

NATIONAL CARD BOARD MILL SINCE **1970**

We specializes on Filter Paper and
Pads, Mosquito Repellent Mat Sheets
and Absorbent Pads

Industrial Filtration Solutions

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About Us

National Card Board Mill is paper manufacturing company which specializes on Filter Paper and Pads, Mosquito Repellent Mat Sheets and Absorbent Pads. It is located in chemical zone and industrial city of Ankleshwar in Gujarat / India. We are also importers and dealers of all types of filter cartridges, it's housings, Filter bags for Liquid and air, also its housing, Dust collection filter cartridges, Sparkler filter press.

National Card Board Mill was **established in 1970** and since then due to customer satisfaction, delivery of quality products at competitive rates, National Card Board Mill has achieved lots of success and have grown to such a level that it became one of those few companies in India to manufacture quality filter paper and pads, mosquito repellent blank mat sheets and absorbent pads. This is not all; one product was even tested and approved by leading chemical manufacturer of JAPAN. We have been supplying our products to the leading companies all over India.



Promoter

Dashrathbhai I. Patel is the promoter of this company. His incredible experience of **34 years** in paper industry has brought laurels to the company. He revolutionized the manufacturing of mosquito repellent blank mat sheets. Entered Filter Paper segment and started manufacturing Filter Paper and Pads, Absorbent Pads.

The Management

The management and staff of the company is hardworking, intelligent, and highly experienced in their respective fields.

We have dedicated team of workforce who looks after production, marketing, sales, purchasing of raw materials and technical problems. We have a particular process for processing orders and executing them, to provide excellent services and desired quality.

Manish.D.Patel, is a young entrepreneur and entered the business in the year 1998. He looks after Marketing and Sales.



Our Mission

Being a client centric company, we aspire to form a mutually beneficial and long lasting relationship with our clients by not just meeting but exceeding their expectations.



Our Excellence

We stand on the edifice of quality and reliability. We undertake inspections and run quality checks on our products before delivering them to market. For the purpose, we have a slew of experts with intensive knowledge of our products. They maintain a strict vigil on the manufacturing process to ensure that not even one defected piece leaves the factory premises.



Our Facilities

We possess state-of-the-art-technology and hi-tech machines which yield excellent results and ensures efficiency and quality of products. Our infrastructure comprises of our own sophisticated plants to manufacture products with an ever-increasing annual turnover. Our team of Research and Development is striving to meet the expectations of our clients by engineering innovative designs.



Our Patrons

The overwhelming response of our clients has bolstered us to elevate our standard of excellence. We have a wide client base which is spread all over the globe. We have our clients in India and in foreign countries.



Our **Products**



**Filter Paper
& Pads**



**Activated Carbon
Filter Pads**



**SS Sintered
Filter Cartridge**



**MLSS
Filter Cartridge**



**SS Pleated
Filter Cartridge**



**PP Pleated
Filter Cartridge**



**PTFE Pleated
Filter Cartridge**



**PES Pleated
Filter Cartridge**



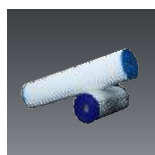
**PP Filter
Bag**



**Highflow Pleated
Filter Cartridge**



**Dust Collection
Bag**



**Jumbo Pleated
Filter Cartridge**



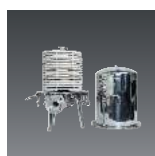
PP Housing



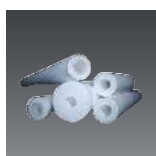
**SS Cartridge
Housing**



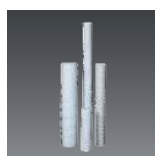
**SS Bag
Housing**



**Module Filter
& Housing**



**PP Spun Filter
Cartridge**

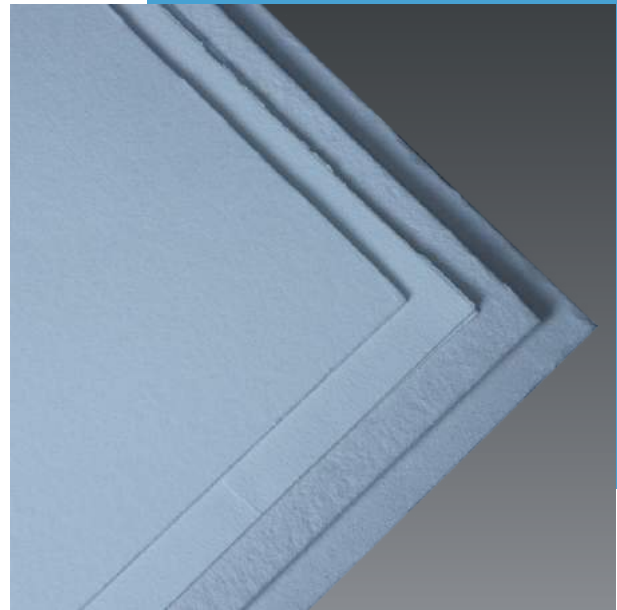


**PP Wound
Filter Cartridge**

Filter Paper & Pads

We are manufacturing a wide range of filter papers & pads on a very highly sophisticated production plant. The entire process of manufacturing is untouched by hand from the pulping stage to the finished product. This is a high precision completely automatic plant which ensures a uniformly produced filter media for excellent purity and frees from external contaminants qualities vital for sensitive industries like drugs, pharmaceuticals, foods, beverages, chemicals, cosmetics etc.

Our raw material is continuously monitored for quality control. Constant laboratory tests are conducted to check filtration efficiency, pad porosity, absorbency, Filtration speed and bursting factor. The fibers of our filter paper & pads are also subjected to a special porous chemically inert wet-strength impregnation process to impart very high mechanical strength while filtering aqueous.



