



v01 © Dorsan Filtration

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At Dorsan® we are passionate about creating filtration products, we love what we do and we put all our efforts into it. For this reason, our Company slogan, "Living Filtration", is not casual or insignificant. We intensely live and feel the processes of filtration.

"In laboratories and industries we are recognized for our high quality materials and high performance" Since Dorsan's birth, we have aspired to be **the market leader** in liquid filtration solutions. Our pursuit of excellence is the most motivating challenge for the progress of our company.

Quality raw materials to manufacture the most heterogeneous and optimal product lines of the market. From virgin celluloses and cottons for our filter papers and sheets, to microfiltration membranes in diverse materials such as PES, NY, PTFE or PVDF.

At present, we have production facilities in **France**, **Germany**, **India**, **Mexico** and **Spain**. Our vision is to have branches and commercial offices on all continents. Today, one of our greatest reasons for pride is to have **customers in 60 countries** that cover a vast geographical territory.

In this catalogue you will find the most common references that are used in international laboratories and industries. High quality consumables and filtration systems that help to obtain the best results in your manufacturing processes. Our range is adapted to current needs while our R&D department is planning new qualitative and differentiated solutions for the future. Other options for more specific and concrete applications are offered on request by contacting our usual contact addresses.

"Since 1998 we have worked to strengthen our range of products with a presence on the five continents"







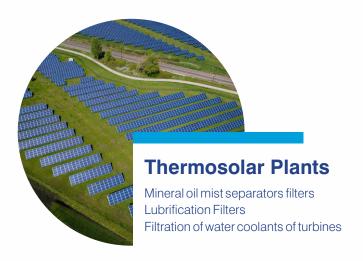
Filtration solutions for all industries















Pre-filtration and Clarification, Biotechnology Purification in R.O. systems, venting systems in fermentation and sterilization tanks, water in R.O. systems, filtration of syrups, eye drops, vaccinations



















Filter Cartridges Wounded

Dorsan® presents a wide range of high efficiency string wounded filter cartridges made with top quality materials. Its ease of use and low cost makes them the perfect choice prefilter for most industrial facilities.

Its design depth filter cartridge ensures progressive blinding and offering long filtration cycles.

The experience gained during several decades of production enable us to assure our customers excellent quality and regularity.

Avalaible in polypropylene yarn, cotton, polyester, fiberglass... and in standard diameter or BIG.

Features

- Wide range of lengths from 4" to 50"
- Porosities from 1 µm to 200 µm
- Great Chemical compatibility
- Diversity of fibers (Cotton, PP, PET,GF...)
- Single-use product
- Inner core PP or Stainless Steel 304- 316L

- Process Water (P.O.E.)
- Electroplating Baths
- Chemical Products
- Oils
- Petrochemicals
- Waste Water Treatements





Filter Cartridges Meltblown

Dorsan® presents a wide range of depth filters manufactured under meltblown technologies.

Avalaibles on PP or NYLON fibers. Its ease of use and low cost of ownership makes them ideal prefilter for most industrial facilities.

Its design depth filter cartridge ensures progressive plugging. Available in absolute retention or nominal.

Its special manufacturing accomplished by progressive layers of different porosity ensure high retention capacity of contaminants , high flow and prolonged use cycles.

Features

- Wide range of lengths 9 3/4" to 50"
- Porosities from 1 µm to 200 µm
- Great chemical compatibility
- Variety of configurations
- Single-use product
- Free of additives and resins for fixing fibers

- Process Water (P.O.E.)
- Electroplating Baths
- Chemical Products
- Oils
- Petrochemicals
- Waste Water Treatements





Filter Cartridge PP

Pleated Polypropylene

The pleated cartridge line by Dorsan® has been built with Polypropylene materials assembled using the latest technology in heat setting components.

Designed specifically for use in applications where it is necessary a nominal or absolute retention rating.

