 x 24	50	5
02823	280	101 x 610	4 x 24	50	5
02816	240	101 x 610	4 x 24	50	5
12104	220	101 x 610	4 x 24	50	5
12103	180	101 x 610	4 x 24	50	5
02805	150	101 x 610	4 x 24	50	5



**PORTABLE
BELTS**
X-86
ANSI > 120 to 36

Code	Grading	mm	Inches	Box	Pack
04994	120	76 x 457	3 x 18	50	10
00189*	100	76 x 457	3 x 18	50	10
08501*	80	76 x 457	3 x 18	50	10
05571*	60	76 x 457	3 x 18	50	10
00750*	50	76 x 457	3 x 18	50	5
05314*	40	76 x 457	3 x 18	50	5
03992*	36	76 x 457	3 x 18	50	5
03859*	120	76 x 533	3 x 21	50	5
06280*	100	76 x 533	3 x 21	50	5
05936*	80	76 x 533	3 x 21	50	5
05579*	60	76 x 533	3 x 21	50	5
05429*	50	76 x 533	3 x 21	50	5
08503*	40	76 x 533	3 x 21	50	5
08502*	36	76 x 533	3 x 21	50	5
06495*	120	76 x 610	3 x 24	50	5
06284*	100	76 x 610	3 x 24	50	5
05941*	80	76 x 610	3 x 24	50	5
05588*	60	76 x 610	3 x 24	50	5
05433*	50	76 x 610	3 x 24	50	5
05324*	40	76 x 610	3 x 24	50	5
05208*	36	76 x 610	3 x 24	50	5
03541	120	101 x 533	4 x 21	50	5
03540*	100	101 x 533	4 x 21	50	5
03539*	80	101 x 533	4 x 21	50	5
03538*	60	101 x 533	4 x 21	50	5
03536	50	101 x 533	4 x 21	50	5
03534	40	101 x 533	4 x 21	50	5
03374	36	101 x 533	4 x 21	50	5
03542*	120	101 x 610	4 x 24	50	5
00191*	100	101 x 610	4 x 24	50	5
08509*	80	101 x 610	4 x 24	50	5
05630*	60	101 x 610	4 x 24	50	5
08508*	50	101 x 610	4 x 24	50	5
08507*	40	101 x 610	4 x 24	50	5
05221*	36	101 x 610	4 x 24	50	5
00214*	80	101 x 914	4 x 36	50	10
03089*	50	101 x 914	4 x 36	50	5
00791	60	101 x 914	4 x 36	50	10
06096*	80	152 x 1,220	6 x 48	20	20
05737*	60	152 x 1,220	6 x 48	20	10
05378*	40	152 x 1,220	6 x 48	20	10
06550*	120	152 x 1,220	6 x 48	20	20
04737	36	152 x 1,220	6 x 48	20	10

PORTABLE BELTS BLUE PRODUCTS S-18 SERIES

Blue line

Applications

- Ideal tool in grinding of stainless and hardened steel, due to the increased resistance of the polyester backing and Zirconia alumina abrasive grain
- characterized by its particular cooler grinding.

Benefits

- Offers a high performance sanding and longer life.
- Step by step surfaces finishing.
- Made to order special sizes.
- Sizes:
3" x 18", 3" x 21", 3" x 24", 4" x 21", 4" x 24".



TECHNICAL TIP:

Observe optimum contact platen conditions, to avoid joint failure.

Characteristics

- Backing
- Polyester-sateen cloth
- Mineral
- Zirconia alumina
- Grading
- ANSI from 120 to 24
- Structure
- Closed coat



Applications and use recommendations



 Optimum  Functional

NOTE:

Polyester backing and Zirconia alumina abrasive grain, allows an aggressive grinding, high performance and long lasting life.



**PORTABLE
BELTS**
S-18
ANSI > 120 a 24

Code	Grading	mm	Inches	Box	Pack
03156	100	076 x 457	3 x 18	50	10
03138	80	076 x 457	3 x 18	50	10
03108	60	076 x 457	3 x 18	50	10
03085	50	076 x 457	3 x 18	50	10
03083	40	076 x 457	3 x 18	50	5
03078	36	076 x 457	3 x 18	50	5
03168	100	076 x 533	3 x 21	50	5
21361	80	076 x 533	3 x 21	50	5
03161	60	076 x 533	3 x 21	50	5
03091	50	076 x 533	3 x 21	50	5
03160	40	076 x 533	3 x 21	50	5
03080	36	076 x 533	3 x 21	50	5
16738	100	076 x 610	3 x 24	50	5
21392	80	076 x 610	3 x 24	50	5
16737	60	076 x 610	3 x 24	50	5
21360	50	076 x 610	3 x 24	50	5
03186	40	076 x 610	3 x 24	50	5
03077	36	076 x 610	3 x 24	50	5
03157	100	101 x 533	4 x 21	50	5
03143	80	101 x 533	4 x 21	50	5
03100	60	101 x 533	4 x 21	50	5
03090	50	101 x 533	4 x 21	50	5
03084	40	101 x 533	4 x 21	50	5
03082	36	101 x 533	4 x 21	50	5
03273	100	101 x 610	4 x 24	50	5
03123	80	101 x 610	4 x 24	50	5
03271	60	101 x 610	4 x 24	50	5
21362	50	101 x 610	4 x 24	50	5
03270	40	101 x 610	4 x 24	50	5
03079	36	101 x 610	4 x 24	50	5

PORTABLE BELTS BLACK PRODUCTS W-98 SERIES

Black line (Glass and ceramic)

Applications

- Silicon carbide portable belts are the best option for sanding on glass, pottery, for beveling and dulling sharp edges, due to its excellent finish, yield flexibility and high conformability.
- Ideal for wet work on glass or ceramical pieces.
- Step by step edge glass sanding and finishing.

Benefits

- Made to order special sizes.

Properties

- Sizes:
3" x 18", 3" x 21", 3" x 24", 4" x 21", 4" x 24".



TECHNICAL TIP:

Fine grains are recommended for thin glass, for thicker glass use a coarser grit.

Characteristics

➤ Backing	➤ Waterproof X weight cotton cloth
➤ Mineral	➤ Sharp silicon carbide
➤ Grading	➤ ANSI from 400 to 40
➤ Structure	➤ Closed coat



Applications and use recommendations

 Optimum



NOTE:

Waterproof cotton allows high performance, flexibility, and versatility in wet operations.



**PORTABLE
BELTS**
W-98
**ANSI > 400,
220 to 40**

Code	Grading	mm	Inches	Box	Pack
12107	400	076 x 457	3 x 18	50	10
10204	220	076 x 457	3 x 18	50	10
04809	180	076 x 457	3 x 18	50	10
04525	120	076 x 457	3 x 18	50	10
04775	100	076 x 457	3 x 18	50	10
04261	80	076 x 457	3 x 18	50	10
06059	60	076 x 457	3 x 18	50	10
13490	40	076 x 457	3 x 18	50	5
11475*	400	076 x 533	3 x 21	50	5
00569	220	076 x 533	3 x 21	50	5
02957	180	076 x 533	3 x 21	50	5
00503*	120	076 x 533	3 x 21	50	5
00003*	100	076 x 533	3 x 21	50	5
00489*	80	076 x 533	3 x 21	50	5
03988*	60	076 x 533	3 x 21	50	5
04144	40	076 x 533	3 x 21	50	5
00296*	400	076 x 610	3 x 24	50	5
01100	220	076 x 610	3 x 24	50	5
04950*	180	076 x 610	3 x 24	50	5
04858*	120	076 x 610	3 x 24	50	5
00494	100	076 x 610	3 x 24	50	5
00184	80	076 x 610	3 x 24	50	5
04672	60	076 x 610	3 x 24	50	5
00063	40	076 x 610	3 x 24	50	5
14409	400	101 x 533	4 x 21	50	5
22369	220	101 x 533	4 x 21	50	5
15942	180	101 x 533	4 x 21	50	5
13621	120	101 x 533	4 x 21	50	5
03358	100	101 x 533	4 x 21	50	5
11374	80	101 x 533	4 x 21	50	5
14406	60	101 x 533	4 x 21	50	5
14405	40	101 x 533	4 x 21	50	5
00575*	400	101 x 610	4 x 24	50	5
00570*	220	101 x 610	4 x 24	50	5
00560*	180	101 x 610	4 x 24	50	5
02953*	120	101 x 610	4 x 24	50	5
01106*	100	101 x 610	4 x 24	50	5
02917*	80	101 x 610	4 x 24	50	5
04392*	60	101 x 610	4 x 24	50	5
05295*	40	101 x 610	4 x 24	50	5



PORTABLE BELTS BLACK PRODUCTS R-98 and Y-98 SERIES

Black line

Applications

- For grinding and smoothing soft and non ferrous metals such as aluminium, brass and bronze.
- To work on glass, ceramics or marble, either wet or dry.
- Also works on soft woods like plywood or MDF (Medium Density Fiber), and fiberglass.
- **Ideal for wet and dry sanding of non ferrous metals, natural stones and composites. (as marble or granite), for the solid surface industry.**



Benefits

- Excellent performance, step by step finishing on wet marble surfaces.
- Made to order special sizes.

Properties

Sizes:

3" x 18", 3" x 21", 3" x 24", 4" x 21", 4" x 24".

TECHNICAL TIP:

For finishing and microfinishing request the optimum FANDELI product.

Characteristics

- Backing ➤ R-98, waterproof heavy weight polycotton; Y-98, waterproof heavy Y weight polycotton
- Mineral ➤ Silicon carbide
- Grading ➤ R-98 ANSI 400, 320, 240 to 80 (fine to intermediate gritsizes)
Y-98 ANSI 120, 36 and 24 (fine and coarse gritsizes)
- Structure ➤ Closed coat



Applications and use recommendations

 Optimum  Functional



Portable
belt sander

NOTE:

Due to its polycotton backing can be used in wet applications.



**PORTABLE
BELTS
R-98**
ANSI > 400, 220 to 80

Code	Grading	mm	Inches	Box	Pack
03064	400	76 x 457	3 x 18	50	10
03041	220	76 x 457	3 x 18	50	10
02964	180	76 x 457	3 x 18	50	10
02961	100	76 x 457	3 x 18	50	10
02954	80	76 x 457	3 x 18	50	10
08047	400	76 x 533	3 x 21	50	5
06116	220	76 x 533	3 x 21	50	5
08045	180	76 x 533	3 x 21	50	5
02962	100	76 x 533	3 x 21	50	5
08042	80	76 x 533	3 x 21	50	5
03075	400	76 x 610	3 x 24	50	5
03056	220	76 x 610	3 x 24	50	5
02969	180	76 x 610	3 x 24	50	5
00852	100	76 x 610	3 x 24	50	5
02936	80	76 x 610	3 x 24	50	5
03076	400	101 x 533	4 x 21	50	5
02997	220	101 x 533	4 x 21	50	5
02965	180	101 x 533	4 x 21	50	5
02963	100	101 x 533	4 x 21	50	5
02960	80	101 x 533	4 x 21	50	5
03072	400	101 x 610	4 x 24	50	5
02989	220	101 x 610	4 x 24	50	5
02967	180	101 x 610	4 x 24	50	5
15441	100	101 x 610	4 x 24	50	5
14506	80	101 x 610	4 x 24	50	5

**PORTABLE
BELTS
Y-98**
ANSI > 60 and 40

Code	Grading	mm	Inches	Box	Pack
02934	60	76 x 457	3 x 18	50	10
02907	40	76 x 457	3 x 18	50	10
02922	60	76 x 533	3 x 21	50	5
02919	40	76 x 533	3 x 21	50	5
02928	60	76 x 610	3 x 24	50	5
02906	40	76 x 610	3 x 24	50	5
02930	60	101 x 533	4 x 21	50	5
02904	40	101 x 533	4 x 21	50	5
02927	60	101 x 610	4 x 24	50	5
02920	40	101 x 610	4 x 24	50	5



NARROW BELTS MAROON PRODUCTS JF87 SERIES

Maroon line

Applications

- Recommended for mold sanding and irregular surfaces.
- Provides good cutting action for consistent finishes on wood, metals and non ferrous metals, grey and cast iron.
- Used on a broad range on woodworking applications where operating pressures are from light to moderate.

Characteristics

➤ Backing	➤ Flexible J weight cotton cloth
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ FEPA P400, P320 to P40
➤ Structure	➤ Closed coat

FEPA

P24	P30	P36	P40	P50	P60	P80	P100	P120	P150	P180	P220	P240	P280	P320	P360	P400	P500	P600
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Very high



High



Low



Very low



**FLEXIBILITY
BACKING**

 **Optimum**

 **Functional**

Wood

Metal

Non ferrous metals



NARROW BELTS GREEN PRODUCTS JF88 SERIES

Green line

Applications

- Recommended on Metallurgical industry, surgical material, cutlery, valves, and turbines. Ideal for irregular contours.
- Easily dissipates sanding heat and increases belt life.
- Fine grit applications where some degree of conformability may be required.
- A premium-performing product for fast, long lasting action for ferrous and non ferrous, alloys, stainless steel and woodworking (ideal for abrasive sleeves) flexibility and resistance to loading is essential.

Characteristics

➤ Backing	➤ Flexible high tensile J weight cotton cloth
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ FEPA P400, P320 to P60
➤ Structure	➤ Closed coat

FEPA

P24	P30	P36	P40	P50	P60	P80	P100	P120	P150	P180	P220	P240	P280	P320	P360	P400	P500	P600
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Very high



High



Low



Very low

**FLEXIBILITY
BACKING**

 **Optimum**

 **Functional**

Stainless steel

Alloyed steel

Non ferrous metals

Wood

TECHNICAL TIP:

Grinding aid dissipates heat and increases product life.
Optimum product for stainless and hardened steels.



NARROW BELTS BLUE PRODUCTS R-13 SERIES

Blue line

Applications

► Recommended for deburring operations, stock removal, in metallurgical industry, stainless, high carbon and annealed steels; fast effective and economical abrasive tool, on hard and soft metals; popular for maintenance repair and operational applications; suggested also for heavy duty woodworking Industry.

Characteristics

Backing	Heavy weight polycotton
► Mineral	► Zirconia alumina
► Grading	► FEPA from P120 to P36, P24
► Structure	► Closed coat
►	►

FEPA

P24	P30	P36	P40	P50	P60	P80	P100	P120	P150	P180	P220	P240	P280	P320	P360	P400	P500	P600
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Optimum

Stainless steel

High carbon steels

Annealed steels

Titanium



NARROW BELTS BLUE PRODUCTS R013 SERIES

Blue line

Applications

► Recommended for heavy duty stock removal, in metallurgical industry, for non ferrous metals such as aluminium, copper, bronze, brass, and stainless, high carbon and annealed steels.
► To produce free-cutting action where loading is an issue.

Superior performance reducing cost per finished piece.

Characteristics

► Backing	► Heavy weight polycotton
► Mineral	► Zirconia alumina
► Grading	► FEPA from P120 to P36, P24
► Structure	► Open coat

FEPA

P24	P30	P36	P40	P50	P60	P80	P100	P120	P150	P180	P220	P240	P280	P320	P360	P400	P500	P600
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Optimum

Non ferrous metals

Functional

High carbon steels

Annealed steels

Titanium

NOTE:

Both also available in portable and wide belts.



NARROW BELTS BLUE PRODUCTS S-18 SERIES

Blue line

Applications

- Designed to produce aggressive cutting action, self-sharpening Zirconia alumina for heavy duty stock removal operations.
- Recommended for stainless steels and high tensile alloys and a wide variety of metalworking application where operating pressures are from moderate to heavy, and stock removal is an issue.
- Excellent resistance for high pressure grinding.

Characteristics

➤ Backing	➤ Polyester sateen cloth
➤ Mineral	➤ Zirconia alumina
➤ Grading	➤ ANSI from 120 to 36, 24
➤ Structure	➤ Closed coat

ANSI

24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600
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 Optimum

Stainless steel

Metal

Annealed steels

NARROW BELTS RED PRODUCTS S-20 SERIES

Red line

Applications

- Premium Performing Professional line with rapid stock removal, cutting and long lasting action on titanium, stainless steel, nickel and cobalt alloys. Contains grinding aid that dissipates sanding heat and increases belt life. Ceramic aluminium oxide gives long life and sharper and more consistent cut.
- Ideal for moderate to high pressure applications. Best choice for turbine blades, castings and surgical elements.
- Out perform Zirconia alumina lines offering improved cut rate, with less operator effort, cooler grinding, avoiding parts burning and providing long lasting belt life.

Characteristics

➤ Backing	➤ Polyester sateen cloth
➤ Mineral	➤ Ceramic aluminium oxide
➤ Grading	➤ ANSI from 120 to 36, 24
➤ Structure	➤ Closed coat

ANSI

24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600
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 Optimum

Metal

TECHNICAL TIP:

Grinding aid dissipates heat and increases belt life; also available in portable and narrow belts.



WIDE PAPER BELTS MAROON PRODUCTS E088 SERIES

Maroon line

Applications

- Machine sanding for intermediate and finishing grinding from light to moderate pressures on raw wood and many other woods; synthetic coatings as sealers, varnishes or polyester coatings.

Characteristics

› Backing	› E weight paper
› Mineral	› Premium aluminium oxide
› Grading	› FEPA, P400, P320 to P40
› Structure	› Open coat

FEPA

P24	P30	P36	P40	P50	P60	P80	P100	P120	P150	P180	P220	P240	P280	P320	P360	P400	P500	P600
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Optimum

Functional

Wood

Tannery and leather



WIDE PAPER BELTS BROWN PRODUCTS E-83 SERIES

Brown line

Applications

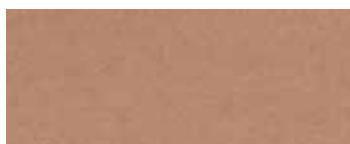
- Machine sanding for intermediate and finishing grinding for light pressures sanding, used in tanneries, hides and leather, raw wood, sealers, varnishes or polyester coatings.

Characteristics

› Backing	› E weight paper
› Mineral	› Aluminium oxide
› Grading	› ANSI 400, 320 to 50
› Structure	› Closed coat

ANSI

24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600
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Optimum

Functional

Wood

Tannery and leather

Plastic

Non ferrous metals



NOTE:

Also available in narrow belts.



WIDE PAPER BELTS BLACK PRODUCTS E-93 SERIES

Black line

Applications

- Machine sanding for intermediate and finishing grinding for light pressures sanding, used in tanneries, hides and leather, raw wood sealers, varnishes or polyester coatings, non ferrous metal sheets.
- Cooler grinding.

Characteristics

➢ Backing	➢ E weight paper
➢ Mineral	➢ Silicon carbide
➢ Grading	➢ ANSI from 400 to 320, 240
➢ Structure	➢ Closed coat

ANSI

24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600
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 Optimum

Plastic

Sealers

Tannery and leather

Rubber

WIDE PAPER BELTS BLACK PRODUCTS E-96 SERIES

Black Line

Applications

- Machine sanding for intermediate grinding from moderate to light pressures sanding, used in wooden floors and raw wood, hides and leather, sealers, varnishes or polyester coatings, non ferrous metal sheets. Free cutting action. Cooler grinding.

Characteristics

➢ Backing	➢ E weight paper
➢ Mineral	➢ Silicon carbide
➢ Grading	➢ ANSI from 220 to 36
➢ Structure	➢ Closed coat

ANSI

24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600
----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



 Optimum

Woods

Plastic

Sealers

Tannery and leather

Rubber

Non ferrous metals

NOTE:

Also available in portable and narrow belts.

TECHNICAL TIP:

Best results for polyester sanding, start with grits 180 to 220, followed by 320 and 400 grits.



WIDE PAPER BELTS BLACK PRODUCTS F084 SERIES

Black line

Applications

- Machine sanding for intermediate grinding, sealers, varnishes or polyester coating, non ferrous metals. Designed for hardwoods sanding on all machines with one or several grinding heads.
- Increased belt life due to its antistatic properties, avoiding dust on panels, preventing loading when using an efficient dust collection system.
- Stationary sanding machines from light to moderate pressures.
- Available in standard size belts, and made to order.

Properties

- Antistatic

Characteristics

Backing	Heavy duty F weight paper
Mineral	Premium aluminium oxide
Grading	FEPA from P220 to P60
Structure	Open coat

FEPA

P24	P30	P36	P40	P50	P60	P80	P100	P120	P150	P180	P220	P240	P280	P320	P360	P400	P500	P600
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Optimum

Functional

Wood

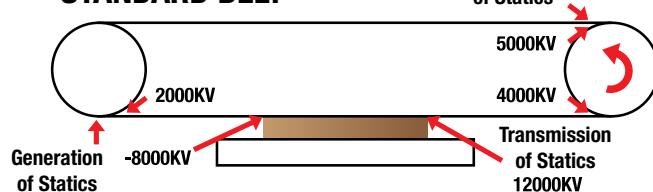
Metal

Non ferrous metals

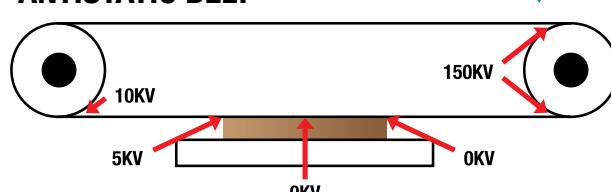
NOTE:

Also available in narrow belts.

STANDARD BELT



ANTISTATIC BELT





WIDE CLOTH BELTS MAROON PRODUCTS X-88

Maroon line

Applications

- For medium grinding and finishing in metalwork industry, mainly metallic surfaces (black metal sheet, carbon steel).
- Used on a wide range of metalworking where operating pressures are from light to moderate.
- Optimum option for ferrous and non ferrous metals.

Characteristics

➢ Backing	➢ X weight cotton cloth
➢ Mineral	➢ Premium aluminium oxide
➢ Grading	➢ ANSI from 320, 240 to 36, 24
➢ Structure	➢ Closed coat

ANSI

24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600
----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



High Moderate Low Very low **FLEXIBILITY BACKING**

 Optimum

 Functional

Carbon steels

Grey iron

Ferrous metals

Hard Woods



WIDE CLOTH BELTS CLOTH PRODUCTS X088

Maroon line

Applications

- For medium grinding and finishing in the woodworking industry, Optimum option for soft woods, hard woods and non ferrous metals.

Characteristics

➢ Backing	➢ X weight cotton cloth
➢ Mineral	➢ Premium aluminium oxide
➢ Grading	➢ ANSI from 220 to 36
➢ Structure	➢ Open coat

ANSI

24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600
----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



High Moderate Low Very low **FLEXIBILITY BACKING**

 Optimum

 Functional

Wood

Metal

NOTE:

- X-88 > Also available in portable and narrow belts.
- X088 > Also available in portable and narrow belts, and sleeves.

TECHNICAL TIP:

When working on sharp edges it is important to reduce pressure on the belt, to avoid damages.



WIDE CLOTH BELTS RED PRODUCTS R-88 and Y-88

Red line

Applications

- Designed for industry used on a wide range of metalworking applications.
- Stronger backings along with premium abrasive, provides a high capacity on stock removal and finishing. The best option for surfaces preparation.
- Excellent on metal.
- High quality on finishes.
- Good performance on aluminium as well as other non ferrous metals.
- Good option for wet sanding.

Characteristics

Backing	R-88, heavy weight polycotton; Y-88, heavy Y weight polycotton
Mineral	Premium aluminium oxide
Grading	R-88, FEPA P400, P320 to P50; Y-88, FEPA P40, P36 and P24
Structure	Closed coat

WIDE CLOTH BELTS RED PRODUCTS Y088

Red line

Applications

- Used for industrial operations on a wide range of woodworking.
- High capacity on stock removal and finishing.
- Excellent for hardwood finishes or plastic laminates, open coating prevents loading providing long life.
- Good performance on aluminium as well as metals.
- Good option for wet sanding of non ferrous metals.

Characteristics

Backing	Heavy Y weight polycotton
Mineral	Premium aluminium oxide
Grading	FEPA from P220 to P36, P24
Structure	Open coat

FEPA

P24 P30 P36 P40 P50 P60 P80 P100 P120 P150 P180 P220 P240 P280 P320 P360 P400 P500 P600



Very high High Low Very low

**FLEXIBILITY
BACKING**

Optimum

Wood

High carbon steels

Grey iron

Non ferrous metals



FEPA

P24 P30 P36 P40 P50 P60 P80 P100 P120 P150 P180 P220 P240 P280 P320 P360 P400 P500 P600



Very high High Low Very low

**FLEXIBILITY
BACKING**

Optimum

Wood

NOTE:

R-88 and Y-88 > Also available in portable and narrow belts.

Y088 > Keep belts under conditions described in the package; extreme dryness may cause belt convexity; extreme humidity may cause belt concavity.

TECHNICAL TIP:

R-88 and Y-88 > Joint failure keep contact platen in optimum conditions to avoid.



WIDE CLOTH BELTS BLACK PRODUCTS R-98 and Y-98

Black line

Applications

- Designed for industrial woodworking applications.
- Excellent for particle board, MDF (Medium Density Fiber), and HDF (High Density Fiber) calibration.
- Good performance on aluminium as well as in soft metals and glass industry.
- Good option for wet sanding of non ferrous metals.
- Stronger backings along with premium abrasive, provides a high stock removal performance and finishing.

Characteristics

➤ Backing	➤ R-98, heavy weight polycotton; Y-98, heavy Y weight polycotton
➤ Mineral	➤ Silicon carbide
➤ Grading	➤ R-98 ANSI 400, 320 and 240 to 80 Y-98 ANSI from 120 to 36 and 24
➤ Structure	➤ Closed coat

SEGMENTED CLOTH BELTS BLACK PRODUCTS S-99

Black line

Applications

- An excellent heavy duty product for primary head sanding used for calibrating operations for particle board, MDF (Medium Density Fiber), and HDF (High Density Fiber).
- Designed for high pressure operations, to produce a consistent abrasive cutting action and heavy stock removal with resistance to grain shedding and backing fatigue. Belt life is increased due to antistatic properties, which avoid dust on panels, preventing loading when using a dust collection system. Available in segmented belts from 56" to 13" width.

Properties

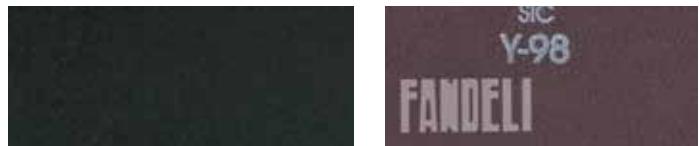
- Antistatic

Characteristics

➤ Backing	➤ Heavy polyester sateen cloth
➤ Mineral	➤ Sharp silicon carbide
➤ Grading	➤ ANSI from 120 to 36 and 24
➤ Structure	➤ Closed coat

ANSI

24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600
----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



 Optimum

 Functional

Wood (particle board)

MDF, HDF

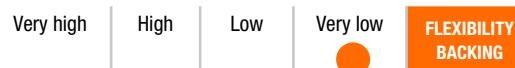
Glass

Non ferrous metals



ANSI

24	30	36	40	50	60	80	100	120	150	180	220	240	280	320	360	400	500	600
----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



 Optimum

Wood (particle board)

MDF, HDF

TECHNICAL TIP:

- R-98 and Y-98 > Due to its backing it can be used in wet processes.
- S-99 > An inefficient dust collection system may load belt, causing a sanding failure.



