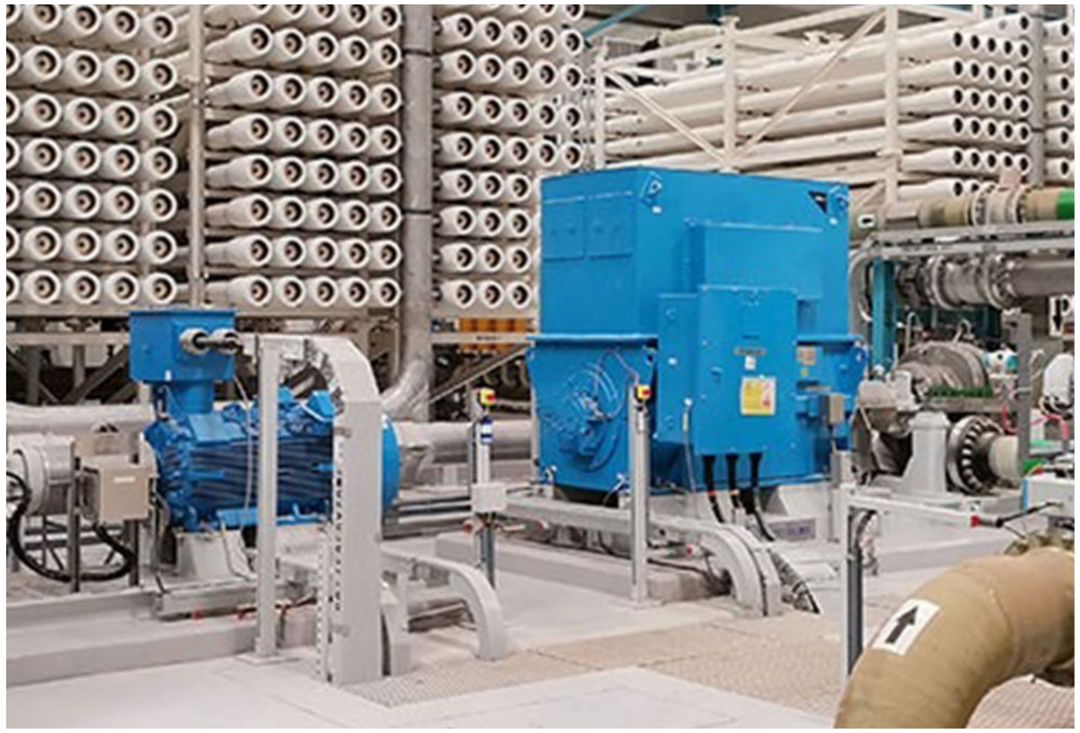
MISHITA
FILTERS



+91 76987 41177 | +91 87801 78704

www.mishitafilters.com

sales.mishitafilters@gmail.com

Vrundavan Industrial Park-3, Behind Varun Technocast, Pardi-Padavla Road, National Highway 8b, Village-Padavla Rajkot-360024

MISHITA
FILTERS

ABOUT US

Introducing Mishita Filters India Pvt. Ltd.:

Your Trusted Filter Solution Provider Established with a vision of delivering excellence, Mishita Filters has emerged as a reputable manufacturer, wholesaler, exporter, and importer of top-notch filter elements. With a strong commitment to quality and customer satisfaction, we offer a diverse range of high-performance products to cater to various industries worldwide.

WHY US

Owing to our rich industry knowledge and high-quality product range, we have attained a huge client base all across the nation. Reasons for which we have become the foremost choice of patrons are:

1. High-quality products
2. Skilled team of professionals
3. Ethical business policies
4. Easy payment modes
5. Transparent dealings
6. Wide distribution network
7. Customized packaging

WOUND FILTERS CARTRIDGE

A string wound filter cartridge is a type of filter used for liquid filtration. It consists of a cylindrical core, usually made of plastic or metal, wrapped with layers of string or yarn. The string is tightly wound around the core, creating a dense filter medium with narrow gaps between the strings. These cartridges are commonly used in various industries, including water treatment, chemical processing, and food and beverage.

The primary purpose of a string wound filter cartridge is to remove particulate matter and sediment from liquids. As the liquid flows through the cartridge, the strings capture and retain the particles, allowing the clean liquid to pass through. The efficiency of filtration depends on the size and density of the strings, as well as the tightness of the winding.