Our efficiency ratings ranging up to 99.98% (Beta 5000) in absolute filters and 90% in the nominal micron rating.

Its design depth filter cartridge ensures progressive plugging. The quality of our materials and our production techniques allow us to assure our customers excellent quality and regularity.

Features

- Wide range of lengths from 10" to 40"
- Porosities from 0,2 µm to 40 µm
- High Chemical resistance
- Single-use product
- Free of additives and resins for fixing fibers
- 100% Polypropylene Fibers

- Food & Beverages
- Reverse Osmosis (R.O.) prefilter
- Chemicals
- Water Filtration Process
- Petrochemicals
- · Waste water treatment
- Pharma- Bio pharma
- Api





Filter Cartridge PES

Pleated Polyethersulfone Food & Beverages

The line of cartridges PES (polyethersulfone) Dorsan ® has been manufactured with hydrophilic and asymmetric filter membranes. Manufactured following all the requirements of the FDA for the food industry.

The membrane of polyethersulfone (PES) has characteris-tics of a very low protein retention. For this reason, the DFBPES series is an excellent solution for applications in fermented beverages.

Each cartridge is examined one by one to assure the quality and their integrity. The process is performed with deionized water to ensure the lowest levels of extractables.

Our cartridges allow high flow rates and excellent particles retention capacity .

Features

- Lengths from 10" to 40"
- Range of porosities from 0.2 μm to 0.8 μm
- Stainless Steel ring for stronger resistance to steam sterilization
- Broad range of configurations
- Manufactured without glues or resins

- Wines
- Mineral Water
- Beers
- Fruit Juices
- Pharma- Bio pharma
- Api





Filter Cartridge PTFE

Pleated Filter Cartidge

Dorsan® PTFE filter cartridges provide optimized filtration performance in sterile air/gas and venting applications.

The high variety PTFE membrane, get a much better hydrophobicity than PP and PVDF filter cartidge. This product is the best choice to prevent water intrusion and resulting microbial growth.

Each PPTFE cartridge is integrity tested during manufacturing and is supported by a validation guide for regulatory compliance. PPTFE elements are fully validated as sterilizing grade filters in accordance with ASTM D6394 SP0112 guidelines.

Integrity Test Data*

Pore	Min. Bubble	Max.
Size µm	Point, 25ºC	Difussion, 25ºC
0.05	≥2.6 bar	≤55 mL/min@ 2.1 bar
0.1	≥1.8 bar	≤30 mL/min@ 1.4 bar
0.2	≥1.0 bar	≤55 mL/min@ 0.8 bar
0.45	≥0.6 bar	≤55 mL/min@ 0.5 bar
1.0	≥0.3 bar	

^{*} Tested by 60%(v:v) IPA

- Sterile gas filtration of fermentor inlets
- Off-gassing downstream bioreactors
- Autoclave vent filters
- Tank vents





Filter Cartridge PVDF

Pleated Filter Cartridge

Dorsan® PVDF cartridge filters are manufactured design with 2 layers of high performance filter membranes. This using a prefilter layer reduces the plugging rate of end-filter membrane effectively.

Our filters have longer filter life and better performance than generic competitor's products. The result is maximize the flow rates and throughputs.

Dorsan® PVDF filters offer broad chemical compatibility with standard cleaning products avalaible in the market.

Integrity Test Data*

Pore	Min. Bubble	Máx.
Size µm	Point, 25ºC	Difussion, 25ºC
0.1	4.2 bar	≤13 mL/min@ 3.2 bar
0.2	3.4 bar	≤13 mL/min@ 2.7 bar
0.45	1.8 bar	≤13 mL/min@ 1.4 bar
0.65	1.7 bar	≤13 mL/min@ 1.3 bar

- Food & Beverages
- Removal of particles and microogranisms
- Protein purification
- Blood filtration
- Cell cultures
- Pharmaceutics





Microfiber Glass Cartridge GF

Dorsan® glass microfiber cartridges offer an absolute and economical solution for liquids and gases. They offer excellent levels of flow and a long useful life with an exceptional ability to retain colloidal particles and nondeformable ones.