GRAPHITE COATED CANVAS

Applications

- For protecting platens on wide belt sanding machines, to increase belt life and reduce frictional heat during sanding.
- Recommended for high-pressure operations.



Available length or roll*

Code	width mm/Inches	width (m) x Long
20420	178 / 7	0.178 x 45.72
20113	152 / 6	0.152 x 45.72
02933	152 / 6	0.152 x 1.0
03467	178 / 7	0.178 x 1.0

*For machines with contact platen headstock.

NOTE:

High speeds reduced the life of the graphite coated canvas.

TECHNICAL TIP:

The volume recommended for dust collection system is between 1,220 to 2,050 m³/h (720 to 1,200 ft³/min).

MADE TO ORDER BELTS

Available widths

CLOTH BELTS

mm	Inches	mm	Inches
6	1/4	203	8
9	3/8	229	9
13	1/2	254	10
19	3/4	305	12
25	1	381	15
38	1 1/2	457	18
51	2	533	21
64	2 1/2	610	24
76	3	762	30
89	3 1/2	914	36
101	4	1067	42
127	5	1220	48
152	6	1372	54
178	7		

MADE TO ORDER BELTS

Available widths

SEGMENTED PAPER BELTS

mm	Inches	mm	Inches
76	3	610	24
101	4	762	30
127	5	914	36
152	6	1067	42
178	7	1220	48
203	8	1372	54
229	9	1524	60
254	10	1930	76
305	12	2083	82
381	15	2235	88
457	18	2388	94
533	21	2540	100

NOTE:

Length of belt must fit customer's sander.

TECHNICAL TIP:

Heat causes early loading on wide belts, so it is important to know the function and nature of the machine platens.

FANDELI®



Coated Abrasives



› DISCS

GENERAL CATALOG

CONTACT DISCS <

Kwik Grip® / (PSA) Adhesive

RESIN FIBER DISCS <

QUICK CHANGE DISCS <



CONTACT DISCS

BISON PRODUCTS B080 SERIES

Applications

- The best option for sanding with dual action orbital sanders.
- Multi-purpose adaptation to produce excellent surface finishes.
- Recommended for operations that require optimum surface qualities.
- Excellent on primers and in between coats of painted finishes.
- Special for clear coats.
- **Ideal tool for final sanding of raw wood, sealers, polyester, lacquers, and varnishes.**

Benefits

- Anti-loading system.
- Neutral color avoids color transfer from product to pieces.
- Manufactured with stearated lubricants to prevent premature loading and extend useful life.

Properties

- Available sizes: 5" and 6" in diameter
- Mounting features: Kwik Grip® and PSA

Tan line



TECHNICAL TIP:

Due to its neutral color, avoids color transfer from product to pieces, however discs must be changed for each color.

Characteristics

➤ Backing	➤ B weight paper for orbital use
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ FEPA from P2000 to P80
➤ Structure	➤ Open coat



Prevent loading



Applications and use recommendations

Optimum



CONTACT DISCS B080
FEPA > P800 to P80

NOTE:
Ideal for professional work.

	Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
23221	P1200	127		5	●		PSA		400	50
18105	P800	127		5	●		PSA		500	50
18104	P600	127		5	●		PSA		500	50
18103*	P400	127		5	●		PSA		500	50
18065	P320	127		5	●		PSA		500	50
18102	P280	127		5	●		PSA		500	50
18100*	P240	127		5	●		PSA		500	50
18099	P220	127		5	●		PSA		500	50
18098	P180	127		5	●		PSA		500	50
18043	P150	127		5	●		PSA		500	50
18097*	P120	127		5	●		PSA		500	50
18042	P100	127		5	●		PSA		500	50
18041	P80	127		5	●		PSA		500	50



**CONTACT
DISCS
B080**

FEPA > P800 to P80

**FEPA > P2000
to P1000**

Code	Grading	mm	Inches	No holes	vacuum Holes	PSA	Kwik Grip	Box	Pack
18120	P800	152	6	●		PSA		500	50
18119	P600	152	6	●		PSA		500	50
18117	P400	152	6	●		PSA		500	50
18116	P320	152	6	●		PSA		500	50
18115	P280	152	6	●		PSA		500	50
18114	P240	152	6	●		PSA		500	50
18113	P220	152	6	●		PSA		500	50
18112	P180	152	6	●		PSA		500	50
18111	P150	152	6	●		PSA		500	50
18110	P120	152	6	●		PSA		500	50
18109	P100	152	6	●		PSA		500	50
18106	P80	152	6	●		PSA		500	50
18025	P800	127	5	●			Kwik Grip	400	100
18024	P600	127	5	●			Kwik Grip	400	100
18023*	P400	127	5	●			Kwik Grip	400	100
18022*	P320	127	5	●			Kwik Grip	400	100
18027	P280	127	5	●			Kwik Grip	400	100
18020	P240	127	5	●			Kwik Grip	400	100
18018	P220	127	5	●			Kwik Grip	400	100
18016	P180	127	5	●			Kwik Grip	400	100
18026*	P150	127	5	●			Kwik Grip	400	100
18012	P120	127	5	●			Kwik Grip	400	100
18011*	P100	127	5	●			Kwik Grip	400	100
18007*	P80	127	5	●			Kwik Grip	400	100
13815	P800	152	6	●			Kwik Grip	400	100
13814*	P600	152	6	●			Kwik Grip	400	100
13813*	P400	152	6	●			Kwik Grip	400	100
17953*	P320	152	6	●			Kwik Grip	400	100
18029	P280	152	6	●			Kwik Grip	400	100
17952*	P240	152	6	●			Kwik Grip	400	100
17951*	P220	152	6	●			Kwik Grip	400	100
17950*	P180	152	6	●			Kwik Grip	400	100
18028	P150	152	6	●			Kwik Grip	400	100
17949*	P120	152	6	●			Kwik Grip	400	100
17948	P100	152	6	●			Kwik Grip	400	100
17947*	P80	152	6	●			Kwik Grip	400	100
25011	P1000	127	5	●			Kwik Grip	400	100
25050	P1200	127	5	●			Kwik Grip	400	100
25051	P1500	127	5	●			Kwik Grip	400	100
25052	P2000	127	5	●			Kwik Grip	400	100
22788*	P1000	152	6	●			Kwik Grip	400	100
22789*	P1200	152	6	●			Kwik Grip	400	100
22791	P1500	152	6	●			Kwik Grip	400	100
22792	P2000	152	6	●			Kwik Grip	400	100
24097*	P1000	127	5		5		Kwik Grip	400	100
23811	P1200	127	5		5		Kwik Grip	400	100
23809	P1500	127	5		5		Kwik Grip	400	100
25046	P1000	152	6		6		Kwik Grip	400	100
25047	P1200	152	6		6		Kwik Grip	400	100
25048	P1500	152	6		6		Kwik Grip	400	100
25049	P2000	152	6		6		Kwik Grip	400	100

CONTACT DISCS GOLD PRODUCTS A080, D080, and E080 SERIES

Applications

- Good option for sanding with orbital sanders on raw wood and wood furniture.
- General purpose on wood, plastics and paints.
- Recommended for operations that require optimum surface qualities.
- For final sanding on sealers, polyester, lacquers, and varnishes.
- For fascia, paste, and fillers sanding in the automotive industry.

Benefits

- Anti loading system.
- Long lasting useful life.

Properties

- Mounting features: Kwik Grip® or PSA
- Available sizes: 5" and 6" in diameter, with or without vacuum holes

Yellow line



TECHNICAL TIP:

Experts can achieve a very fine polish, but for microfinishing use the B080 FANDELI line.

Characteristics

- Backing ➤ A080, B weight paper / D080, D weight paper
E080, E weight paper
- Mineral ➤ Premium aluminium oxide
- Grading ➤ FEPA, A080 from P800 to P80, very fine to medium grits from finishing and polishing.
D080 from P100 to P80, medium grits, medium sanding. E080 from P80 to P36, coarse grits, aggressive sanding
- Structure ➤ Open coat



Prevent loading



Applications and use recommendations



Optimum



Functional



Lacquers and paints



Plastic



Manual sanding



Orbital sander



Orbital vacuum sander

CONTACT DISCS A080 FEPA> P800 to P80

NOTE:
Ask your consultant to use it in paint and plastic.

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
04479	P800	127	5	●		PSA		500	50
04452*	P600	127	5	●		PSA		500	50
04408*	P400	127	5	●		PSA		500	50
04350*	P320	127	5	●		PSA		500	50
04343	P280	127	5	●		PSA		500	50
04284	P240	127	5	●		PSA		500	50
04209*	P220	127	5	●		PSA		500	50
04201*	P180	127	5	●		PSA		500	50
04200*	P150	127	5	●		PSA		500	50
04129*	P120	127	5	●		PSA		500	50
04118*	P100	127	5	●		PSA		500	50
04076*	P80	127	5	●		PSA		500	50
04584	P800	152	6	●		PSA		500	50
04581	P600	152	6	●		PSA		500	50

Discs PSA with pull tab.

* Standard products

**CONTACT
DISCS
A080**
FEPA > P800 to P80

Code	Grading	mm	Inches	No holes	vacuum Holes	PSA	Kwik Grip	Box	Pack
04578*	P400	152	6	●		PSA		500	50
04565*	P320	152	6	●		PSA		500	50
04561	P280	152	6	●		PSA		500	50
04661	P220	152	6	●		PSA		500	50
04550	P240	152	6	●		PSA		500	50
04540*	P220	152	6	●		PSA		500	50
04538*	P180	152	6	●		PSA		500	50
04535*	P150	152	6	●		PSA		500	50
04534*	P120	152	6	●		PSA		500	50
04533*	P100	152	6	●		PSA		500	50
04523*	P80	152	6	●		PSA		500	50
04682	P800	127	5		5	PSA		500	50
04681	P600	127	5		5	PSA		500	50
04671	P400	127	5		5	PSA		500	50
04668	P320	127	5		5	PSA		500	50
04667	P280	127	5		5	PSA		500	50
04664	P240	127	5		5	PSA		500	50
04661	P220	127	5		5	PSA		500	50
04658*	P180	127	5		5	PSA		500	50
04657	P150	127	5		5	PSA		500	50
04625	P120	127	5		5	PSA		500	50
04597	P100	127	5		5	PSA		500	50
16595	P80	127	5		5	PSA		500	50
04695	P800	152	6		6	PSA		500	50
04694	P600	152	6		6	PSA		500	50
04693	P400	152	6		6	PSA		500	50
04691	P320	152	6		6	PSA		500	50
04690	P280	152	6		6	PSA		500	50
04689	P240	152	6		6	PSA		500	50
16521	P220	152	6		6	PSA		500	50
04687	P180	152	6		6	PSA		500	50
04686	P150	152	6		6	PSA		500	50
04685	P120	152	6		6	PSA		500	50
04684	P100	152	6		6	PSA		500	50
16520*	P80	152	6		6	PSA		500	50
20380	P800	127	5	●			Kwik Grip	400	100
19491	P600	127	5	●			Kwik Grip	400	100
19794*	P400	127	5	●			Kwik Grip	400	100
19229*	P320	127	5	●			Kwik Grip	400	100
08558	P280	127	5	●			Kwik Grip	400	100
09320*	P240	127	5	●			Kwik Grip	400	100
19228*	P220	127	5	●			Kwik Grip	400	100
07098*	P180	127	5	●			Kwik Grip	400	100
03449*	P150	127	5	●			Kwik Grip	400	100
07140*	P120	127	5	●			Kwik Grip	400	100
08291*	P100	127	5	●			Kwik Grip	400	100
07703*	P80	127	5	●			Kwik Grip	400	100
13904	P800	152	6	●			Kwik Grip	400	100
02507*	P600	152	6	●			Kwik Grip	400	100
08681*	P400	152	6	●			Kwik Grip	400	100
19230*	P320	152	6	●			Kwik Grip	400	100
09668	P280	152	6	●			Kwik Grip	400	100
12611*	P240	152	6	●			Kwik Grip	400	100
19231*	P220	152	6	●			Kwik Grip	400	100
08250*	P180	152	6	●			Kwik Grip	400	100
08324*	P150	152	6	●			Kwik Grip	400	100
04715*	P120	152	6	●			Kwik Grip	400	100
08200*	P100	152	6	●			Kwik Grip	400	100
04712*	P80	152	6	●			Kwik Grip	400	100


**CONTACT
DISCS**
A080
FEPA> P800 to P80

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
06412	P800	127	5		5		Kwik Grip	400	100
19756	P600	127	5		5		Kwik Grip	400	100
19755	P400	127	5		5		Kwik Grip	400	100
19758	P320	127	5		5		Kwik Grip	400	100
00441	P280	127	5		5		Kwik Grip	400	100
20234	P240	127	5		5		Kwik Grip	400	100
19759	P220	127	5		5		Kwik Grip	400	100
06410	P180	127	5		5		Kwik Grip	400	100
03453	P150	127	5		5		Kwik Grip	400	100
20233*	P120	127	5		5		Kwik Grip	400	100
20232*	P100	127	5		5		Kwik Grip	400	100
06409*	P80	127	5		5		Kwik Grip	400	100
14476	P800	152	6		6		Kwik Grip	400	100
19754	P600	152	6		6		Kwik Grip	400	100
19753	P400	152	6		6		Kwik Grip	400	100
19775*	P320	152	6		6		Kwik Grip	400	100
09678	P280	152	6		6		Kwik Grip	400	100
09677	P240	152	6		6		Kwik Grip	400	100
09676	P220	152	6		6		Kwik Grip	400	100
09675	P180	152	6		6		Kwik Grip	400	100
09674*	P150	152	6		6		Kwik Grip	400	100
04632*	P120	152	6		6		Kwik Grip	400	100
06039*	P100	152	6		6		Kwik Grip	400	100
06444*	P80	152	6		6		Kwik Grip	400	100

**CONTACT
DISCS**
D080
FEPA> P100 and P80

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
14224	P100	127	5	●		PSA		500	50
14225	P80	127	5	●		PSA		500	50
14478	P100	127	5	●			Kwik Grip	250	25
14477	P80	127	5	●			Kwik Grip	250	25
09642	P100	152	6	●		PSA		500	50
19236	P80	152	6	●		PSA		500	50
09666	P100	152	6	●			Kwik Grip	250	25
09665	P80	152	6	●			Kwik Grip	250	25
14228	P100	127	5		5	PSA		500	50
14229	P80	127	5		5	PSA		500	50
14480	P100	127	5		5		Kwik Grip	250	25
14479	P80	127	5		5		Kwik Grip	250	25
09646	P100	152	6		6	PSA		500	50
09645	P80	152	6		6	PSA		500	50
09672	P100	152	6		6		Kwik Grip	250	25
09671	P80	152	6		6		Kwik Grip	250	25

**CONTACT
DISCS
E080
FEPA > P80 to P36**

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
06339	P80	127	5			PSA		500	50
09448	P60	127	5			PSA		500	50
21345	P40	127	5			PSA		500	50
06340	P36	127	5			PSA		500	50
06342	P80	127	5				Kwik Grip	250	25
04116*	P60	127	5				Kwik Grip	250	25
04111	P40	127	5				Kwik Grip	250	25
06341	P36	127	5				Kwik Grip	250	25
08091*	P80	152	6				Kwik Grip	250	25
09664	P60	152	6				Kwik Grip	250	25
09663*	P40	152	6				Kwik Grip	250	25
09662*	P36	152	6				Kwik Grip	250	25
05062	P80	152	6			PSA		500	50
09277	P60	152	6			PSA		500	50
09641	P40	152	6			PSA		500	50
09640	P36	152	6			PSA		500	50
04113	P80	127	5		5	PSA		500	50
04117	P60	127	5		5	PSA		500	50
04121	P40	127	5		5	PSA		500	50
04119	P36	127	5		5	PSA		500	50
08174	P80	127	5		5		Kwik Grip	250	25
04102	P60	127	5		5		Kwik Grip	250	25
08173	P40	127	5		5		Kwik Grip	250	25
04112	P36	127	5		5		Kwik Grip	250	25
04114	P80	152	6		6	PSA		500	50
19918	P60	152	6		6	PSA		500	50
09643	P40	152	6		6	PSA		500	50
19917	P36	152	6		6	PSA		500	50
04126	P80	152	6		6		Kwik Grip	250	25
09670	P60	152	6		6		Kwik Grip	250	25
09669	P40	152	6		6		Kwik Grip	250	25
14484	P36	152	6		6		Kwik Grip	250	25

CONTACT DISCS RED PRODUCTS E088 SERIES

Applications

- Good finish on hard wood, lacquers, and paints.
- Ideal for sanding jobs in woodworking applications and automotive industries.

Benefits

- Aggressive cutting action.
- Anti loading system.
- Long lasting useful life.

Properties

- Mounting features: Kwik Grip® or PSA
- Available size: 5" and 6" in diameter with 5, 6 or 8 vacuum holes.

Red line



TECHNICAL TIP:

Orbital sanding improves finishes and productivity.

Characteristics

Backing	E weight paper
Mineral	Premium aluminium oxide
Grading	FEPA from P400, P320 to P40
Structure	Open coat



Prevent loading



PSA (Pressure sensitive adhesive)

Applications and use recommendations

Optimum Functional



Wood



Non ferrous metals



Manual sanding



Orbital sander



Orbital vacuum sander

NOTE:

Professional version.



**CONTACT
DISCS
E088**

FEPA > P120 to P40

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
03435	P120	127	5	●		PSA		500	50
06132	P100	127	5	●		PSA		500	50
19760	P80	127	5	●		PSA		500	50
03404	P60	127	5	●		PSA		500	50
04128	P50	127	5	●		PSA		500	50
09982	P40	127	5	●		PSA		500	50
06515	P120	127	5	●		Kwik Grip		500	50
06514	P100	127	5	●		Kwik Grip		500	50
03448*	P80	127	5	●		Kwik Grip		500	50
03447*	P60	127	5	●		Kwik Grip		500	50
04132	P50	127	5	●		Kwik Grip		500	50
21787	P40	127	5	●		Kwik Grip		500	50

**CONTACT
DISCS
E088**

FEPA > P120 to P40

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
03450*	P60	127	5		8		Kwik Grip	500	50
04127	P50	127	5		8		Kwik Grip	500	50
20831	P40	127	5		8		Kwik Grip	500	50
03452*	P120	127	5		8		Kwik Grip	500	50
04130	P100	127	5		8		Kwik Grip	500	50
03451*	P80	127	5		8		Kwik Grip	500	50
14555	P120	152	6		6		Kwik Grip	500	50
14554	P100	152	6		6		Kwik Grip	500	50
15630	P80	152	6		6		Kwik Grip	500	50
14521	P60	152	6		6		Kwik Grip	500	50
15629	P40	152	6		6		Kwik Grip	500	50

CONTACT DISCS SILVER PRODUCTS A090 SERIES

Applications

- For dry sanding, manual operations or orbital sanders.
- For sanding between sealers and lacquer coats in the furniture industry. Proper also for sanding aluminium, bronze and other non ferrous metals.
-
- **Ideal for sanding plastics, wood, lacquers, plywood and melamine coatings.**
-

Benefits

- Anti loading system.
- Long lasting useful life.

Properties

- Available sizes: 5" and 6" in diameter with or without vacuum holes.
- Mounting features: Kwik Grip® and PSA.

-
-

Silver line



TECHNICAL TIP:

Experts can polish with finest grits; however for these processes use B080 FANDELI product.

Characteristics

- Backing
- B weight paper
- Mineral
- Sharp silicon carbide
- Grading
- ANSI from 360 to 80, fine to medium grits
- Structure
- Open coat



Prevent loading



Applications and use recommendations

■ Optimum ■ Functional



NOTE:

Silicon carbide provides faster and deeper cut power.

**CONTACT
DISCS
A090**
ANSI > 360 to 80

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
00515	360	127	5	●		PSA		500	50
00514*	320	127	5	●		PSA		500	50
00501	280	127	5	●		PSA		500	50
00476	240	127	5	●		PSA		500	50
00473*	220	127	5	●		PSA		500	50
00462*	180	127	5	●		PSA		500	50
00446*	150	127	5	●		PSA		500	50
00445*	120	127	5	●		PSA		500	50
00374*	100	127	5	●		PSA		500	50
00335*	80	127	5	●		PSA		500	50
00817	360	152	6	●		PSA		500	50
00765*	320	152	6	●		PSA		500	50
00566	280	152	6	●		PSA		500	50
00565	240	152	6	●		PSA		500	50
00564*	220	152	6	●		PSA		500	50
00562*	180	152	6	●		PSA		500	50
00558*	150	152	6	●		PSA		500	50
00546*	120	152	6	●		PSA		500	50
00541*	100	152	6	●		PSA		500	50
00537*	80	152	6	●		PSA		500	50
11895	360	127	5		5	PSA		500	50
05742	320	127	5		5	PSA		500	50
03612	280	127	5		5	PSA		500	50
03611	240	127	5		5	PSA		500	50
11896	220	127	5		5	PSA		500	50
04782	180	127	5		5	PSA		500	50
05741	150	127	5		5	PSA		500	50
05168	120	127	5		5	PSA		500	50
05169	100	127	5		5	PSA		500	50
05170	80	127	5		5	PSA		500	50
13507	360	152	6		6	PSA		500	50
11802	320	152	6		6	PSA		500	50
03619	280	152	6		6	PSA		500	50
16584	240	152	6		6	PSA		500	50
13506	220	152	6		6	PSA		500	50
04783	180	152	6		6	PSA		500	50
03597	150	152	6		6	PSA		500	50
13505	120	152	6		6	PSA		500	50
03596	100	152	6		6	PSA		500	50
03598	80	152	6		6	PSA		500	50


**CONTACT
DISCS**
A090
ANSI > 360 to 80

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
03874	360	127	5	●			Kwik Grip	400	100
03880	320	127	5	●			Kwik Grip	400	100
03885	280	127	5	●			Kwik Grip	400	100
03871	240	127	5	●			Kwik Grip	400	100
03846	220	127	5	●			Kwik Grip	400	100
03875	180	127	5	●			Kwik Grip	400	100
03847	150	127	5	●			Kwik Grip	400	100
22026	120	127	5	●			Kwik Grip	400	100
22025	100	127	5	●			Kwik Grip	400	100
03881	80	127	5	●			Kwik Grip	400	100
22508	360	152	6	●			Kwik Grip	400	100
09472	320	152	6	●			Kwik Grip	400	100
03849	280	152	6	●			Kwik Grip	400	100
08636	240	152	6	●			Kwik Grip	400	100
09471	220	152	6	●			Kwik Grip	400	100
08635	180	152	6	●			Kwik Grip	400	100
09470	150	152	6	●			Kwik Grip	400	100
09469	120	152	6	●			Kwik Grip	400	100
09468	100	152	6	●			Kwik Grip	400	100
09467	80	152	6	●			Kwik Grip	400	100
03862	360	127	5		5		Kwik Grip	400	100
07822	320	127	5		5		Kwik Grip	400	100
03877	280	127	5		5		Kwik Grip	400	100
07821	240	127	5		5		Kwik Grip	400	100
03882	220	127	5		5		Kwik Grip	400	100
06194	180	127	5		5		Kwik Grip	400	100
03878	150	127	5		5		Kwik Grip	400	100
03856	120	127	5		5		Kwik Grip	400	100
03853	100	127	5		5		Kwik Grip	400	100
06195	80	127	5		5		Kwik Grip	400	100
03889	360	152	6		6		Kwik Grip	400	100
03890	320	152	6		6		Kwik Grip	400	100
03855	280	152	6		6		Kwik Grip	400	100
03854	240	152	6		6		Kwik Grip	400	100
03879	220	152	6		6		Kwik Grip	400	100
03891	180	152	6		6		Kwik Grip	400	100
03876	150	152	6		6		Kwik Grip	400	100
03886	120	152	6		6		Kwik Grip	400	100
03863	100	152	6		6		Kwik Grip	400	100
03894	80	152	6		6		Kwik Grip	400	100

CONTACT DISCS

WATERPROOF PRODUCTS B-99 SERIES

Black line



Applications

- Used in dry or wet applications for curved or flat bodywork surfaces to be polished.
- In automotive refinishing for removing dirt nibs and orange peel on color and clear coats.
- Also on, metal parts, fiberglass, plastic and glass.
- Polishing and micro finishes.
- **Ideal for wet polish and microfinishing in automotive refinishing and metalworking industries.**

Benefits

- High cutting power.

Properties

- Available sizes: 6" in diameter
- Mounting features: Kwik Grip®



TECHNICAL TIP:

Water is a common lubricant in automotive repainting. Surfaces must be completely dry before applying primers and color coats.

Characteristics

➤ Backing	➤ B weight waterproof paper
➤ Mineral	➤ Sharp silicon carbide
➤ Grading	➤ JIS from 2000 to 1000, microfine
➤ Structure	➤ Closed coat



Applications and use recommendations

 Optimum



CONTACT DISCS

B-99

JIS > 2000 to 1000

NOTE:

In sanding processes silicon carbide has a faster and sharper cut than aluminium oxide resulting in different finishing pattern.

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
09932	2000	152	6	●			Kwik Grip	400	100
06446	1500	152	6	●			Kwik Grip	400	100
06445	1200	152	6	●			Kwik Grip	400	100
11612	1000	152	6	●			Kwik Grip	400	100

CONTACT DISCS CLOTH PRODUCTS X088 SERIES

Applications

- Wood, non ferrous metals and epoxy coatings sanding.
- Grinding and intermediate finishing operations.
- Removal of scratches from prior applications and defects in metal sheet. Wood or laminate surfaces preparation.
- **Ideal for hard work in industry and in the maintenance shop.**
-

Benefits

- Extends useful life of disc during grinding.
- High resistance and flexibility.
- Open coat avoids loading.
-

Properties

- Available sizes: 5" and 6" in diameter with or without vacuum holes
- Mounting features: Kwik Grip® or PSA
-

Maroon line



TECHNICAL TIP:

For finishing on dry sanding, it is recommended to lay the machine down on the flat surface of the piece before starting operation; then start sander, in that way you will avoid defective finish.

Characteristics

➤ Backing	➤ Standard X weight cotton cloth
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ ANSI from 220 to 36
➤ Structure	➤ Open coat



Applications and use recommendations



Optimum



Functional



Wood



Metal



Non ferrous metals



Manual sanding



Orbital sander



Orbital vacuum sander

NOTE:

Humidity, resinous wood or abrasive fine grading may cause loading in raw wood sanding.