**We use pure Cellulose Fibre,
Cotton linter Pulp in
manufacturing Quality filter
Papers.**

Approximate calculation & Lab Report of Our Running Grades.

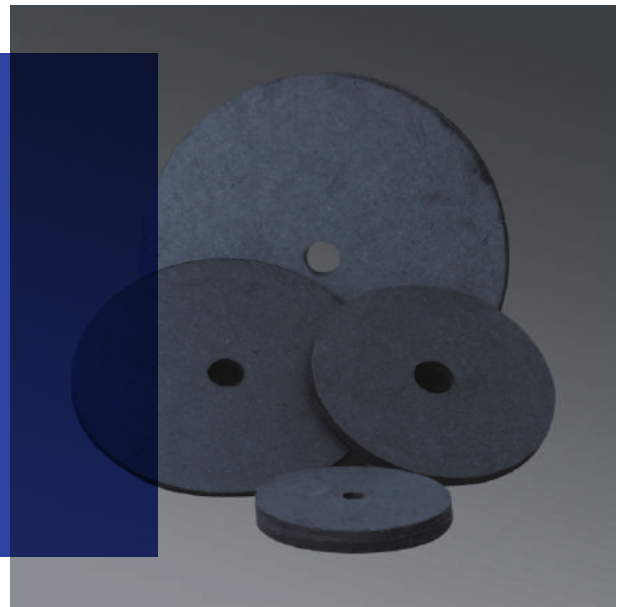
Grade	Thickness	G.S.M	Porosity	B.F (DRY)	B.F (WET)
MMC-05	0.5 mm	350 gsm	4 to 5 sec	3 kgs	2 kgs
MMC-1	1 mm	570 gsm	6 to 7 sec	5 kgs	2.5 to 3 kgs
MMC-15	1.5 mm	680 gsm	10 sec	7 kgs	3.5 kgs
MMC-2	2 mm	850 gsm	8 sec	8 kgs	4 kgs
MMC-25	2.5 mm	1300 gsm	10 sec	10 kgs	4 kgs
MMC-3	3 mm	1500 gsm	10 sec	10 kgs	4 kgs
MMCR-1	1 mm	400 gsm	5 sec	4 kgs	2.5 kgs
MMCR-15	1.5 mm	550 gsm	7 sec	4 kgs	3 kgs
MMCR-2	2 mm	800 gsm	8 sec	7 kgs	3.2 kgs
MMCR-25	2.5 mm	1200 gsm	8 sec	10 kgs	4 kgs
MMCR-3	3 mm	1350 gsm	10 sec	10 kgs	4 kgs
SW-15	1.5 mm	850 gsm	120 sec	7 kgs	3 kgs
PPN-1	0.3 mm	100 gsm	6 sec	3 kgs	1.7 kgs

02

Activated Carbon Filter Pads

Carbon has been used for many years in loose form to remove color and odor from liquids. In certain applications the loose carbon can be replaced with a carbon impregnated filter pad. When using loose carbon, it is necessary to remove the carbon with some means of filtration. If that includes a plate and frame filter press, then the press can be dressed with activated carbon filter pads, eliminating the need for dumping loose carbon into a mixing tank, and then scraping the carbon off of a filter paper or cloth.

NCBM offers its series in Two different grades, BK2, BK25. Each grade can be manufactured with various different grades of carbon, allowing to help optimize your filtration.



Benefits

- More effective use of carbon (fewer kg of carbon required)
- Minimizes potentials for addition errors
- No need for use of loose activated carbon powder or granules
- No need for use of secondary filters and filter aids to remove activated carbon from the process fluid
- No messy filter cake
- Less time consuming than bulk powder usage
- Easier and cheaper disposal of spent filter materials
- The sheet life depends on the amount of color / odour / off-taste / chlorine to be removed and the dwell time of the liquid within the sheet.

Carbon treatment applications include:

De-colorization of blood products, glucose solutions, antibiotics, solvents, sugar syrups, cosmetics, silicone oils, electroplating chemicals, alcoholic beverages; de-odourisation of fruit juices, beverages; de-chlorination of water; off-tastes removal in food and beverages. Reduction of colour, odour and endotoxin levels in API processes.

SS Sintered Filter Cartridges

Sintering is a process for making articles from its base material in powder. They are made by mixing elemental or alloy powders and compacting the mixture in a die, the resultant shapes are then sintered or heated in a controlled atmosphere furnace to bond the particles. Sintering is traditionally used for manufacturing ceramic objects and after that it is used for filtration application. Due to sintering process, particles join with each other and form a porous structure which allow any fluid, air or gas to pass through without disturbing its structure. This structure is robust in nature to handle particle above stipulated micron rating. Such elements are back washed some time for cleaning purpose to remove deposited particle load. These sintered solid filters are able to withstand very high differential pressure across the filters.

Stainless Steel sintered powder filter cartridges are recommended for the filtration of air or liquid at higher operating temperatures & corrosive environment. Sintered S.S. cartridges are produced by cold isostatic pressing, which gives high porosity to the material and also stability. They can easily be cleaned thus having longer shelf life. SS Pleated filter cartridge have a better filtration area than SS Sintered filter cartridge.