They are depth filters that are manufactured with borosilicate microfibers of small microns in length, thus allowing a considerable retention capacity. They are the perfect prefilters for the absolute membranes.

The glass microfiber has the peculiarity of presenting a positive charge by nature. In this way it also manages to easily trap negatively charged particles such as most bacteria, endotoxins and colloidal materials present in some liquids.

Food Safety Compliance

FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21 CFR. Materials used to produce filter media and hardware are deemed safe for use in contact with foodstuffs in accordance with EU Directives 2002/72/EC, 1935/2004, and/or 10/2011

- Membrane Pre-Filtration
- Sterile Air Pre-Filtration
- Corn Syrup
- R.O. Pre-Filtration
- Wine Calrification
- Hydrocarbons
- Pharmaceutics





Dorsan® DUTC-Pure capsule fi Iters are designed to provide smart, disposable and safe fi Itration for the laboratory with volumes of 2L to 100L in process development, and in pilot and manufacturing scale operations if processing requirements do not demand a larger fi Iter.

DUTC-Pure capsule fi Iters can help to eliminate cleaning problems and extra validation costs. 100% integrity testable prior to release ensures high-quality products.

Features

- Universal design, suit for all kinds of adaptors
- High fl ow rate is available
- Wide range of porosities
- 1000 class clean room environment
- 100% integrity test

- Particles Removal
- Sterile Filtration
- Venting and Gas Filtration
- Clarification
- Pharmaceutics





Filter Cartridges Actives Carbon

Manufactured with the best quality activated carbons, Dorsan® presents a wide range for our customers to choose the most suitable product for your needs.

Activated carbon is an inert microporous product that has been treated to increase its surface. This is one of its high possitive value: to have a high adsorption capacity due to its large specific surface area, getting to have 100 to 2000 m2 .g-1.

In filtering water, as in the chemical and pharmaceutical industries... the activated carbo filters (granulated, block, impregnated cellulose...) play an important role as the most practical and economical solution for deso / decodorization and retention chlorine from water.

Its ease of use and low cost make them very frecuenteen used into industrial facilities.

Features

- Choice between 9 3/4" to 20"
- Granulated, block or impregnated cellulose
- Diameters of 2,5" and 6"
- Broad chemical compatibility
- High specific surface filtration area

- Point of Entry (P.O.E.)
- Traitment of liquid effluents
- Chemicals
- Electroplating baths
- Reverse Osmosis Prefiltres (R.O.)
- Elimination of hydrocarbures from water
- Decolorization of water and soft drinks





Filter Cartridges PET

Synthetic Pleated

The Synthetic Pleated Filter Cartridges Dorsan® are anufactured with polyester filter media. These filters are characterized by increased filtration surface as compared with traditional string wounded or meltblown filters. The media is high quality polyester suited for water filtration.

The cartridges are protected with a PP braid and have been made free sizing resins or additives. Blue End Caps are made with materials Plastisol (PVC). It offers very high flow with minimal pressure drop. Its ease of use and low cost of ownership makes them ideal prefilters most industrial and RO prefilters.

Avalaibles in standard 2,7" or BIG BLUE 4,5".

Features

- Lengths from 9 3/4" to 40"
- Porosities of 1 µm to 50 µm
- Maximum use temperature 60° C
- High chemical resistance
- Bigger filter surface than wounded filters
- High flow with minimal pressure drop

- Process Water (P.O.E.)
- Reverse Osmosis (R.O.) prefilter
- Chemicals
- Pools
- · Waste water treatment
- Electroplating baths
- Food & Beverages





Filter Cartridges Stainless Steel

Cilindrics and pleated Aisi 304 and Aisi 316-L

Dorsan® Stainless Steel filter cartridges have a large variety of applications where the temperature of use, pressure, operation or chemical compatibility become a priority parameter.