**CONTACT
DISCS
X088**
ANSI > 220 to 36

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
01376*	220	127	5	●		PSA		250	50
01343*	180	127	5	●		PSA		250	50
01368*	150	127	5	●		PSA		250	50
03823*	120	127	5	●		PSA		250	50
01307*	100	127	5	●		PSA		250	50
01303*	80	127	5	●		PSA		250	50
18127*	60	127	5	●		PSA		250	50
18128	50	127	5	●		PSA		250	50
07705	40	127	5	●		PSA		250	50
04179	36	127	5	●		PSA		250	50
08733	220	152	6	●		PSA		250	50
21443	180	152	6	●		PSA		250	50
01927	150	152	6	●		PSA		250	50
01020*	120	152	6	●		PSA		250	50
01919	100	152	6	●		PSA		250	50
01911*	80	152	6	●		PSA		250	50
01017	60	152	6	●		PSA		250	50
18139	50	152	6	●		PSA		250	50
10946	40	152	6	●		PSA		250	50
01904	36	152	6	●		PSA		250	50
00269	220	127	5		5	PSA		250	50
00263	180	127	5		5	PSA		250	50
18134	150	127	5		5	PSA		250	50
00260	120	127	5		5	PSA		250	50
18132	100	127	5		5	PSA		250	50
18131	80	127	5		5	PSA		250	50
18130	60	127	5		5	PSA		250	50
18133	50	127	5		5	PSA		250	50
09566	40	127	5		5	PSA		250	50
04175	36	127	5		5	PSA		250	50
08529	220	152	6		6	PSA		250	50
08528	180	152	6		6	PSA		250	50
10322	150	152	6		6	PSA		250	50
18138	120	152	6		6	PSA		250	50
18137	100	152	6		6	PSA		250	50
18136	80	152	6		6	PSA		250	50
18135	60	152	6		6	PSA		250	50
04171	40	152	6		6	PSA		250	50
04161	36	152	6		6	PSA		250	50


**CONTACT
DISCS
X088**

ANSI > 220 to 36

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
21691	220	127	5	●			Kwik Grip	250	50
21690	180	127	5	●			Kwik Grip	250	50
22461	150	127	5	●			Kwik Grip	250	50
21643	120	127	5	●			Kwik Grip	250	50
04199	100	127	5	●			Kwik Grip	250	50
21642	80	127	5	●			Kwik Grip	250	50
22462	60	127	5	●			Kwik Grip	250	50
02421	50	127	5	●			Kwik Grip	250	50
04194	40	127	5	●			Kwik Grip	250	50
22388	36	127	5	●			Kwik Grip	250	50
06043	220	152	6	●			Kwik Grip	250	50
08739	180	152	6	●			Kwik Grip	250	50
08738	150	152	6	●			Kwik Grip	250	50
08737	120	152	6	●			Kwik Grip	250	50
08736	100	152	6	●			Kwik Grip	250	50
08735	80	152	6	●			Kwik Grip	250	50
08734	60	152	6	●			Kwik Grip	250	50
04217	50	152	6	●			Kwik Grip	250	50
04208	40	152	6	●			Kwik Grip	250	50
04215	36	152	6	●			Kwik Grip	250	50
04198	220	127	5		5		Kwik Grip	250	50
04205	180	127	5		5		Kwik Grip	250	50
04181	120	127	5		5		Kwik Grip	250	50
07836	100	127	5		5		Kwik Grip	250	50
07835	80	127	5		5		Kwik Grip	250	50
07834	60	127	5		5		Kwik Grip	250	50
07833	50	127	5		5		Kwik Grip	250	50
04218	40	127	5		5		Kwik Grip	250	50
04193	36	127	5		5		Kwik Grip	250	50
04219	220	152	6		6		Kwik Grip	250	50
06443	180	152	6		6		Kwik Grip	250	50
06442	150	152	6		6		Kwik Grip	250	50
07841	120	152	6		6		Kwik Grip	250	50
07840	100	152	6		6		Kwik Grip	250	50
07839	80	152	6		6		Kwik Grip	250	50
07838	60	152	6		6		Kwik Grip	250	50
07837	50	152	6		6		Kwik Grip	250	50
04214	40	152	6		6		Kwik Grip	250	50
04202	36	152	6		6		Kwik Grip	250	50

CONTACT DISCS

MAROON PRODUCTS X-88 SERIES

Maroon line

Applications

- Dry sanding operations in automotive industry either OEM and body shops.
- Woodworking applications.
- Ideal in hand sanding of difficult approach areas or to be used with orbital sanders for metals, wood, primers, epoxy coatings and laminated preparations.

Properties

- Available sizes: 5" and 6" in diameter with or without vacuum holes
- Mounting features: Kwik Grip® or PSA



TECHNICAL TIP:

It is important to keep sanding machine totally horizontal over the surface, an angle variation might result in product damage and poor finish.

Characteristics

➤ Backing	➤ X weight cotton cloth
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ ANSI from 150 a 50
➤ Structure	➤ Closed coat



PSA (Pressure sensitive adhesive)

Applications and use recommendations

 Optimum  Functional



NOTE:

Discs can load with a poor collecting system, causing sanding defect.


**CONTACT
DISCS**
X-88
ANSI > 150 to 50

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
01137*	150	127	5	●		PSA		250	50
10515*	100	127	5	●		PSA		250	50
03924*	80	127	5	●		PSA		250	50
00827*	60	127	5	●		PSA		250	50
01103*	50	127	5	●		PSA		250	50
01793	150	152	6	●		PSA		250	50
01211	100	152	6	●		PSA		250	50
00836	80	152	6	●		PSA		250	50
01142	60	152	6	●		PSA		250	50
01777	50	152	6	●		PSA		250	50
04151	150	127	5	●			Kwik Grip	250	50
22244	100	127	5	●			Kwik Grip	250	50
09436	80	127	5	●			Kwik Grip	250	50
08570	60	127	5	●			Kwik Grip	250	50
09435	50	127	5	●			Kwik Grip	250	50
04134	150	152	6	●			Kwik Grip	250	50
04152	100	152	6	●			Kwik Grip	250	50
08952	80	152	6	●			Kwik Grip	250	50
04141	60	152	6	●			Kwik Grip	250	50
04149	50	152	6	●			Kwik Grip	250	50
18125	150	127	5		5	PSA		250	50
17274	100	127	5		5	PSA		250	50
17273	80	127	5		5	PSA		250	50
01009	60	127	5		5	PSA		250	50
18124	50	127	5		5	PSA		250	50
17225	150	152	6		6	PSA		250	50
17223	100	152	6		6	PSA		250	50
17224	80	152	6		6	PSA		250	50
16504	60	152	6		6	PSA		250	50
18126	50	152	6		6	PSA		250	50
04143	150	127	5		5		Kwik Grip	250	50
04160	100	127	5		5		Kwik Grip	250	50
04142	80	127	5		5		Kwik Grip	250	50
04153	60	127	5		5		Kwik Grip	250	50
04157	50	127	5		5		Kwik Grip	250	50
04135	150	152	6		6		Kwik Grip	250	50
09507	100	152	6		6		Kwik Grip	250	50
09506	80	152	6		6		Kwik Grip	250	50
09505	60	152	6		6		Kwik Grip	250	50
04136	50	152	6		6		Kwik Grip	250	50

CONTACT DISCS BLUE PRODUCTS R013 SERIES

Blue line

Applications

- Sanding of paste or bondo in automotive refinishing industry.
- Sanding of metallic surfaces, specially stainless steel.
- Ideal for heavy duty stock removal operations where speed of cut and long life are important.

Benefits

- It allows homogeneous surfaces, fast grinding and long lasting useful life.
- Avoids early loading.
- Resistant and washable product.

Properties

- Available sizes: 6" in diameter
- Mounting features: Kwik Grip®



TECHNICAL TIP:

If sandpaper loads, it can be washed and reused.

Characteristics

➤ Backing	➤ Heavy X weight polycotton
➤ Mineral	➤ Zirconia alumina
➤ Grading	➤ FEPA from P120 to P36
➤ Structure	➤ Open coat



NOTE:

Discs can load with inefficient collecting systems, causing sanding defects and short abrasive life.

Applications and use recommendations

 Optimum  Functional





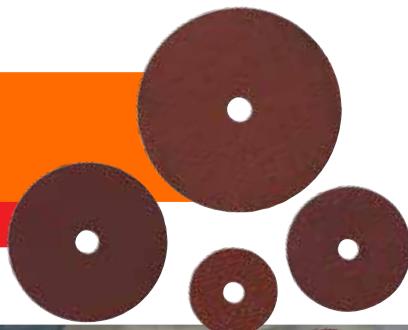
**CONTACT
DISCS
R013**
FEPA > P120 to P36

Code	Grading	mm	Inches	No holes	Vacuum Holes	PSA	Kwik Grip	Box	Pack
18915	P80	127	5	●		PSA		250	50
16690	P100	127	5	●		PSA		250	50
25306	P120	127	5	●		PSA		250	50
18069	P36	127	5	●			Kwik Grip	250	50
24176	P60	127	5	●			Kwik Grip	250	50
18916	P80	127	5	●			Kwik Grip	250	50
13200	P36	152	6	●		PSA		250	50
14704	P120	152	6	●			Kwik Grip	250	50
14048*	P36	152	6	●			Kwik Grip	250	50
15742*	P50	152	6	●			Kwik Grip	250	50
14049*	P80	152	6	●			Kwik Grip	250	50
17104	P40	152	6	●			Kwik Grip	250	50
15743	P100	152	6	●			Kwik Grip	250	50
12756	P36	152	6		6		Kwik Grip	250	50
13443	P40	152	6		6		Kwik Grip	250	50
12794	P50	152	6		6		Kwik Grip	250	50
13702	P60	152	6		6		Kwik Grip	250	50
12083	P80	152	6		6		Kwik Grip	250	50
12084	P120	152	6		6		Kwik Grip	250	50
22763	P80	203	8	●			Kwik Grip	250	50
17156	P50	305	12	●		PSA		250	50



RESIN FIBER DISCS RED PRODUCTS G-88 SERIES

Red line



Applications

- For applications requiring heavy stock removal, cutting down welds, blending an intermediate finishing on metal surfaces.
- For most metal grinding applications where medium to heavy stock removal are required and aggressive cutting action, heat resistance and strength are expected.
- Designed for removing risers on castings.
- Heavy duty cleaning on rough grinding applications ferrous metals, carbon steel, cast iron and steel laminates.

Recommendations

➤ Metalworking industry:

For grinding and heavy removal use 36, 24 or 16 grit, for moderate finishes and rust removal use 60 and 50 grits, in metal sheet finishing and paint coats removal use 120, 100 and 80 grits.

➤ Plastic materials:

In grinding operations, cleaning and deburring materials in manufacturing and repairing all types of fiberglass parts and plastics, use 60, 50 and 36 grits.

➤ Automotive refinishing:

In operations as paint removal and filler paste, use 50, 36 and 24 grits, and for metal sheet cleaning and rust, use 120, 100, and 80 grits.

Benefits

- Practical package with discs central fixing device for easy stock.
- High cutting and grinding power.

Properties

- Available sizes: 4", 4 1/2", 5", 7" and 9 1/8" in diameter.

Characteristics

➤ Backing	➤ Heavy duty 0.030" fiber
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ ANSI from 120 to 50, 36, 24, and 16
➤ Structure	➤ Closed coat

TECHNICAL TIP:

For better performance of resin fiber discs, it is recommended to use a rubber back up pad for aggressive grinding or a phenolic back up pad of light and precise grinding use (see Accessories section on page 156).

Applications and use recommendations

 Optimum  Functional



Metal



Non ferrous metals



Back up pad



Use safety equipment



Angle grinder



Rubber back up pad

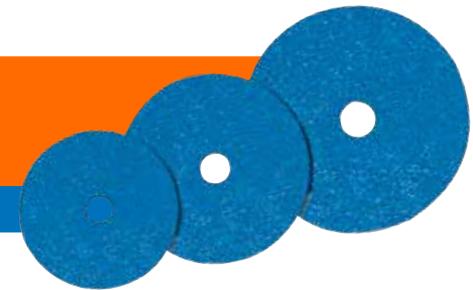

**RESIN FIBER
DISCS**
G-88
ANSI > 120 to 16

Code	Grading	mm	Inches	Speed limit	Box	Pack
00732	120	101 x 16	4 x 5/8	13,000 rpm	100	25
00367	100	101 x 16	4 x 5/8	13,000 rpm	100	25
00731	80	101 x 16	4 x 5/8	13,000 rpm	100	25
00366	60	101 x 16	4 x 5/8	13,000 rpm	100	25
00730	50	101 x 16	4 x 5/8	13,000 rpm	100	25
00729*	36	101 x 16	4 x 5/8	13,000 rpm	100	25
00728	24	101 x 16	4 x 5/8	13,000 rpm	100	25
00727	16	101 x 16	4 x 5/8	13,000 rpm	100	25
00380*	120	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
00379*	100	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
00378*	80	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
00377*	60	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
00376*	50	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
00375*	36	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
04159*	24	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
00373	16	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
00391*	120	127 x 22	5 x 7/8	12,000 rpm	100	25
00390*	100	127 x 22	5 x 7/8	12,000 rpm	100	25
00389*	80	127 x 22	5 x 7/8	12,000 rpm	100	25
00388*	60	127 x 22	5 x 7/8	12,000 rpm	100	25
01003*	50	127 x 22	5 x 7/8	12,000 rpm	100	25
00999*	36	127 x 22	5 x 7/8	12,000 rpm	100	25
00993*	24	127 x 22	5 x 7/8	12,000 rpm	100	25
00387	16	127 x 22	5 x 7/8	12,000 rpm	100	25
00887*	120	178 x 22	7 x 7/8	6,500 rpm	100	25
00886*	100	178 x 22	7 x 7/8	6,500 rpm	100	25
00885*	80	178 x 22	7 x 7/8	6,500 rpm	100	25
00396*	60	178 x 22	7 x 7/8	6,500 rpm	100	25
00883*	50	178 x 22	7 x 7/8	6,500 rpm	100	25
00882*	36	178 x 22	7 x 7/8	6,500 rpm	100	25
00881*	24	178 x 22	7 x 7/8	6,500 rpm	100	25
00880*	16	178 x 22	7 x 7/8	6,500 rpm	100	25
00895*	120	232 x22	9 1/8 x 7/8	4,500 rpm	100	25
00894	100	232 x22	9 1/8 x 7/8	4,500 rpm	100	25
00893*	80	232 x22	9 1/8 x 7/8	4,500 rpm	100	25
14227	60	232 x22	9 1/8 x 7/8 1/8 x 7/8	4,500 rpm	100	25
00891*	50	232 x22	9 1/8 x 7/8	4,500 rpm	100	25
00890*	36	232 x22	9 1/8 x 7/8	4,500 rpm	100	25
00889*	24	232 x22	9 1/8 x 7/8	4,500 rpm	100	25
00405	16	232 x22	9 1/8 x 7/8	4,500 rpm	100	25



RESIN FIBER DISCS BLUE PRODUCTS G-18 SERIES

Blue line



Applications

- Sanding of hardened alloyed and stainless steel.
- Removal of spot welds, preferable under high grinding pressures.
- For heavy and intermediate grinding.
- **Ideal for heavy duty works in industry and in the maintenance shop.**

Benefits

- Excellent in works where high and frequent sanding pressures are required.
- Aggressive action, superior performance and long lasting life.
- High hardness and toughness.
- Coolest cutting grinding performance.
-

Properties

Available sizes: 4 1/2", 5" and 7"

-



G-18 60

TECHNICAL TIP:

When grinding stainless steel it is not advisable to use the same disc over other type of steels, as this affects finish and performance.

Characteristics

➤ Backing	➤ Heavy duty 0.030" fiber
➤ Mineral	➤ Zirconia alumina
➤ Grading	➤ ANSI from 80 to 24
➤ Structure	➤ Closed coat

Applications and use recommendations

 Optimum  Functional



Metal



Non ferrous metals



Back up pad



Use safety equipment



Angle grinder



Rubber back up pad

RESIN FIBER DISCS G-18 ANSI > 80 to 24

Code	Grading	mm	Inches	Speed limit	Box	Pack
11296	80	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
11294	60	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
14220*	50	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
15242	36	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
11293	24	114 x 22	4 1/2 x 7/8	12,500 rpm	100	25
11297	80	127 x 22	5 x 7/8	12,000 rpm	100	25
11025	60	127 x 22	5 x 7/8	12,000 rpm	100	25
11975	50	127 x 22	5 x 7/8	12,000 rpm	100	25
17803	36	127 x 22	5 x 7/8	12,000 rpm	100	25
05762	24	127 x 22	5 x 7/8	12,000 rpm	100	25
00265	80	178 x 22	7 x 7/8	6,500 rpm	100	25
14223	60	178 x 22	7 x 7/8	6,500 rpm	100	25
00876*	50	178 x 22	7 x 7/8	6,500 rpm	100	25
00266*	36	178 x 22	7 x 7/8	6,500 rpm	100	25
00267	24	178 x 22	7 x 7/8	6,500 rpm	100	25



QUICK CHANGE DISCS RED PRODUCTS S-20 SERIES

Applications

- Recommended when grinding pieces requiring high stock removal.
- For use on carbon steel and welds, stainless steel and alloys.
- For concave or convex surfaces.
- It can be used in alloyed and non-alloyed steel and hard metals.
- Professional line with the highest cutting power for heavy duty works.

Benefits

- Easy operation due to its screw on system with exterior thread.
- Long lasting life and great grinding power.

Properties

- Available sizes: 2" and 3" in diameter



Characteristics

- Backing ➤ Polyester sateen cloth
- Mineral ➤ Ceramic abrasive grain
- Grading ➤ ANSI from 120 to 36, 24
- Structure ➤ Closed coat



Screw on

Applications and use recommendations



Optimum



Functional



Screw on system



Power tool

QUICK CHANGE DISCS S-20 ANSI > 120 to 36

	Code	Grading	mm	Inches	Box	Pack
17097	120	51	2	500	100	
17096	80	51	2	500	100	
17095	50	51	2	500	100	
17094	36	51	2	500	100	
17103	120	76	3	500	50	
17102	80	76	3	500	50	
17099	60	76	3	500	50	
16645	36	76	3	500	50	

NOTE:

Used in conjunction with the screw on disc holder (see Accessories section on page 158).



QUICK CHANGE DISCS RED PRODUCTS R-88, and Y-88 SERIES

Applications

- For sanding concave and convex surfaces.
- For universal use on sanding metal contours.
- Great option in molding industry and joint welds in automotive industry.
- Due to their dimensions, ideal for difficult access areas, finishing surfaces and removing imperfections.

Benefits

- The disc incorporates a threaded adapter.

Properties

- Available sizes: 1" to 3" in diameter.

Red line



TECHNICAL TIP:

For better performance and safety follow the recommended rpm: 1" to 1 1/2" in diameter = maximum 25,000 rpm, 2" to 3" in diameter = maximum 20,000 rpm.

Characteristics

➤ Backing	➤ R-88, heavy weight polycotton; Y-88, heavy Y weight polycotton
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ FEPA, R-88 from P400 and P320 to P50; Y-88 from P40, P36, and P24
➤ Structure	➤ Closed coat



Screw on

Applications and use recommendations

 Optimum



Metal



Non ferrous metals



Screw on system



Power tool

NOTE:

They are used with screw on disc holder (see Accessories section in page 158).


**QUICK CHANGE
DISCS**
R-88
**FEPA > P240, P180
and P120 to P50**

Code	Grading	mm	Inches	Box	Pack
04062	P80	25	1	500	100
04066	P60	25	1	500	100
04083	P240	38	1 1/2	500	100
04079	P180	38	1 1/2	500	100
14546	P120	38	1 1/2	500	20
14545	P100	38	1 1/2	500	20
14541	P80	38	1 1/2	500	20
14540	P60	38	1 1/2	500	20
14539	P50	38	1 1/2	500	20
01353	P240	51	2	500	100
11665	P180	51	2	500	100
05884	P120	51	2	500	100
11664*	P100	51	2	500	100
14494	P80	51	2	500	100
11957*	P60	51	2	500	100
14493	P50	51	2	500	100
14504	P240	76	3	500	50
14503	P180	76	3	500	50
14502	P120	76	3	500	50
14501	P100	76	3	500	50
11651*	P80	76	3	500	50
14497*	P60	76	3	500	50
14495	P50	76	3	500	50

**QUICK CHANGE
DISCS**
Y-88
**FEPA > P40, P36
and P24**

Code	Grading	mm	Inches	Box	Pack
04091	P40	25	1	500	100
04094	P36	25	1	500	100
04093	P24	25	1	500	100
04086	P40	38	1 1/2	500	100
14549	P36	38	1 1/2	500	100
14487	P40	51	2	500	100
14486	P36	51	2	500	100
14485	P24	51	2	500	100
14492	P40	76	3	500	50
14491	P36	76	3	500	50
14490	P24	76	3	500	50

QUICK CHANGE DISCS BLUE PRODUCTS S-18 SERIES

Applications

- For grinding or sanding stainless steel as well as for ferrous and non ferrous metals.
- Ideal for fine sanding in areas or surfaces of stainless and hard steels, in industry or in the maintenance shop.

Benefits

- Easy operation due to its twist & lock system with exterior thread.
- Aggressive sanding without burning pieces.

Properties

- Available sizes: 1", 1 1/2", 2" and 3" in diameter

Blue line



TECHNICAL TIP:

For welding removal we recommend 50 to 24 grits. For final finishes or defect correction, it is recommended 240 to 60 grits.

Characteristics

➤ Backing	➤ Polyester sateen cloth
➤ Mineral	➤ Zirconia alumina
➤ Grading	➤ ANSI from 100 to 60 medium grinding, ANSI from 50 to 36 coarse grinding
➤ Structure	➤ Closed coat



Twist & Lock

Applications and use recommendations

 Optimum  Functional



NOTE:

They are used with screw on disc holder (see Accessories section in page 151).

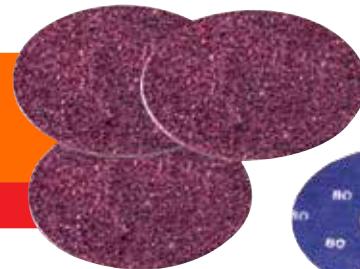

**QUICK CHANGE
DISCS**
S-18
ANSI > 100 to 24

Code	Grading	mm	Inches	Box	Pack
03953	100	25	1	500	100
03955	80	25	1	500	100
03919	60	25	1	500	100
03950	50	25	1	500	100
03951	40	25	1	500	100
03947	36	25	1	500	100
03941	24	25	1	500	100
03937	100	38	1 1/2	500	100
03934	80	38	1 1/2	500	100
03925	60	38	1 1/2	500	100
03954	50	38	1 1/2	500	100
03943	40	38	1 1/2	500	100
03936	36	38	1 1/2	500	100
03921	24	38	1 1/2	500	100
14535	100	51	2	500	10
14534	80	51	2	500	10
14533	60	51	2	500	10
12324	50	51	2	500	100
14530	40	51	2	500	10
14529	36	51	2	500	10
15511	24	51	2	500	100
03948	100	76	3	500	50
12327	80	76	3	500	50
12326	60	76	3	500	50
14538	50	76	3	500	10
03935	40	76	3	500	50
14536	36	76	3	500	10
11489	24	76	3	500	50



QUICK CHANGE DISCS RED PRODUCTS R-88, and Y-88 SERIES

Red line



Applications

- For deburring and grinding steels and weldings.
- For works that need a precise and homogeneous grinding in metalworking and molding industries.
- General purpose version with metallic hub . Use in industry and in the maintenance shop.

Benefits

- Easy operation due to its twist & lock system.
- Great resistance material.

Properties

- Available sizes: 1", 1 1/2", 2" and 3" in diameter.

TECHNICAL TIP:

When working in sharp edges it is important to avoid excessive loads on discs, as to improve its life.

Characteristics

➤ Backing	➤ R-88, heavy weight polycotton; Y-88, heavy Y weight polycotton
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ FEPA, R-88 from P400, P320 to P50; Y-88 from P40, P36, and P24
➤ Structure	➤ Closed coat



Twist & Lock

Applications and use recommendations



Optimum



Functional



Non ferrous metals



Wood



Angle powertool



Twist & Lock system

NOTE:

They are used with Twist & Lock system disc holder (see Accessories section in page 158).


**QUICK CHANGE
DISCS**
R-88
FEPA > P240 to P50

Code	Grading	mm	Inches	Box	Pack
03916	P240	25	1	500	100
14511	P180	25	1	500	100
15438	P120	25	1	500	20
14510	P100	25	1	500	100
05725	P80	25	1	500	20
15474	P60	25	1	500	20
14509	P50	25	1	500	100
03915	P240	38	1 1/2	500	100
03910	P180	38	1 1/2	500	100
14518	P120	38	1 1/2	500	20
14517	P100	38	1 1/2	500	20
14516	P80	38	1 1/2	500	20
14514	P60	38	1 1/2	500	20
14513	P50	38	1 1/2	500	20
14524	P240	51	2	500	10
14523	P180	51	2	500	10
03609	P120	51	2	500	10
14522	P100	51	2	500	10
03607	P80	51	2	500	10
05584	P60	51	2	500	10
12421	P50	51	2	500	10
03906	P240	76	3	500	50
14527	P180	76	3	500	10
03610	P120	76	3	500	10
14526	P100	76	3	500	10
03608	P80	76	3	500	10
01075	P60	76	3	500	10
14525	P50	76	3	500	10

**QUICK CHANGE
DISCS**
Y-88
**FEPA > P40, P36
and P24**

Code	Grading	mm	Inches	Box	Pack
04039	P40	25	1	500	100
14158	P36	25	1	500	20
04042	P24	25	1	500	100
04045	P40	38	1 1/2	500	100
14512	P36	38	1 1/2	500	100
04044	P24	38	1 1/2	500	100
14520	P40	51	2	500	10
05810*	P36	51	2	500	10
15480	P24	51	2	500	100
04038	P40	76	3	500	50
01432	P36	76	3	500	10
14528	P24	76	3	500	50



QUICK CHANGE DISCS MAROON PRODUCTS X-88 SERIES

Maroon line

Applications

- General purpose use in industry.
- Recommended for surface sanding and removing of small defects or spot welds, in processes without special treatments.
- **High performance option for industry and for the maintenance shop.**

Benefits

Easy operation due to its Twist & Lock system with exterior thread.



Properties

Available sizes: 1", 1 1/2", 2" and 3" in diameter.



TECHNICAL TIP:

When working sharp edges it is important to avoid excessive loads on discs, as to improve its life.

Characteristics

- Backing ➤ Standard X weight cotton cloth
- Mineral ➤ Premium aluminium oxide
- Grading ➤ ANSI from 240 to 24
- Structure ➤ Closed coat



Twist & Lock

Applications and use recommendations



Optimum



Functional



Metal



Non ferrous metals



Angle powertool



Twist & Lock system

NOTE:

They are used with Twist & Lock disc holder (see Accessories section in page 158).


