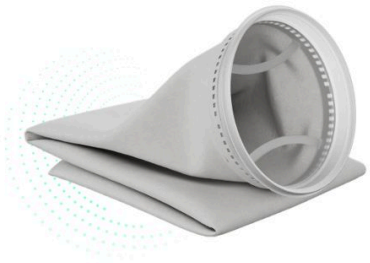
LIQUID BAG FILTERS

Polyester Felt Bag Filter

Binder-free depth filter bag made from 100% polyester fibres by the needle-punched felt method. With a 1–200 µm range and 135 °C resistance, it is used on hydraulic and lubricating oil, paint and coating, automotive washing and chemical processing lines.



PRECISION	MAX. TEMPERATURE	CHEMICAL RESISTANCE	SIZE
1–200 µm	**135 °C**	**pH 4–9**	**Ø 100–180**
Nominal depth filtration	275 °F · continuous	Not for strong acids and bases	230–810 mm length

Technical specifications

Filter medium	100% polyester needle-punched felt; nonwoven depth fibre matrix
Micron ratings	1 · 5 · 10 · 25 · 50 · 75 · 100 · 150 · 200 µm
Filtration type	Depth filtration · nominal · inside-out flow
Diameter / length	Ø 100–180 mm · 230–810 mm
Max. operating temperature	135 °C (275 °F) continuous
Recommended change-out ΔP	2–2.5 bar
pH range	4–9; not used with strong acids and bases, ketones, esters or chlorinated solvents
Oils and fuels	Stable in oils and fuels; high efficiency with oily products
Surface finish	Thermo-mechanical surface finish; reduces loose fibre release
Seam construction	5-thread industrial stitching (not made ultrasonically welded)
Collar types	PP ring · Steel ring · Drawstring · Fabric flange · Plain top · Snap band
Specific gravity	1.38 g/cm³
Binder content	Free of binders, adhesives, silicone and resins
Food compatibility	For food applications, confirm raw material suitability and documents with our technical team
Usage type	Single use

Standard bag sizes

SIZE (MM)	DESCRIPTION	AREA (M²)
180 × 430	Large diameter · short length	~0.25
180 × 810	Large diameter · long length (most common)	~0.50
100 × 230	Small diameter · short length	~0.08
100 × 380	Small diameter · long length	~0.14

Area values are approximate and vary with bag length and weld/seam allowance. Custom production to sample for older or imported housings.

Micron options

MICRON (µM)	LEVEL	TYPICAL APPLICATION
1–5	Very fine	Final filtration, clarification
10–25	Fine	Fine chemicals, drinking water
50–75	Medium	Process water, pre-filtration
100–200	Coarse	Cooling towers, coarse particles

Collar options

PP ring
Polypropylene ring stitched to the bag; for lines where chemical resistance matters.

Steel ring (snap ring)
Galvanised or stainless steel ring; the most widely used, economical standard collar.

Drawstring
Tied by hand to a pipe outlet or special hanger with the drawstring.

Fabric flange
Flange collar made from the same felt as the bag; compressed between housing and lid to seal.

Plain top
No ring; for machines with a special clamping device.

Snap band
The flexible steel band clicks into its seat; allows fast bag change-outs.

Use and maintenance

- Choose a bag about 10 cm longer than the support basket; a bag the same length as the basket cannot reach the bottom and tears at the base under pressure.
- Install inlet/outlet pressure gauges; replace the bag when ΔP reaches 2–2.5 bar. Avoid water hammer.
- Monitor temperature near 135 °C; on lines outside pH 4–9 or with mainly solvents, use PP felt or PTFE.
- Felt bags are single use; they are not washed and reused.
- If you are not sure of the collar type, send a photo or sample of your current bag; an exact replica will be made.

Values in this data sheet are typical and for information only. Product selection should be made with our engineers based on process fluid, temperature, pressure and flow conditions. Proses T.İ.M. reserves the right to change product specifications without prior notice.

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