

MS[®] Cartridge Filter

PP PTFE PES MCE Nylon PVDF



MS[®] Cartridge filters are simply quality filters, well packaged, and offered at a fair and competitive price. The Classic range is available in all of the major membranes including Nylon, PVDF PTFE, PES, MCE and PP which comes in various sizes for filtration volumes of a few liters to several hundred thousand liters.

MS[®] Cartridge filters are specially designed and developed for bioburden reduction and sterilization of liquids in SVP, LVP, Sterile API, Fermentation, and Vaccine manufacture.

Despite the attractive pricing, the emphasis is very much on quality. Membrane materials are supplied by the best names in the industry and the **ISO9000 certified** manufacturing is carried out to the highest standards, in certified clean room conditions, using the latest manufacturing technology to ensure a high quality, consistent product.

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MS[®] PP Cartridge Filter

Description

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 GMP and other international quality requirements. Polypropylene offers an extremely broad chemical compatibility making it suitable for many applications.

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
- Wide Compatibility
- Non Fibber Migration
- Thermally Welded Construction
- FDA Approved Filters
- End connections to fit all standard housings

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Technical Specifications

Sizes

- 5", 10", 20", 30", 40" Long

Micron Rating

- 0.2~5.0 Micron

Outer Diameter

- 70 mm

Inner Diameter

- 28 mm

Maximum Differential Pressure(25°C)

- Positive direction: 0.42Mpa
- Reverse direction: 0.21Mpa

Applicable pH value

- 3~7.5

Working Temperature& Differential Pressure

- ≤80°C(Differential Pressure:0.21 Mpa)
- Code 3 S (222 O Ring Design/flat)

Construction

- Filter Media 100 % Melt Blown Micro Denier Polypropylene Fiber
- Support Media Polypropylene Fiber
- Inner Core High Strength Polypropylene
- Outer Core High Strength polypropylene
- End Caps High Strength Polypropylene
- O Ring / Gaskets EPDM / Silicone / Fl Rubber

Applications

Fine Chemicals and Pharmaceuticals

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

Photographic Film & Paper

- Anti-Halation Coatings
- Developer Chemicals
- Emulsions
- Gelatins

Beverages

- Wine
- Alcohols
- Fruit Juice
- Beer

Electronic and Semi-Conductor

- De-ionized Water Prefiltration
- Magnetic tapes
- Premix Resins
- Tape Coatings
- Photoresists
- Metal Oxide Dispersions
- Solvents

Order Information

Product No.	Size (Length)	Micron Rating(μm)	Outer Diameter(mm)	Connect Type	O-Ring
MSPP005	5''	0.2~5.0	70	222-Insert 215-Insert 226-Wedge Crop	EPDM Silicone Fl Rubber
MSPP010	10''				
MSPP020	20''				
MSPP030	30''				
MSPP040	40''				

MS[®] PTFE Cartridge Filter

Description

PTFE Cartridges are made of polytetrafluoroethylene. PTFE are characterized by high chemical inertness. These are specifically designed for sterile filtration applications of Air & Gas Streams. They are certified bio safe, non pyrogenic & fully validated to pharmaceutical standard. PTFE and polypropylene the unique two materials used in cartridge manufacturing are chemically inert not shedding and biologically safe according to FDA, USP and EEC requirements for pharmaceutical and food contact use. PTFE Cartridge Membrane Is Used In Filtering The Highly Corrosive Solutions Such As Strong Acids, Bases Solution And Solvents. The membrane has about 80 – 95 % porosity & uniform pore size distribution. Moreover, the filtration area of each cartridge is as high as 0.7 m². Therefore it offers High flow rate, Low pressure drop & Long service life. These can be steam sterilize direct or reverse as per standard operating data.

Features & Benefits

- PTFE membrane has excellent chemical resistance
- End caps and connectors are sealed by thermal bond, free binder.
- Low pressure drop and high flow rate due to High Filtration area of 0.7m² Per 10'' cartridge
- Inherently Hydrophobic Expanded PTFE Micro Porous Membrane For Broad Chemical compatibility & to prevent moisture obstruction in venting & wet air filtration
- Absolute rated & precisely controlled pore size distribution for superior & constant bacterial retention
- Autoclave or in situ steam sterilization features
- Integrity test is possible
- FDA Approved

Technical Specifications

Sizes

- 5",10", 20",30"40" Long

Micron Rating

- 0.1~0.65 Micron

Filtration Area

- More Than 0.7m² Per 10" cartridge

Outer Diameter

- 70 mm

Inner Diameter

- 28 mm

Maximum Differential Pressure(25°C)