String wound filter cartridges are available in different materials, such as polypropylene, cotton, or fiberglass, which offer varying chemical compatibility and filtration capabilities. The cartridges come in various lengths and diameters to fit different filter housings or systems. They are also rated with a micron rating, indicating the particle size they can effectively filter.

These filter cartridges are relatively affordable and widely used due to their simplicity and effectiveness in removing contaminants from liquids. However, it's important to consider the specific application requirements and consult with a filtration expert to choose the appropriate string wound filter cartridge for your needs

FEATURE AND BENEFITS

The string wound filter cartridge offers several features and benefits that make it a popular choice for liquid filtration applications. Here are some key features and benefits:

1. Particle Removal

2. Versatility

3. High Filtration Efficiency

4. Wide Range Of Micron Ratings

5. Cost-effective Solution

6. Long Service Life

7. Easy Installation And Maintenance:

8. Chemical Compatibility:

APPLICATION

String wound filter cartridges have a wide range of applications across various industries. Here are some common applications:

1. WATER TREATMENT

2. CHEMICAL PROCESSING

3. FOOD AND BEVERAGE

4. PHARMACEUTICALS

5. PETROCHEMICALS AND OIL & GAS

6. ELECTRONICS AND SEMICONDUCTOR MANUFACTURING

7. AUTOMOTIVE AND METALWORKING

8. PAINTS AND COATINGS:

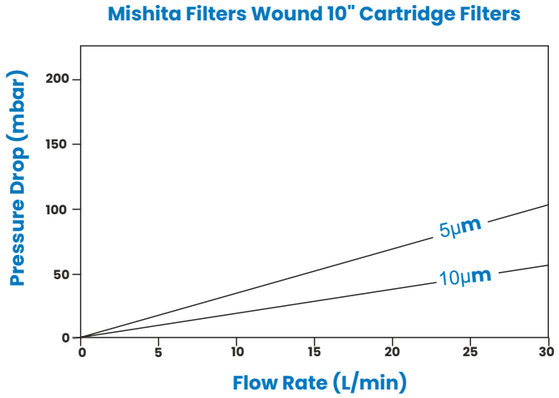
9. AGRICULTURE AND IRRIGATION:

SPECIFICATION

Materials	Filter Media - Polypropylene, Glass Fiber, Cotton	
	Core - Polypropylene, SUS 304, SUS 316	
Retention rating	1, 5, 10, 15, 20, 40, 70, 100 Micron	
Surface area	Standard (OD 61 mm)	= 0.52 ft per 10” cartridge length
	Jumbo (OD 110 mm)	= 0.94 ft per 10” cartridge length
Maximum operating conditions:	Recommended change-out differential pressure*	0.12 MPa (1.2 bar; 17.4 psid) @ 21°C (69.8°F)
	Maximum operating temperature	70°C (158°F) [Polypropylene with Polypropylene]
Dimensions (nominal)	Length	10”, 20”, 30”, 40”, 50", 60", 70"
	Standard OD/ID	61±0.5 / 27.5±0.5 mm
		Other OD & Length available on request

QUALITY AND PERFOMANCE

The quality and performance of a string wound filter cartridge depend on several factors, including the materials used, manufacturing process, design, and the specific requirements of the application. Here are some aspects that can impact the quality and performance of a string wound filter cartridge:



SOE FILTER (SINGLE OPEN ENDED)

SOE (Single Open Ended) - As the name shows, Single Open Ended cartridges have one end fixed. This seal is typically proficient by utilizing a polypropylene end cap. By utilizing a cap toward one side, filter sidestep is unthinkable, so frameworks that require higher virtue filtration commonly execute this kind of cartridge filter. The higher cost related to the end cap keeps this type from being utilized as a part of general applications.

Various Caps

Poly-222 :

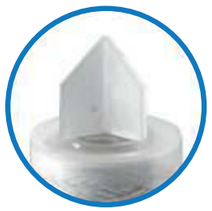
This sort of filter is quite often SOE, using a cap toward one side. They contain twofold gaskets that seal against the cartridge filter housing to provide better bypass protection than a typical DOE cartridge.

Polypro - 226 :

Also known as sanitary cartridge filters, Type 226's have double gaskets which are similar to the Type 222. Locking fins are included with this type of cartridge, which ensure proper installation of the filter. When installing this type of cartridge into the sanitary cartridge filter housing, it must be properly lined up with the opening and twisted as it is pushed in. This ensures a full lock and proper bypass protection.

Flat / Closed End :

Typically used with DOE and Type 222 compatible cartridge filter housings, flat end cartridges are SOE with a flat plastic cap used for the seal.