**QUICK CHANGE
DISCS**
X-88
ANSI > 240 to 24

Code	Grading	mm	Inches	Box	Pack
03968	240	25	1	500	100
03987	180	25	1	500	100
03970	120	25	1	500	100
03979	100	25	1	500	100
03960	80	25	1	500	100
04029	60	25	1	500	100
03978	50	25	1	500	100
03961	40	25	1	500	100
03977	36	25	1	500	100
03965	24	25	1	500	100
03981	240	38	1 1/2	500	100
03974	180	38	1 1/2	500	100
03983	120	38	1 1/2	500	100
04007	100	38	1 1/2	500	100
03997	80	38	1 1/2	500	100
03990	60	38	1 1/2	500	100
04015	50	38	1 1/2	500	100
03989	40	38	1 1/2	500	100
03975	36	38	1 1/2	500	100
04030	240	51	2	500	100
03994	180	51	2	500	100
04025	120	51	2	500	100
04034	100	51	2	500	100
04033	80	51	2	500	100
04006	60	51	2	500	100
04017	50	51	2	500	100
04035	40	51	2	500	100
04036	36	51	2	500	100
04024	24	51	2	500	100
04027	240	76	3	500	50
03999	180	76	3	500	50
03976	120	76	3	500	50
04014	100	76	3	500	50
03966	80	76	3	500	50
03985	60	76	3	500	50
04019	50	76	3	500	50
04037	40	76	3	500	50
04032	36	76	3	500	50
04000	24	76	3	500	50



QUICK CHANGE DISCS RED PRODUCTS G-88 SERIES

Red line

Applications

- For moderate grinding and general purpose sanding in industry and in the maintenance shop.
- For applications requiring a rigid backing and not high degree on finishes.

Benefits

Good balance on price performance and solutions for grinding.



Properties

Available sizes: 1", 1 1/2", 2" and 3" in diameter



TECHNICAL TIP:

When working sharp edges it is important to avoid excessive loads on discs, as to improve its life.

Characteristics

➤ Backing	➤ Heavy duty 0.030" fiber
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ ANSI from 120 to 36
➤ Structure	➤ Closed coat



Twist & Lock

Applications and use recommendations



Optimum



Functional



Metal



Non ferrous metals



Angle power tool



Twist & Lock system

NOTE:

They are used with Twist & Lock disc holder (see Accessories section in page 155).


**QUICK CHANGE
DISCS**
G-88
**ANSI > 120 to 36,
except 100,
50 and 40**

Gira-facil

Code	Grading	mm	Inches	Box	Pack
02948	120	25	1	100	20
02947	80	25	1	100	20
02946	60	25	1	100	20
02945	36	25	1	100	20
03901	120	38	1 1/2	500	100
03899	80	38	1 1/2	500	100
03900	60	38	1 1/2	500	100
03896	36	38	1 1/2	500	100
03039	120	51	2	100	10
02951*	80	51	2	100	10
02950	60	51	2	100	10
02949*	36	51	2	100	10
14246	120	76	3	100	10
14245	80	76	3	100	10
14811	60	76	3	100	10
14244	36	76	3	100	10

FANDELI®



Coated Abrasives



› ROLLS



GENERAL CATALOG



PLUMBER ROLLS <

COMMERCIAL ROLLS <

ADHESIVE ROLLS <

TANNERY ROLLS <



OTHER AVAILABLE ROLLS <

PLUMBER ROLLS RED PRODUCTS J-86 SERIES

Applications

- Preparation and cleaning of interior and exterior surfaces for copper pipes, couplers, elbows, etc., to apply solder in plumbing welds.
- Cleaning and roughing of interior and exterior PVC materials and plastics in pipes, couplers, elbows, etc., prior to the application of adhesives in plumbing Jobs.
- In the metalworking industry, cleaning and rust removal of forged iron or artistic metal pieces.
- Specially designed for sanding curves.

Benefits

- Packing with standard presentation dispenser designed to supply in different lengths.

Properties

- Available sizes: standard roll, 1", 1 1/2", 2" by 50 yards;
- Short rolls: 1 1/2" and 2" by 5.5 yards.

Red line



TECHNICAL TIP:

Designed for fast easy and effective hand sanding, of metal surfaces.

Characteristics

➤ Backing	➤ Medium flexible J weight cotton cloth
➤ Mineral	➤ Aluminium oxide
➤ Grading	➤ ANSI 120, 100
➤ Structure	➤ Closed coat

Applications and use recommendations

Optimum



Hand sanding

**PLUMBER
ROLLS
J-86**
ANSI >120 and 100

Code	Grading	mm x m	in x yds.	Box	Pack
01917*	120	25 x 45.72	1 x 50	10	1
01889*	100	25 x 45.72	1 x 50	10	1
01920*	120	38 x 45.72	1 1/2 x 50	10	1
01891*	100	38 x 45.72	1 1/2 x 50	10	1
01921*	120	51 x 45.72	2 x 50	10	1
01892	100	51 x 45.72	2 x 50	10	1
15282	120	25 x 5	1 x 5.5	10	1
15281	100	25 x 5	1 x 5.5	10	1
15284*	120	38 x 5	1 1/2 x 5.5	10	1
15283	100	38 x 5	1 1/2 x 5.5	10	1



PLUMBERS ROLLS RED PRODUCTS J-74 SERIES

Red line

Applications

- Preparation and cleaning of curved surfaces of plastic materials, ferrous and non ferrous metals (bronze, brass, aluminium, etc.).
- Cleaning and roughing of interior and exterior PVC and copper pipes, couplers, elbows, etc., prior to the application of adhesives in plumbing jobs.

Benefits

- Packing with standard presentation dispenser designed to supply in different lengths.

Properties

- Available sizes: standard roll, 1", 1 1/2", 2" by 50 yards



TECHNICAL TIP:

All purpose dry sanding of metal surfaces, offers flexibility and cutting action.

Characteristics

➤ Backing	➤ Light J weight cotton cloth
➤ Mineral	➤ Aluminium oxide
➤ Grading	➤ ANSI 120
➤ Structure	➤ Closed coat

Applications and use recommendations



 Optimum



Hand
sanding

**PLUMBER
ROLLS**
J-74
ANSI > 120

Code	Grading	mm x m	in x yds.	Box	Pack
29985*	120	38 x 45.72	1 1/2 x 50	10	1

COMMERCIAL ROLLS RED PRODUCTS X-86 SERIES

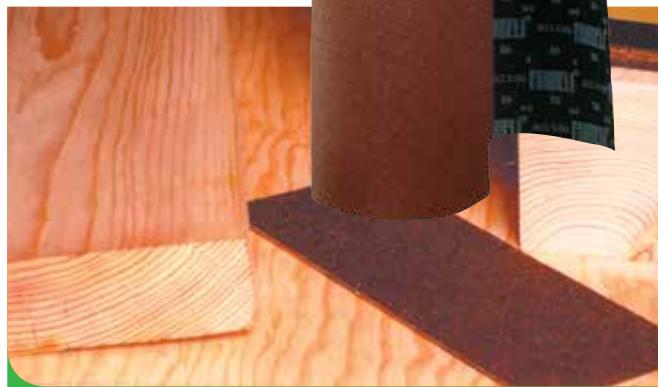
Applications

- Excellent for dry, rough sanding on metal surfaces and wood where stock removal, and finishing is of prime importance. Typical applications of heavy burrs or grinding metal irregularities.
- Also for applications on wood, metal, plastics and non ferrous metals.

Benefits

- High yield and long life abrasive.
- Closed coat increases grinding power.
- Rolls to be dispensed by length.

Red line



TECHNICAL TIP:

For dry sanding metals, on applications where high quality finishes are an issue

Characteristics

➤ Backing	➤ Standard X weight cotton cloth
➤ Mineral	➤ Aluminium oxide
➤ Grading	➤ ANSI 320, from 240 to 36
➤ Structure	➤ Closed coat

Applications and use recommendations

Optimum



Hand
sanding



1/4, 1/3, or 1/2 sheets for orbital sanders

COMMERCIAL ROLLS X-86 ANSI > 320 to 36

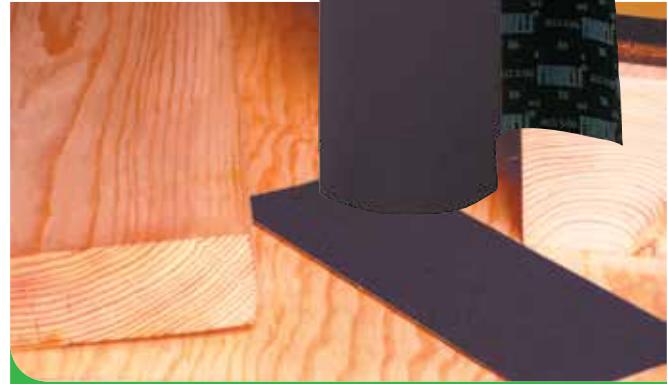
NOTE:

Use Roll display for better handling and easy dispensing (see POP material in page 162).

Code	Grading	mm x m	In x yds.	Box	Pack
02275*	36	610 x 45.72	24 x 50	1	1
02297*	40	610 x 45.72	24 x 50	1	1
02317*	50	610 x 45.72	24 x 50	1	1
02354*	60	610 x 45.72	24 x 50	1	1
02390*	80	610 x 45.72	24 x 50	1	1
02413*	100	610 x 45.72	24 x 50	1	1
02434*	120	610 x 45.72	24 x 50	1	1
02449*	150	610 x 45.72	24 x 50	1	1
01216	180	610 x 45.72	24 x 50	1	1
02349	220	610 x 45.72	24 x 50	1	1
00156	240	610 x 45.72	24 x 50	1	1
02352	320	610 x 45.72	24 x 50	1	1

COMMERCIAL ROLLS MAROON PRODUCTS X-88 SERIES

Maroon line



Applications

- It is used in hard sanding and finishing jobs in wood, non ferrous metals, repainting, cleaning, etc.

Benefits

- X-88 roll has an excellent performance due to its closed coat structure and premium aluminium oxide abrasive.
- Due to its resistance and high cut power it is ideal for hard difficult jobs.

Sizes

12" x 50 yds; 24" x 50 yds, which allows custom sizes requirements.



TECHNICAL TIP:

In the case of woodworking it is important that the sanding direction matches the wood grain to obtain better finishes.

Characteristics

Back	X weight cotton cloth
Mineral	Premium aluminium oxide
Grading	ANSI from 120 to 24
Structure	Closed coat

Applications and use recommendations



Optimum



1/4, 1/3, or 1/2 sheets for orbital sanders

COMMERCIAL ROLLS X-88 ANSI > 120 to 24

NOTE:

For better and easy serve and selling it has its roll display (see POP material section on page 162).

Code	Grading	mm x m	in x yds.	Box	Pack
00615	024	610 x 45.72	24 x 50	1	1
00616	036	610 x 45.72	24 x 50	1	1
00617	040	610 x 45.72	24 x 50	1	1
00618	050	610 x 45.72	24 x 50	1	1
00619	060	610 x 45.72	24 x 50	1	1
00914	080	610 x 45.72	24 x 50	1	1
00912	100	610 x 45.72	24 x 50	1	1
00909	120	610 x 45.72	24 x 50	1	1
02517	024	610 x 45.72	24 x 50	1	1
02565	036	610 x 45.72	24 x 50	1	1
02373	040	610 x 45.72	24 x 50	1	1
02898	050	610 x 45.72	24 x 50	1	1
02588	060	610 x 45.72	24 x 50	1	1
02620	080	610 x 45.72	24 x 50	1	1
02641	100	610 x 45.72	24 x 50	1	1
00456	120	610 x 45.72	24 x 50	1	1



PSA SANDING ROLLS SILVER PRODUCTS A090 SERIES

Applications

- For sanding, and finishing surfaces using rectangular base sanders.
- Good option in sanding polyester, lacquers, fiberglass and plastic.

- Ideal in woods treated with coatings.

Benefits

- Anti loading agent.
- Manufactured with stearated lubricant preventing loading and increasing useful life.

Properties

- Mounting system: PSA (Pressure Sensitive Adhesive)
- Available size: 4 1/2" x 10 yards rolls

Silver line



TECHNICAL TIP:

Experts can polish with coarser grits; for their requirements, however ask for the optimum FANDELI product.

Characteristics

- Backing
- Mineral
- Grading
- Structure
- B weight paper
- Silicon carbide
- ANSI from 360 to 80
- Open coat



Prevent
loading



PSA (Pressure
sensitive adhesive)



Dry
Sanding

Applications and use recommendations



Optimum



Functional



Plastic



Lacquers
and paints



Non ferrous
metals



Hand
sanding



1/4, 1/3, or 1/2 sheets for orbital sanders



ADHESIVE ROLLS A090 ANSI > 360 to 80

NOTE:

Silicon carbide allows a high surface and excellent performance.

Code	Grading	mm x m	In x yds.	Box	Pack
05043	360	114 x 9,140	4 1/2 x 10	10	1
05042	320	114 x 9,140	4 1/2 x 10	10	1
05041	280	114 x 9,140	4 1/2 x 10	10	1
05039	240	114 x 9,140	4 1/2 x 10	10	1
02486	220	114 x 9,140	4 1/2 x 10	10	1
02484	180	114 x 9,140	4 1/2 x 10	10	1
01074	150	114 x 9,140	4 1/2 x 10	10	1
03833	120	114 x 9,140	4 1/2 x 10	10	1
03832	100	114 x 9,140	4 1/2 x 10	10	1
03831	80	114 x 9,140	4 1/2 x 10	10	1



PSA SANDING ROLLS GOLD PRODUCTS A080 SERIES

Gold line



Applications

- For sanding and finishing flat surfaces with vibrating machines.
- General purpose use on wood, plastics, sealers, coatings and paints.
- Extensive FEPA grading for better results.
- Ideal for working on raw wood and furniture industry.

Benefits

- Anti loading agent.
- Manufactured with stearated lubricant that prevents loading and increases useful life.

Properties

- Mounting system: PSA (Pressure Sensitive Adhesive).
- Available sizes: 4 1/2 " x 10 yards rolls.

TECHNICAL TIP:

It can be used for very fine polish, but for micro finishing use the next finer grit.

Characteristics

- Backing ➤ B weight lubricated paper with PSA
- Mineral ➤ Premium aluminium oxide
- Grading ➤ FEPA P800, P600, P400, P320 to P80
- Structure ➤ Open coat



Prevent
loading



PSA (Pressure
sensitive adhesive)



Dry
Sanding

Applications and use recommendations



Wood



Plastic



Lacquers and
paints



Hand
sanding



1/4, 1/3, or 1/2 sheets for orbital sanders

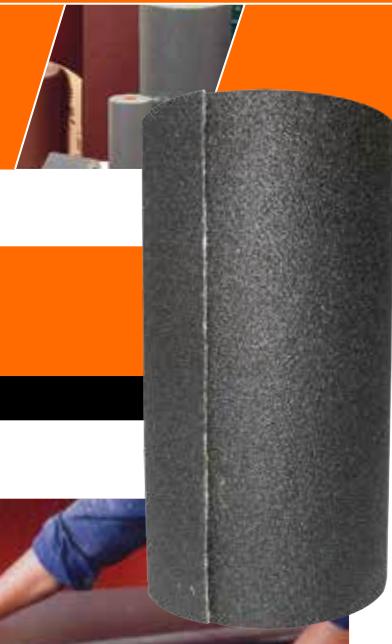
ADHESIVE ROLLS A080

FEPA > P800 to P80

NOTE:

Grits P800, P280, and P240
available on request.

Code	Grading	mm x m	in x yds.	Box	Pack
05033	P800	114 x 9,140	4 1/2 x 10	10	1
05032	P600	114 x 9,140	4 1/2 x 10	10	1
17199	P400	114 x 9,140	4 1/2 x 10	10	1
17198	P320	114 x 9,140	4 1/2 x 10	10	1
17197	P280	114 x 9,140	4 1/2 x 10	10	1
17196	P240	114 x 9,140	4 1/2 x 10	10	1
05031	P220	114 x 9,140	4 1/2 x 10	10	1
08341	P180	114 x 9,140	4 1/2 x 10	10	1
17193	P150	114 x 9,140	4 1/2 x 10	10	1
17192	P120	114 x 9,140	4 1/2 x 10	10	1
05044	P100	114 x 9,140	4 1/2 x 10	10	1
17190	P80	114 x 9,140	4 1/2 x 10	10	1



TANNERY ROLLS

BLACK PRODUCTS E-93, and E-96 SERIES

Applications

- Use low to medium pressures in tannery and leather industries.
- Intermediate grinding operations for drum sanders.
- Light pressure sanding.
- Used in wooden floors, raw wood, hides, sealers, varnishes, woodworking Industry, polyester coatings, and non ferrous metals.

Benefits

- Free cutting action.
- Cooler grinding.

Properties

- Other available sizes: 6" up to 54".

Black line



TECHNICAL TIP:

For hides use 180 to 120 grits; for leather final finishes use grits up to 400.

Characteristics

➤ Backing	➤ E weight cylinder paper
➤ Mineral	➤ Silicon carbide
➤ Grading	➤ ANSI: E-93 from 400 to 320, 240 E-96 from 220 to 120
➤ Structure	➤ Closed coat

Applications and use recommendations

Optimum



Plastic



Tannery and leather



Wood



Lacquers and paints

TANNERY ROLLS

E-93

ANSI > 400 to 320 and 240

	Code	Grading	mm x m	In x yds.	Box	Pack
	05098	240	610 x 45.720	24 x 50	1	1
	04774	320	610 x 45.720	24 x 50	1	1
	03067	360	610 x 45.720	24 x 50	1	1
	05248	400	610 x 45.720	24 x 50	1	1

E-96

ANSI > 220 to 120

	02272	120	610 x 45.720	24 x 50	1	1
	11921	150	610 x 45.720	24 x 50	1	1
	12543	180	610 x 45.720	24 x 50	1	1
	12544	220	610 x 45.720	24 x 50	1	1

NOTE:

Silicon carbide allows a high quality surface and excellent performance.



TANNERY ROLLS RED PRODUCTS E088 SERIES

Red line

Applications

- Intermediate and finishing operations for drum sanders.
- Low to medium pressures in the tannery industry.
- Functional for processes in raw wood, and synthetic coatings as sealers, varnishes or polyester coatings.

Benefits

- Open coat structure prevents premature loading providing longer life.
- FEPA grading produces better finishes.

Properties

- Other available sizes: 6" up to 54".



TECHNICAL TIP:

When winding the abrasive roll on the drum sander, the wider the abrasive roll is; reduces the joints improving the finish and productivity.

Characteristics

➤ Backing	➤ E weight cylinder paper
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ FEPA P400, P320 to P40
➤ Structure	➤ Open coat

Applications and use recommendations



**TANNERY
ROLLS
E088**
FEPA > P400, P320
to P280 and P120

Code	Grading	mm x m	in x yds.	Box	Pack
23259	P120	610 x 45.720	24 x 50	1	1
02606	P220	610 x 45.720	24 x 50	1	1
02607	P240	610 x 45.720	24 x 50	1	1
02608	P280	610 x 45.720	24 x 50	1	1
16028	P320	610 x 45.720	24 x 50	1	1
02610	P400	610 x 45.720	24 x 50	1	1

TANNERY ROLLS BROWN PRODUCTS E-83 SERIES

Applications

- Intermediate and finishing grinding on drum sanders for raw wood.
- Used in tanneries, hides, leather, sealers, varnishes or polyester coatings, and non ferrous metals.

Benefits

- Closed coat gives extended cutting power.

Properties

- Other available widths: 6" up to 54".

Brown line



TECHNICAL TIP:

When winding the abrasive roll on the drum sander, the wider the abrasive roll is, reduces the joints improving the finish and productivity.

Characteristics

- Backing
- Mineral
- Grading
- Structure
- E weight cylinder paper
- Aluminium oxide
- ANSI 400, 320 to 50
- Closed coat

Applications and use recommendations



**TANNERY
ROLLS
E-83**
ANSI > 400, 320 to 100

Code	Grading	mm x m	In x yds.	Box	Pack
01679	100	610 x 45.720	24 x 50	1	1
01690	120	610 x 45.720	24 x 50	1	1
01704	150	610 x 45.720	24 x 50	1	1
01715	180	610 x 45.720	24 x 50	1	1
01721	220	610 x 45.720	24 x 50	1	1
01730	240	610 x 45.720	24 x 50	1	1
01747	280	610 x 45.720	24 x 50	1	1
01753	320	610 x 45.720	24 x 50	1	1
01762	400	610 x 45.720	24 x 50	1	1

NOTE:

Cost benefit balance cause an economic option.



OTHER AVAILABLE ROLLS ROLLS W-98 SERIES



Advantages and applications

- Waterproof cloth with PSA adhesive for traffic aisles and stairs for slippery floors.

W-98 ANSI 60

Code	Grading	mm x m	In x Yds.	Pack
18019	60	19 x 20	3/4 x 20,000	20
15258*	60	25 x 20	1 x 20,000	10
06756	60	38 x 20	1 1/2 x 20,000	10
19503*	60	51 x 20	2 x 20,000	10
15746	60	101 x 20	4 x 20,000	5

NOTE:

Available in segmented stripes, see Specialties section on page 115



OTHER AVAILABLE SIZES

Made to order

CLOTH ROLLS

Width mm	Length m	Width In.	Length yds.
13	45.72	1/2	50
19	45.72	3/4	50
25	45.72	1	50
32	45.72	1 1/4	50
38	45.72	1 1/2	50
44	45.72	1 3/4	50
51	45.72	2	50
64	45.72	2 1/2	50
76	45.72	3	50
89	45.72	3 1/2	50
101	45.72	4	50
127	45.72	5	50
152	45.72	6	50
178	45.72	7	50
203	45.72	8	50
229	45.72	9	50
254	45.72	10	50
305	45.72	12	50
381	45.72	15	50
457	45.72	18	50
610	45.72	24	50
914	45.72	36	50
1067	45.72	42	50
1220	45.72	48	50
1372	45.72	54	50

OTHER AVAILABLE SIZES

Made to order

PAPER ROLLS

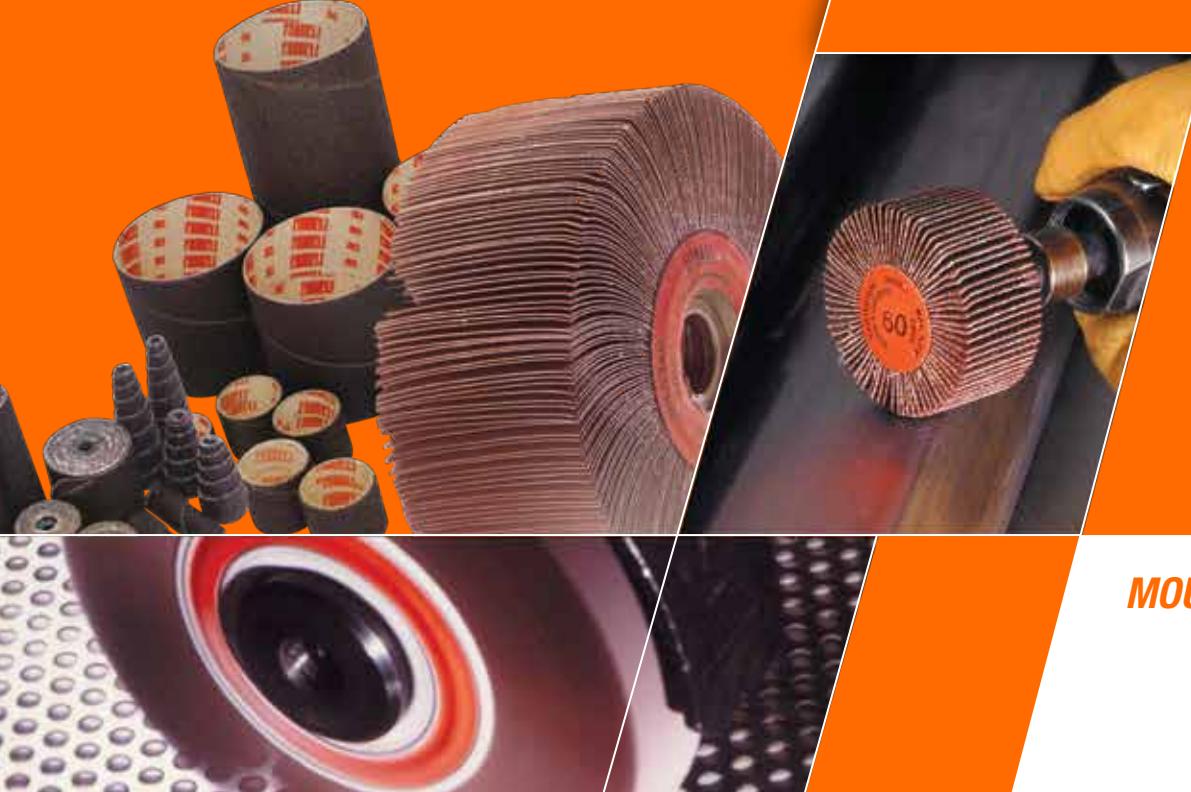
Width mm	Length m	Width In.	Length yds.
25	45.72	1	50
35	45.72	1 1/4	50
38	45.72	1 1/2	50
44	45.72	1 3/4	50
51	45.72	2	50
64	45.72	2 1/2	50
76	45.72	3	50
89	45.72	3 1/2	50
101	45.72	4	50
127	45.72	5	50
152	45.72	6	50
178	45.72	7	50
203	45.72	8	50
229	45.72	9	50
254	45.72	10	50
305	45.72	12	50
381	45.72	15	50
457	45.72	18	50
610	45.72	24	50
914	45.72	36	50
1067	45.72	42	50
1220	45.72	48	50
1372	45.72	54	50

FANDELI®



Coated Abrasives

› **SPECIALTIES**



GENERAL CATALOG

MOUNTED FLAP WHEELS <
FLAP WHEELS <
ABRASIVE STARS <
SPIRAL BANDS <
CARTRIDGE ROLLS <
ABRASIVE SPONGES <
ANTI SLIP STRIPS <
BODY FILES <
ABRASIVE SPONGE ROLLS <



MOUNTED FLAP WHEELS RED PRODUCTS R-88 SERIES

Applications

- For intermediate grinding to fine finishes in difficult access areas, small openings and surfaces.
- For specific sanding points.
- Ideal to work specific points in molding and turbine industries.

Benefits

- High performance and long lasting useful life.
- Available sizes: 1", 2", 2-1/2", and 3" in diameter; 1/4" spindle, different widths from 1/2" to 1"

Red line



TECHNICAL TIP:

For better performance and safety, observe top rpm: from 1" to 1-1/2": 30,000 rpm; for 2": 25,000 rpm; for 2-1/2": 20,000 rpm; and for 3": 20,000 rpm.

Characteristics

➤ Backing	➤ Heavy weight polycotton
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ FEPA P400, P320 to P50
➤ Structure	➤ Closed coat

NOTE:

The use of this product under heavy loadings on sharp edges may cause, excessive wearing and abrasive shedding, reducing its useful life.