- Positive direction: 0.42Mpa
- Reverse direction: 0.21Mpa

Applicable PH value

- 1.0~14.0

Working Temperature& Differential Pressure

- ≤80°C(Differential Pressure:0.2 Mpa)
- Code 3 S (222 O Ring Design/flat)

Construction

- Filter Media 100 % PTFE (Poly Tetrafluoroethylene) Membrane
- Support Media Polypropylene Fiber
- Inner Core High Strength Polypropylene
- Outer Core High Strength polypropylene
- End Caps High Strength Polypropylene
- O Ring / Gaskets EPDM / Silicone / FI Rubber

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Applications

Pharmaceuticals

- Sterilization of Inlet & exhaust Flow
- Vent Filter
- Gas Purification (Like Nitrogen & Others)
- Compressed Air (Sterile Grade)
- Acid / Solvents & Base Filtration
- Wet Etching Process
- Much finer prefiltration

Electronics Industries

- Semi Conductors
- CD- R & DVD – R Factory
- Fine Filtration of DI water
- Photoelectron Chemical Filtration

Order Information

Product No.	Size (Length)	Micron Rating(mm)	Outer Diameter(mm)	Connect Type	O-Ring
MSPT005	5"	0.1~0.65	70	222-Insert 215-Insert 226-Wedge Crop	EPDM Silicone FI Rubber
MSPT010	10"				
MSPT020	20"				
MSPT030	30				
MSPT040	40				

MS[®] PES Cartridge Filter

Description

PES Cartridges are made of Poly EtherSulphone with Uniform pore distribution to ensure maximum performance in Bacterial retentions. Its upstream & down stream polyester support ensure resistance to pressure shocks. Polyethersulphone membrane is hydrophilic in nature, it allows easy integrity testing for all applications where daily controls are required. The membrane possesses broad chemical compatibilities & contains no surfactants. PES Cartridges are produced in controlled environments & under stringent production conditions that ensure filter quality & cleanliness. Their assembly is performed integrally by thermowelding. This process minimizes the presence of oxidization of substance & yield durable filter cartridges suitable for extended use. This can be sanitized by chemical agents or by inline steaming. PES and polypropylene the unique two materials used in cartridge manufacturing are chemically inert not shedding and biologically safe according to F.D.A., USP and EEC requirements for pharmaceutical and food contact use. The filtration area of each cartridge is as high as 0.56 m². Therefore it offers High flow rate, Low pressure drop & Long service life.

Features & Benefits

- PES Membrane is inherently Hydrophilic with excellent Hydrolytic stability & chemical compatibility
- Specific Pore size distribution for full bacterial retention to assure sterile effluent even under process upsets
- End caps and connectors are sealed by thermal bond, free binder.
- Low pressure drop and high flow rate due to High Filtration area of 0.56m² Per 10" cartridge
- Absolute rated
- Autoclave or in situ steam sterilization features
- Integrity test is possible
- FDA Approved

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Technical Specifications

Sizes

- 5",10", 20",30"40" Long

Micron Rating

- 0.22, 0.45 Micron

Filtration Area

- More Than 0.56m² Per 10" cartridge

Outer Diameter

- 70 mm

Inner Diameter

- 28 mm

Maximum Differential Pressure(25°C)

- Positive direction: 0.42Mpa
- Reverse direction: 0.21Mpa

Applicable PH value

- 1.0~14.0

Working Temperature& Differential Pressure

- ≤80°C(Differential Pressure:0.2 Mpa)

Construction

- | | |
|--------------------|-----------------------------------|
| ➤ Filter Media | PES (Poly Ethersulphone) Membrane |
| ➤ Support Media | Polyester Fiber |
| ➤ Inner Core | High Strength Polypropylene |
| ➤ Outer Core | High Strength polypropylene |
| ➤ End Caps | High Strength Polypropylene |
| ➤ O Ring / Gaskets | EPDM / Silicone / Fl Rubber |

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Applications

- Sterilization filtration in pharmaceutical and biological industry
- Sterilization filtration for drinking water, beverage, wine and various liquids
- Terminal filtration and point-of-use filtration for high pure water and deionized water
- Purification filtration for various chemical raw material and medicament
- Much finer prefiltration