Fin :

An SOE cartidge with apointed cap insted of a flat one. it utilizes a bracket to eliminate the ability of the cartridge to sway, allowing it to maintain a seal. Type 226 cartridges may also have this end configuration.

ORDERING INFORMATION

MISHITA FILTERS WOUND

MFW

- **Seal**
  - N = No
  - E = EPDM
  - S = Silicon
  - V = Viton
  - B = Buna- N
- **Core**
  - P = Polypropylene
  - S = SUS 304
  - U = SUS 316
- **Material**
  - PP=Polypropylene
  - G = Glass Fiber
  - C = Cotton
- **End Fitting**
  - 0 = DOE
  - 1 = 222/ Flat
  - 2 = 222/ Fin
  - 3 = 226/ Flat
  - 4 = 226 / Fin
- **Diameter**
  - S = 61mm
  - J = 110mm
- **Length**
  - 10=10”
  - 20=20”
  - 30=30”
  - 40=40”
  - 50=50"
  - 60=60"
  - 70=70"
- **Micron**
  - 01 = 01M
  - 05 = 05M
  - 10 = 10M
  - 15 = 15M
  - 20 = 20M
  - 40 = 40M
  - 70 = 70M
  - 100 = 100M

standard Box Pack Information :

100 pcs. / box (for 10” standard)

50 pcs. / box (for 20” standard)

25 pcs. / box (for 30”, 40" standard)

30 pcs. / box (for 10” jumbo)

15 pcs. / box (for 20” jumbo)

PP SEDIMENT MELT BLOWN DEPTH FILTER CARTRIDGE

Introducing Mishita Filters, the pinnacle of filtration innovation. Our Melt Blown Cartridges are crafted with 100% Polypropylene, delivering exceptional filtration and thermal stability. With a unique density gradient construction, they offer maximum efficiency and minimal pressure drop. Our multi-layered depth design ensures consistent and superior performance. At Mishita Filters, we redefine filtration excellence. Our Standard PP Melt Blown Filter Cartridge (O.D: 2.S") and Big Blue PP Melt Blown Filter Cartridge (O.D: 4.0" Or 4.5") cater to diverse filtration needs. Manufactured by experienced professionals using advanced technology, our products can be customized to meet specific requirements.Experience the future of filtration with Mishita Filters—where innovation, creativity, and unrivaled performance converge.

ADVANTAGES

1. Superior Filtration
2. Exceptional Particle Retention
3. Extended Service Life
4. Optimal Flow Rates
5. Easy Installation and Maintenance
6. Versatile Applications
7. Reliable Sediment Capture
8. Wide Range of Micron Ratings
9. Temperature Resistant
10. Cost-Effective Solution

SPECIFICATION

Filter Media	100% Polypropylene Media
Length	10", 20", 30", 40", 50", 60", 70" & Customized
Inside Diameter	0.79"(20mm), 1"(25mm), 1.1"(28mm), 1.18"(30mm), 1.97"(50mm) & Cusomized
Outside Diameter	2.5"(63mm), 4"(102mm), 4.5"(114mm), 6"(152mm) & Customized
Maximum Temperature	150°F (68°C) for Polypropylene
Micron Rating	1, 3, 5, 10, 20, 25, 30, 50, 75 & 100 Micron
Initial ΔP(psi) at Flow Rate (LPM)	0.2 to 0.6 psi at 19 to 76 LPM (Depending on length and Micron Rating)
Various End Cap	Polypro-226, Polypro Core/Extender, Flat/Closed, Poly-222, Fin

Flow Rate and Pressure Drop Formulas :

$$\text{Flow Rate(1/min)} = \frac{\text{Clean } \Delta P \text{ X Length Factor}}{\text{Viscosity X Flow Factor}}$$

$$\text{Clean } \Delta P = \frac{\text{Flow Rate X Viscosity X Flow Factor}}{\text{Length Factor}}$$

Notes:
Clean ΔP is M bar differential at start
viscosity is centistokes
Flow Factor is m Bard-1/min at 1cks for 254mm (or single)
Length Factor convert flow or ΔP from 254mm (single length) to required cartridge length