Applications and use recommendations

Optimum Functional



MOUNTED FLAP WHEELS R-88 FEPA > > P400 and P320 to P50

Dimensions				Codes and available gradings									
Inches	mm	P050	P060	P080	P100	P120	P150	P180	P220	P240	P280	P320	P400
1 x 1 x 1/4	25 x 25 x 6.4	16431	16420	16412	16434	03632	16433	03678	03691	03733	03747	03797	
2 x 1/2 x 1/4	51 x 13 x 6.4	03571	16525	16522	03605	16499	03631	03647	03679	03695	03731	03756	03803
2 x 3/4 x 1/4	51 x 19 x 6.4	03562	16568	16556	03589	16550	03639	03643	02776		03715	03739	02780
2 x 1 x 1/4	51 x 25 x 6.4	16615	16616	16598	16599	16600	16586	16601	16571	16572	04229	16620	16585
2 x 1 1/2 x 1/4	51 x 38 x 6.4	04266	16634	16675	03600	16677	03640	03646	04276	04278	03718	04282	03806
2 1/2 x 3/4 x 1/4	64 x 19 x 6.4	03569	03577	03580	02773	03624	02774	02775	03669	03710	02778	02779	03800
2 1/2 x 1 x 1/4	64 x 25 x 6.4	10928	16753	16750	02795	16754	08805	11617	02796	02798	21184	04230	21185
2 1/2 x 1 1/2 x 1/4	64 x 38 x 6.4	03567	03578	03579	04269	03626	03629	04274	03677	03684	03720	03750	04287
3 x 1 x 1/4	76 x 25 x 6.4	16808	16813	10866	16819	16814	03634	03650	02797		02799	04231	16841



MOUNTED FLAP WHEELS RED PRODUCTS X-88 SERIES

Red line



Applications

For small surfaces and difficult access areas fine finishes and cleaning, for industry and in shop.

Ideal for easy fine finishing and polishing.

Benefits

Great flexibility that reduces vibration and wear out, deliver smooth, chatter-free grinding.

Available sizes: 1", 2", 2-1/2", and 3" in diameter; 1/4" spindle, different widths from 1/2" to 1"



TECHNICAL TIP:

For better performance and safety, observe top rpm: from 1" to 1-1/2": 25,000 rpm; for 2": 20,000 rpm; for 2", 2 1/2" and 3": 20,000 rpm; and for 3": 20,000 rpm.

Characteristics

Back ing	Standard X weight cotton cloth
Mineral	Premium aluminium oxide
Grading	ANSI 320, 240 to 36, 24
Structure	Closed coat

NOTE:

The use of this product under heavy loadings on sharp edges may cause, excessive wearing and abrasive shedding, reducing its useful life.

Applications and use recommendations

 Optimum  Functional



MOUNTED FLAP WHEELS X-88 ANSI > 320 to 36

Dimensions	Inches	mm	Codes and available gradings											
			36	40	50	60	80	100	120	150	180	220	240	320
1 x 1 x 1/4	25 x 25 x 6	16403	16404	16395	16394*	16435	16397	16405	16396	03386	16409	16437		
2 x 1/2 x 1/4	51 x 13 x 6	03248	16501	03288	16489	16490	03298	16491	03313	16506	03392	16508	03519	
2 x 3/4 x 1/4	51 x 19 x 6	02781	03260	03289	16558	16548	06989	16526	03316	02788	03395	03426	03531	
2 x 1 x 1/4	51 x 25 x 6	04235	16628	16587	16588*	16614*	16589	16590*	16596	16627	16597	16612	16618	
2 x 1 1/2 x 1/4	51 x 38 x 6	03252	03259	16678	16667	16633	16679	16629	04293	04295	03377	16674	22579	
2 1/2 x 3/4 x 1/4	64 x 19 x 6	03250	16693	02785	16718	16686	03297	16684	02786	03367	02789	02790	02793	
2 1/2 x 1 x 1/4	64 x 25 x 6	04239	16736	05395	16727	16725	14429	16743	07437	16755	04253	16741	17139	
2 1/2 x 1 1/2 x 1/4	64 x 38 x 6	04290	04291	03275	16794		03306	16765	03333	03338	04296	03408	03516	
3 x 1 x 1/4	76 x 25 x 6	04240	16818	04249	16809	16807*	16811	16812*	16832	16842	16833	04259	07253	



FLAP WHEELS RED PRODUCTS R-88 SERIES

Applications

- For deburring and cleaning on flat or irregular surfaces in the industry.
- Recommended for heavy and intermediate grinding, finishing and polishing.
- Sharp, extra durable aluminium oxide abrasive grain, provides high performance results.

Benefits

- Grit versatility covers from grinding to pre-polish processes.
- High resistance and strength.
- High performing abrasive tool.
- Available sizes: 6" x 1" x 1"; 6" x 1 1/2" x 1"; 6" x 2" x 1"; 6" x 3" x 1"; 7" x 1" x 1"; 7" x 1-1/2" x 1"; 7" x 2" x 1" & 7" x 3" x 1"

Red line



TECHNICAL TIP:

For better performance and safety, observe top rpm: for 7": 4,500 to 6,000 rpm; and for 6": 5,800 rpm.

Characteristics

➤ Backing	➤ Heavy weight polycotton
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ FEPA P400, P320 to P50
➤ Structure	➤ Closed coat

Applications and use recommendations



Powertool
for LP
wheels



Non mounted
discs mandrel



Bench Grinder

FLAP WHEELS R-88 FEPA > P400 and P320 to P50

NOTE:
For other available programs
ask your sales representative.

Code	Grading	mm	Inches	Flange	Box	Pack
03811	P400	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
05925	P320	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
03722	P280	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
16206	P240	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
03681	P220	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
01051	P180	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
04301	P150	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
01470	P120	152 x 25 x 25	6 x 1 x 1	25 mm / 1	10	2
01050	P100	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
01469	P80	152 x 25 x 25	6 x 1 x 1	25 mm / 1	10	2
01468	P60	152 x 25 x 25	6 x 1 x 1	25 mm / 1	10	2
05643	P50	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
03811	P400	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
05925	P320	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
03722	P280	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
16206	P240	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1



FLAP WHEELS

R-88
FEPA > P400 and
P320 to P50

Code	Grading	mm	Inches	Flange	Box	Pack
03681	P220	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
01051	P180	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
04301	P150	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
01470	P120	152 x 25 x 25	6 x 1 x 1	25 mm / 1	10	2
01050	P100	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
01469	P80	152 x 25 x 25	6 x 1 x 1	25 mm / 1	10	2
01468	P60	152 x 25 x 25	6 x 1 x 1	25 mm / 1	10	2
05643	P50	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
03808	P400	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
03742	P320	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
03713	P280	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
03707	P240	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
12043	P220	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
02160	P180	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
11000	P150	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
02156	P120	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	10	2
03614	P100	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
02705	P80	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	10	2
01472	P60	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	10	2
05650	P50	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
08022	P400	152 x 51 x 25	6 x 2 x 1	25 mm / 1	5	1
04312	P320	152 x 51 x 25	6 x 2 x 1	25 mm / 1	5	1
03719	P280	152 x 51 x 25	6 x 2 x 1	25 mm / 1	5	1
14552	P240	152 x 51 x 25	6 x 2 x 1	25 mm / 1	5	1
04309	P220	152 x 51 x 25	6 x 2 x 1	25 mm / 1	5	1
03824	P180	152 x 51 x 25	6 x 2 x 1	25 mm / 1	5	1
04308	P150	152 x 51 x 25	6 x 2 x 1	25 mm / 1	5	1
10989	P120	152 x 51 x 25	6 x 2 x 1	25 mm / 1	10	2
02154	P100	152 x 51 x 25	6 x 2 x 1	25 mm / 1	5	1
01475	P80	152 x 51 x 25	6 x 2 x 1	25 mm / 1	10	2
01474	P60	152 x 51 x 25	6 x 2 x 1	25 mm / 1	10	2
14551	P50	152 x 51 x 25	6 x 2 x 1	25 mm / 1	5	1
03805	P400	152 x 76 x 25	6 x 3 x 1	25 mm / 1	5	1
04323	P320	152 x 76 x 25	6 x 3 x 1	25 mm / 1	10	2
04322	P280	152 x 76 x 25	6 x 3 x 1	25 mm / 1	5	1
04321	P240	152 x 76 x 25	6 x 3 x 1	25 mm / 1	10	2
04320	P220	152 x 76 x 25	6 x 3 x 1	25 mm / 1	5	1
02162	P180	152 x 76 x 25	6 x 3 x 1	25 mm / 1	5	1
03633	P150	152 x 76 x 25	6 x 3 x 1	25 mm / 1	5	1
10990	P120	152 x 76 x 25	6 x 3 x 1	25 mm / 1	5	1
04316	P100	152 x 76 x 25	6 x 3 x 1	25 mm / 1	5	1
10962	P80	152 x 76 x 25	6 x 3 x 1	25 mm / 1	5	1
14553	P60	152 x 76 x 25	6 x 3 x 1	25 mm / 1	5	1
10934	P50	152 x 76 x 25	6 x 3 x 1	25 mm / 1	5	1
04302	P400	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03754	P320	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03735	P280	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03688	P240	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03666	P220	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03665	P180	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03641	P150	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03620	P120	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03594	P100	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03585	P80	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03576	P60	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03553	P50	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1



FLAP WHEELS RED PRODUCTS X-88 SERIES

Red line



Applications

- For finishing and cleaning of large surfaces.
- For general high performance finishing operations in industry and in the shop.
- For heavy and intermediate grinding works, and finishing.
- **Ideal in operations that need adjustment to working piece profiles.**

Benefits

- High flexibility.

Properties

- Available sizes: 6" x 1" x 1; 6" x 1 1/2" x 1"; 6" x 2" x 1"; 6" x 3" x 1"; 7" x 1" x 1"; 7" x 1-1/2" x 1"; 7" x 2" x 1"; 7" x 3" x 1".

TECHNICAL TIP:

To avoid damages and increase the life of the wheel, do not use excessive loads, and do not damage the wheel while working on sharp edges.

Characteristics

➤ Backing	➤ Standard X weight cotton cloth
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ ANSI 320, 240 to 36
➤ Structure	➤ Closed coat

Applications and use recommendations

 Optimum

 Functional



Non ferrous metals



Plastic



Lacquers and paints



Powertool
for LP
wheels



Non mounted
discs mandrel



Bench Grinder

FLAP WHEELS X-88 ANSI > 320 to 36

NOTE:
For other available programs
ask your sales representative.

Code	Grading	mm	Inches	Flange	Box	Pack
05024	320	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
03468	280	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
01359	240	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
00873	220	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
02063	180	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
01388	150	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
09065*	120	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
01358	100	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
09050*	80	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
09157*	60	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
09156	50	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
10789	40	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
04560	36	152 x 25 x 25	6 x 1 x 1	25 mm / 1	5	1
08759	320	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
03443	280	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
04103	240	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1



FLAP WHEELS
X-88
ANSI > 320 to 36

Code	Grading	mm	Inches	Flange	Box	Pack
09154	220	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
02064	180	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
09073	150	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
02061	120	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
00299	100	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
09052*	80	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
09045*	60	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
09038	50	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
02058	40	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
04318	36	152 x 38 x 25	6 x 1 1/2 x 1	25 mm / 1	5	1
13587	320	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
03482	280	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
04150	240	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
02068*	220	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
02066*	180	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
02062	150	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
09068*	120	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
09158	100	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
09054*	80	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
09046*	60	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
09039*	50	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
02059	40	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
11474*	36	152 x 38 x 25	6 x 2 x 1	25 mm / 1	5	1
03526	320	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
04329	280	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
11420	240	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
04933	220	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
02067	180	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
05394	150	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
09071*	120	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
03473	100	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
09057*	80	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
09048	60	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
09041*	50	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
04326	40	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1
09033*	36	152 x 38 x 25	6 x 3 x 1	25 mm / 1	5	1



FLAP WHEELS
X-88
ANSI > 320 to 36

Code	Grading	mm	Inches	Flange	Box	Pack
03524	320	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
04304	280	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03428	240	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03398	220	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
11592	180	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03311	150	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03055	120	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
02071	100	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
04289	80	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
02070	60	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
10532	50	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
18908	40	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
03249	36	178 x 25 x 25	7 x 1 x 1	25 mm / 1	5	1
01199	320	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
04314	280	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
10734	240	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
02119	220	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
09140	180	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
14550	150	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
09133*	120	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
00290	100	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
09125*	80	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
09119*	60	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
05281*	50	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
05996	40	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
04878	36	178 x 51 x 25	7 x 2 x 1	25 mm / 1	5	1
04330	320	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
03480	280	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
03403	240	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
03384	220	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
03363	180	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
03315	150	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
09136	120	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
03300	100	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
10273	80	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
04951	60	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
02069	50	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
03272	40	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1
11433	36	178 x 76 x 25	7 x 3 x 1	25 mm / 1	5	1





MOUNTED FLAP WHEELS MAROON PRODUCTS XL88 SERIES

Maroon line



Applications

- Cleaning operations for medium and light grinding.

Benefits

- Flexible, long lasting, and resistant product for excellent finishing.
- Adjustable to irregular, rounded and radial surfaces.
- High performing abrasive tool.

Properties

- Available sizes: 1" x 1" x 1/4"; 2" x 1" x 1/4"; and 3" x 1" x 1/4" High performing abrasive tool, great flexibility and sharpness, very durable, useful for grinding and polishing small diameter tubing and recessed areas.



TECHNICAL TIP:

To extend useful life of the wheel, avoid excessive loads or hitting when working on sharp edges.

Characteristics

➤ Backing	➤ Flexible high tensile X weight cotton cloth
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ ANSI 120, 80, 60
➤ Structure	➤ Closed coat

Applications and use recommendations



Optimum



Functional



Power tool
for LP
wheels

Power tool

**MOUNTED FLAP
WHEELS**
XL88
FEPA > P120
and P80 to P50

NOTE:

New flexible and resistant line.

Dimensions		Codes and available gradings			
Inches	mm	50	60	80	120
1 x 1 x 1/4	0.025 x 0.025 x 0.006		29840	29841	29842
2 x 1 x 1/4	0.051 x 0.025 x 0.006		29843	29844	29845
3 x 1 x 1/4	0.076 x 0.025 x 0.006		29846	29847	29848
6 x 1 x 1	0.152 x 0.025 x 0.025	20390	20391	20392	20393
6 x 2 x 1	0.152 x 0.051 x 0.025	20394	20395	20396	20397



ABRASIVE STARS RED PRODUCTS J-86 SERIES

Applications

- For sanding slots, inside of holes and molds.
- For operations that require flexibility and sanding power on both sides.
- For interior cleaning and polishing.
- For operations of intermediate grinding, finishing and polishing.

Benefits

- High flexibility, and adjustment for contours or curved surfaces.
- Both sides sanding.

Properties

- Available versions: used with or without a mandrel, with 1 or 4 layers.

Red line



TECHNICAL TIP:

For better performance and safety, keep rpm between 2,500 to 3,500. Max. It is recommended to "break" the abrasive star by grinding a sharp piece of metal before sanding.

Characteristics

- Backing ➢ J weight cotton cloth
- Mineral ➢ Aluminium oxide
- Grading ➢ ANSI 320, 240, 100, 80
- Structure ➢ Closed coat

Applications and use recommendations

 Optimum  Functional



**ABRASIVE
STARS**
J-86
**ANSI > 320, 240,
100 and 80**

NOTE:

For the required thickness add the necessary abrasive stars.

Code	Grading	mm	Inches	Layers	Kind	Box	Pack
11644	320	101 x 006	4 x 1/4	4	Spindle	50	2
05180*	240	101 x 006	4 x 1/4	4	Spindle	50	2
04427*	100	101 x 006	4 x 1/4	4	Spindle	50	2
04426*	80	101 x 006	4 x 1/4	4	Spindle	50	2
02831	320	101 x 013	4 x 1/2	1	Flange	50	10
02752	240	101 x 013	4 x 1/2	1	Flange	50	10
02748	100	101 x 013	4 x 1/2	1	Flange	50	10
12241	80	101 x 013	4 x 1/2	1	Flange	50	10



SPIRAL BANDS MAROON PRODUCTS X-88 SERIES

Applications

- Used for deburring welding seams, on conical or cylindrical work pieces. This sanding tool allows finishing or rough edges removal.
- The coated material is wound on a cloth-inner-liner, producing a stronger backing. Used on expanding rubber drums.
- Ideal for grinding, blending, deburring, finishing and polishing, flat or contoured metal surfaces, including the inside of holes and hard to reach areas. Effective on hard woods.

Benefits

- Useful abrasive hand tool.

Properties

Coarse and medium grit for grinding and finishing.

Maroon line



TECHNICAL TIP:

For better performance keep rpm: for 3" in diameter: 3,000 to 7,000 rpm; for 1" and 1 3/16": 8,000 to 14,000 rpm; for softer materials use lower speeds.

Characteristics

<ul style="list-style-type: none"> ➤ Backing ➤ Mineral ➤ Grading ➤ Structure 	<ul style="list-style-type: none"> ➤ Standard X weight cotton cloth ➤ Premium aluminium oxide ➤ ANSI 80, 60, 40 and 24 ➤ Closed coat
--	--

Applications and use recommendations



Optimum



Metal



Non ferrous metals



High speed Powertool for spiral and cartridge



Spiral band holder



Pipeline holder

NOTE:

Used in conjunction with spiral band holders (see Accessories section on page 159).



SPIRAL BANDS
X-88
**ANSI > 80, 40,
60 and 24**

Code	Grading	Diameter x length	Diameter x length x flange	Box	Pack
05494*	80	25 x 25 mm	1 x 1	250	50
02856	60	25 x 25 mm	1 x 1	250	50
01549	40	25 x 25 mm	1 x 1	250	50
06624	24	25 x 25 mm	1 x 1	250	50
09419*	80	30 x 30 mm	1 3/16 x 1 3/16	250	50
10045	60	30 x 30 mm	1 3/16 x 1 3/16	250	50
12054	40	30 x 30 mm	1 3/16 x 1 3/16	100	1
07670	24	30 x 30 mm	1 3/16 x 1 3/16	100	1
12542	80	76 x 152 mm	3 x 6	20	2
03194	60	76 x 152 mm	3 x 6	20	2
04838	40	76 x 152 mm	3 x 6	20	20
09315*	24	76 x 152 mm	3 x 6	20	2

**Other available
Options**

Diameter	Lon. 13 mm / 1/2	Lon. 19 mm / 3/4	Lon. 25 mm / 1	Lon. 38 mm / 1 1/2	Lon. 76 mm / 3
19 mm / 3/4	●		●	●	●
25 mm / 1	●	●	●	●	●
38 mm / 1 1/2	●	●	●	●	●
51 mm / 2	●	●	●	●	●
76 mm / 3	●	●	●	●	●



CARTRIDGE ROLLS STRAIGHT AND FULL TAPERED MAROON PRODUCTS X-88 SERIES

Applications

- A specialty item that is formed of an abrasive, rolled in a spiral form; it is used for deburring holes and difficult access areas, for light sanding or for cleaning up angled welds.
- The advantage is the outer layer that is in contact with the piece being worked, wearing out new layers appearing in succession to maintain grinding.
- Ideal for constant grinding work.

Benefits

- Straight and full tapered shapes.
- Easy tool change.

Maroon line



TECHNICAL TIP:

For grinding, material removal or large defects use 80 or 60 grit. For moderate finishing use 320 to 120 grits. For best results and safety maintain the Proper for 1" in diameter: 10,000 rpm; for 3/4": 17,000 rpm, and for 1/2": 22,500 rpm.

Characteristics

<ul style="list-style-type: none"> ➤ Backing ➤ Mineral ➤ Grading ➤ Structure 	<ul style="list-style-type: none"> ➤ Standard X weight cotton cloth ➤ Premium aluminium oxide ➤ ANSI 320, 220, 180, 80 and 60 ➤ Closed coat
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Applications and use recommendations

Optimum Functional



NOTE:

Used with cartridge roll mandrel (see Accessories section on page 159).

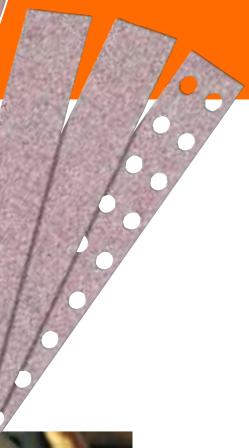


**CARTRIDGE
STRAIGHT
ROLLS**
X-88
**ANSI > 320, 220,
180, 120, 80 and 60**

Código	Grado	Diámetro x largo	Diámetro x largo x brida	Caja	Empaque
15663	120	13 x 51 x 03 mm	1/2 x 2 x 1/8	250	25
17434	80	13 x 51 x 03 mm	1/2 x 2 x 1/8	250	25
13110	120	19 x 19 x 06 mm	3/4 x 3/4 x 1/4	250	25
13109*	80	19 x 19 x 06 mm	3/4 x 3/4 x 1/4	250	25
15858	60	19 x 19 x 06 mm	3/4 x 3/4 x 1/4	250	250
13113	120	25 x 25 x 06 mm	1 x 1 x 1/4	250	25
13112	80	25 x 25 x 06 mm	1 x 1 x 1/4	250	25
07450	60	25 x 25 x 06 mm	1 x 1 x 1/4	250	250
08227	320	13 x 51 x 03 mm	1/2 x 2 x 1/8	250	250
07187	220	13 x 51 x 03 mm	1/2 x 2 x 1/8	250	250
07758	180	13 x 51 x 03 mm	1/2 x 2 x 1/8	250	250
06863	60	13 x 51 x 03 mm	1/2 x 2 x 1/8	250	250

**CARTRIDGE
ROLLS**
FULL TAPERED
X-88
**ANSI > 320, 220,
180, 120, 80 and 60**

Code	Grading	mm	Inches	Box	Pack
18005	120	13 x 51 x 3	1/2 x 2 x 1/8	250	250
17658	150	13 x 51 x 3	1/2 x 2 x 1/8	250	250
15502	240	13 x 25 x 3	1/2 x 2 x 1/8	250	250
15503	320	13 x 25 x 3	1/2 x 2 x 1/8	250	250



BODY FILES BISON PRODUCTS B080 SERIES

Applications

- Sanding raw wood automotive industry and in the body shop.
- High quality finishing of homogeneous surfaces prior to application of primer or painting.
- Recommended in sanding processes that require optimum finish of the surfaces.

Benefits

- Manufactured without colorants to prevent color migration to the working piece.
- Manufactured with additives that improve performance and extends useful life.
- Mounting system: Kwik Grip®

Properties

- Perforated with suction holes for easier and cleaner sandin.

Tan line



TECHNICAL TIP:

Body files are manufactured without color to avoid color migration to working pieces, change a new body file for each color.

Characteristics

- Backing
- High resistance B weight paper
- Mineral
- Premium aluminium oxide
- Grading
- FEPA P400, P320, P220, P180, P120, P80
- Structure
- Open coat



Applications and use recommendations

■ Optimum ■ Functional


Lacquers and paints



Wood



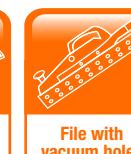
Plastic



Hand file board



File board



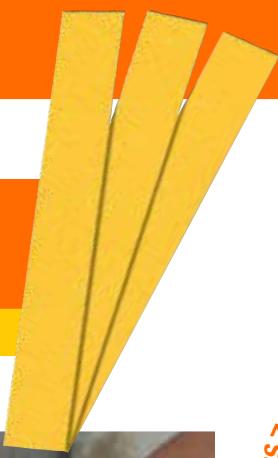
File with vacuum holes

BODY FILES B080 FEPA > P400, P320, P220, P180, P120 and P80

Code	Grading	mm	Inches	No holes	Holes	Contact	Box	Pack
18810	P400	70 x 419	2 3/4 x 16 1/2	●		Kwik Grip	250	50
18809	P320	70 x 419	2 3/4 x 16 1/2	●		Kwik Grip	250	50
18808	P220	70 x 419	2 3/4 x 16 1/2	●		Kwik Grip	250	50
18807	P180	70 x 419	2 3/4 x 16 1/2	●		Kwik Grip	250	50
18806	P120	70 x 419	2 3/4 x 16 1/2	●		Kwik Grip	250	50
18805	P80	70 x 419	2 3/4 x 16 1/2	●		Kwik Grip	250	50

NOTE:

Best option for professional work.



BODY FILES

GOLD PRODUCTS A080, D080 and E080 SERIES

Gold line

Applications

- For surface sanding operations on the automotive industry or in the aftermarket automotive (Body shop).

Benefits

- Non loading additives and open coat structure extends life and improve performance.
- Available in gold color for better identification.

Properties

- Mounting system: Kwik Grip®, PSA or clips.
- Standard size: 2 3/4" x 16 1/2" & 2 3/4" x 17 1/2".



TECHNICAL TIP:

For finer polishing use B080 Microfinishing line.

Characteristics

- Backing
- A080 finishing paper; D080 D weight paper; E080 E weight cylinder paper.
- Mineral
- Premium aluminum oxide
- Grading
- FEPA, A080 from P400 to P120; D080 P100 to P80; E080 from P80 to P36.
- Structure
- Open coat



Prevent
loading



Clips



PSA
Adhesive

Applications and use recommendations



Optimum



Functional



Lacquers and
paints



Wood



Hand file
board



File board



File with
vacuum holes

BODY FILES

A080

FEPA > P400, P320
and P240 to P120

Code	Grading	mm	Inches	No holes	Holes	Contact	Box	Pack
13949	P400	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
13947*	P320	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
15209	P240	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
13272	P220	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
13950	P180	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
13951	P150	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
13931*	P120	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50


BODY FILES
D080
**FEPA > P100
and P80**

Code	Grading	mm	Inches	No holes	Holes	Contact	Box	Pack
03656	P100	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
03657	P80	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
03233	P100	70 x 419	2 3/4 x 16 1/2		18	Kwik Grip	250	50
03627	P100	70 x 419	2 3/4 x 16 1/2	•		PSA	500	50
14226	P80	70 x 419	2 3/4 x 16 1/2	•		PSA	500	50
03235	P80	70 x 419	2 3/4 x 16 1/2		18	PSA	500	50
03234	P100	70 x 419	2 3/4 x 16 1/2	•		Clip	500	50

BODY FILES
E080
FEPA > P80 to P36

Code	Grading	mm	Inches	No holes	Holes	Contact	Box	Pack
07032	P80	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
07031	P60	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
07030	P40	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
07029	P36	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
03242	P80	70 x 419	2 3/4 x 16 1/2		18	Kwik Grip	250	50
03245	P60	70 x 419	2 3/4 x 16 1/2		18	Kwik Grip	250	50
03239	P40	70 x 419	2 3/4 x 16 1/2		18	Kwik Grip	250	50
03237	P36	70 x 419	2 3/4 x 16 1/2		18	Kwik Grip	250	50
03465	P80	70 x 419	2 3/4 x 16 1/2	•		PSA	500	50
20295	P60	70 x 419	2 3/4 x 16 1/2	•		PSA	500	50
03460	P40	70 x 419	2 3/4 x 16 1/2	•		PSA	500	50
19221	P36	70 x 419	2 3/4 x 16 1/2	•		PSA	500	50
03244	P80	70 x 419	2 3/4 x 16 1/2		18	PSA	500	50
03243	P60	70 x 419	2 3/4 x 16 1/2		18	PSA	500	50
03238	P40	70 x 419	2 3/4 x 16 1/2		18	PSA	500	50
03240	P36	70 x 419	2 3/4 x 16 1/2		18	PSA	500	50
11956	P80	70 x 445	2 3/4 x 17 1/2	•		Clip	500	50
11923	P60	70 x 445	2 3/4 x 17 1/2	•		Clip	500	50
11922	P40	70 x 445	2 3/4 x 17 1/2	•		Clip	500	50
11234	P36	70 x 445	2 3/4 x 17 1/2	•		Clip	500	50



BODY FILES BLUE PRODUCTS R013 SERIES

Blue line

Applications

- In the automotive refinishing industry workshop.
- Operations that require high grinding and cutting power.
- Effective for sanding fillers and automotive pastes.