Benefits

- Stainless steel is ideal for long-term use in particularly aggressive high temperature environments
- Cleanable and regenerable using back flushing, ultrasonic and other commonly used procedures over many cycles ensuring long service life
- Can be fabricated into single or multiple filter lengths, to retrofit existing vessels and replace less efficient filter types
- Isostatically pressed and vacuum sintered cylinders offer excellent uniformity of media and filtration performance
- Stainless Steel sintered powder filter cartridges



Product Specifications

Micron Rating	: 0.5, 1, 5, 10, 20, 40 μ
MOC	: Stainless Steel, Titanium, Nickel, Bronze, Inconel, Monel and Hastelloy
Length	: 10", 20", 30", 40"
Inner Dia	: 28mm
Outer Dia	: 60mm, 65mm, 70mm, 75mm
O-Ring material	: EPDM, Silicone, Viton, PTFE
Configuration	: Double Open End (DOE), Code 7

Application

- Steam Filter • Beverage • Petrochemical Industry
- Ultrasonic Washing

The Sintered Powder filter cart wide range of materials, including stainless steel, titanium, nickel, bronze, Inconel, Monel and Hastelloy.

Reverse Flow: Where most of the contamination is larger than the pore size of the filter media, reverse flowing the liquid or gas through the element will usually be adequate for cleaning. Typically, a flow of at least 2 times the forward flow provides good cleaning.

Ultrasonic Cleaning: Again, surface contamination can be removed by ultrasonic cleaning in a bath containing detergent, deeply embedded particulate may not be removed.

Chemical Cleaning: A variety of chemicals (solvents, acids, caustic etc) can be used to dissolve the contaminant or process fluid if it has hardened on contact with air.

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MLSS Filter Cartridge



Sintered wire mesh is made from multiple layers of woven wire mesh panel together using a sintering process. This process combines heat and pressure to permanently bond multi-layers of mesh together. The same physical process used to fuse individual wires together within a layer of wire mesh is also used to fuse adjacent layers of mesh together. This creates a unique material offering excellent mechanical properties. It is ideal material for purification and filtration. It may be from 5, 6 or 7 layers of wire mesh (5 layers sintered filter mesh structure drawing as right picture).

The follow picture shows a sintered stainless steel wire mesh panel made from five different layers of stainless steel wire mesh combined and sintered together through vacuum sintering, compressing, and rolling, forming a porous sinter mesh.

Advantages

- High strength and durability since high temperature sintering.
- Anti-corrosion, and heat resistance up to 480 °C.
- Steady filter rating from the 1 micron to 100 micron.
- Filter mesh not easy to deform because of two protective layers.
- Can used for uniform filtration in high pressure or high viscosity environment.
- Suits for cutting, bending, punching, stretching, and welding.

Specifications

- Material: Standard material SUS304 (AISI304), SUS316 (AISI316), SUS316L (AISI316L), Alloy Steel Hastelloy, Monel, and Inconel.
- Standard Size: 500 × 1000 mm, 600 × 1200 mm, 1000 × 1000 mm, 1200 × 1200 mm, 300 × 1500 mm.
- Fabrication: easily formed, sheared, welded and punched.

Materials of Manufacture

- 316L stainless steel standard. Inconel®, Hastelloy®, NiCrMo Alloy 59 and Fecralloy® on request or by process selection. Additional alloys are available on request.

Cartridge Dimensions*

- Diameter: 66mm (2.6") as standard. Lengths: 125mm (5"), 250mm (10"), 498mm (20"), 745mm (30") and 1012mm (40").

*Other diameters and lengths available on request.

Effective Filtration Area

- 0.13m² (1.40ft²) per 250mm (10") cartridge.

Typical Maximum Differential Pressure*

(all lengths)

- Normal flow direction: 25bar (363psi)
- Reverse flow direction: 3bar (44psi)

Operating Temperature

- Maximum continuous: From -195°C (-319°F)
- to 340°C (644°F) seal limiting. From -269°C
- (-452°F) to 1000°C (1832°F) alloy limiting.

05

SS Pleated Filter Cartridges

Type of Filters

- Stainless steel wire mesh type
- Stainless steel sintered metal type
- Stainless steel random fiber/Sintered metal fiber type of filter design
- Plain cylindrical design
- Pleated configuration design

Features & Benefits

- Stable pore shapes
- High permeability
- Low pressure drop
- High dirt-holding capacity (longer lifetime)
- High temperature resistance
- High differential pressure with stand capacity
- Strong corrosion resistant
- Back flushing
- Excellent mechanical strength
- No media migration
- Size customization

Construction of Sintered Material

The composite fiber material is then sintered together with a wire mesh under vacuum conditions and rolled to mats of a specific thickness. Stainless Cartridge can be wrought into tubes, cartridges or disks, plain, pleated or according to customer requests.



Technical Specifications

Sizes : 10", 20", 30" 40"

Long (Customized Sizes Are Available)

Micron Rating : 0.5, 1, 3, 5, 10, 20, 25, 50 & More

Standard Outside Diameter : 64 mm

Inner Diameter : 28 mm

Application

- Catalyst Recovery In Petrochemical/Chemical Industries
- Polymer Filtration
- Cross Flow Filtration
- Gas Filtration
- Analytical Devices
- Medical devices
- Oil Filtration
- Hot Gas Filtration
- Aerosol Application
- Fuel & Hydraulic Oil Filtration

Configuration

- Double Open Type (DOE Type)
- Code 7 F (226 O Ring Design)
- Code 7 S (226 O Ring Design/flat)
- Code 3 F (222 O Ring Design)
- Code 3 S (222 O Ring Design/flat)
- 1" NPT/BSP Connection



06

PP Pleated Filter Cartridge

Polypropylene filter cartridges are precisely manufactured for use in critical filtration applications within food, pharmaceuticals, biotech, dairy, beverages, brewing, semiconductor, water treatment & other demanding process industries. Polypropylene pleated cartridges use the very latest gradient density micro fiber media technology to provide a combination of excellent micro ratings, high flow rates and high contaminant holding capacities. A special combination of polypropylene media with variation in the fiber diameter has created a gradient density matrix, ranging from open on the outside to finer on the inside, thereby providing a filter with in filter, which considerably increases contamination holding capacity & throughputs. All components used in the manufacture are biologically safe, chemically inert and meet fda and other international quality requirements. Polypropylene offers an extremely broad chemical compatibility making it suitable for many applications.