ORANGE SURFACE PP MELT BLOWN DEPTH FILTER CARTRIDGE

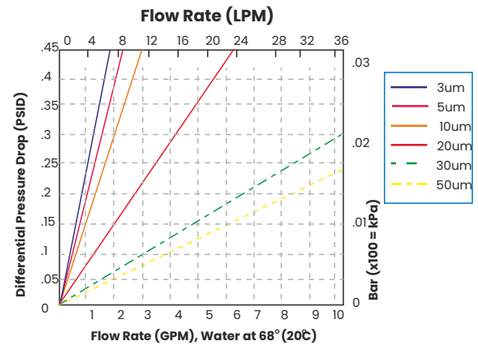
Introducing Mishita Filters' Orange Surface PP Melt Blown Filter Cartridge – the ultimate solution for consistent filtration in critical liquid processes. With advanced thermally bonded technology and a unique wrinkled finish, our cartridges ensure high-quality performance and extended service life, resulting in cost savings. Customizable to meet specific requirements, Mishita Filters revolutionizes the industry with exceptional efficiency and reliability. Experience the difference as we transform your filtration process with innovative solutions.

ADVANTAGES

1. Exceptional Filtration Efficiency
2. Broad Chemical Compatibility
3. Enhanced Dirt-Holding Capacity
4. Gradient Density Structure
5. Cost-Effective Solution
6. FDA Compliance
7. Convenient Installation and Replacement

SPECIFICATION

Filter Media	100% Polypropylene Media
Length	10", 20", 30", 40", 50", 60", 70" & Customized
Inside Diameter	1.1" (28mm) & Customized
Outside Diameter	2.5"(63mm), 4"(102mm), 4.5"(114mm) & Customized
Maximum Temperature	140°F (60°C) for Polypropylene
Micron Rating	1, 3, 5, 10, 20, 25, 30, 50, 75 & 100 Micron
Max Pressure Drop	Depending on length and Micron Rating
Various End Cap	Polypro-226, Polypro Core/Extender, Flat/Closed, Poly-222, Fin



GROOVED SURFACE PP MELT BLOWN DEPTH FILTER CARTRIDGE

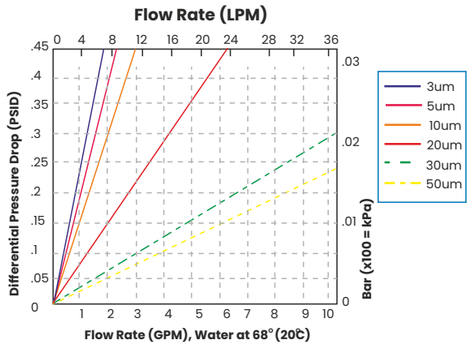
Discover Mishita Filters' Grooved Surface PP Melt Blown Filter Cartridge, a technological marvel in depth filtration. With a grooved spun bonded design, our cartridges deliver exceptional particle removal efficiency at high flow rates. Made from premium polypropylene material, they are free from binders, additives, and lubricants, ensuring pure filtration. As a leading manufacturer from India, we offer customizable specifications to meet your unique requirements. Experience filtration excellence with Mishita Filters as we redefine industry standards with our innovative solutions.

ADVANTAGES

1. Enhanced filtration performance with groove pattern
2. Exceptional Particle Retention
3. High dirt-holding capacity for longer filter life
4. Efficient removal of large particles
5. Gradient density structure for better filtration
6. Wide chemical compatibility
7. Easy installation and replacement
8. Cost-effective solution

SPECIFICATION

Filter Media	100% Polypropylene Media
Length	10", 20", 30", 40", 50", 60", 70" & Customized
Inside Diameter	1.1"(28mm) & Cusomized
Outside Diameter	2.5"(63mm), 4"(102mm), 4.5"(114mm) & Customized
Maximum Temperature	140°F (60°C) for Polypropylene
Micron Rating	1, 3, 5, 10, 20, 25, 30, 50, 75 & 100 Micron
Max Pressure Drop	Depending on length and Micron Rating
Various End Cap	Polypro-226, Polypro Core/Extender, Flat/Closed, Poly-222, Fin



ORANGE SURFACE PP MELT BLOWN DEPTH FILTER CARTRIDGE

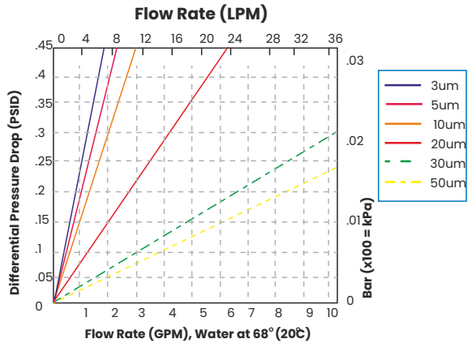
Introducing Mishita Filters' Orange Surface PP Melt Blown Filter Cartridge – the ultimate solution for consistent filtration in critical liquid processes. With advanced thermally bonded technology and a unique wrinkled finish, our cartridges ensure high-quality performance and extended service life, resulting in cost savings. Customizable to meet specific requirements, Mishita Filters revolutionizes the industry with exceptional efficiency and reliability. Experience the difference as we transform your filtration process with innovative solutions.