Benefits

- Washed and reused.
- High resistance semi-flexible material.
- Structure avoids premature loading.

Properties

- Mounting system: Kwik Grip® and PSA.
- Available sizes: 2 3/4" x 16 1/2" and 2 3/4" x 17 1/2".



Characteristics

- Backing
- Mineral
- Grading
- Structure
- Heavy weight polycotton
- Zirconia alumina
- FEPA from P80 to P36
- Open coat



Prevent
loading



Clips



PSA
Adhesive



Washable



Better
option

Applications and use recommendations



Optimum

Functional



Hand file
board



File board



File with
vacuum holes

BODY FILES R013 FEPA > P80 to P36

Code	Grading	mm	Inches	No holes	Holes	Contact	Box	Pack
14475*	P80	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
15655	P50	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
14050*	P36	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
14460*	P80	70 x 419	2 3/4 x 16 1/2	•		PSA	250	50
15248*	P40	70 x 419	2 3/4 x 16 1/2	•		PSA	250	50
14298*	P36	70 x 419	2 3/4 x 16 1/2	•		PSA	250	50

NOTE:

Long lasting performance.



BODY FILES

CLOTH PRODUCTS X088 SERIES

Applications

- For the automotive refinishing industry where primers and epoxy paints are used.
- Recommended for sanding heavy coats and pastes.
- **Ideal for high-power sanding and cutting applications.**

Benefits

- Extends useful life of body file during grinding.
- Medium flexibility and resistance.
- Open coat avoids loading.

Properties

- Mounting system: Kwik Grip®, PSA, and clips.
- Available sizes: 2 3/4" x 16 1/2" and 2 3/4" x 17 1/2".

Maroon line



TECHNICAL TIP:

To extend useful life of the product, avoid excessive loads or hitting sharp edges while working.

Characteristics

➤ Backing	➤ Standard X weight cotton cloth
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ ANSI from 220 to 36
➤ Structure	➤ Open coat



Applications and use recommendations



BODY FILES

X088

FEPA > 220 to 36

NOTE:

Humidity, resinous wood or abrasive fine grading may cause loading in raw wood sanding.

Code	Grading	mm	Inches	No holes	Holes	Contact	Box	Pack
05282	36	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
07426	40	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
05283	80	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
14047	100	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
13897	150	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
13898	220	70 x 419	2 3/4 x 16 1/2	•		Kwik Grip	250	50
17893	80	70 x 419	2 3/4 x 16 1/2	•		PSA	250	50
17880	36	70 x 419	2 3/4 x 16 1/2	•		PSA	250	50
13658	40	70 x 445	2 3/4 x 17 1/2	•		Clip	250	50
22327	80	70 x 445	2 3/4 x 17 1/2	•		Clip	250	50
17428	120	70 x 445	2 3/4 x 17 1/2	•		Clip	250	50
07444	150	70 x 445	2 3/4 x 17 1/2	•		Clip	500	50



BODY FILES RED PRODUCTS X-86 SERIES

Red line

Applications

- For grinding, sanding and smoothing automotive pastes.
- In laminated and painting tasks that require fast cut with sander pads.
- Ideal in tasks that require standard grinding and cutting power.

Benefits

- High-resistance material.

Properties

- Mounting system: clips



TECHNICAL TIP:

In the case of woodwork it is important that the sanding direction matches wood streak to obtain better finishes and less reprocesses.

Characteristics

➢ Backing	➢ Standard X weight cotton cloth
➢ Mineral	➢ Aluminium oxide
➢ Grading	➢ ANSI from 80 and 36
➢ Structure	➢ Closed coat



Applications and use recommendations

 Optimum  Functional



Hand file board



File board



File with vacuum holes

BODY FILES X-86 ANSI > 80 and 36

Code	Grading	mm	Inches	No holes	Holes	Contact	Box	Pack
03247	80	70 x 445	2 3/4 x 17 1/2	•		Clip	250	50
00175	36	70 x 445	2 3/4 x 17 1/2	•		Clip	250	50



ABRASIVE MESH BLACK PRODUCTS L-95 SERIES

Applications

- For sanding or polishing when materials tends to load the abrasive mesh and for extremely cloggy materials.
- Used for ceramic, marble, wood, plastic, metals, tanneries and leather, glass, lacquers, paints and non ferrous metals polishing.

Benefits

- Flexibility to adapt to contours and radios.
- Open structure, do not fold.
- Can be used over either wet or dry surfaces.
- Extremely resistant and long lasting product.
- Available in rolls, sheets and discs.

Black line



TECHNICAL TIP:

In automotive industry it is used for sanding imperfections on the metal surface and to obtain excellent finishes.

Characteristics

➤ Backing	➤ Open mesh
➤ Mineral	➤ Sharp silicon carbide
➤ Grading	➤ 400, 320
➤ Structure	➤ Open



Applications and use recommendations

Non ferrous metals	Lacquers and paints	Metal



ABRASIVE MESH L-95 400 and 320

Code	Grading	mm	Inches	Box	Pack
22047	400	230 X 140	9 X 5 1/2	500	50
02440	320	230 X 140	9 X 5 1/2	500	50

ABRASIVE MESH DISC L-95 400

Code	Grading	mm	Inches	Box	Pack
22844	400	203	8	500	50



ANTI SLIP STRIPS BLACK PRODUCTS W-98 SERIES

Black line

Applications

► They can be applied on flat surfaces such as ceramic floors, vinyl tiles, wood and metal.

► Recommended to avoid slips in hallways and stairs.

Benefits

► Long lasting product.
► Prevents slips.



TECHNICAL TIP:
Before setting clean surface perfectly.

Characteristics

► Backing	► Waterproof X weight cotton cloth
► Mineral	► Silicon carbide
► Grading	► ANSI 60
► Structure	► Closed coat
► Mounting System	► PSA adhesive



Anti-slip



PSA Adhesive

Application



Manual Application

**ANTI SLIP STRIP
W-98
ANSI> 60**

Code	Grading	mm	Inches	Box	Pack
09600	60	19x610	3/4 x 24	100	50
09602	60	25x610	1 x 24	100	50



ANTI SLIP ROLLS BLACK PRODUCTS P-93 SERIES

Black line

Applications

- Used in entrances, corridors, kitchens, staircase, etc.

Benefits

- It is the best option to maintain home, work or office safety.
- It is a product that will help you to avoid accidents due to slips and falls.
- It is a flexible and resistant product for interior and exterior.
- It has an excellent resistance to damp and grease.
- Available in custom size dispenser.

Properties

- Available in 0.0254 m x 6.0 m rolls
- Application temperature: 15°C - 35 °C (top)



TECHNICAL TIP:

When applying non slip strips assure that surfaces are totally clean, free of dirt and grease use moderate and uniform pressure to obtain a good adhesion to surfaces.

Characteristics

- Backing
- Mineral
- Plastic film
- Silicon carbide



Anti-slip

Application



ANTI SLIP ROLL P-93

	Code	Grading	mm	Inches x YDS	Box	Pack
	26255	060	25 x 6000	1" x 234"	5	1



ABRASIVE SPONGES RETAIL PACKING ULTRA FLEX

Applications

- For sanding, finishing, and polishing raw wood. All purpose tool for removing varnishes, laquers or paint.
- In automotive repainting to remove paint, color coats and clear.
- Sanding and plastic finishes of plastics, mainly curved parts.
- Ideal in tasks that require a thin high flexible sponge from grinding to finishing operations.

Benefits

- Great flexibility, adapts to the substrate and conforms special-shaped work pieces.
- Does not damage the shape of the pieces cushioned shape provides a good finish and cleaning action.
- Ideal for hand sanding.
- It can be used either dry or wet.
- In case of saturation, sponge can be rinsed, dried and reused.

➤ Packaging: dispenser box with 60 pieces.

Black line



TECHNICAL TIP:

Non-rusting, waterproof, washable, resilient, conformable and long lasting.

Characteristics

- Backing ➤ Flexible abrasive sponge
- Mineral ➤ Aluminium oxide
- Grading ➤ 600, 400, 180, 100 and 60
- Standard size ➤ 140 mm x 115 mm x 5 mm



Applications and use recommendations



Hand Sanding

**ABRASIVE SPONGES
ULTRA FLEX
600, 400,
280, 180,
100 and 60**

NOTE:

Wide range of grades from grinding to finishing operations.

Code	Grading	mm	Inches	Box	Pack
18442	60	140 x 115 x 5	5 1/2 x 4 1/2 x 3/16	40	10
18445	100	140 x 115 x 5	5 1/2 x 4 1/2 x 3/16	40	10
13122	180	140 x 115 x 5	5 1/2 x 4 1/2 x 3/16	40	10
13123	280	140 x 115 x 5	5 1/2 x 4 1/2 x 3/16	40	10
13124	400	140 x 115 x 5	5 1/2 x 4 1/2 x 3/16	40	10
13125	600	140 x 115 x 5	5 1/2 x 4 1/2 x 3/16	40	10



ABRASIVE SPONGES RETAIL PACKING DUO FLEX

Applications

- Sanding, finishing, and polishing raw wood.
- Cleaning and finishing metals, stainless steel, carbon steel, aluminium, bronze, iron, etc.
- Sanding and finishing of curved plastic surfaces.
- Conforms to special shaped pieces. Ideal for removing oxide and rust, scoffing paint before repaint, removing nibs and bubbles between sealer coats, sanding and finishing raw woods.

Benefits

- Useful on both sides.
- Great flexibility, adapts to the substrate and conforms to specially shaped pieces.
- Hand sanding.
- Can be used on dry or wet surfaces
- In case of saturation, sponge can be rinsed, dried and reused.

Properties

- Packaging: dispenser box with 40 pieces

Maroon line



TECHNICAL TIP:

Non-rusting, waterproof, washable, resilient, conformable and long lasting.

Characteristics

- Backing
- Mineral
- Grading
- Size
- Flexible abrasive sponge
- Aluminium oxide
- 220, 150, 100, and 60
- 120 x 98 x 13 mm



Applications and use recommendations

Optimum



**ABRASIVE SPONGES
DUO FLEX
220, 150,
100 and 60**

Code	Grading	mm	Inches	Box	Pack
18447	60	120 x 98 x 13	4 3/4 x 4 x 1/2	40	5
18446	100	120 x 98 x 13	4 3/4 x 4 x 1/2	40	5
13126	150	120 x 98 x 13	4 3/4 x 4 x 1/2	40	5
13127	220	120 x 98 x 13	4 3/4 x 4 x 1/2	40	5

NOTE:

Abrasive on both sides will provide double long lasting life.



ABRASIVE SPONGES RETAIL PACKING Power FLEX

Applications

- For sanding, finishing, and polishing raw wood. All purpose tool for removing varnishes, paint or rust.
- Cleaning and finishing metals, stainless steel, carbon steel, aluminium, bronze, forged steel.
- Sanding and finishing of plastics, mainly corners.
- For repairing walls, panels, and plasters removal.

Benefits

- Abrasive on four sides of sponge will increase life proportionally.
- Ease for hand sanding.
- Angled version to access difficult spots.
- It can be used either dry or wet.
- In case of saturation, sponge can be rinsed, dried and reused.
- Packaging: dispenser box with 30 pieces.

Black line



TECHNICAL TIP:

Non rusting waterproof, washable, resilient and long lasting.

Characteristics

➢ Backing	➢ Abrasive sponge
➢ Mineral	➢ Aluminium oxide
➢ Grading	➢ 220, 150, 100 and 60
➢ Size	➢ 98 x 69 x 26 mm



Applications and use recommendations



Optimum

**ABRASIVE SPONGES
POWER FLEX
220, 150,
100 and 60**

Code	Grading	mm	Inches	Box	Pack
13136	60	98 x 69 x 26	3 3/4 x 2 3/4 x 1	30	5
13146	100	98 x 69 x 26	3 3/4 x 2 3/4 x 1	30	5
13128	150	98 x 69 x 26	3 3/4 x 2 3/4 x 1	30	5
13129	220	98 x 69 x 26	3 3/4 x 2 3/4 x 1	30	5



ABRASIVE SPONGE ROLL BISON PRODUCTS B080

Applications

- Medium and fine sanding on concave and convex surfaces, rounded sections and contours in natural or coated wood.
- Sanding of fillers and primers in automotive repainting.
- Sanding of polyester coating and fiberglass.

Tan line

Benefits

- Uniform sanding pressure distribution and better finishes on any surface. and better finishes on any surface.
- Anti loading system increases useful life.
- Proper hand adjustment improves sanding operations.
- Roll form allows cut to length.
- Adjust easy to contours and rounded sections, avoids sharp edges.
- It can be hand or machine use.



Properties

- Roll form.
- Allows to be cut to length.
- B080 laminated with sponge in a roll form.

TECHNICAL TIP:

To lengthen useful life, use an anti loading product.

Characteristics

➤ Backing	➤ Laminated B weight paper with resilient sponge
➤ Mineral	➤ Premium aluminium oxide
➤ Grading	➤ FEPA P400, P320 and P240
➤ Structure	➤ Open coat

Applications and use recommendations

Optimum



**ABRASIVE SPONGE ROLLS
B080**
FEPA > P400, P320
and P240

Code	Grading	m	Box	Pack
26258	P240	0.114 X 20 X 0.005	5	1
26259	P320	0.114 X 20 X 0.005	5	1
26257	P400	0.114 X 20 X 0.005	5	1

NOTE:

It easily adjusts to contours and rounded sections.



ABRASIVE SPONGE ROLLS RED PRODUCTS JF87

Applications

- Medium and fine sanding of curved surfaces, rounded profiles and depressions in natural and coated wood.
- General cleaning of metallic or painted surfaces, and fine sanding fillers.

Red line

Benefits

- Uniform sanding pressure distribution and better finishes on any surface.
- Proper hand adjustment improves medium and fine sanding operations.
- Roll form allows to cut any length.
- Easy adjustment to contours and rounded sections, avoid sharp edges.
- It can be hand or machine use.



Properties

- Roll form.
- Allows to be cut to length.
- JF87 laminated to sponge in a roll form.

TECHNICAL TIP:

Avoid work on sharp edges product conforms to contours and rounded sections.

Characteristics

► Backing	► Laminated J weight cloth with resilient sponge
► Mineral	► Premium aluminium oxide
► Grading	► FEPA P220, P150, P120 and P80
► Structure	► Closed coat

Applications and use recommendations

 Optimum



**ABRASIVE
SPONGE ROLLS
JF87**
FEPA > P220, P180,
P150, P120 and P80

NOTE:

Product provides uniform sanding pressure all over the working area.

Code	Grading	mm	Box	Pack
26250	P80	0.114 X 10 X 0.005	5	1
26251	P120	0.114 X 10 X 0.005	5	1
26252	P150	0.114 X 10 X 0.005	5	1
26253	P180	0.114 X 10 X 0.005	5	1
26254	P220	0.114 X 10 X 0.005	5	1

SUPREME FOAM DISCS BLUE PRODUCTS LE88

Applications

- Easily conforms curved surfaces and rounded profiles.
- Fine buffing of laquers and paints.
- Fine buffing of coated surfaces prior to final finishes.
- Matches painted surfaces.
- Natural and synthetic solid surfaces buffing, as marble, granite, resin-based materials, etc.
- High shine finishing automotive industry, custom made furniture and musical instruments.

Benefits

- Excellent results in surface fine finishing and long lasting useful life.
- Generates a uniform and smooth buffing pattern for best finishing.
- To work wet or dry.

Properties

- Mounting system: Kwik Grip®
- Reduce cost and labor time for desired finishes.
- Eliminates cross abrasive scratches.

Characteristics

➢ Backing	➢ Tridimensional structure system
➢ Mineral	➢ Micronized premium aluminium oxide
➢ Grading	➢ *JIS 2000, 1500, 1000 and 800
➢ Structure	➢ Open mesh fabric coated

Blue line



TECHNICAL TIP:

Product can be used wet or dry, allows free water pass, to improve finishes.

Applications and use recommendations



Optimum



Functional



Lacquers and paints



Resin based materials



Hand sanding



Pneumatic Orbital sander



orbital vacuum sander

**SUPREME
FOAM DISCS
LE88
3000, 2000,
1500, 1000 and 800**

NOTE:

Use microfine grit on coated surfaces prior to final buffing steps.

Code	Grinding	mm	Inches	Contact	Box	Pack
35200	800	152	6	Kwik Grip	60	10
35201	1000	152	6	Kwik Grip	60	10
35202	1500	152	6	Kwik Grip	60	10
35203	2000	152	6	Kwik Grip	60	10
35204	3000	152	6	Kwik Grip	60	10

FANDELI®



Coated Abrasives



› **NON WOVEN**

GENERAL CATALOG

HAND PADS <
FLEX HAND PADS <
ABRASIVE WOOL <
CONDITIONING DISCS <
CONDITIONING CONTACT DISCS <
CONDITIONING BELTS <
CONVOLUTE WHEELS <
UNITIZED WHEELS <
POLISHING DISCS AND BELTS <

HAND PADS

Multi use and economic
NON-WOVEN SURFACE PRODUCTS

Applications

- An ideal general purpose pad, for removing rust and metal oxidation, blending around welds, cleaning kitchens, bathrooms (except fixings and fixtures), tiles washing, aluminium pots, sanitary furniture, etc.
- For general cleaning in homes, hotels, restaurant and industries.
- Cleaning, finishing, and metal conditioning mainly on stainless steel, carbon steel, aluminium, bronze, forged steel, etc.
- **Cleaning general purpose, economic hand pad.**

Benefits

- Great flexibility, it adapts well to the substrate, removing minimal quantities of material. It does not alter the shape of the piece.
- In a rectangular orbital sander, for conditioning and finishing of flat pieces, allows working on surfaces with minimum effort and time.
- Best price in market and the best cost benefit relationship for a hand pad. In metals, performs micro grinding, giving a smoother finish, conditioning and cleaning the surfaces for further processes.
- Due to its open coat nature, it does not load, dissipates heat; and all the worked pieces show the same scratch pattern.
- Caja con 50 almohadillas y empaque despachador de 10 piezas.

Green line



Characteristics

➤ Product	➤ Non woven nylon web, bonded to abrasive grain
➤ Mineral	➤ Aluminium oxide
➤ Grit	➤ Medium
➤ Size	➤ 6" x 9"
➤ Structure	➤ Open web



Dry Sanding

Wet Sanding

Open coat

Applications and use recommendations



Optimum



Functional



Metal



Non ferrous metals



Wood



Hand sanding



Pneumatic or electric rectangular orbital machine

HAND PADS GREEN Medium grit

	Code	Grading	mm	Inches	Box	Pack
	17337*	Medium	152 x 229	6 x 9	50	10
	05633*	Medium	152 x 229	6 x 9	50	10

NOTE:

Versatile and highly demanded.

HAND PADS

Wood
NON-WOVEN SURFACE PRODUCTS

Applications

- Designed for economical remove of rust accumulations and corrosion from metals, adequate for cleaning, polishing and removing persistent marks or stains.
- In raw and sealed woods, on complex forms moldings, routed and carved pieces, doing a great job on surfaces or wood conditioning.
- Setting varnish or sealers in moldings as well as flat pieces. The second application leaves a very fine finish.
- Clean up, finishing and metals conditioning stainless steel, carbon steel, aluminium, bronze, forged iron, etc.
- Recommended for satin finishing paint, to give better anchoring to the new paint.

Benefits

- Great flexibility, it adapts well to the substrate, removing minimal quantities of material. It does not alter the shape of the piece.
- On metals, provides a micro finish giving a smoother finish, condition and surface cleaning for secondary processes.
- Due to its open coat nature, does not load, dissipates the heat and all the worked pieces show uniform scratch pattern.
- Important savings in stains, sealer and varnish when wood pores are closed, because it does not longer absorb as before.

Characteristics

➤ Product	➤ Non woven nylon web, bonded to abrasive grain
➤ Mineral	➤ Aluminium oxide
➤ Grit	➤ Fine and very fine
➤ Size	➤ 6" x 9"
➤ Structure	➤ Open web



Dry Sanding



Open coat

Maroon line



Applications and use recommendations

 Optimum



Wood



Lacquers and paints



Non ferrous metals



Metal



Hand sanding



Pneumatic or electric rectangular orbital machine

HAND PADS MAROON

Fine and
Very fine grit

NOTE:

It is a great complement to the sanding line process.

Code	Grading	mm	Inches	Box	Pack
01451*	Extrafine	152 x 229	6 x 9	50	10
01502*	Fine	152 x 229	6 x 9	50	10
15688*	Extrafine	152 x 229	6 x 9	50	10

HAND PADS

Metal
NON-WOVEN SURFACE PRODUCTS

Applications

- Recommended for polishing copper, key rings, belt buckles, hardware for shoes, etc. Removes top coat rubbing as well as in furniture finishing.
- Ultra fine finish in materials like plastic, natural rubber, in auto parts manufacturing.
- Designed to provide the highest quality surface finish, producing uniform scratch pattern resulting in a satin finish of exceptional quality.
- Used for satin paint finishing, giving excellent adherence to the new paint.

Benefits

- Great flexibility, it adapts well to the substrate, removing minimal quantities of material. It does not alter the shape of the piece.
- On metals, performs micro finishing and gives a smoother finish conditioning and cleaning of the surface for secondary processes.
- Due to its open coat nature, it does not load, dissipates the heat in all the worked pieces, showing uniform scratch pattern.
- Best finish for setting the paint, as new paint levels out better, in addition gives a smoother finish.
- Dispenser box with 10 pieces and external case of 50 hand pads.

Characteristics

➤ Product	Non woven nylon web, bonded to abrasive grain
➤ Mineral	Sharp silicon carbide
➤ Grit	Ultra fine
➤ Size	6" x 9"
➤ Structure	Open web



Dry Sanding



Wet Sanding

Open coat

HAND PADS GRAY Ultra fine grit

NOTE:

It conforms the surfaces to receive new layers.

Gray line



TECHNICAL TIP:

Silicon carbide has a more aggressive and fast cut than Aluminium oxide resulting in different finishing pattern.

Applications and use recommendations



Optimum



Functional



Metal



Lacquers and paints



Non ferrous metals



Plastic



Hand sanding



Pneumatic or electric rectangular orbital machine

Code	Grading	mm	inches	Box	Pack
01459*	Ultra fine	152 x 229	6 x 9	50	10

HAND PADS

Glass/Porcelain
NON-WOVEN SURFACE PRODUCTS

Applications

- Ideal for light cleaning with no surface disturbance, providing the mildest action of all hand pads. Used for scratch free cleaning on stoneware wash, pots, faucets, knobs, porcelain and electronic accessories.
- In auto parts industry, for cleaning and finishing delicate pieces.
- Finishing and wood surface preparation.
- Use along with polishing compounds, mounted on rectangular orbital sanders as to produce a mirror finishing, doing the job with minimum effort and time.

Benefits

- Its flexibility adapts to the substrate, without removing material since it does not have abrasive mineral.
- Due to its open coat nature, it does not load, and dissipates heat in all the worked pieces.

Properties

- Dispenser box with 10 pieces and external case of 50 hand pads.

White line



TECHNICAL TIP:

To avoid loading use open coat structures

Characteristics

➤ Product	➤ Non woven polyester web
➤ Mineral	➤ No abrasive grain
➤ Grit	➤ None
➤ Size	➤ 6" x 9"
➤ Structure	➤ Open web



Dry Sanding



Open coat

Applications and use recommendations

 Optimum  Functional



Hand sanding



Pneumatic or electric rectangular orbital machine

HAND PADS

WHITE

No abrasive

NOTE:

To use in wet or dry surfaces.

Code	Grading	mm	inches	Box	Pack
01473*	Non-abrasive	152 x 229	6 x 9	50	10

HAND PADS

Heavy Duty
NON-WOVEN SURFACE PRODUCTS

Applications

- A heavy fiber backing aggressive hand pad. Designed for tough cleaning and finishing, ideal for removing corrosion, scale, rust and dirt.
- Used for cleaning grills and grids where grime and dirt persist.
- Used for heavy cleaning in the hotel and restaurant industries for janitorial work.
- Cleaning, finishing and metals conditioning in metalwork industry, mainly stainless steel, carbon steel, forged iron, etc.

Benefits

- Great flexibility and high performance, it adapts well to the substrate, removing minimal quantities of material. It does not alter the shape of the piece.
- In metals, provides a light grinding giving a smooth finish, conditioning and cleaning for secondary processes.
- Due to its open coat nature, it does not load, dissipates heat and all the worked pieces, showing the same uniform scratch pattern.
- Produces brilliant finishes with medium scratch patterns.

➤ Packaging: 50 hand pads/case.

Characteristics

➤ Product	➤ Non woven nylon web, bonded to abrasive grain
➤ Mineral	➤ Sharp silicon carbide
➤ Grit	➤ Medium
➤ Size	➤ 6" x 9"
➤ Structure	➤ Open web



Dry Sanding

Wet Sanding

Open coat

Black line



TECHNICAL TIP:

Silicon carbide has a more aggressive and fast cut than aluminium oxide resulting in different finishing patterns.

Applications and use recommendations



Optimum



Functional



Metal



Non ferrous metals



Lacquers and paints



Hand sanding



Pneumatic or electric rectangular orbital machine

HAND PADS BLACK Medium grit

	Code	Grading	mm	Inches	Box
	17034*	Medium	152 x 229	6 x 9	50

NOTE:

It does not load and dissipates heat.

HAND PAD

Industrial cleaning and finishing
NON-WOVEN SURFACE PRODUCTS

Applications

- Used for cleaning plastic injection molds.
- For aggressive cleaning action, and removing scale and corrosion on steel.
- Used for cleaning lamps, candleholders, and metallic pieces.
- Satin finish of locks and doors hardware.

Benefits

- Great flexibility and high yield, it adapts well to substrates, removing minimal quantities of material. It does not alter the shape of the piece.
- In metals, provides a very slight grinding giving a smooth finish, conditioning and cleaning for secondary processes.
- Due to its open coat nature, it does not load, dissipates heat and all the worked pieces show the same uniform scratch pattern.
- It presents brilliant finishes with medium scratch patterns.
- Packaging: dispenser box with 10 pieces and external case of 50 hand pads.

Beige line



Characteristics

- Product Non woven nylon web, bonded to abrasive grain
- Mineral Aluminium oxide
- Grit Medium
- Size 6" x 9"
- Structure Open web



Dry Sanding

Wet Sanding

Open coat

Applications and use recommendations



Metal

Non ferrous metals

Plastic



Hand sanding



Pneumatic or electric rectangular orbital machine

 Optimum

 Functional

HAND PADS BEIGE Medium grit

NOTE:

Its micro grinding produces smoother finishing.

Code	Grading	mm	Inches	Box	Pack
01551*	Medium	152 x 229	6 x 9	50	10

FLEX HAND PAD

Clean and Finish

NON-WOVEN SURFACE PRODUCTS PURPLE AND GRAY

Gray | Purple line

Applications

- Finishing varnishes or sealers, for molds as well as flat pieces. Second application produces a very fine finish.
- Cleaning, finishing and conditioning of small and complex parts where maximum flexibility is required such as integrated circuits.
- Used for satin paint finishes as well as reworking auto parts.