Configuration

- Double Open Type (DOE Type)
- Code 7 F (226 O Ring Design)
- Code 7 S (226 O Ring Design/flat)
- Code 3 F (222 O Ring Design)
- Code 3 S (222 O Ring Design/flat)

End connections to fit all standard housings Technical Specifications

- **Sizes** : 10", 20", 30", 40" Long
- **Outer Diameter** : 69 mm
- **Micron Rating** : 0.1, 0.2, 0.45, 1, to 50 m
- **Inner Diameter** : 28 mm

Applications

Fine Chemicals and Pharmaceuticals

- D.I. Water R.O.Pre filtration Ophthalmic Liquids
- Biological Fluids Oral Drugs

Photographic Film & Paper

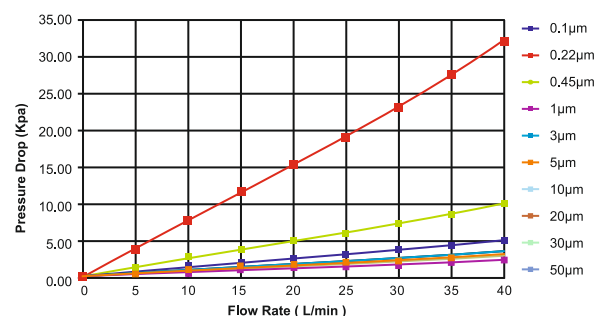
- Anti-Halation Coatings Developer Chemicals
- Emulsions Gelatins

Beverages

- Wine Beer Fruit Juice Alcohols

Features & Benefits

- All polypropylene construction
- Absolute & nominal efficiency 0.1 to 40 Micron ratings
- Gradient density micron fiber media
- High surface area more than 0.5 m²
- Robust outer cage
- Biologically safe
- Non fibber migration
- Thermally welded construction
- FDA approved filters



PTFE Pleated Filter Cartridges

Pleated configuration design PTFE MEMBRANE cartridge is a hydrophobic filters made of natural hydrophobic PTFE membrane and polypropylene support layers and components. PTFE Membrane Filter Cartridge are HIMA retentive that offers superior hydrophobicity and water intrusion resistance compared to PVDF and polypropylene membranes. The cartridge construction also offers a cost effective alternative to all-fluorocarbon filters. These filters are ideal for gas/vent applications and the filtration of aggressive chemicals and solvents. These PTFE Filter Cartridges are best fit for critical processes in pharmaceutical industries, chemical plants, beverages & syrups, distilled water plants, etc.

These filters are flushed with ultrapure Water, integrity tested and packed in ISO Class 7 clean room environment. The complete traceability is ensured by engraving of lot numbers on all filters, plus pore size identification on membrane filters to assist customer installation accuracy.

Dimensions / Parameters

Nominal lengths: 5"; 9.75"; 20"; 30"; 40"

Outside diameter: 2.7" (6.9 cm)

Inside diameter: 1.0" (2.54 cm)

Surface area: 0.79m² (8.5ft²) per 10 inch element

Max. operating temp: 95°C (203°F)

Max. operating pressure:

5.2 bar @ 21°C (75 psid @ 70°F)

2.8 bar @ 80°C (40 psid @ 176°F)

1.03 bar @ 95°C (15 psid @ 203°F)

Max. reverse differential pressure:

2.8 bar @ 21°C (40 psid @ 70°F)



Filter Specifications

Media: Gore-Tex® expanded PTFE membrane

Inner core, end caps, cage: Polypropylene

Support layers: Polypropylene

O-Rings: Buna-N, EPDM, Silicone, Viton®, FEP encapsulated Viton

Micron ratings: 0.1; 0.2; 0.45; 1.0 µm

Performance Specifications

Steam/Autoclave: Cartridges will withstand at least 50 steam/autoclave 1 hour cycles @ 135°C (275°F)

Integrity Test Values: Air Diffusion per 10 inch cartridge wet with 60/40 IPA/ water.

Pore Size	Specification
0.05 µm:	≤ 50 cc/min @ 1.5 bar (22 psig)
0.1 µm:	≤ 50 cc/min @ 1.2 bar (18 psig)
0.2 µm:	≤ 20 cc/min @ 0.8 bar (12 psig)
0.45 µm:	≤ 15 cc/min @ 0.34 bar (5 psig)
1.0 µm:	≤ 15 cc/min @ 0.2 bar (3 psig)

08

PES Pleated Filter Cartridge

PES Pleated Filter Cartridge is constructed of excellent PES(polyethersulfone) media and pp(polypropylene) materials to meet high standard performance. With unique hydrophilic characteristics and absolutely rate, this filter shows good flow rates. The compatibility with a broad range of chemicals provides long service life. 100% integrity tested by bubble point and diffusional flow to ensure consistent and reliable performance. No adhesive, thermal bonded manufacturing enable the smallest contaminant extraction and high durability.

