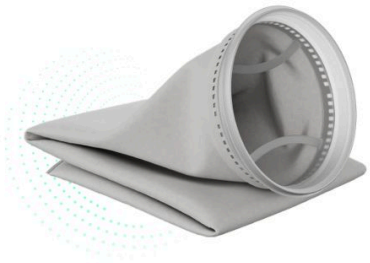
LIQUID BAG FILTERS

Polypropylene Felt Bag Filter

Binder-free depth filter bag made from 100% PP fibres by the needle-punched felt method. With a 1–200 µm range and pH 1–14 chemical resistance, it is used for liquid filtration up to 90 °C on chemical, food, water treatment and metalworking lines.



PRECISION	CHEMICAL RESISTANCE	MAX. TEMPERATURE	SIZE
1–200 µm	**pH 1–14**	**90 °C**	**Ø 100–180**
Nominal depth filtration	Acidic and alkaline solutions	194 °F · continuous	230–810 mm length

Technical specifications

Filter medium	100% polypropylene (PP) needle-punched felt; nonwoven, uniform depth fibre structure
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	90 °C (194 °F) continuous
Recommended change-out ΔP	2–2.5 bar
pH range	1–14 · high resistance to acids and alkalis; confirm for strong oxidising acids
Solvent compatibility	May swell in solvent-based liquids; compatibility must be confirmed
Surface finish	Singed (prevents fibre migration) · Glazed (calendered)
Seam construction	Fully ultrasonically welded · 5-thread industrial stitching
Collar types	PP ring · Steel ring · Drawstring · Fabric flange · Plain top · Snap band
Specific gravity	0.91 g/cm³
Binder content	Free of binders, resins, adhesives and silicone
Food compatibility	Raw material suitable for food contact; consult our technical team for documents

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
Stitched or welded polypropylene ring; 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.
- At fine ratings such as 1–5 µm, use an ultrasonically welded bag to prevent needle-hole leakage.
- Install inlet/outlet pressure gauges; replace the bag when ΔP reaches 2–2.5 bar. Avoid sudden pressure surges.
- If the liquid is above 90 °C, use polyester felt; felt is not fully cleaned by washing, so fit a new bag on critical lines.
- 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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