Configured as a cylindrical or pleated cartridge, this type of filter offers the possibility of being reused many times.

With a wide variety of lengths and porosities, We offer an ideal product for the economic filtration where traditional PP filter cartridges have difficulties to be operative.

The connections can be crimped or glued in function of the application required.

Features

- Lengths from 9 ¾ "to 40"
- Porosities from 5 μm to 850 μm
- Maximum temperature of use: up to 650° C
- High chemical compatibility
- Stainless steel Aisi 304 or Aisi 316-L
- Maximum Differential Pressure (Δp):
 4 bar at 25°C

- High Temperature Liquid Filtration
- Caustic fluids
- Corrosive products
- Petrochemicals
- Chemical Solutions
- Filtration of gases
- Products with high viscosity
- Food & Beverages
- Filtration of polymers
- Electronic Industry





Filter Cartridges High Flow

DLMHFB

The advanced accordion pleat design of the Dorsan® High Flow DLMHFB series cartridges allows obtaining high filtration rates with a very compact shape.

The absolute rated filter media is manufactured with high quality polypropylene fibers and allows us to work with maximum temperatures of 80 $^{\circ}$.

The maximum pressure difference Dp is 3.4 bar.

Its comfort of use and its dimensions make this system as the most suitable product as a pre-filter for Reverse Osmosis (R.O.) membranes .

Manufactured using state-of-the-art technology that allows to be very competitive in the market.

- External Diameter: 6.5 ".
- Lengths 40 "and 60".
- Absolute porosities from 1 to 70 μ m.

Features

- High filtration rates per cartridge
- Design of the filter medium in accordion shape
- High pollutant retention capacity
- Large filtering surface
- Extremely easy to place
- Reduction of assemblydisassembly costs

- Industrial process water
- Reverse Osmosis Prefiltration
- Chemical products
- Electronics
- Petrochemicals
- Waste Water Treatements





Filter Cartridges Maxpleat

DLHF

The DLHF Series Pleated High flow Filter Cartridge is a new product developed by Dorsan® for applications such as pre RO, cooling water and resin catch filtration.

It has a 6 inch/152mm large diameter, and is coreless, single open-ended with an inside to outside flow pattern.

The large diameter with big filter area insures to reduce the number of filter cartridges and the dimension of housing required.

The long service life and high flow rate result in low investment and less manpower in many applications.

Features

- Gradient pore structure
- Up to 70 m3/h flow rate per filter cartridge for water filtration
- Reduction in about 50% the filter system required
- Avalaible in 20, 40 and 60 inches length
- Coreless construction

- Prefiltration of RO, Pretreatement of sea water desalination
- Condensate water filtration, hot water recovery in power generation
- API, solvents and water filtration in BioPharma applications.
- Food & Beverages
- Microelectronics, film, fiber and resin trap filtration





Filter Cartridges Delta Flow

DLPP

Dorsan® DLPP Series High Flow Meltblown Filter Cartridge it is fusing and intertwined of polypropylene resin without any chemical glues. The cartridges are manufactured to form 3D micro pores which will make the cartridge 3 layers with fine fibers in surface. On this way We assure a perfect depth filtration.

Large diameter extend to very high filtration surface area and a high flow rate.

The use of these filters reduce the number of units needed with traditional diameter meltblown, saving in costs and volume of equipment.

The long servide life and high flow rate result in low investment and less manpower in many applications.

Features

- Three layers structure cartridges offering high dirt holding capacity.
- Longer service life and High Flow Rate
- 100% Pure PP will not cause any pollution to water
- Avalaible in 20, 40 and 60 inches length
- Coreless construction

- Prefiltration of RO, Pretreatement of sea water desalination
- Condensate water filtration, hot water recovery in power generation
- API, solvents and water filtration in BioPharma applications.
- Food & Beverages
- Microelectroncs, film, fiber and resin trap filtration





Filter Papers

Dorsan® offers its customers a variety of filter papers for a wide range of applications.