Specification

Material of Construction

Media: Hydrophilic per membrane

Support layer: Polypropylene

Core/Cage/End adaptor: Polypropylene

Sealing Method: Thermal bonding No Adhesives

Seal Material: Silicone, EDPM, Buna, Viton, Teflon, E-FKM

Micron Rating: 0.1µm, 0.22µm, 0.45µm

Filtration Area: 0.64m² each 10" length

Applications

Micro-filtration in ultrapure water systems

Beverage, wine, draft beer and other drinks

Plating solutions

Pharmaceutics

Chemical industry

Recommended Operating Conditions

Max. Differential Pressure:

Forward - 4.2bar@ 25°C

Reverse - 2.1bar@ 25°C

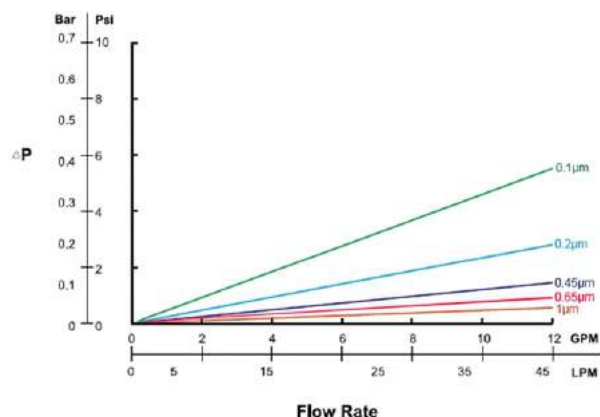
Max. Operating Temperature: 80°C

Sterilization: 20times, 30 Minutes cycles at 121°C

Dimensions

Outside diameter: 2.7" (69mm)

Length: 5", 10", 20", 30", 40"



PP Filter Bags

Available in needle felt and mesh type material. All material is FDA compliant. Wide selection of filter media. e. g. Polypropylene, Polyester, Nylon, Cotton, non woven. Various micron ratings from 1 to 200 (felt material). Positive sealing arrangement with S.S or rubber or plastic collar or by snap band type ring. High performance Available in single and double length. Broad chemical compatibility.

Product Specification

Micron Rating:

- 1, 5, 10, 25, 50, 100 micron

Material of Construction:

- Polypropylene, Polyester. Nylon etc...

Configuration:

- Thermally welded bag filter
- Stitched bag filter

Maximum Operating Temperature:

- Polypropylene 70 °C,
- Polyester 150 °C

Features & Benefits

- High performance
- Filtration rating from 1 to 200 micron
- Viscous fluid capability
- High flow rates
- Low pressure drop
- Broad chemical compatibility
- Positive sealing arrangement with choice of materials
- High dirt holding capacity
- Simple maintenance
- FDA & NSF compliance

Filter Bag Sizes

Filter Bag Size : 1, 2, 3, 4
 Diameter (In) : 7.25, 7.25, 4.31, 4.31
 Length (In) : 16, 31.5, 8.0, 14



Applications

- Paints
- Lacquers
- Inks
- Varnish
- Resins
- Adhesives
- Oils
- Bitumen
- Fats
- Waxes
- Plasticizers
- Primary pharmaceuticals
- Food ingredients
- Vegetable oils
- Cooling and heating water
- Irrigation systems
- Cutting fluids/oils
- High viscosity fluid



Product Specification

Dimension: [OD]: 152mm
[Length]: 20", 40", 60"

Material of Construction:

[Media]: Pp4 Glass Fiber (GF)
[Cage/Coper/End Cap]: PP
[Sealing]: Silicone, EPDM, Viton,
E-FKM

Performance: [Mas. Operating temperature]: 90°C
[Mas. Operating DP]: 3 bar@21°C

Max. Flow Rate: 20" Element upto
175GPM
(662 Ltr./min.)

40" Element upto
350GPM
(1325Ltr./min.)

60" Element upto
500GPM

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Highflow Pleated Filter Cartridge

High Flow Pleated Filter Cartridges are made from depth fine PP or GF non-woven fabrics. The filter has a big diameter of 6 inch/152mm and no inner core. single open. The inside flow pattern ensure that all the particles will be intercepted at the inside of the filter. The long service life and high flow rate result in low investment and less manpower in many applications.

Features

High filtration area, high flow rate

High dirt holding capacity, long service life

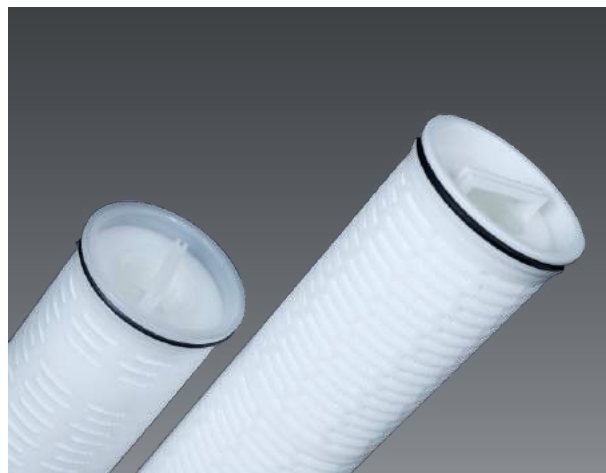
With depth fine non-woven fabrics and scientific design, the filter has a good structure which has high dirt holding capacity and result in long service life.

Much micron ratings and lengths for choosing

Micron rating from 0.5µm to 100µm, and lengths from 20" to 60", witch can meet different requirements.

