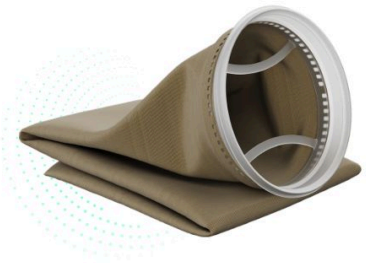
LIQUID BAG FILTERS

Multifilament Cotton Bag Filter

Surface filter bag woven from multi-yarn natural cotton, silicone-free and additive-free. Used for general-purpose coarse filtration of food, beverage, vegetable oil and oil-containing process liquids in the 75–1,500 µm range and up to 90 °C.



MATERIAL	FILTRATION	MAX. TEMPERATURE	COLLAR TYPE
100% cotton	**75–1,500 µm**	**90 °C**	**6 options**
Multifilament natural cotton	Nominal surface filtration	Above this, PE or nylon	PP ring, steel ring, drawstring…

Technical specifications

Filter medium	100% multifilament natural cotton 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	Multi-yarn (multifilament) weave formed by twisting fine cotton fibres
Max. operating temperature	90 °C
Chemical resistance	Moderate to common acids and alkalis · limited to strong solvents
Oil retention	Lipophilic fibre; partially absorbs non-emulsified free oil
Silicone content	Silicone-free, additive-free natural structure
Dirt-holding capacity	Spaces between filaments; higher than monofilament
Seam construction	Double-row industrial stitching
Collar types	PP ring · Steel ring · Drawstring · Plastic flange · Plain top · Snap band
Wet standing	Risk of biodegradation; remove the bag and store dry during long stoppages
Custom production	Non-standard size and micron combinations

Temperature and chemical resistance

Temperature
Operates up to 90 °C; at higher temperatures polyester or nylon multifilament is preferred.

Chemical
Moderate resistance to common acids and alkalis; limited resistance to strong solvents.

Moisture and storage
Works normally in liquid filtration; wet standing and humid storage create a risk of bacteria and rot.

Cotton vs polyester multifilament

Cotton multifilament
Natural, additive-free raw material; partially absorbs free oil. Preferred for food and oil-containing applications.

Polyester multifilament
Chemical resistance and 135 °C temperature resistance; preferred for chemically demanding processes.

Oil retention limit
Only non-emulsified free oil is retained; this mechanism does not work with emulsified oil.

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

- Make sure the process temperature does not exceed 90 °C; on hotter lines use polyester or nylon multifilament.
- During line stoppages remove the bag from the housing and store it dry; wet standing leads to biodegradation.
- Do not expect oil retention in liquids containing emulsified oil; the fibre only partially absorbs free oil.
- On lines containing strong solvents, confirm chemical compatibility before start-up.
- 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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