

Datasheet TechBag-F

Needle-Felt Filter Bags

High-performance needle-felt filter bags for efficient depth filtration and high dirt holding capacity

Our felt filter bags are designed for applications requiring high dirt holding capacity and reliable depth filtration. The needle felt structure creates a three-dimensional filtration matrix, allowing particles to be captured throughout the entire media thickness rather than only on the surface.

This depth filtration principle results in extended service life, stable performance under higher contamination loads, and reduced change-out frequency. Felt filter bags are particularly suitable for clarification, pre-filtration, and processes involving higher particle concentrations or viscous fluids.



Key Features

- Available in Polypropylene (PP), Polyester (PE), Polyamide (NY), PTFE (PTFE), and Nomex® (NX)
- Filter bags offer excellent chemical resistance, mechanical strength, and dependable performance across a wide range of industrial applications
- Available with sewn in steel ring, GAF-style & FSI-style collars
- High dirt holding capacity ensures long service life before blockage
- Silicone free manufacturing
- Bypass Free
- Low cost bulk particulate removal
- European manufactured

Technical Specifications

Micron Rating Table

Available Micron Rating	0.5	1	5	10	25	50	75	100	150
Part Code	050	01	05	10	25	50	75	100	150
PE - Polyester	*	*	*	*	*	*	*	*	*
PP - Polypropylene	*	*	*	*	*	*	*	*	*
NY - Nylon / Polyamide		*	*		*	*		*	
PTFE - PTFE		*		*	*	*			
NX - Nomex		*	*	*	*	*		*	

Parameter	Specifications
Filter Media	PE - Polyester Needle Felt PP - polypropylene Needle Felt NY - Nylon (Polyamide) Needle Felt PTFE - PTFE Needle Felt NX - Nomax Needle Felt
Filter Type	Depth Bag Filter
Maximum Operating Temperature	PE 120°C PP 80°C NY 120°C PTFE 260°C NX 205°C
Sizes	Size 1 180mm Ø x 430mm length Size 2 180mm Ø x 810mm length Size 3 105mm Ø x 230mm length Size 4 105mm Ø x 380mm length Special sizes available on request
Max Flow Rate (typical based on water)	Size 1 20 m3/hr Size 2 40 m3/hr Size 3 6 m3/hr Size 4 12 m3/hr
Surface Area	Size 1 0.25 m2 Size 2 0.50m2 Size 3 0.08m2 Size 4 0.13m2
Service Life	Application dependent (oil load or time based)

Disclaimer

All information provided is indicative and subject to change without prior notice. Final suitability must be confirmed by application-specific evaluation and testing.

Applications

- Process water filtration
- Industrial feed water
- Liquid Sugar & other food & beverage applications
- Paints, Resins & coatings
- High viscosity fluids
- Cooling water and condensate treatment
- Treatment of wash water and cleaning effluents
- Chemical filtration and clarification

Installation

- Install in a compatible industrial filter housing
- Ensure correct flow direction where applicable
- Commission system according to operating guidelines

Maintenance

- Not regenerable; replace once blocked
- Recommended change-over dP - 1.5 bar
- Maximum dP - 2.5 bar
- Dispose of used filters in accordance with local environmental regulations

Certifications & Compliance *

- The filter element is FDA compliant in accordance with CFR Title 21, Part 177, and meets the requirements of EC 1935:2004 and EU 10/2011, making it suitable for safe contact with food and beverage applications

*PP and PE media only

Ordering information

Media	Micron Rating	Size	Collar Type
PE - Polyester	According to table	L01 - Size 1	S - Plastic Sentinel / GAF Style
PP - Polypropylene		L02 - Size 2	P - Plastic Polylock / FSI Style
NY - Nylon		L03 - Size 3	RG - Steel ring
PTFE - PTFE		L04 - size 4	
NX - Nomex			

Example article code:

PP25L02PG

Example article description:

TechBag-F, Polypropylene filter bag, 25um, Size 2, Steel ring collar