Papers smooth surface (60-650 sqm) or creped surface (60-180 sqm).

Available in a wide range of formats, either on disk or in sheets, We can meet the needs of most commonly performed filtration with filter paper. This type of product is used in various industries as Chemical-Pharmaceutical, Beverage, Food, Cosmetics, Surface Treatments...

Our filter papers have especially wet strength and with different thicknesses for maintaining maximum filtration cycles. Our technical department works continually to improve the quality of our products.

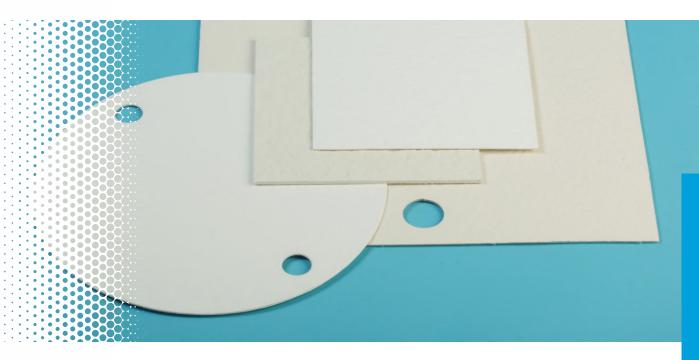
We offer our customers the opportunity to study the creation of new products to achieve the objectives of filtration required.

Features

- Avalaible in different shapes
- Excelent ratio quality/price
- Wide range of porosities

- Food & Beverages
- Chem-Pharma
- Cosmetics
- Electroplating





Filter Sheets

Depth Filtration

Dorsan® has a wide range of depth filter media that will process solution to your solid-liquid separation. On a depth filter, the area available for solids retention is not just the outside of the filter element, but the entire surface area of the pores through which the liquid to be filtered flows.

The filter plates are used in various types of industries as Chemical, Pharmaceutical, Beverage, Food, Cosmetics...

The main advantage of the depth filters is their high dirt-holding capacity, as opposed to the filtration surface, where they are retained by a simple mechanical action of surface screening. Besides the usual formats 40x40 cms or 60x60 cms for filter presses, We can supply any format with or without holes.

Features

- Wide range of formats
- Excelent relation quality/price
- Different porosities to choice

- Food & Beverages
- Chemical-Pharmaceuticals
- Cosmetics





Filter Modules

Dorsan ®has a wide range of filter media that will provide solution to your solid-liquid separation process. On a depth filter, the area available for solids retention is not just the outside of the filter element, but the entire surface area of the pores through which the liquid to be filtered flows.

The depth filter modules are used in various industries as Chemical-Pharmaceutical, Beverage, Food, Cosmetic ...

The main advantage of the Filter Modules is their high dirt-holding capacity, as opposed to the filtration surface, where they are retained by a simple mechanical action of surface screening. Available in formats of 12 "and 16" with 16 cells x 2 disks in both cases.

Avalaible in 12" & 16".

Features

- Without Leakages
- Depth Filtration
- Range of porosities to choice

- Food & Beverages
- Chem-Pharma
- Cosmetics





Liquid Filter Bags

Manufactured using 100% synthetic fibers of polypropylene, polyester and nylon monofilament. Dorsan® filter bags use only filter media that can guarantee a high and constant quality and efficiency.

These standard felt liquid filter bags work as a depth filter and are very recommended to filtrate solid and gelatinous particles from liquids.

On a depth filter, the area available for solids retention is not just the outside of the filter element, but the entire surface area of the pores through which the liquid to be filtered flows. The filter bags are used in various types of industries as Chemical, Pharmaceutical, Beverage, Food, Cosmetics...

The main advantage is their high dirt-holding capacity and high flow. Being one the best economical solutions for a lot of liquid filtration applications.

