

## User Guide

# Millex®-FG 25 mm Syringe Filter

### SLFG02550

Non-sterile.  
For research use only.

## Introduction

This document provides chemical compatibility information, instruction for use, and specifications for the Millex®-FG 25 millimeter (mm) syringe filter with male Luer-slip outlet. This syringe filter is 0.20 µm, hydrophobic, Fluoropore™ polytetrafluoroethylene (PTFE), non-sterile, single-use, and disposable. The non-sterile filters are autoclavable. Once sterilized, can be used as a sterilizing filter.

The Millex®-FG syringe filter consists of a membrane sealed in a polypropylene housing.

## Intended Use

The Millex®-FG syringe filter is recommended for filtering 10–100 milliliter (mL) volumes of organic solutions to remove particles prior to instrumentation analysis. The Millex®-FG 25 mm syringe filter consists of a 0.2 µm hydrophobic Fluoropore™ polytetrafluoroethylene (PTFE) membrane sealed in a polypropylene housing. This syringe filter is non-sterile, single use, and disposable. Once sterilized, can be used as a sterilizing filter for low volume solutions of alcohols, concentrated acids and bases, and air or gas. Typical applications include the filtration of alcohols, concentrated acids and bases, and air or gas.

## Chemical Compatibility

This Millex®-FG syringe filter with male Luer-slip outlet is compatible with aqueous, mild organic, and organic solutions.

A list of compatible chemicals is downloadable from [SigmaAldrich.com/FilterChemicalCompatibility](https://www.sigmaaldrich.com/FilterChemicalCompatibility).

## Instructions for Use

### WARNINGS:

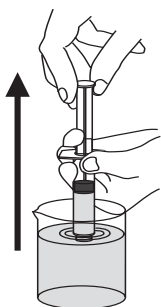
- Do not use the Millex®-FG syringe filter for direct patient care applications; it is designed for research use only.
- Do not use with syringes smaller than 10 mL because pressures in excess of the maximum pressure rating may be reached, potentially causing damage to the syringe filter and/or personal injury.
- This non-sterile Millex® filter is compatible with autoclave sterilization (liquid cycle). Sterilization by any other method (e.g., gamma irradiation, electron beam, ethylene oxide) is not recommended.

### CAUTIONS:

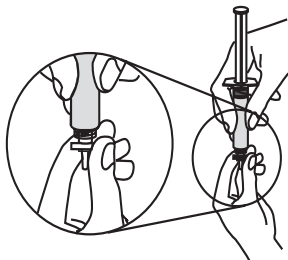
- Do not use the Millex®-FG syringe filter at temperatures above 45 °C (113 °F).
- Do not use the Millex®-FG syringe filter to filter a protein-containing solution unless binding of the sample to the filter has been evaluated.
- Do not reuse the Millex®-FG syringe filter.

For solvents, we recommend that you discard the first 1 mL or rinse with 1 to 2 mL of primary solvent before sample filtration.

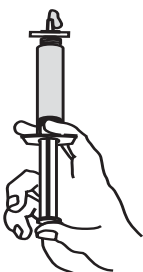
1. Fill the syringe with the solution to be filtered.



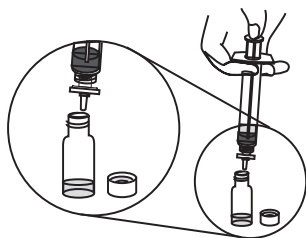
2. Attach the syringe to the Millex® syringe filter.



3. Hold the syringe with filter pointing up and "top off" by pushing a few drops through the filter.  
 ⚠ Excess fluid may be hazardous and should be disposed of with care.



4. Push the syringe plunger to deliver a filtered solution.



**Optional:** To purge the filter and maximize sample throughput, remove the Millex® filter from the syringe, draw air into the syringe, reattach the Millex® filter, and push the plunger to force some of the air through the filter.

## Specifications

<b>Housing</b>	Polypropylene
<b>Membrane</b>	Hydrophobic Fluoropore™ polytetrafluoroethylene (PTFE)
<b>Dimensions</b>	
Inlet to outlet	19.8 mm (0.8 in.)
Diameter	30 mm (1.2 in.)
Filtration surface area	3.9 cm <sup>2</sup> (0.6 in <sup>2</sup> )
<b>Pore size</b>	0.20 µm
<b>Temperature limit</b>	45 °C (113 °F)
<b>Pressure limit at 21 °C</b>	6.9 bar (100 psi) differential
<b>Filtration volume</b>	≤ 100 mL
<b>Hold-up volume</b>	≤ 0.1 mL after air purge at pressure that exceeds bubble point of the membrane
<b>Connections</b>	Female Luer-Lok™ inlet, Male Luer-slip outlet

## Storage

Store at room temperature 15 °C to 30 °C (59 °F to 77 °F).

## Disposal

Collect and dispose of used filters and material according to all applicable international, federal, state, and local regulations.

## Product Ordering

Purchase online at [SigmaAldrich.com](https://SigmaAldrich.com).

Description	Qty	Cat. No.
Millex®-FG Syringe Filter	50/pk	SLFG02550

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