ADVANTAGES

1. Exceptional Filtration Efficiency
2. Broad Chemical Compatibility
3. Enhanced Dirt-Holding Capacity
4. Gradient Density Structure
5. Cost-Effective Solution
6. FDA Compliance
7. Convenient Installation and Replacement

SPECIFICATION

Filter Media	100% Polypropylene Media
Length	10", 20", 30", 40", 50", 60", 70" & Customized
Inside Diameter	1.1" (28mm) & Customized
Outside Diameter	2.5"(63mm), 4"(102mm), 4.5"(114mm) & Customized
Maximum Temperature	140°F (60°C) for Polypropylene
Micron Rating	1, 3, 5, 10, 20, 25, 30, 50, 75 & 100 Micron
Max Pressure Drop	Depending on length and Micron Rating
Various End Cap	Polypro-226, Polypro Core/Extender, Flat/Closed, Poly-222, Fin



ORDERING INFORMATION

MISHITA FILTERS Melt Blown Filter Cartridge.

MFMB

Micron
01 = 01M
05 = 05M
10 = 10M
15 = 15M
20 = 20M
40 = 40M
70 = 70M
100 = 100M

Length
10=10”
20=20”
30=30”
40=40”
50=50"
60=60"
70=70"

Diameter
S = 61mm
J = 110mm

End Fitting
0 = DOE
1 = 222/ Flat
2 = 222/ Fin
3 = 226/ Flat
4 = 226 / Fin

Material
PP=Polypropylene

Core
N = No Inner Core
P = PP Core

Seal
N = No
E = EPDM
S = Silicon
V = Viton
B = Buna- N

Surface Treatment
0 = Flat
1 = Groove
2 = Micro - Line
3= Orange - Peel

standard Box Pack Information :

100 pcs. / box (for 10” standard)
50 pcs. / box (for 20” standard)
25 pcs. / box (for 30”, 40" standard)
30 pcs. / box (for 10” jumbo)
15 pcs. / box (for 20” jumbo)

HIGH FLOW CARTIDGES

Experience industry revolution with Mishita Filter's PP Pleated and glass fiber cartridges. Advanced tech ensures superior micron ratings, high flow rates, and unmatched contaminant holding. Innovative pleated design maximizes filtration area for optimal throughput and longevity.6 inch/152mm diameter, coreless cartridges reduce costs, vessel size, and installation. Crafted from FDA-approved polypropylene and glass fiber for chemical inertness and biological safety. Ideal for food, pharmaceuticals, biotech, and more. Elevate your filtration systems with Mishita Filter's efficient, hassle-free cartridges.

FEATURES

- High dirt holding capacity
- High flow rates and low-pressure drop
- Chemically inert and biologically safe
- Wide chemical compatibility
- Easy to install and replace
- Suitable for food, pharmaceuticals, biotech, dairy, beverages, brewing, semiconductor, water treatment, and other demanding process industries
- Reduced capital investment and installation costs
- Reduced operating costs
- Long service life and high throughput due to pleated design and large filtration area.

SPECIFICATION

Materials	FDA approved polypropylene and glass fiber	
Filter Media	Gradient density microfiber	
Filtration Rating	0.2, 0.45, 1, 3, 5, 10, 20, 40, 70, and 100 microns	
Length	20", 40", 60"	
Diameter	Outer Diameter	6"/152mm
	Inner Diameter	3.5"/89mm
Flow Direction	Inside to outside	
Operating Temperature	82°C	
Maximum Operating Pressure	4.2bar @25°C	
End Caps	Polypropylene	
Gaskets	EPDM, Viton, or silicone	
Certification	FDA compliant, ISO 9001:2015 certified	

ORDERING INFORMATION

MISHITA FILTERS High Flow Cartridge.