Features

- Great porosity range
- Broad chemical compatibility
- Silicone-free construction
- High dirt holding capacity
- Low cost filtration

- Food & Beverages
- Chemical-Pharmaceuticals
- Cosmetics
- Electroplating
- Wastewater Treatements









Filter Press Fortiplates

Dorsan® presents the filter press FORTIPLATES of 400 x 400 mm. External press plates constructed of carbon steel and both coated with Stainless Steel AISI 304.

The inner plates which support the filtering material are made from polypropilene.

Very easy to use, has a higher filtering surface than traditionals small filters 200 x 200 mm

It involves a very profitable investment for its excellent quality/price ratio.

Allows the use of both filter paper as filter sheets. Being an effective ally in both food & beverages and chemical-pharmaceutical industries.

Avalaible in 3 versions: 20, 40 and 60 plates.

Filter Plates Bebinox

Dorsan® presents the model filter plates BEBINOX with plates of 310 mm diameter. External press plates constructed of carbon steel and both coated with Stainless Steel AISI 304.

The inner plates which support the filtering material are made from polypropilene.

Very easy to use, has a higher filtering surface than traditionals small filters 200 x 200 mm. It involves a very profitable investment for its excellent quality / price ratio.

Allows the use of both filter paper as filter sheets. Being an effective ally in both food & beverages and chemical-pharmaceutical industries.

Avalaible in 3 versions: 10, 20 and 30 plates.

Filter Pilot 200M

The PILOT 200-M is a high precision filter made out of AISI 316 stainless steel for use in industrial applications. Its unique design permits efficient use without the need to use joints to close the set between the filter plates. This makes it the perfect machine for applications in which contamination may occur between products from different batches or of distinct characteristics.

Chemical-pharmaceutical, cosmetic, food, quality control and research laboratories... all of these industries are potential clients of this product.

Especially intended for use with filter plates or filter paper having the following measurements: 200 x 200 mm and with 4 perforations.

It also permits operation with a plate and frame in processes having a high quantity of filter cake and with pre-layers of filtration adjuvants.









Filter Press Labinox

Dorsan® presents LABINOX, the filter press ideal for use in chemicals industries, pharmaceuticals, food & beverages, cosmetics...

Competely built in Stainless Steel AISI 316L. It is a filter designed to meet the needs of laboratories to filter small volumes of liquid.

Avalaible in two models: L/10 and L/20 to use filter plates 10 and 20 respectively.

The entire configuration Labinox with manometer, electricpump and valve or stainless steel bypass is an economical and suitable solution for the filtration of small batch production.

Very robust and easy to clean, minimize the looses of time between changes of batches.

Filter Press Farminox

Dorsan® presents the filter press WITHOUT GASKETS, ideally to be used in industries as chempharma, cosmetics and food & beverages... Completely built in Stainless Steel AISI 304 or AISI 316L from a plate or full bar it doesn't presents neither unions nor welds. Perfectly smooth and compact surface, without porosity.

It is a very versatil filter because it can be in use with diverse filter media such means as filter papers, filter sheets, microfiltration membranes, microfiber glass, meltblowns. The most important characteristic of this filter is the not utilization of gaskets. The round form of press plates allow to obtain a perfect airlock between the plate and the filter media.

Filter Press Mininox

The series Mininox by Dorsan Filtration, SL is designed to meet the filtration requirements of production of small batches.

Its use is especially recommended for scientific and industrial laboratories, research institutes, R & D + I or where required a previous study of filterability prior to the industrial process.

Small in size, M150 or M300 models are located perfectly in any laboratory or workstation.

Its easy operation and start up make this series of filters as indispensable in any laboratory of food & beverages industries or chemical & pharmaceutical.

Made of stainless steel AISI 316-L is cleaned very easily leaving no traces of the above filtrate thus avoiding contamination between batches of different fabrications





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