Benefits

- Great flexibility and high performance, it adapts well to the substrate, removing minimal quantities of material. It does not alter the shape of the piece.
- In rectangular orbital sander, for conditioning and finishing mirror like on flat pieces, doing the job with minimum effort and time.
- In automotive repainting, it is recommended for satin paint finish.
- Due to its open coat nature, it does not load, dissipates heat and all the worked pieces show the same uniform scratch pattern.
- Packaging: box with 60 pieces.



Characteristics

Product	Non woven nylon web, bonded to abrasive grain
Mineral	Purple, aluminium oxide; gray, Sharp silicon carbide.
Grit	Purple, extra fine; gray, fine
Size	4" x 8"
Structure	Open web



Dry Sanding



Wet Sanding

Open coat

Applications and use recommendations



Optimum



Functional



Lacquers and paints



Non ferrous metals



Wood



Hand sanding

FLEX HAND PADS
PURPLE AND GRAY
Extra fine and fine grit

NOTE:

Sharp silicon carbide and aluminium oxide available versions.

Code	Grading	mm	Inches	Box	Pack
05298	Fine	101 x 203	4 x 8	60	1
05299*	Extrafine	101 x 203	4 x 8	60	1



ABRASIVE WOOL

Cleaning and finishing
NON-WOVEN SURFACE PRODUCTS L-30

Orange / Maroon / Gray line



Applications

- Raw wood, varnish coating finishing, special for complex shapes and molds.
- Cleaning of metal parts –copper, bronze and aluminium.
- Satin finish on silver and gold parts (gray).

➤ Maximum fibers flexibility

Benefits

- Great flexibility, it adapts excellent to the substrate, removing minimal quantities of material. It does not alter the shape of the piece.
- Easy on operator hands.
- Due to its open coat nature, it does not load, dissipates heat, and all the worked pieces show the same uniform scratch pattern.
- Packaging: individual cases of 200 g., 175 g. or 150 g.



Characteristics

➤ Product	➤ Mineral wool
➤ Mineral	➤ Aluminium oxide
➤ Grit	➤ Simplified grading Fine and medium to coarse
➤ Structure	➤ Open web



Dry Sanding



Open coat

Applications and use recommendations

 Optimum



Wood



Metal



Non ferrous metals



Hand sanding

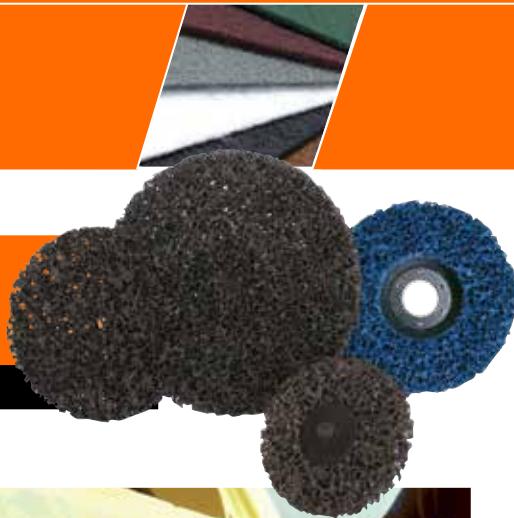
ABRASIVE WOOL
L-30 PRODUCT
Fine, medium and coarse grits

Code	Grading	Grams	Box	Pack
11900	Coarse (orange)	200	50	10
11901	Medium (maroon)	175	50	10
11904	Fine (gray)	150	50	10

NOTE:

It is anticorrosive, oxidation free and can be reused.

CLEAN AND STRIP DISCS NON-WOVEN SURFACE PRODUCTS L-92



Applications

- The heaviest non woven fiber backing and most aggressive material; designed for the toughest cleaning and finishing jobs on stainless and carbon steel; ideal for removing corrosion, scale, rust and dirt.
- Used for welds cleaning and finishing on stainless and carbon steel.
- For general cleaning of metals in a fast way.
- Peeling automotive paint coatings or any other painted surfaces.

Benefits

- It is a fast surface cleaner for metals or coatings.
- Uniform coarse finishes on metals.
- In automotive repainting, cleans off paint producing smooth bare sheet metal.
- Available in several sizes will cover your work needs.
- Used with proper adapter.
- High performance removes minimum quantities of material, does not alter the shape of the piece.
- It produces uniform scratch patterns.
- Packaging: dispenser box quantities listed on chart below.

Black line



TECHNICAL TIP:

Silicon carbide has a more aggressive and sharp cut than aluminium oxide resulting in different finishing patterns.

Characteristics

➤ Product	➤ High strength nylon fibers
➤ Mineral	➤ Sharp silicon carbide
➤ Grit	➤ Extra coarse
➤ Structure	➤ Open web

Applications and use recommendations



CLEAN AND STRIP DISCS L-92 PRODUCT Extra coarse grit

Code	Grading	Diameter mm	Inches	Large drill mm	RPM max.	Box	Pack
12152*	Extra coarse	76	3	C/Brida	8,600	10	30
01942	Extra coarse	101 x 013	4 x 1/4	6	10,000	10	30
01951*	Extra coarse	152 x 13	6 x 1/2	13	4,000	20	10
25613	Extra coarse	115 x 22	4 1/2 x 7/8	22	10,000	1	1
25614	Extra coarse	76 x 51x 6	3 x 2 x 1/4	6.4	8,600	0	1
25615	Extra coarse	115 x 22	4 1/2 x 7/8	22	10,000	0	1

NOTE:

High resistance fiber with coarse grit.



CONDITIONING DISCS

Clean and finish
NON-WOVEN SURFACE PRODUCTS L-22

Applications

- Used for removing file marks, rust and oxide; for removing surfaces imperfections and defects prior to painting.
- It provides excellent results on stainless steel, carbon steel, aluminium, brass, bronze and other non ferrous metals.
- It is a superior product for cleaning or deburring.
- Conditioning pieces for chroming or plating, cleaning any type of welds, cleaning plastic injection molds. In footwear industry to satin finish buckles and fittings. Finishing pieces made of plastic and natural rubber. Peeling automotive paint.

Benefits

- It is available in various diameters.
- In four grits to satisfy different finishing requirements, extra fine, fine, medium and coarse.
- Its great flexibility allows it to adapt to work pieces.
- Provides satin finish without marking the work.
- It does not alter the shape of the piece.
- Due to its open coat nature, it does not load, dissipates heat, in all the worked pieces showing the same uniform scratch pattern.

Maroon line



TECHNICAL TIP:

A

Characteristics

➤ Product	➤ High flexibility, durable, and reinforced non-woven nylon
➤ Mineral	➤ Aluminium oxide
➤ Grit	➤ Simplified grading Extra fine to coarse
➤ Size	➤ 5" x 1/2", 6" x 1/2", 6" x 1", 8" x 1/2"; 6" x 2" x 1"; 3" x 2" x 1/4"; 2" x 1" x 1/4"
➤ Structure	➤ Open web

Applications and use recommendations

 Optimum  Functional



CONDITIONING DISC

L-22 PRODUCT

Simplified grading

NOTE:

Multi discs system for better job requirements.

Code	Grading	mm	Inches	RPM max.	Box / Pack
03527	Fine	127 x 13	5 x 1/2	4,000	10/40
03528	Medium	127 x 13	5 x 1/2	4,000	10/40
03532*	Coarse	127 x 13	5 x 1/2	4,000	10/40
25068	Extrafine	152 x 13	6 x 1/2	3,600	10/40
15062	Fine	152 x 25	6 x 1	3,600	10/40
07755	Medium	152 x 25	6 x 1	3,600	10/40
04223	Fine	203 x 13	8 x 1/2	2,700	10/30
02036	Medium	203 x 13	8 x 1/2	2,700	10/30
04222	Coarse	203 x 13	8 x 1/2	2,700	1/10
13438	Fine	152 x 51 x 25	6 x 2 x 1	3,500	1/0
25611	Medium	76 x 51 x 6	3 x 2 x 1/4	8,000	1/0
25612	High performance medium	76 x 51 x 6	3 x 2 x 1/4	8,000	1/0
25616	Superfine compound with sandpaper grit 180	51 x 25 x 6	2 x 1 x 1/4	10,000	1/0



CONTACT DISCS

Cleaning and finishing

NON-WOVEN SURFACE PRODUCTS L-20 and L-21

Applications

- For surfaces cleaning, finishing and conditioning; excellent results on stainless steel, carbon steel, aluminium, bronze and other non ferrous metals.
- For peeling automotive paint or preparing surfaces. Removes corrosion, old paint, varnish and coatings without modifying the surface and original shape of the substrate.

Benefits

- It is available in four diameters.
- Simplified grading very fine, medium and coarse to satisfy finishing needs.
- Designed to fulfill most of any demanding ranges of roughness.

Properties

- Mounting system: Kwik Grip®



Blue

Maroon

Brown line



TECHNICAL TIP:

For good grip quick and easy change use Kwik Grip pads.

Characteristics

➢ Product	➢ Non woven nylon web, bonded to abrasive grain
➢ Grit	➢ Very Fine (blue); medium (maroon); coarse (brown)
➢ Size	➢ 5", 6", 7" and 8" in diameter
➢ Structure	➢ Open web

Applications and use recommendations



Optimum

Functional



Dual action
orbital sanders



Backing up Pad

NOTE:

Used with long hook backing pad (see Accessories section on page 159).



CONTACT DISCS
L-20 PRODUCT
Simplified grading

Code	Grading	mm	Inches	RPM max.	Box / Pack
03829	Fine	127	5	5,000 - 7,000	10/50
03842	Medium	127	5	5,000 - 7,000	10/50
03844	Coarse	127	5	5,000 - 7,000	10/50
03838	Fine	152	6	4,500 - 5,800	10/50
03845	Medium	152	6	4,500 - 5,800	10/50
03834	Coarse	152	6	4,500 - 5,800	10/50
03836	Fine	178	7	3,000 - 6,000	10/30
03835	Medium	178	7	3,000 - 6,000	10/30
03828	Coarse	178	7	3,000 - 6,000	10/30
03830	Fine	203	8	2,500 a 5,000	10/30
03837	Medium	203	8	2,500 a 5,000	10/30
03843	Coarse	203	8	2,500 a 5,000	10/30

CONTACT DISCS
L-21 PRODUCT
Simplified grading

Code	Grading	mm	Inches	RPM max.	Box / Pack
03898	Fine	127	5	5,000 - 7,000	10/50
03860	Medium	127	5	5,000 - 7,000	10/50
03820	Coarse	127	5	5,000 - 7,000	10/50
03913	Fine	152	6	4,500 - 5,800	10/50
03866	Medium	152	6	4,500 - 5,800	10/50
03821	Coarse	152	6	4,500 - 5,800	10/50
03917	Fine	178	7	3,000 - 6,000	10/30
03888	Medium	178	7	3,000 - 6,000	10/30
03822	Coarse	178	7	3,000 - 6,000	10/30
03938	Fine	203	8	2,500 a 5,000	10/30
03895	Medium	203	8	2,500 a 5,000	10/30
03840	Coarse	203	8	2,500 a 5,000	10/30



CONTACT DISCS

Cleaning and finishing

NON-WOVEN SURFACE PRODUCTS L-20 and L-21

Brown Maroon Blue line



Applications

- For flat and irregular surfaces cleaning, finishing and conditioning, mainly on stainless steel, carbon steel, aluminium, bronze and other Non ferrous metals.

Benefits

- Screw on system for fast change.
- Anti loading properties.
- Does not heat working pieces.

Properties

- Mounting system: screw on.

Characteristics

Product	Non woven nylon web, bonded to abrasive grain
Grit	Very Fine (blue); medium (maroon); coarse (brown)
Size	1 1/2", 2" and 3" in diameter
Types	L-20, flexible backing; L-21, rigid backing

Applications and use recommendations



Optimum



Functional



Metal



Lacquers and paints



Non ferrous metals



Wood



Screw on system

NOTE:

Used with screw on Pads (see Accessories section on page 158).



**CONTACT
DISC**
L-20 PRODUCT
Simplified grading

Code	Grading	Diameter mm	Inches	RPM max.	Box	Pack
04055	Fine	38	1 1/2	12,000-20,000	500	50
04051	Medium	38	1 1/2	12,000-20,000	500	50
04059	Coarse	38	1 1/2	12,000-20,000	500	50
04049	Fine	51	2	12,000-20,000	500	50
04046	Medium	51	2	12,000-20,000	500	50
04048	Coarse	51	2	12,000-20,000	500	50
04050	Fine	76	3	12,000-20,000	250	25
04054	Medium	76	3	12,000-20,000	250	25
04052	Coarse	76	3	12,000-20,000	250	25

**CONTACT
DISC**
L-21 PRODUCT
Simplified grading

Code	Grading	Diameter mm	Inches	RPM max.	Box	Pack
03752	Fine	38	1 1/2	12,000-20,000	1000	100
03703	Medium	38	1 1/2	12,000-20,000	1000	100
03663	Coarse	38	1 1/2	12,000-20,000	1000	100
03753*	Fine	51	2	12,000-20,000	500	50
03714*	Medium	51	2	12,000-20,000	500	50
03664*	Coarse	51	2	12,000-20,000	500	50
03791*	Fine	76	3	12,000-20,000	250	25
03748*	Medium	76	3	12,000-20,000	250	25
03685*	Coarse	76	3	12,000-20,000	250	25

SURFACE CONDITIONING BELTS

Cleaning and finishing

NON-WOVEN SURFACE PRODUCTS L-20 and L-21

Brown / Maroon / Blue line

Applications

- Used for cleaning, finishing and conditioning flat or irregular surfaces, mainly with portable and stationary belt sanders.
- Provides excellent results on stainless steel, carbon steel, aluminium, bronze and other non ferrous metals.
- Used for edge cleaning in glass industry, and for plastic parts in the auto parts industry.

Benefits

- Available in wide variety of widths and lengths to fulfill your specific needs.
- Due to its open coat facilitates air circulation and dissipate heat from work.
- Removes corrosion, old paint coats, varnish and coatings without altering the shape of the substrate.
- Designed to meet with most demanding ranges of toughness and for reducing the chance to mark surfaces.
- Produce surfaces with uniform scratch patterns, resulting on great finishes.
- Belts are made to order.



TECHNICAL TIP:

For choosing the optimum type, define the substrate and final finishing desired.

If finishing is most important, use a more flexible product (L-20); if performance is the most important, use L-21 product.

Characteristics

Product	Non woven nylon web, bonded to abrasive grain.
Grit	Simplified grading: Very Fine (blue); medium (maroon); coarse (brown).
Size	1/2" x 18", 1/2" x 21", 1/2" x 24", 3/4" x 18", 3/4" x 18", 2" x 18", 3 1/2" x 15 1/2", 6" x 48"
Types	L-20, flexible backing; L-21, rigid backing



Open coat

Applications and use recommendations

 Optimum



Belt sander



Portable belt sander

NOTE:

For prices and availability ask your sales consultant.



SURFACE CONDITIONING BELTS

L-21 Product Availability

Width x Develop Inches	Width x Develop mm	Dimensions			Codes and degrees available	
		Fine/Blue	Medium/Maroon	Thick/Coffee	Piece/Box	
1/2 x 18	13 x 457	11824			50	
1/2 x 18	13 x 457		21727		50	
1/2 x 20 1/2	13 x 521		15373		50/5	
1/2 x 20 1/2	13 x 521			15374	50/2	
1/2 x 24	13 x 610	10084			50/5	
1/2 x 24	13 x 610		18902		50/5	
3/4 x 18	19 x 457	19865			50/5	
3/4 x 18	19 x 457		15452		50/5	
3/4 x 18	19 x 457			13201	50/2	
3 1/2 x 15 1/2	89 x 394	20808			10/5	
3 1/2 x 15 1/2	89 x 394		20809		10/5	
3 1/2 x 15 1/2	89 x 394			20810	10/2	
6 x 48	152 x 1,220		22312		5	
6 x 48	152 x 1,220	22313			5	

SURFACE CONDITIONING BELTS

L-20 Product Availability

Width x Develop Inches	Width x Develop mm	Dimensions			Codes and degrees available	
		Fine/Blue	Medium/Maroon	Brown/Coarse	Piece/Box	
2 x 17 1/2	51 x 445				17610	20

SURFACE CONDITIONING BELTS

L-21 Product Other widths Available

Width mm	Inches	Brown/Coarse	Maroon/Medium	Fine/Blue
6	1/4	●	●	●
13	1/2	●	●	●
19	3/4	●	●	●
25	1	●	●	●
51	2	●	●	●
64	2 1/2	●	●	●
76	3	●	●	●
101	4	●	●	●
152	6	●	●	●
305	12	●	●	●
457	18	●	●	●
610	24	●	●	●
762	30	●	●	●



CONVOLUTE WHEELS

Cleaning/finishing
NON-WOVEN SURFACE PRODUCTS L-10

Beige / Blue / Maroon / Gray lines

Applications

- Satin type finishing and several materials polishing (steel, stainless steel and non ferrous metals, aluminium, brass, antimony, etc.).

Benefits

- High performance compared to other finishing wheels.

Properties

- Its three dimensional abrasives remove small amounts of substrate preserving its original shape.
- Recommended for fine to intermediate fine finishing.



TECHNICAL TIP:

Recommended for fine finishing.

Characteristics

- Product
- Wrapping non woven web material impregnated with abrasive around a center core and bonded to layers creating a dense construction, abrasive wheel.
- Grit
- Simplified grading fine, medium and coarse.
- Size
- 6" x 1/2" x 1"; 6" x 1" x 1"; 6" x 2" x 1"; 8" x 1" x 3"; 8" x 2" x 3"; 12" x 1/2" x 5"; 12" x 1" x 5"; 12" x 2" x 5", and 14" x 2" x 8"

Applications and use recommendations

Optimum Functional



NOTE:

Fiber: nylon; mineral: aluminium oxide and silicon carbide; for package and box pieces see table attached.
EV wheels are manufactured from 6" in diameter and with a minimum thickness of 1/2".



**CONVOLUTE
WHEELS**
**L-10 Product
EV**

**CONVOLUTE
WHEELS**
**L-10 product
FC**

**Densities/
Application
ratio**

Code	Grading	mm	Inches	Applications	Box/Pack
11029	7a Medium	152x25x25	6" x 1" x 1"	Satin and Polished	2/1
23575	2s Coarse	152x13x25	6" x 2" x1"	Finished Metallic	2/1
16425	5a Fine	203x25x76	8" x 1" x 3"	Satin and Polished	1
16304	5a Fine	203x51x76	8" x 2" x3"	Satin and Polished	1
18695	5a Medium	305x51x127	12" x 2" x 5"	Finished Metallic	1

Code	Grading	mm	Inches	Applications	Box/Pack
01521	5a Fine	25 x 25 x 5	1 x 1 x 3/16	Satin and Polished	1/1
01580	7a Medium	25 x 25 x 5	1 x 1 x 3/16	Satin and Polished	1/1
01528	5a Fine	76 x 6 x 6	3 x 1/4 x 1/4	Satin and Polished	1/1
01531	7a Medium	76 x 6 x 6	3 x 1/4 x 1/4	Satin and Polished	20/1
01529	5a Fine	152 x 25 x 25	6 x 1 x 1	Satin and Polished	1/1
01583	7a Medium	152 x 25 x 25	6 x 1 x 1	Satin and Polished	1/1

Requirements of application	Density		
	2-3	4-6	7 or more
Aggressiveness	Down	Medium	Up
Resistance	Down	Medium	Up
Flexibility	Up	Medium	Down
Finished	Superfine	Fine	Medium



UNITIZED WHEELS

Cleaning and finishing
NON-WOVEN SURFACE PRODUCTS L-11

Beige Yellow Gray lines



Applications

- Used for steel, aluminium, and antimony auto parts.
- Used for aircraft industry precision calibration.
- Used in jewelry processes of shining, polishing and satin finish.
- For wood sealing, sanding and polishing.

Benefits

- High performance compared to other finishing wheels.

Properties

- Its three dimensional abrasives remove small amounts of substrate preserving its original shape.



TECHNICAL TIP:

EV wheels are recommended for fine finishing.

Characteristics

- Product Non woven
- Grit
- Size
- Compacted laminated non woven web material impregnated with abrasive wheels.
- Simplified grading fine, medium and coarse.
- 6" x 1/2" x 1"; 6" x 1" x 1"; 6" x 2" x 1"; 8" x 1" x 3"; 8" x 2" x 3"; 12" x 1/2" x 5"; 12" x 1" x 5"; 12" x 2" x 5", and 14" x 2" x 8"

Applications and use recommendations

Optimum Functional



NOTE:

Fiber: nylon; mineral: aluminium oxide and silicon carbide; for package and box pieces see table attached.
EC wheels are manufactured from 6" mm in diameter and with a minimum thickness of $\frac{1}{2}$ ".



**UNITIZED
WHEELS**
**L-11 Product
EV**

Code	Grading	mm	Inches	Applications	Box/Pack
11884	9s Fine	152 x 13 x 25	6 x 1/2 x 1	Deburing	4/1
11885	8s Fine	152 x 13 x 25	6 x 1/2 x 1	Deburing	4/1
11886	8a Medium	152 x 13 x 25	6 x 1/2 x 1	Deburing	4/1
11026	9s Fine	152 x 25 x 25	6 x 1 x 1	Deburing	4/3
11027	8s Fine	152 x 25 x 25	6 x 1 x 1	Deburing	4/1
11028	8a Medium	152 x 25 x 25	6 x 1 x 1	Deburing	4/1
23430	7s Fine	152 x 25 x 25	6 x 1 x 1	Deburing	4/1
17677	9s Fine	152 x 51 x 25	6 x 2 x 1	Deburing	2/1
11887	9s Fine	203 x 25 x 76	8 x 1 x 3	Deburing	4/1
11888	8s Fine	203 x 25 x 76	8 x 1 x 3	Deburing	2/1
11889	8a Medium	203 x 25 x 76	8 x 1 x 3	Deburing	4/1
11890	9s Fine	203 x 51 x 76	8 x 2 x 3	Deburing	2/1
11891	8s Fine	203 x 51 x 76	8 x 2 x 3	Deburing	2/1
11892	8a Medium	203 x 51 x 76	8 x 2 x 3	Deburing	2/1
22782	8s Fine	305 x 13 x 127	12 x 1/2 x 5	Deburing	2/1
11893	9s Fine	305 x 25 x 127	12 x 1 x 5	Deburing	1/1
11897	8s Fine	305 x 25 x 127	12 x 1 x 5	Deburing	1/1
11898	8a Medium	305 x 25 x 127	12 x 1 x 5	Deburing	1/1
11899	8s Fine	305 x 51 x 127	12 x 2 x 5	Deburing	1/1
23418	8a Medium	356 x 51 x 203	14 x 2 x 8	Deburing	1/1

**UNITIZED
WHEELS**
**L-11 Product
FC**

Code	Grading	mm	Inches	Applications	Box/Pack
01584	2a Medium	25 x 25 x 5	1 x 1 x 3/16	Deburing	1/1
01591	2s Fine	25 x 25 x 5	1 x 1 x 3/16	Deburing	1/1
01589	2a Medium	76 x 6 x 6	3 x 1/4 x 1/4	Deburing	1/1
01594	2s Fine	76 x 6 x 6	3 x 1/4 x 1/4	Deburing	1/1
01590	2a Medium	152 x 25 x 25	6 x 1 x 1	Deburing	1/1
01595	2s Fine	152 x 25 x 25	6 x 1 x 1	Deburing	1/1
23443	4s Fine	51 x 25 x 6	2 x 1 x 1/4	Deburing	/1 Pza.
25235	4s Fine	25 x 25 x 5	1 x 1 x 3/16	Deburing	/1 Pza.

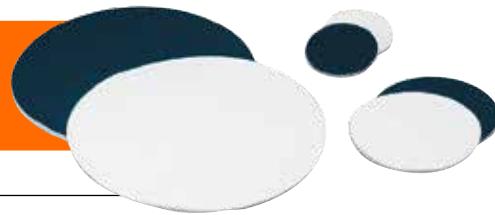
**Densities/
Application
ratio**

Requirements of application	Density		
	2-3	4-6	7 or more
Aggressiveness	Down	Medium	Up
Resistance	Down	Medium	Up
Flexibility	Up	Medium	Down
Finished	Superfine	Fine	Medium



POLISHING DISCS

Finishing
NON-WOVEN SURFACE PRODUCTS L-00



White line

Applications

- Mirror polishing of several metals: steel, stainless steel, non ferrous metals aluminium, brass, etc. used with polishing compounds.
- Used for plastics and fiberglass polishing.

Benefits

- Discs available for specific polishing jobs with process portable or stationary machines.
- Several sizes.
- When clogging, it can be washed and reused.
- For excellent quality finishing.

Properties

- Mounting system: Kwik Grip®



TECHNICAL TIP:

Use discs when using a portable machine and belts when a stationary machine is used.

Characteristics

➤ Product	➤ Felt
➤ Grit	➤ Non abrasive
➤ Size	➤ 5", 6", 7", 8", and 7" x 7/8" in diameter
➤ Backing	➤ Polyester

Applications and use recommendations

 Optimum



Double action orbital sanders

POLISHING DISCS L-00 Product

Code	mm	Inches	RPM	Box
15312	178	7	1,500 a 2,000	30
12366	178 x 22	7 x 7/8	1,500 a 2,000	30
14941	127	5	1,500 a 2,000	30
15626	152	6	1,500 a 2,000	30
15628	203	8	1,500 a 2,000	30

NOTE:

For available sizes, prices and availability consult your sales representative.



POLISHING BELTS

Finishing
NON-WOVEN SURFACE PRODUCTS L-00

White line

Applications

- Mirror polishing of metals: steel, stainless steel, non ferrous metals aluminium, brass, etc; used with polishing compounds.
- Used for plastics and fiberglass polishing.

Benefits

- Belts available for specific polishing jobs with portable or stationary sanders.
- Several sizes.
- When clogging, it can be washed and reused.
- For excellent quality finishing.



TECHNICAL TIP:

Use doscs for a portable machine and belts for stationary sander.

Characteristics

➤ Product	➤ Felt
➤ Grit	➤ Non abrasive
➤ Size	➤ 1/2" x 18", 1/2" x 21", 1/2" x 24", 3/4" x 18", 2" x 18", 3 1/2" x 15 1/2", and 6" x 48"
➤ Backing	➤ Polyester

Applications and use recommendations



Optimum



Belt Sanders

NOTE:

For available sizes, prices and availability consult your sales representative.