Order Information

Product No.	Size (Length)	Micron Rating(μm)	Outer Diameter(mm)	Connect Type	O-Ring
MSPE005	5"	0.22/0.45	70	222-Insert 215-Insert 226-Wedge Crop	EPDM Silicone Fl Rubber
MSPE010	10"				
MSPE020	20"				
MSPE030	30"				
MSPE040	40"				

MS[®] MCE Cartridge Filter

Description

MCE Cartridges are made of Mixed Cellulose Ester with Uniform pore distribution to ensure maximum performance in Bacterial retentions. Its upstream & down stream polyester support ensure resistance to pressure shocks. Mixed Cellulose Ester membrane is hydrophilic in nature, it allows easy integrity testing for all applications where daily controls are required. The membrane possesses broad chemical compatibilities & contains no surfactants. MCE Cartridges are produced in controlled environments & under stringent production conditions that ensure filter quality & cleanliness. Their assembly is performed integrally by thermowelding. This process minimizes the presence of oxidization of substance & yield a durable filter cartridges suitable for extended use. This can be sanitizes by chemical agents or by inline steaming. MCE and polypropylene the unique two materials used in cartridge manufacturing are chemically inert not shedding and biologically safe according to F.D.A., USP and EEC requirements for pharmaceutical and food contact use. The filtration area of each cartridge is as high as 0.70 m². Therefore it offers High flow rate, Low pressure drop & Long service life.

Features & Benefits

- The membrane stack consists of MCE reinforced type micropore membrane and imported deflector layer.
- Better hydrophilicity; great water flux and better cutoff effect
- Small adsorbability
- Possessing better performance of high-temperature resistance
- Experiencing 100% integrity test before ex-factory
- Each Pharmaceutical Grade filter cartridge has been washed by injection water

Technical Specifications

Sizes

- 5",10", 20",30"40" Long

Micron Rating

- 0.1~5.0 Micron

Filtration Area

- More Than 0.7 m² Per 10" cartridge

Outer Diameter

- 70 mm

Inner Diameter

- 28 mm

Maximum Differential Pressure(25°C)

- Positive direction: 0.42Mpa
- Reverse direction: 0.21Mpa

Applicable PH value

- 3~7.5

Working Temperature& Differential Pressure

- ≤80°C(Differential Pressure:0.2 Mpa)

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)

Construction

- Filter Media 100 % MCE (Mixed Cellulose Ester) Membrane
- Support Media Polypropylene Fiber
- Inner Core High Strength Polypropylene
- Outer Core High Strength polypropylene
- End Caps High Strength Polypropylene
- O Ring / Gaskets EPDM / Silicone / Fl Rubber

Applications

- Great infusion for medical purpose
- Variety of pure water and medicine liquid
- Terminal filter for mineral water
- Pure water after reverse osmosis
- Food & Beverage etc
- filter for high pure water
- Much finer prefiltration

Order Information

Product No.	Size (Length)	Micron Rating(μm)	Outer Diameter(mm)	Connect Type	O-Ring
MSMC005	5"	0.1~5.0	70	222-Insert 215-Insert 226-Wedge Crop	EPDM Silicone Fl Rubber
MSMC010	10"				
MSMC020	20"				
MSMC030	30"				
MSMC040	40"				

MS[®] Nylon Cartridge Filter

Description

Nylon cartridges are precisely manufactured for use in critical filtration applications within food, pharmaceuticals, biotech, dairy, beverages, brewing, semiconductor, water treatment & other demanding process industries. It's upstream & down stream polyester support ensure resistance to pressure shocks. Nylon membrane is hydrophilic in nature. The membrane possesses broad chemical compatibilities & contains no surfactants. Nylon Cartridges are produced in controlled environments & under stringent production conditions that ensure filter quality & cleanliness. Their assembly is performed integrally by thermowelding. This process minimizes the presence of oxidization of substance & yield a durable filter cartridges suitable for extended use. This can be sanitized by chemical agents or by inline steaming. Nylon and polypropylene the unique two materials used in cartridge manufacturing are chemically inert not shedding and biologically safe according to F.D.A., USP and EEC requirements for pharmaceutical and food contact use. The filtration area of each cartridge is as high as 0.70 m². Therefore it offers High flow rate, Low pressure drop & Long service life.