Applications

- Sea water desalination
- Food and beverage
- Oil & Chemical
- Machinery & Equipment
- Power plant water treatment
- Steel mill water treatment



Dust Collection Bag

Pleated dust collection cartridges are made of 100 % polyester media with different coatings on it, as per requirement of applications. Manufacturer of dust collectors originally designed to build the dust collection cartridges in equipment, where as pleated bags can be used for existing dust collector in place of conventional dust collection bags, without modifications. This polyester media is made of high tenacity filament yarn without using any binding agent. Thus hard finished material is very stable against hot gas attack & structurally durable. This unique & hard finished material provides features of good pleat ability, high durability, and unique structure of very fine filament yarn which offer high performance in filtration. Thermally tight bonded media provide washability, excellent pleatability, stable structure, fine dust release & good resistance of particle penetration in to the media.

This filter media are pleated in different pleated depths & height to accommodated desired filtration area. Construction Pleated spun bonded filter media placed in a cylindrical configuration with support of metal core & encapsulated with metal end caps to form a pleated dust collection cartridge. The end caps are configured to mount as clean side or dirt side fitment. In case of metal caps these bags are supported with soft sponge rubber sealing to ensure positive sealing of filter while fitment.

Features & Benefits

- High filtration area up to 20 m²
- Universal Fixing arrangements
- Open Pleat Spacing
- Low Consumption of Compressed Air (For Cleaning)
- High Efficiency Due To Surface Filtration
- Very High Air to cloth Ratio
- Very high filtration efficiency

Technical Specifications

Filter media

- Spun Bonded Polyester Media



Applications

- Pharmaceuticals
- Steel & Power
- Powder coating
- Cement
- Chemicals
- Metals & Minerals
- Paints & Pigments

Coating

- PTFE coating for oil & moisture removal
- Aluminum coating for antistatic application
- Stainless steel coating for antistatic application
- Fire retardant coating
- PTFE lamination for very stick dust

Sizes Available

Diameter of Element : 150mm O.D, 225mm O.D, 325mm O.D Length of Element : From 300mm to 1400mm as per customer's requirement

Fitment Configuration

Flange Type model , Three lug type Model , Standard type model

Filtration area

- 0.96 m² to 20.0 m²

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Jumbo Pleated Filter Cartridge

A pleated sediment filter offers more surface area for greater dirt holding capacity; lower initial pressure drop; higher flow rates; longer life and reduced filtration costs.

Pleated cartridges are cleanable to a certain extent, by allowing you to be able to wash the visual residue off the outside of the cartridge. This will prolong the life of the filter.

These filter cartridges are individually wrapped to protect the cartridges in transit and storage.

They are made with rugged 100% Synthetic Poly/Polyester Blend Media which is the key component of these pleated filters cartridges. High media surface for heavy solids loading capacity that maximizes service life and optimizes filter performance and value. They are compatible with a wide range of potable water and aqueous industrial applications.

Applications

- Raw water treatment
- Pre-filtration
- General industrial applications

Product Specifications

- Filter Type: Membrane
- Filter Rating: Absolute/Nominal
- Micron Ratings: 5, 10, 20, 50

Lengths:

- 9 5/8" (24.5 cm) 40 sq ft
- 19 1/2" (49.5 cm) 90 sq ft

Outside Diameter:

- 7 3/4"

Materials of Construction:

- Filter Media: Polypropylene
- Inner Core: Polypropylene
- End caps: Polypropylene
- Gaskets: EPR Standard



PP Housing

The polypropylene filter Housing are made of ruffed reinforced polypropylene. They are recommended for low flow rates to higher flow rates wide range of applications including residential, commercial and industrial. Available in 8", 10", 20" Standard models and 10", 20" Jumbo models for higher flow rates.

Optional Pressure:

Relief/bleed button on inlet side of cap. Thick walls for increased strength

Leak Proof sealing with top:

Seated Buna-N "O1 ring.

Available with clear SAN:

Styrene Acrylonitrile/Polycarbonate - PC and opaque (Blue - Black) models.

All Housing have been tested and passed the hydrostatic leak and burst pressure to ensure consistence safe performance.



Blue Black/San Filter Housing:

- Blue Body with Black Cap
- White Body with White Cap
- Clear Body (SAN/PC) with White Cap.
- Available in 8", 10", 20" Sizes Pressure relief/bleed button on inlet Side & Cap
- 1/4", 1/2", & 1" in/out connection Maximum
- Flow rates up to
- 81pm-8" size. 101pm- 10" Size
- 40 lpm-20" size
- Maximum temperature 70°C and
- Operating Pressure up to 6 kg/cm²

BIG Jumbo Filter Housing

- Large Capacity housing suitable for high flow applications
- Available in 10" & 20" size to meet your needs-
- 4.5 DOE Filter Cartridges
- 1½" in/out connection
- Maximum Flow Rates 50 lpm for 10", 100 lpm for 20"
- Pressure relief/bleed button on inlet/outlet side of cap.

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SS Cartridge Housing

Stainless Steel Filter Housing is designed to offer wide range of fluid flow capacity and compatibility suitable for most type of cartridge filters.



Features and Benefits:

- 304 & 316 Stainless Steel brushed / Electro-polished material construction for maximum corrosion resistance in a Non-Code filter housing.
- Swing bolt closure design with 150 psig (10.3 bar) maximum operating pressure assures secure sealing and easy cartridges change out.

Suitable for right temperature service up to 93 C (200 F)



Flow rates from 180 GPM to 300 GPM

Ideal for: Water, Paints, Photographic solutions, food and beverage products, petrochemical, Pharmaceuticals, plating solutions.

All models available with vent and drains for easy cartridges change and maintenance Accept 27 rounds filter cartridges in length 10", 20", 30", or 40", form variety band Accept cartridges with Double Open End (DOE) Optional for SOE O-ring and 22y O-ring fin end Configuration Standard shell O-ring to be Buna-N Optional: Silicon, viton and EPRM.