**POLISHING
BELTS**
L-00 Product

Code	mm	Inches	RPM	Box
16610	152 x 1220	6 x 48	■	5
11382	101 x 1067	4 x 42	■	10

Width belts

mm	Inches
19	3/4
25	1
38	1 1/2
51	2
64	2 1/2
76	3
89	3 1/2
101	4
127	5
152	6
178	7
203	8
229	9
254	10
305	12
381	15
457	18
533	21
610	24
762	30
914	36
1067	42
1220	48
1346	53

NON-WOVEN

FANDEL

DISCS

SHEE

FANDELI®



Coated Abrasives

› HOME CENTER

GENERAL CATALOG

SHEETS KIT <

DISCS KIT <

PLUMBER ROLLS KIT <

PORTABLE BELTS KIT <



› Fábrica Nacional de Lija S.A. de C.V.

www.fandeli.com.mx 



SHEETS KIT WATERPROOF PAPER, WOOD AND METAL SANDPAPER

Water proofpaper applications

- Used for wet or dry finishing applications, for painted surfaces, laquers and primers.

Wood sandpaper applications

- Use for dry sanding finishing applications wood surfaces, cabinet shops painted surfaces.

Metal sandpaper applications

- Used for metal cleaning rust removal and imperfections.

Description	Code	Grading	mm	Inches	Box	Pack
5 sheets kit A-99 and C-99 multi-grade waterproof paper	26046	320 220 180 C-99	230 x 280	9 x 11	50	2 2 1
5 sheets kit K-61 multi-grade paper	26052	FINE MEDIUM COARSE	230 x 280	9 x 11	50	2 2 1
3 sheets kit J-73 multi-grade cloth	26056	FINE MEDIUM COARSE	230 x 280	9 x 11	50	1 1

SHEETS KIT 1/3 SHEET A090

Application

- Used for dry sanding on coatings plastics and fiberglass.

Description	Code	Grading	mm	Inches	Box	Pack
Kit for 1/3 sheet, several grit	22836	80 100 150	93 x 230	3 2/3 x 9	50	2
Kit for 1/3 sheet, fine grit	22837	150	93 x 230	3 2/3 x 9	50	6
Kit for 1/3 sheet, coarse grit	22838	80	93 x 230	3 2/3 x 9	50	6
Kit for 1/3 sheet, medium grit	22839	100	93 x 230	3 2/3 x 9	50	6

SHEETS KIT 1/4 SHEET A090

Application

- Used for dry sanding on coatings plastics and fiberglass.

Description	Code	Grading	mm	Inches	Box	Pack
Kit for 1/4 sheet, several grit	22840	80 100 150	115 x 140	4 1/2 x 5 1/2	50	3
Kit for 1/4 sheet, fine grit	22841	150	115 x 140	4 1/2 x 5 1/2	50	8
Kit for 1/4 sheet, coarse grit	22842	80	115 x 140	4 1/2 x 5 1/2	50	8
Kit for 1/4 sheet, medium grit	22843	100	115 x 140	4 1/2 x 5 1/2	50	8





ABRASIVE DISCS KIT DISCS A080

Application

- Any type of wood, ferrous metals and coatings.

Description	Code	Grading	mm	Inches	Box	Pack
Kit of Kwik Grip® discs, several grits	22610	P100	127	5	50	1
		P150	127	5	50	1
		P220	127	5	50	1
		P320	127	5	50	1
		P400	127	5	50	1
Kit of Kwik Grip® discs, medium grit	22612	P120	127	5	50	5
Kit of Kwik Grip® discs, fine grit	22613	P180	127	5	50	5
Kit of Kwik Grip® discs, coarse grit	22611	P80	127	5	50	5

PLUMBER ROLL KIT (5 MTS.) PLUMBER ROLL J-74

Application

- Used for plumber professional jobs and for cleaning in metalworking industry.



Description	Code	Grading	mm	Inches	Box	Pack
Plumber roll	25468	120	68 x 500	2"	1	26



POTABLE BELTS KIT

Y-88, R-88, X-88, and X088

Application

► Metals.

Description	Code	Grading	mm	Inches	Box	Pack
Belts kit, several grits	22820	60	76 X 457	3 X 18	20	2
		80	76 X 457	3 X 18	20	2
		120	76 X 457	3 X 18	20	1
Belts kit, several grits	22830	60	76 x 610	3 X 24	20	2
		80	76 x 610	3 X 24	20	2
		120	76 x 610	3 X 24	20	1

POTABLE BELTS R-88

Description	Code	Grading	mm	Inches	Box	Pack
Belts kit, several grits	22825	40 Y-88	76 X 457	3 X 21	20	2
		60	76 X 457	3 X 18	20	1
		100	76 X 457	3 X 18	20	2

POTABLE BELTS Y-88 y R-88

Description	Code	Grading	mm	Inches	Box	Pack
Belts kit, fine grit	22821	120	76 X 457	3 X 18	20	5
Belts kit, medium grit	22823	80	76 X 457	3 X 18	20	5
Belts kit, coarse grit	22822	60	76 X 457	3 X 18	20	5
Belts kit, several grits	22824	60	76 X 457	3 X 18	20	2
		80	76 X 457	3 X 18	20	2
		120	76 X 457	3 X 18	20	1
Belts kit, fine grit	22826	120	76 x 533	3 X 21	20	5
Belts kit, medium grit	22828	80	76 x 533	3 X 21	20	5
Belts kit, coarse grit	22827	60	76 x 533	3 X 21	20	5
Belts kit, fine grit	22831	120	76 x 610	3 X 21	20	5
Belts kit, medium grit	22833	80	76 x 610	3 X 24	20	5
Belts kit, coarse grit	22832	60	76 x 610	3 X 21	20	5
Belts kit, several grits	22834	60	76 x 610	3 X 24	20	2
		80	76 x 610	3 X 24	20	2
		120	76 x 610	3 X 24	20	1

POTABLE BELTS X-88

Description	Code	Grading	mm	Inches	Box	Pack
Belts kit, several grits	22829	40	76 x 533	3 X 21	20	2
		60	76 x 533	3 X 21	20	2
		100	76 x 533	3 X 21	20	1

Application

► Any kind of wood.

FANDELI®



Coated Abrasives

› FANDELI AUTOMOTIVE



GENERAL CATALOG

AUTOMOTIVE POLISHING <

COMPOUND

AUTO PAINT GLAZE <

LIQUID WAX <

DOUBLE FACE WOOL PADS <

FOAM PADS <

MICROFIBER CLOTH <





AUTOMOTIVE POLISHING COMPOUND PROFESSIONAL PRODUCTS

Applications

- Easy to apply, unique and high tech "micro abrasive" system.
- Ideal for removing micro sanding scratches, water spots dust nibs and orange peel appearance.
- Provides high shine and excellent look on car paints and clears.

Instructions

- Apply on clean surfaces.
- Work on small areas spread uniformly before buffing.
- Buff with adequate pressure.
- Clear pad regularly.
- Remove splatters with a damp micro micro fiber cloth.

Professional line



TECHNICAL TIP:

Do not apply in direct sunlight or onto a hot surface.

Characteristics

- Silicone and wax free.
- Micro-abrasive system.



NOTES:

Shake well before use and wear face and eyes safety protection while working.

Flammable avoid heat or fire exposure

Applications and use recommendations



Paints, Lacquers and clear coats

Code	ml/L	Box
29288	946 ml	12
29287	3.785 L	4

DOUBLE FACE WOOL PAD PROFESSIONAL PRODUCTS

Applications

- Used for removing sanding scratches.



Characteristics

- Wool cutting pad.
- Both sides of the pad to be used
- Excellent for hard paints and clears.
- Thicker, denser, more durable.

Code	mm	Inches	Box
29475	20.3	8"	5



AUTO PAINT GLAZE PROFESSIONAL PRODUCTS

Applications

- Produces a high-gloss, swirl-free finish for every color.
- It can be safely used with all kinds of automotive paints.
- Removes, swirl marks and micro paint defects.

Instructions:

- Apply enough glaze on clean surfaces to polish a small area. Spread uniformly before butting.
- Buff surface with medium to low pressure with a FANDELI FOAM pad to obtain desire gloss.
- Remove excesses with a FANDELI Automotive Microfiber Cloth, and clean for a greater finish.

Professional line



TECHNICAL TIP:

Do not apply in direct sunlight or onto a hot surface.

Characteristics

- Silicone and wax free.
- Superior shine and luster.
- Easy clean up.
- Microfinishing compound products for use on base coat and clear systems.



Right



Wrong



Use hand protection



Use safety protection

Applications and use recommendations



Paints, Lacquers
and clear coats

Code	ml/L	Box
29290	946 ml	12
29289	3.785 L	12

NOTES:

Shake well before use and wear face and eyes safety protection when working.

Flammable avoid heat or fire exposure

FOAM PAD PROFESSIONAL PRODUCTS

Applications

- Provides a final high gloss buffing after wool pad polishing.
- Enhances polish performance.
- Reduces surface tension allowing operator to run pad flat on wording surfaces.
- Reduce friction.
- Out performs other pad designs.



Characteristics

- Special foam design for polishing.

Code	mm	Inches	Box
29476	19.05	7 1/2"	6



LIQUID WAX PROFESSIONAL PRODUCTS

Applications

- Exclusive product car finishign.
- Ideal to be applied after a car final buffin or after a car wasching.
- Ideal for final bright finishing.
- Used as a last step in car painting an clear to provide protection with
- high bright.

Instructions

- Spray it over working surface and uniformly spread it with a FANDELI microfiber cloth, once the entire surface is done, clean with a dry microfiber cloth.

Professional line



TECHNICAL TIP:

For better results clean always the surface before applying and work under the shade.

Characteristics

- Waterproof.
- Deep-luster and high-gloss.
- Long lasting paint protection.



Use hand protection



Use safety protection

NOTE:

Shake well before use and wear face and eyes safety protection while working.

MICROFIBER CLOTH PROFESSIONAL PRODUCTS



Applications

- Ultra fine fiber absorbent prmium cloth to clean super fine finishes using minimum pressure.
- Repaid removal of dust, oil and finger prints.
- Proper to spread liquid max.

Applications and use recommendations



Paints, Lacquers
and clear coats

Code	ml/L	Box
29310	650 ml	12
29291	3.785 L	4

Characteristics

- Non-linting cloth to be used in delicate cleaning or polishing, applying FANDELI glaze easier.

Code	mm	Inches	Box
29447	413 x 413	16 1/4	20

FANDEL

Coated Abrasives

► SANDING ACCESSORIES

GENERAL CATALOG

- [NEW RIGID DISC BACK UP PADS](#) 
- [CONTACT DISC BACK UP PADS](#) 
- [CONTACT DISC INTERFACE PADS](#) 
- [DISC BACK UP PADS](#) 
- [CARTRIDGE ROLL MANDRELS](#) 
- [SANDING DROTH PADS AND SLEEVES](#) 
- [BODY FILE BOARDS](#) 
- [POWER MANDREL PADS](#) 





RESIN FIBER DISC BACK UP PADS RIGID RUBBER

Applications

- Rigid rubber back up pads are recommended in conjunction with resin fiber discs weld removal, grinding and blending. Excellent performance in demanding operations. Used for safer jobs, back up pads provide effective application of Universal G-88 and Professional G-18 resin fiber discs, with electric or pneumatic angle grinders.
- Manufactured with high quality materials for a secure operation in demanding conditions.



Code	Description	mm	Inches	Box	Pack
21117	Rubber (medium) flexibility with wrench and hub	127 x 16	5 x 5 / 8	1	1
02023	Rubber (medium) with key flexibility with wrench and hub	178 x 22	7 x 7 / 8	1	1

RESIN FIBER DISC PHENOLIC BACK UP PADS PHENOLIC REINFORCED

Applications

- Phenolic back up pads are recommended for precision grinding. They are the ideal accessories for sanding and finishing operations with Universal G-88 and Professional G-18 resin fiber discs on electrical or pneumatic angle grinders.



Code	mm	Inches	Box	Pack
04953	146 x 22	5 3/4 x 7/8	1	1
04942	178 x 22	7 x 7/8	1	1



DISC BACK UP PADS PSA

Applications

- PSA Back up pads for discs are recommended for sanding, finishing and polishing with orbital machines.
- Form and density optimize disc performance.
- Compatible with PSA Discs with holes or without vacuum holes .

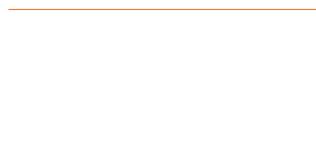


Code	mm/Inches	No Holes	Holes	Box	Pack
02028	127/5	■		1	1
10232	127/5		5	1	1
02053	152/6	■		1	1
02054	152/6		6	1	1

CONTACT DISC BACK UP PADS Kwik Grip®

Applications

- Kwik Grip® Back up pad is a device for discs recommended for grinding, finishing and polishing of curved and irregular surfaces. Allows more uniform contact with working surfaces and better finishes.
- It is compatible with Kwik Grip® discs, with or without vacuum holes.



Code	mm/Inches	No Holes	Holes	Box	Pack
02133	127/5	■		1	1
02146	127/5		5	1	1
02196	152/6	■		1	1
02197	152/6		6	1	1

INTERFACE DISC PADS

Applications

- Interface pad is a device for Kwik Grip® back up pads disc for sanding, finishing and polishing operations of curved and irregular surfaces. It allows more uniform contact with working surfaces and better finishing, a smoother contact with Kwik Grip® discs and a finer finish in flat surfaces. It is compatible with Kwik Grip® discs, either with or without vacuum holes.



Code	mm/Inches	No Holes	Holes	Box	Pack
02541	127/5		■	1	1
02457	127/5	■		1	1
02586	152/6		■	1	1
02483	152/6	■		1	1



DISC BACK UP PADS MANUAL OPERATION

Applications

► Ideal device for hand sanding contact disc, it allows a smooth pressure over working surfaces for more uniform contact and better results than direct hand sanding. Round foamed back up pads provide an excellent application on curved surfaces.

TECHNICAL TIP:

To extend the life of the disc up to 50% and have better performance use proper back up pads.



	Code	mm/Inches	PSA	Kwik Grip	Box	Pack
	02624	127/5	■		1	1
	02611	127/5		■	1	1
	02628	152/6	■		1	1
	02612	152/6		■	1	1

CONDITIONING DISC BACK UP PADS L-20 and L-21



Applications

► Back up pad with hooks for fastening non woven discs during sanding and polishing operations, of flat curved and irregular surfaces. Allows a more uniform contact with the working surface and better finishing. Improves material cost efficiency and body shop productivity.
► Fast and clean removal.
►

	Code	mm	Inches	Pack
	20653	127	5	1
	20652	152	6	1
	20651	178	7	1
	20650	203	8	1



CARTRIDGE ROLL MANDRELS



Applications

- Secure option since its inverted thread does not allow the cartridge roll to loosen or come off; therefore safe operation. Mandrels are the solution for cartridge rolls in electric or pneumatic portable tools. Manufactured in carbon steel.

Code	mm	Inches	Pack
03515	6.4	1/4	1
03517	6.4	1/4	1
03514	6.4	1/4	1

SANDING DRUM PADS



Applications

- Used for abrasive spiral bands in electric and pneumatic portable grinders. Manufactured with high quality components. Rubber and steel components are the perfect solution for spiral bands in all sorts of sanding operations. Available in 1" and 1 3/16" diameter sizes for spiral bands.

Code	mm	Inches	Pack
02276	25 x 25	1 x 1	1
02365	30 x 30	1 3/16 x 1 3/16	1

SANDING DRUM SLEEVES



Applications

- This support is ideal for abrasive and surface conditioning sleeves, for sanding wood or metal.
- Adjustable pressure on the rubber drum. Allows different sanding finishes with the same sleeve. It can be used in a low speed powertool or stationary bench sander.



Screw on system

Code	rpm max.	Inches	Pack
10280	3500	5 x 3 1/2 x 15 1/2	1
10284	7000	3 1/4 x 3 x 10 11/16	1
10311	N/A	1/4 x 5/8 11 hilos	1



BODY FILE BOARDS

Applications

- Manual file sanding boards available with Kwik Grip® hook support, PSA and clips mounted at each end, securely hold. Light weight rugged wood support resistant to humidity with a stainless steel sheet, and a cushioned surface, allowing a flat surface sanding operation.
- Ideal for sanding and filling of auto body plastic fillers in paint shops.



Code	mm	Inches	Kwik Grip	Clip	Pack
20655	70 x 400	2 3/4 x 15 3/4	■	■	1
20656	70 x 400	2 3/4 x 15 3/4	■	■	1

FINGER MINI DRUM PADS L-20 and L-21

Applications

- Excellent solution for manual detailing on small surfaces in sanding operations and paint setting. Used with Kwik Grip® and PSA discs.



Code	mm	Inches	Kwik Grip	Clip	Pack
03502	32	1 1/4	■	■	1
03504	32	1 1/4	■	■	1



QUIK CHANGE DISC BACK UP PADS



Applications

- Quick change back up pads with screw-on (TF) and twist & lock (GF) systems are an ideal tool for a safe fine grinding operation.
- Manufactured with high quality components for longer useful life.
- Adaptable to electrical or pneumatic grinders with $\frac{1}{4}$ " arbor.



Description	Diameter	Diameter	Diameter	Diameter	Diameter	Pack
	19 mm/3/4"	25 mm/1"	38 mm/1 1/2"	51 mm/2"	76 mm/3"	
Support GF	02098	02097	02102	02092	02060	1
Support TF		03523	02667	03525		1

DISCS CONDITIONING HOLDER



Applications

- Disc holder ideal to use with non woven discs (L-22, L-92) and abrasive stars, holds more than one disc in tools such as drills and low speed portable grinders, either electric or pneumatic. Safe option since reverse thread does not allow disc to loosen or come off. Manufactured in resistant carbon steel.

Code	mm	Inches	Pack
20654	13 x 6.4	1/2 x 1/4	1

PRODUCT LINE

Line	Backing	Mineral	Coating	Graduations Available																
				OTHER	2000	1500	1200	1000	800	600	500	400	360	320	280	240	220	180	150	
A080*	Lube paper	ALO Premium	open coat						P	P	P	P	P	P	P	P	P	P	P	
A090*	B Wt Lube paper	SIC	open coat										A	A	A	A	A	A	A	
A-99	Waterproof paper	SIC	closed coat						A	A	A	A	A	A	A					
BO80*	Lube paper	ALO Premium	open coat	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
B-99	Waterproof paper	SIC	closed coat	J	J	J	J													
C081	Cabinet paper	ALO	open coat										A	A	A	A	A	A	A	
C-99	Waterproof paper	SIC	closed coat																	
D080*	D Wt Lube paper	ALO Premium	open coat																P	P
D081	Cabinet paper	ALO	open coat																	A
D091	Cabinet paper	SIC	open coat																A	A
E-63	E Wt Paper	White ALO	closed coat																A	A
E080*	E Wt Lube paper	ALO Premium	open coat																	P
E088	E Wt paper	ALO Premium	open coat										P	P	P	P	P	P	P	P
E-83	E Wt paper	ALO	closed coat										A	A	A	A	A	A	A	A
E-93	E Wt paper	SIC	closed coat										A	A	A	A				
E-96	E Wt paper	SIC	closed coat																A	A
F084 [○]	F Wt paper	ALO Premium	open coat															P	P	P
G-18	Vulcanized fibre	ZIRC	closed coat																	A
G-88	Vulcanized fibre	ALO Premium	closed coat																A	A
J-73	Emery cloth	ALO	closed coat																F	M
J-86	J Wt Cotton cloth	ALO	closed coat										A	A	A	A	A	A	A	A
JF87	J Wt Cotton cloth	ALO	closed coat										P	P	P	P	P	P	P	P
JF88**	J Wt Flexible cloth	ALO Premium	closed coat										P	P	P	P	P	P	P	P
K-61	Kraft paper	White ALO	closed coat															EF	F	A
N-72	N Wt Cotton Cloth	crocus	closed coat	F																
R013	X Wt Polycotton cloth	ALO/ZIRC	open coat																P	P
R-13	X Wt Polycotton cloth	ALO/ZIRC	closed coat																P	P
R-88	X Wt Polycotton cloth	ALO Premium	closed coat										P	P	P	P	P	P	P	P
R-98	X Wt Polycotton cloth	SIC	closed coat										A	A	A	A	A	A	A	A
S-18	Y Wt Polyester cloth	ZIRC	closed coat															A	A	A
S-19**	Y Wt Polyester cloth	ZIRC	closed coat															A	A	A
S-20**	Y Wt Polyester cloth	Ceramic	closed coat															A	A	A
S-98	Y Wt Polyester cloth	SIC	closed coat															P	P	P
S-99 [○]	S Wt Polyester cloth	SIC	closed coat															A	A	A
W-88	W Wt Waterproof cloth	ALO Premium	closed coat										A	A	A	A	A	A	A	A
W-98	W Wt Waterproof cloth	SIC	closed coat										A	A	A	A	A	A	A	A
X088	X Wt Cotton cloth	ALO Premium	open coat															A	A	A
X-86	X Wt Cotton cloth	ALO	closed coat															A	A	A
XR88	Heavy drill Cotton cloth	ALO Premium	closed coat										P	P	P	P	P	P	P	P
X-88	X Wt Cotton cloth	ALO Premium	closed coat										A	A	A	A	A	A	A	A
XL88	X Wt Cotton cloth	ALO Premium	closed coat															P	P	P
X-91	X Wt Cotton cloth	SIC	closed coat															A	A	A
X-98	X Wt Cotton cloth	SIC	closed coat															A	A	A
Y088	Y Wt Polycotton cloth	ALO Premium	open coat															P	P	P
Y-88	Y Wt Polycotton cloth	ALO Premium	closed coat															A	A	A
Y-98	Y Wt Polycotton cloth	SIC	closed coat															A	A	A
Z096	Combination	SIC	open coat																	
ZF98	H Wt Paper	SIC	open coat																	

* Drylabe
** Grinding Aid

1 Customer made only

[○] Antistatic

P = FEPA
EG = Extra grueso J = JIS
A = ANSI

								Final Forms		Applications						Jumbos						
								SHEETS	DISCS	ROLLS	BELTS	SPECIALTIES	WOOD	PLASTIC	METAL	LEATHER	GLASS	PAINT	NON FERROUS			
060	050	040	036	030	024	020	016	012	●	●	●	●	●	■	■	■	■	■	1.395	F/U	Resin / Resin	A080*
								●	●	●	●	●	●	■	■	■	■	■	1.395	F/U	Resin / Resin	A090*
								●	●	●	●	●	●	■	■	■	■	■	1.395	F/U	Resin / Resin	A-99
								●	●	●	●	●	●	■	■	■	■	■	1.395	F	Resin / Resin	B080*
								●	●	●	●	●	●	■	■	■	■	■	1.395	F	Resin / Resin	B-99
								●	●	●	●	●	●	■	■	■	■	■	1.17	F/U	Resin / Glue	C081
A								●	●	●	●	●	●	■	■	■	■	■	1.395	F/U	Resin / Resin	C-99
A A A A								●	●	●	●	●	●	■	■	■	■	■	1.17	U	Resin / Resin	D080*
A' A'								●	●	●	●	●	●	■	■	■	■	■	1.17	F	Resin / Glue	D081
P P P P								●	●	●	●	●	●	■	■	■	■	■	1.41	U	Resin / Resin	E080*
P P P								●	●	●	●	●	●	■	■	■	■	■	1.41	F	Resin / Resin	E088
A A								●	●	●	●	●	●	■	■	■	■	■	1.27 § 1.41	F	Resin / Glue	E-83
								●	●	●	●	●	●	■	■	■	■	■	1.27 § 1.41	F	Resin / Glue	E-93
A A A A A A A'								●	●	●	●	●	●	■	■	■	■	■	1.27	F/U	Resin / Glue	E-96
P'								●	●	●	●	●	●	■	■	■	■	■	1.41	U	Resin / Resin	F084°
A A A A A A A'								●	●	●	●	●	●	■	■	■	■	■	1.17	U	Resin / Resin	G-18
A A A A A A A								●	●	●	●	●	●	■	■	■	■	■	0.85 § 1.17	F	Resin / Resin	G-88
C XC								●	●	●	●	●	●	■	■	■	■	■	1.17	F	Resin / Resin	J-73
P P P								●	●	●	●	●	●	■	■	■	■	■	1.41	F/U	Resin / Resin	J-86
P								●	●	●	●	●	●	■	■	■	■	■	1.41	F	Resin / Resin	JF87
P								●	●	●	●	●	●	■	■	■	■	■	1.39	F	Resin / Resin	JF88**
C								●	●	●	●	●	●	■	■	■	■	■	1.17	F	Resin / Glue	K-61
P P P P P								●	●	●	●	●	●	■	■	■	■	■	1.17	U	Glue	N-72
P P P P P								●	●	●	●	●	●	■	■	■	■	■	1.40	U	Resin / Resin	R013
P P								●	●	●	●	●	●	■	■	■	■	■	1.40	U	Resin / Resin	R-13
								●	●	●	●	●	●	■	■	■	■	■	1.40	F/U	Resin / Resin	R-88
								●	●	●	●	●	●	■	■	■	■	■	1.40	U	Resin / Resin	R-98
A A A A A								●	●	●	●	●	●	■	■	■	■	■	1.40	U	Resin / Resin	S-18
A A A A A A								●	●	●	●	●	●	■	■	■	■	■	1.40	U	Resin / Resin	S-19**
A A A A A A								●	●	●	●	●	●	■	■	■	■	■	1.40	F	Resin / Resin	S-20**
								●	●	●	●	●	●	■	■	■	■	■	1.40	U	Resin / Resin	S-98
A A A A A A								●	●	●	●	●	●	■	■	■	■	■	1.39	F	Resin / Resin	S-99°
								●	●	●	●	●	●	■	■	■	■	■	1.41	F	Resin / Resin	W-88
A A A								●	●	●	●	●	●	■	■	■	■	■	1.41	F	Resin / Resin	W-98
A A A A								●	●	●	●	●	●	■	■	■	■	■	1.41	F/U	Resin / Resin	X088
A A A A								●	●	●	●	●	●	■	■	■	■	■	1.41	F/U	Resin / Resin	X-86
P								●	●	●	●	●	●	■	■	■	■	■	1.41	F	Resin / Resin	XR88
A A A A A								●	●	●	●	●	●	■	■	■	■	■	1.41	F/U	Resin / Resin	X-88
P P								●	●	●	●	●	●	■	■	■	■	■	1.41	F	Resin / Resin	XL88
A'								●	●	●	●	●	●	■	■	■	■	■	1.32	F	Glue / Glue	X-91
A A A A A								●	●	●	●	●	●	■	■	■	■	■	1.41	F	Resin / Resin	X-98
P P P P P								●	●	●	●	●	●	■	■	■	■	■	1.40	U	Resin / Resin	Y088
P P P P								●	●	●	●	●	●	■	■	■	■	■	1.40	U	Resin / Resin	Y-88
A A A A A								●	●	●	●	●	●	■	■	■	■	■	1.40	U	Resin / Resin	Y-98
								●	●	●	●	●	●	■	■	■	■	■	1.27	U	Resin / Glue	Z096
A A A A A								●	●	●	●	●	●	■	■	■	■	■	1.27	F	Resin / Resin	ZF98

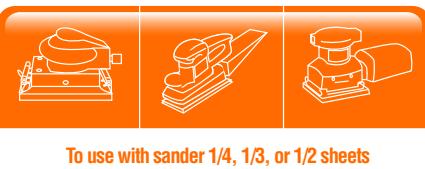
EF = Extra fino
M = Mediano

G = Grosso
F = Fino

F = Branded N = Unbranded



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