



## LFX™ Series – Liquid Filtration Excellence Engineered for Results

### LFX-PE™ – Polyester Filter Bags Technical Overview

FiltraCore Asia's **LFX-PE™ Polyester Filter Bags** are engineered for general-purpose liquid filtration where **elevated operating temperatures, mechanical strength, and chemical resistance** are essential. Constructed from **needle-punched polyester felt**, the media provides **depth filtration with high dirt-holding capacity, dimensional stability, and tensile strength**, delivering consistent retention in demanding industrial environments.



**Polyester media** offers **broad chemical compatibility**, including resistance to many organic solvents, hydrocarbons, and **diluted acids/alkalis**, making it a reliable choice for **chemical processing, coatings, industrial water treatment, and selected food & beverage applications**. With a **nominal micron**

**rating range of 1–200 µm**, LFX-PE™ combines extended service life with **predictable differential-pressure behaviour**, even under high-solids or variable-load conditions.

Available in **standard trade sizes #01–#04** with multiple sealing options, LFX-PE™ integrates seamlessly into industry-standard bag filter housings, providing engineers with a robust, thermally stable media that maintains filtration performance up to **135 °C continuous** (short-term excursions to **150 °C** when fully supported).

***Reliable. Resilient. Ready for Every Flow.***

## Technical Specifications

- **Material:** 100 % polyester needle-punched felt (depth-filtration media)
- **Micron ratings (nominal):** 1 – 200 µm
- **Operating temperature:** Up to 135 °C continuous; short-term excursions to 150 °C when fully supported
- **Construction:** Welded seams (standard)
- **Collar / ring options:** Polypropylene or polyester flange; 304 stainless-steel or galvanised-steel rings (snap-seal styles also available)
- **Surface treatments:** Singed or glazed finishes to reduce fibre migration and enhance cake release
- **Compliance:** Food-contact-compliant variants available (FDA 21 CFR; EU 1935/2004 & 10/2011), subject to material/lot validation
- **Recommended ΔP change-out:** 0.8 – 1.5 bar (clean water at 20 °C, ~1 mPa·s; new bag)
- **Maximum differential pressure:** 2.5 bar at 20 °C (bag and housing integrity limit; not a continuous operating target)
- **Chemical compatibility:** Excellent with oils, hydrocarbons, many solvents and aqueous solutions; limited for strong acids/alkalis; not recommended for oxidisers – verify elastomers and ring metals against process chemistry
- **Add-ons:** Extended-length bags, handles, internal support scrims, and custom sizing available



## Nominal Dimensions & Effective Filter Area

Size Code	Nominal Dimensions (mm/inches)		Effective Filter Area (m <sup>2</sup> )
Size 01	ø 180 x 430	ø 7 x 17	0.24
Size 02	ø 180 x 810	ø 7 x 32	0.48
Size 03	ø 100 x 230	ø 4 x 9	0.08
Size 04	ø 100 x 380	ø 4 x 15	0.16

**Recommended vs. Maximum Flow Rates**

Size Code	Recommended Flow Rates <sup>2</sup> (m <sup>3</sup> /h)	Maximum Flow Rates <sup>3</sup> (m <sup>3</sup> /h)
Size 01	4.4 to 7.3	Up to 20
Size 02	8.2 to 14	Up to 40
Size 03	1.3 to 2.2	Up to 6
Size 04	2.1 to 3.6	Up to 12

*These figures are based on filtration of clean, water-like fluids with a dynamic viscosity of ~1 mPa·s (~1 cP) at 20 °C, using standard micron ratings (5–25 µm).*

*<sup>2</sup> Maximum flow rates may be reached when operating under optimal conditions, including: low-viscosity liquids, coarse micron ratings (≥100 µm), elevated system pressures, or short filter lifespans in properly sealed housing systems. Actual performance depends on fluid viscosity, contaminant load, pressure differential, and system configuration. Operating above recommended flow may shorten filter life or reduce filtration efficiency.*

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■ [sales@filtracoreasia.com](mailto:sales@filtracoreasia.com) ■ [www.filtracoreasia.com](http://www.filtracoreasia.com) ■ +65 89-FILTER (+65 89-345837)

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