SS Bag Housing

Bag filter system is designed for optimum filtration performance. The range provides filtration solution for a broad variety of fluid applications in the process industry. They are particularly useful for filtering large volumes of high viscosity liquids. Bag filter is constructed of filter housing, filter bags, internal cage to support bags, positive sealing arrangement, & choice of end connections. The internal supports ensure bags will not burst as high differential pressures build up during operation. Operation Unfiltered fluid enters the housing and is distributed evenly around the filter bags. Filtration takes place from inside to outside. Solids are collected on the inside of filter bag for easy removal. The filtered fluid then exits through the outlet pipe.



Features & Benefits

- High flow rates
- Low pressure drop
- High dirt holding capacity
- Positive sealing arrangement to avoid bypassing
- Low down time
- Suitable for PP Collar, Rigid Ring & Snap Band Bags
- Quick opening Tri Clovers & Fly nut design
- Easy to operate & low maintenance
- Flow rate up to 2000 m³/hr
- Custom design services
- Large-area, heavy-duty baskets
- Housings are permanently piped
- Covers are O-Ring sealed
- ASME code stamp available

All housings made from SS 316L, SS 316 & SS 304 are mirror polished to resist adhesion of dirt and scale Carbon steel housings are sand blasted, epoxy coated & finally painted with two coats of synthetic enamel Multiple bag filter/Duplex bag filter/Jacketed bag filter unit designs are available.

High temperature & High pressure design are available Special option include filter bag hold-down devices, sanitary, construction different outlet connections, higher pressure ratings, extra-length legs, heat jacketing and adapters for holding filter bags.

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Module Filter & Housing

lenticular Filter Modules are a new type of filter cartridge using depth filter sheets. It is designed using a double separator concept. The Separator design increases the total stability of the filter cartridges as the separators fully support the sheet material. This design also prevents filter sheet deformities after heat treatments and adverse effects of contact with hot sanitation. It is manufactured with rigid external clips to prevent damaging filter sheets during module loading and unloading while allowing for easy and reliable handling.

Product Specification

Dimension:

[OD]: 8", 12", 16"

Material of Construction:

[Depth filter sheet]: Cellulose fibers, Resins, Perlite, Natural Diatomaceous earths, and etc.

[Core/Separator]: Polypropylene (PP)

[Double O-ring or flat gasket]: Silicone, EPDM, Viton

Performance:

Typical ratings: C002: 0.2-0.4µm C004: 0.4-0.6µm

C100: 1-3µm | C150: 2-5µm | C200: 3-7µm

Features

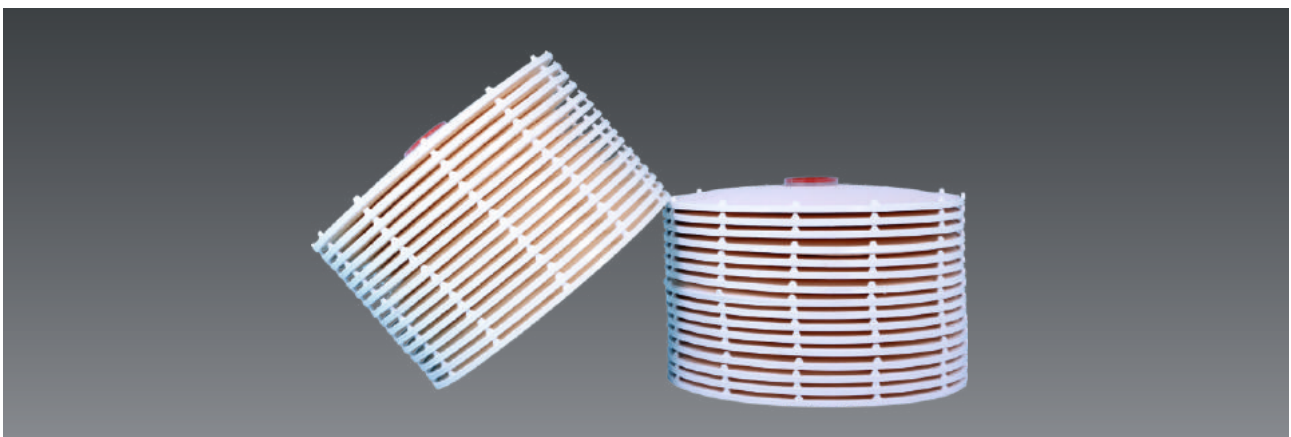
Washable under certain conditions, resulting in high total throughput

Easy and reliable handling Rigid external clips prevent damage of the filter sheet during module loading and unloading.

No filter sheet deformities after heat treatment No adverse effects to effects to filter sheets when in contact with hot sanitization or process filtration Increased filtration security Separator design increases the total stability of the filter cartridges as the separators fully support the sheet material.