MFHF _ _ _ _ _ _ _ _

Micron
02 = 0.22M
045 = 0.45M
01 = 01M
05 = 5M
10 = 10M
15 = 15M
20 = 20M

Length
20=20”
40=40”
60=60"

Diameter
S = 6"

End Fitting
C = Cusomize

Material
C = Cusomize

Core
C = Cusomize

Seal
E = EPDM
S = Silicon
V = Viton
B = Buna- N

Filtration Efficiency
N = Nominal
A = Absolute

PLEATED FILTER CARTRIDGES

Mishita Filters, a premier filtration solutions provider based in India, presents top-tier polypropylene pleated filter cartridges. Ideal for critical filtration in industries like food, pharmaceuticals, and more, these cartridges employ advanced gradient-density microfiber media for exceptional micron ratings, elevated flow rates, and remarkable contaminant retention. Crafted with 100% FDA-approved polypropylene, they ensure safety and chemical compatibility. Benefit from heightened dirt-holding capacity, minimal pressure drop, and extended lifespan, all contributing to cost-effective filtration solutions tailored to your needs.

FEATURES

- High flow rate and dirt holding capacity
- Gradient density microfiber media technology
- Combination of excellent micron ratings and high contaminant holding capacities
- Biologically safe and chemically inert components used in the manufacturing process
- Meet FDA and other international quality requirements
- Broad chemical compatibility, making it suitable for many applications
- Available in standard and customized lengths and micron ratings

Suitable for use in critical filtration applications in various industries including food, pharmaceuticals, biotech, dairy, beverages, brewing, semiconductor, water treatment, and other demanding process industries.

SPECIFICATION

Filter Media	Polypropylene microfiber
Core	Polypropylene
End Caps	Polypropylene
Length	10", 20", 30", 40" or customized
Micron Rating	0.1µm, 0.22µm, 0.45µm, 1µm, 5µm, 10µm, 20µm, 30µm, 50µm, 75µm, 100µm, 150µm, 200µm, 250µm
Maximum Operating Temperature	82°C
Maximum Differential Pressure:	4.2 bar at 25°C

ORDERING INFORMATION

MISHITA FILTERS Pleated Cartridge.

MFPC

Micron
02 = 0.22M
045 = 0.45M
01 = 01M
05 = 5M
10 = 10M
15 = 15M
20 = 20M

Length
10 = 10”
20 = 20”
30 = 30”
40 = 40”
50 = 50”
60 = 60”
70 = 70”

Diameter
S = 69mm

End Fitting
0 = DOE
1 = 222/Flat
2 = 222/Fin
3=226/Flat
4=226/Fin

Material
PP = Polypropylene

Core
P = PP Core

Seal
E = EPDM
S = Silicon
V = Viton
B = Buna- N

Filtration Efficiency
N = Nominal
A = Absolute

FILTER BAGS

Mishita Filters offers a range of high-quality filter bags designed to provide excellent filtration performance for a wide range of industrial applications. The filter bags are available in various media types, including needle felt, monofilament, and multi-filament, and are carefully selected to meet the specific requirements of the process industry.

The filter bags are suitable for use in a variety of applications, including paint, ink, and resin filtration, food and beverage processing, wastewater treatment, and more. They are designed to remove solid particulates from liquids with high contamination levels or highly viscous fluids that are difficult to filter.

SPECIFICATION

Available In Media Types	needle felt, monofilament, and multi-filament
Material Options Include	polypropylene, polyester, high-temperature resistant materials, oil absorbent materials, woven mesh material, and antistatic materials
Bag sizes range from 4" to 7" diameter and 8" to 32" length	
Maximum operating temperature ranges from 200°F to 500°F	

TYPES OF FILTER BAGS

Standard Felt Bags :

made of polypropylene or polyester, suitable for general-purpose filtration applications.

High-Temperature Felt Bags :

made of special high-temperature resistant materials, suitable for high-temperature applications up to 500°F.

Oil Absorbent Bags :

made of special absorbent materials that can remove oil and other hydrocarbons from water.

Mesh Bags : made of woven mesh material, suitable for high flow-rate applications and coarse filtration.

Multi-Layer Bags : made of multiple layers of filter media to provide a high level of filtration efficiency.

Antistatic Bags : made of special materials that can reduce static electricity buildup, suitable for explosive dust or powder applications.

Mishita Filters offers custom filter bags to meet specific application requirements, ensuring optimal filtration performance and longer filter life.

FEATURES

- Suitable for a wide range of industrial applications, including paint, ink, and resin filtration, food and beverage processing, and wastewater treatment
- Designed to remove solid particulates from liquids with high contamination levels or highly viscous fluids that are difficult to filter
- Custom filter bags available to meet specific application requirements
- High-quality filter media and construction ensure excellent filtration performance and long service life