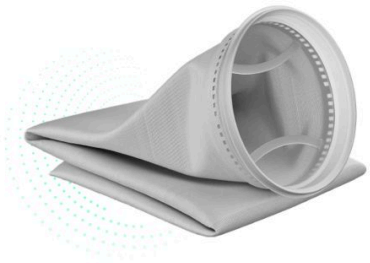
LIQUID BAG FILTERS

Multifilament Polypropylene Bag Filter

Surface filter bag made by twisting and weaving many fine polypropylene filaments. With a 75–1,500 µm range and pH 1–14 chemical resistance, it is used for economical coarse filtration of acid- and alkali-containing process liquids up to 82 °C.



CHEMICAL RESISTANCE	FILTRATION	MAX. TEMPERATURE	CHANGE-OUT ΔP
pH 1–14	**75–1,500 µm**	**82 °C**	**2–2.5 bar**
Acids, alkalis, many solvents	Nominal surface filtration	180 °F	Recommended change-out pressure

Technical specifications

Filter medium	100% multifilament polypropylene (PPMU) woven filter fabric
Micron ratings	75 · 100 · 150 · 200 · 250 · 300 · 400 · 600 · 800 · 1,000 · 1,200 · 1,500 µm
Filtration type	Surface filtration · nominal
Yarn structure	Twisted multifilament polypropylene yarn, woven
Max. operating temperature	82 °C (180 °F)
Recommended change-out ΔP	2–2.5 bar
Chemical resistance	pH 1–14 · acids, alkalis and many solvents
Food compatibility	Raw material suitable for food contact
Silicone content	Silicone-free construction
Seam construction	Industrially stitched · Ultrasonically welded
Pressure drop	Open-pore weave; low pressure drop at high flow rates
Collar types	PP ring · Steel ring · Drawstring · Plastic flange · Plain top · Snap band
Reuse	Limited; pore geometry is not fully recovered after washing
Custom production	Non-standard size and micron combinations

Temperature and chemical resistance

Chemical
Compatible with acids, alkalis and many solvents across the full pH 1–14 range; works in corrosive liquids where polyester falls short.

Temperature
Up to 82 °C (180 °F); at higher temperatures polyester multifilament or polyamide monofilament is preferred.

Food
Silicone-free raw material suitable for food contact; can be used in food and beverage applications.

PP vs polyester multifilament

Polypropylene
Wider chemical resistance across pH 1–14; an advantage in applications containing acids and alkalis.

Polyester
Temperature resistance up to 135 °C; if temperature is the limiting factor, polyester is preferred.

Reuse
Limited washing is possible; monofilament bags are more suitable for reuse.

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.

Plastic flange
The plastic collar seats on the housing to seal; suitable for high-pressure systems.

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

- Select the micron rating by the smallest particle size to be retained; if an exact micron cut-off is needed, use a monofilament bag.
- Replace the bag when the differential pressure reaches 2–2.5 bar.
- Make sure the process temperature does not exceed 82 °C.
- If reuse is intended, choose a monofilament bag; the multifilament structure is not fully recovered by washing.
- 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.

PROSES T.İ.M.®
Proses Ticaret İmalat Mühendislik Ltd. Şti.
Musa Gündüz Cad. No:14 Taşköprü, Çiftlikköy / Yalova, Türkiye

+90 226 353 35 70 · Head office
sales@prosestim.com
prosestim.com/en

Product page