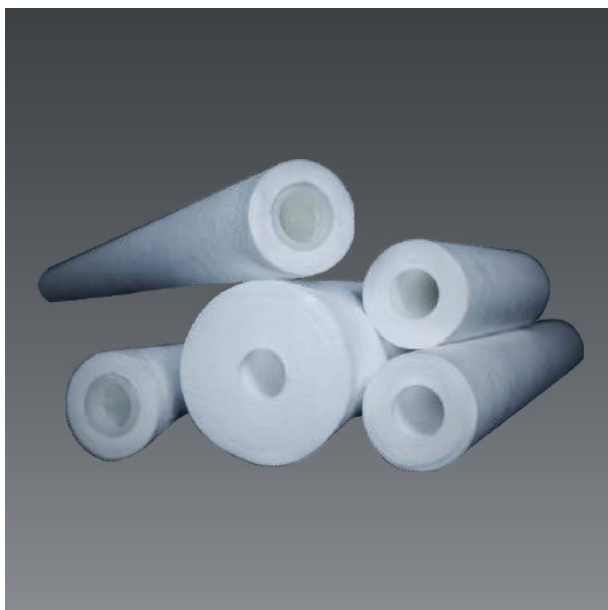
Applications

- Pharmaceuticals
- Food and beverage
- Fine chemical
- Machinery & Equipment



PP Spun Filter Cartridge

Spun bonded filter cartridges are made of 100% polypropylene fibers. The fibers have been carefully spun together to form a true gradient density from outer to inner surface. Filter cartridges available with core & without core version. The superior structure remains integral even under severe operating conditions and is no media migration. Polypropylene fibers are blown continuous on central molded core, without the need for binders, resins or lubricants. Operation Unfiltered fluid passes through depth filter matrix, enables the progressive retention of finer particles, providing high efficiency, high dirt retention & filter life. Fluid flows from outside to inside through filter media. Particulates are held securely in the filter matrix and clean fluid flows to the downstream side of cartridge.



Technical Specifications

Sizes: 10", 20", 30", 40" Long
 Micron Rating: 0.5, 1, 5, 10, 25, 50, 75, 100
 Outer Diameter: 64 mm (2.5"), 114mm (4.5"), 6", 8"
 Inner Diameter: 25mm, 28 mm, 48 mm

Construction

Spun bonded filter cartridge are made of 100% polypropylene.



Salient Features

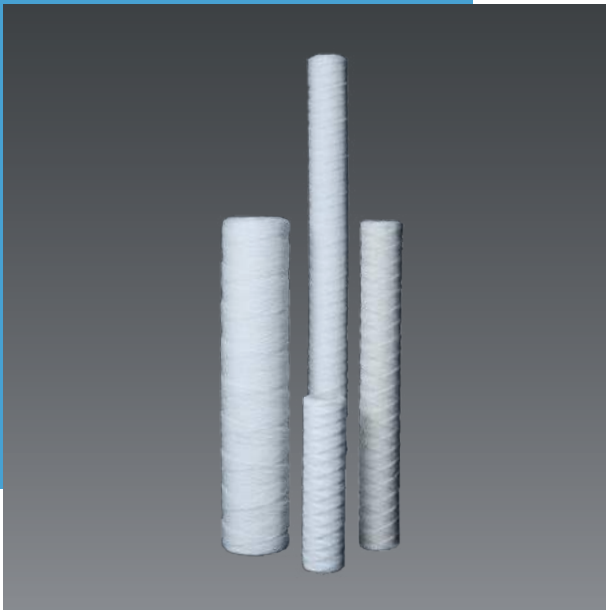
- Free of surfactants, Binders and Adhesives
- Excellent flow with low pressure drop Highdirt holding capacity .
- High strength & pressure resistance
- 100% Polypropylene for wide chemical compatibility
- Nominal & absolute filtration rating
- One piece construction up to 1016 mm & more
- 100% Polypropylene for wide chemical compatibility
- Nominal & absolute filtration rating
- One piece construction up to 1016 mm & more

Configuration

- Double Open Type (DOE Type)
- Code 7 (226 O Ring Design)

Applications

- Food & Beverages
- Pharmaceuticals
- Fine Chemicals
- Magnetic coating
- Petrochemicals
- Cosmetics
- Water Treatment
- Metal Finishing
- Electronics



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PP Wound Filter Cartridge

Wound cartridges are designed to meet the most demanding filtration duties. They offer an economic, compact, easily installed and maintained filtration system for removal of particulate removal from liquid. Wound cartridges are manufactured from a variety of carefully selected raw materials. These are processed into fibers of specific grades using the latest technology. After carding & spinning into roving they are wound into cartridges with carefully controlled micron rating. From raw material to finished products we are in control of the quality and filtration characteristics. They are appreciated due to high dirt holding capacity and to the rugged construction which allow facing different application in liquid and gas filtration. Operation Unfiltered fluid passes through depth filter matrix, enables the progressive retention of finer particles, providing high efficiency, high dirt retention & filter life. Fluid flows from outside to inside through filter media.

Configuration

- Double Open Type (DOE Type)
- Code 7 (226 O Ring Design)
-

Construction

- Polypropylene with polypropylene core
- Cotton with stainless steel core

Applications

- Polypropylene wound filter cartridge
- Organic Acids
- Oils
- Concentrated Alkalies
- Water
- Organic solvents
- Electroplating solution

Cotton wound filter cartridge

- Vegetable Oils
- Portable liquids
- Dilute Acids
- Organic solvents
- Alkalies

Salient Features

- Standard and customizes sizes fit most housings
- Filtration rating from 1 to 100 Micron
- High strength & pressure resistance
- Manufactured in continuous length
- Full range of sizes from 10" to 60" Length
- Excellent flow with low pressure drop
- High dirt holding capacity
- Compatible with a wide range of fluids
- NSF & FDA approved

Technical Specifications

Sizes:	10", 20", 30", 40", 60" Long
Micron Rating:	0.5 to 100m
Outer Diameter:	58 mm to 200mm
Inner Diameter :	25mm

List of our some valuable clients



Let's
Connect

Address

Plot No. 140-2/B/2, Opp. New Fire
Station, GIDC ind. Estate,
Ankleshwar-393002

Phone

+91 94279 33983
+91 94268 33307
+91 75679 42729

Email

ncbmfilter@gmail.com
response@ncbmindia.com
www.ncbmindia.com