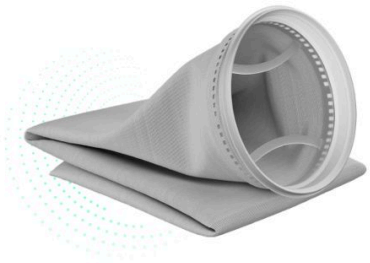
LIQUID BAG FILTERS

# Multifilament Polyester Bag Filter

Surface filter bag woven from yarn made by twisting several fine polyester filaments. Used for economical filtration of coarse and medium-sized particles on general industrial liquid lines in the 75–1,500 µm range and up to 135 °C.



| MATERIAL | FILTRATION | MAX. TEMPERATURE | CHANGE-OUT ΔP |
|---|---|---|---|
| **Polyester** | **75–1,500 µm** | **135 °C** | **2–2.5 bar** |
| 100% multifilament weave | Nominal surface filtration | 275 °F | Recommended change-out pressure |

## Technical specifications

| | |
|---|---|
| Filter medium | 100% multifilament polyester (PEMU) 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 yarn; softer pore profile |
| Max. operating temperature | 135 °C (275 °F) |
| Recommended change-out ΔP | 2–2.5 bar |
| Chemical compatibility | Solvents · water-based liquids · general chemicals |
| Food compatibility | Silicone-free polyester raw material suitable for food contact |
| Seam construction | Industrially stitched · Ultrasonically welded |
| Collar types | PP ring · Steel ring (snap ring) · Drawstring |
| Pressure drop | Open-pore weave; low pressure drop at high flow rates |
| Dirt-holding capacity | Spaces between filaments; higher than monofilament |
| Reuse | Limited; washing efficiency lower than monofilament |
| Custom production | Non-standard size and micron combinations |

## Temperature and chemical resistance

**Temperature**
Withstands operating temperatures up to 135 °C (275 °F).

**Chemical**
Polyester construction compatible with solvents, water-based liquids and general chemicals.

**Food**
Silicone-free raw material suitable for food contact; can be used on food and beverage lines.

## Monofilament vs multifilament

**Monofilament**
Uniform single-fibre yarn; exact, uniform pore opening, can be washed and reused.

**Multifilament**
Twisted multi-fibre yarn; softer pore profile and higher dirt-holding capacity, lower washing efficiency.

**Selection**
For critical applications needing an exact micron cut-off, a monofilament or felt bag is preferred.

## Seam options

**Industrially stitched**
Standard bag construction joined by stitching.

**Ultrasonically welded**
Stitch-free bag construction with edges joined by welding.

## 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 135 °C.
- Original permeability may not be fully restored after washing; for processes where repeated washing is intended, choose a monofilament bag.
- Request custom production for non-standard size and micron requirements.

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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