Features & Benefits

- The membrane stack consists of reinforced type nylon filter membrane and imported deflector layer.
- The membrane is hydrophilic, has uniform pore size and good filter effect;
- Possessing better performance high strength and alkali-resistance
- Experiencing 100% integrity test before ex-factory
- Each Pharmaceutical Grade filter cartridge has been washed by injection water; Each Electronic Grade filter cartridge has been washed by ultra pure water

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Technical Specifications

Sizes

- 5",10", 20",30"40" Long

Micron Rating

- 0.2~5.0 Micron

Filtration Area

- More Than 0.7 m² Per 10" cartridge

Outer Diameter

- 70 mm

Inner Diameter

- 28 mm

Maximum Differential Pressure(25°C)

- Positive direction: 0.42Mpa
- Reverse direction: 0.21Mpa

Applicable pH value

- 4~13

Working Temperature& Differential Pressure

- ≤80°C(Differential Pressure:0.2 Mpa)

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)

Construction

- Filter Media 100 %Nylon Membrane
- Support Media Polypropylene Fiber
- Inner Core High Strength Polypropylene
- Outer Core High Strength polypropylene
- End Caps High Strength Polypropylene
- O Ring / Gaskets EPDM / Silicone / FI Rubber

Applications

- Terminal filter for ultra pure water electronic industry
- Sterilization filtration for food, beverage and wine
- Drug liquid in medicine industry
- Much finer prefiltration

Order Information

Product No.	Size (Length)	Micron Rating(μ m)	Outer Diameter(mm)	Connect Type	O-Ring
MSNY005	5"	0.2~5.0	70	222-Insert 215-Insert 226-Wedge Crop	EPDM Silicone FI Rubber
MSNY010	10"				
MSNY020	20"				
MSNY030	30"				
MSNY040	40"				

MS[®] PVDF Cartridge Filter

Description

PVDF Cartridges are made of polyvinylidene Fluoride , PVDF are characterized by High protein binding, low extractable levels, wide chemical compatibility, and high chemical inertness. They are certified bio safe, non pyrogenic & fully validated to pharmaceutical standard. PVDF and polypropylene the unique two materials used in cartridge manufacturing are chemically inert not shedding and biologically safe according to FDA, USP and EEC requirements for pharmaceutical and food contact use. PVDF Cartridge Membrane is used In filtering the highly corrosive Solutions such as strong acids, bases solution and solvents. The membrane has about 80 – 95 % porosity & uniform pore size distribution. Moreover, the filtration area of each cartridge is as high as 0.7 m². Therefore it offers High flow rate, Low pressure drop & Long service life. These can be steam sterilize direct or reverse as per standard operating data.

Features & Benefits

- The membrane stack consists of reinforced-type PVDF filter membrane and imported deflector layer, and possesses superior properties of heat- resistance and chemical-resistance.
- Hydrophobic membrane with small adsorption.
- Possessing better performance of oxidation resistance and heat-resistance and wide application Experiencing 100% integrity test before ex-factory .
- Each Pharmaceutical Grade filter cartridge has been washed by injection water; Each Electronic Grade filter cartridge has been washed by ultra pure water.

Technical Specifications

Sizes

- 5",10", 20",30"40" Long

Micron Rating

- 0.2~5.0 Micron

Filtration Area

- More Than 0.7 m² Per 10" cartridge

Outer Diameter

- 70 mm

Inner Diameter

- 28 mm

Maximum Differential Pressure(25°C)

- Positive direction: 0.42Mpa
- Reverse direction: 0.21Mpa

Applicable PH value

- 1.0~14.0

Working Temperature& Differential Pressure

- ≤80°C(Differential Pressure:0.2 Mpa)

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)

Construction

- Filter Media 100 % Polyvinylidene difluoride Membrane
- Support Media Polypropylene Fiber
- Inner Core High Strength Polypropylene
- Outer Core High Strength polypropylene
- End Caps High Strength Polypropylene
- O Ring / Gaskets EPDM / Silicone / FI Rubber

Applications

- Sterilized gas filtration for food & beverage and wine;
- High pure electronic chemical liquor;
- Pharmaceutical;
- Food, beverage and making wine;
- Filtration of gas with high and low temperature and steam;
- Petrochemical industry;
- Sterilized transport of compressed air;
- Oxidizing gas and liquid;
- Fine filtration for solvent, liquor and printing ink etc;
- Much finer prefiltration

Order Information

Product No.	Size (Length)	Micron Rating(μm)	Outer Diameter(mm)	Connect Type	O-Ring
MSPV005	5"	0.2~5.0	70	222-Insert 215-Insert 226-Wedge Crop	EPDM Silicone FI Rubber
MSPV010	10"				
MSPV020	20"				
MSPV030	30"				
MSPV040	40"				