



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

### LFX-NMO™ – Nylon Monofilament Mesh Filter Bags Technical Overview

Filtracore Asia's **LFX-NMO™ Nylon Monofilament Mesh Filter Bags** are engineered for precision surface filtration where dimensional stability, accurate particle retention, and minimal media migration are critical. Constructed from **nylon monofilament mesh, with food-contact-compliant variants available (FDA 21 CFR; EU 1935/2004 & 10/2011)**



**subject to lot certification**, the single-fibre woven structure provides exact micron cut-points (5 µm–1,200 µm), ensuring repeatable performance with negligible fibre shedding.

The monofilament design offers **low pressure drop at high flow rates, excellent abrasion resistance, and mechanical strength** suitable for challenging process conditions. These properties make LFX-

NMO™ ideal for clarity-critical and sanitary applications in **pharmaceuticals, fine chemicals, food & beverage, and recirculated cooling water systems.**

Designed in standard trade sizes (#01–#04) with multiple sealing options, LFX-NMO™ integrates seamlessly into industry-standard bag filter housings, **maintaining consistent flow performance and service reliability** across diverse operating environments.

***Precision Filtration. Hygienic Performance. Certified Quality.***

## Technical Specifications

- **Material:** Woven Nylon Monofilament Mesh (NMO)
- **Micron Ratings:** 5 µm to 1,200 µm (surface-rated; ≥90% retention efficiency at stated micron level, typical)
- **Operating Temperature:** Up to 135 °C (275 °F) continuous; brief excursions to 150 °C (300 °F) during start-up/cleaning
- **Construction:** Sewn seams with bound edges; Nylon 6 or 6/6 thread for chemical compatibility
- **Collar/Ring Options:** Molded polypropylene flange (standard), 304/316 stainless steel ring, galvanized steel ring, or flex-ring design. All seams are sewn (no welded seams)
- **Surface Characteristics:** Smooth single-fibre weave with consistent pore size; non-fibre-shedding; minimal media migration
- **Compliance:** Food-contact-compliant variants available (FDA 21 CFR 177.1500; EU 1935/2004 & 10/2011) subject to certification
- **Recommended ΔP Change-out:** 0.8 – 1.5 bar
- **Maximum Differential Pressure:** 2.5 bar at 20 °C
- **Chemical Compatibility:** Excellent with water, aqueous solutions, and most aliphatic organic solvents; not recommended for aromatics, ketones, strong acids, or strong oxidising agents
- **Add-Ons:** Handles, custom ring types, special labelling, and batch traceability (available upon request)



## Nominal Dimensions & Effective Filter Area

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

## Recommended vs. Maximum Flow Rates

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

<sup>1</sup> These figures are based on filtration of clean, water-like fluids with a dynamic viscosity of  $\approx 1$  mPa·s ( $\approx 1$  cP) at 20 °C, using standard micron ratings (5–25  $\mu$ m).

<sup>2</sup> Maximum flow rates may be reached when operating under optimal conditions, including: low-viscosity liquids, coarse micron ratings ( $\geq 100$   $\mu$ m), elevated system pressures, or short filter lifespans in properly sealed housing systems. For fine meshes (5–25  $\mu$ m), apply a 30–50 % reduction to the recommended flow ranges to maintain acceptable differential pressure. Figures shown assume mid-to-coarse meshes ( $\geq 50$   $\mu$ m) with clean water at 20 °C.

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.

All OEM product names are trademarks of their respective holders. Use of these names does not imply affiliation or endorsement. Compatibility is based on generic housing dimensions and performance equivalence. Images shown have been professionally enhanced for visual clarity. Actual product details and appearance may differ.



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

All information and recommendations appearing in this brochure concerning the use of products described herein are based on tests believed to be reliable. However, it is the user's responsibility to determine the suitability of such products for their own use. Since actual use is beyond our control, no guarantee, expressed or implied, is made by FiltraCore Asia regarding the effects or results of such use. FiltraCore Asia assumes no liability arising from the use of these products. This document is not to be construed as complete, as additional information may be necessary under specific conditions or due to applicable laws and regulations.

© 2025 FiltraCore Asia. All rights reserved. All trademarks and registered trademarks are the property of their respective owners.