

Chromatography General Supplies – Syringe Filters

Syringe filters are single-use, membrane-based devices used for the removal of particulate impurities from liquid and gas samples prior to analysis by methods such as HPLC, ion chromatography, gas chromatography, ICP, and dissolution testing.

Proper filtration of samples improves the quality and consistency of analytical results and decreases instrument downtime. Disposable syringe filters are commonly used for general filtration and sample purification, provide a fast and efficient filtering.

Syringe filters are categorized by two essential characteristics – membrane and filter housing. Both characteristics must be compatible with the application and solution being filtered. Syringe filter membranes are matched by composition, filter diameter, and pore size, while syringe filter housings are matched to end applications based on composition and format.

Key Features:

- Uniform Pore Size of Membrane Filter
- Outstanding Flow Rate & Throughput
- Low Extractables & Background
- Perfect match with Syringe, no leakage



Choice of Membrane Materials:

Material	Characteristics	pH range
PES	Hydrophilic membrane, low protein adsorption rate, low dissolution, used for the removal of fine particles, bacteria, viruses, fungi in aqueous solution.	3 - 12
MCE	Hydrophilic membrane, low protein adsorption, suitable for filtration of biological products, such as protein solution filtration, microbial analysis, particle removal and clarification.	3.5 - 8
Nylon	High mechanical strength, suitable for filtration of most organic solvents and aqueous solutions, such as semiconductor industry water filtration, tissue media filtration, filtration of liquid medicine, beverage filtration, filtration of high purity chemical products.	3 - 14
PVDF	Natural hydrophobic, excellent heat resistance and chemical resistance, low dissolution, low protein adsorption, but cannot tolerate acetone, DMSO, THF and other solvents, suitable for gas filtration, corrosive liquid filtration, polar solvent filtration, biological field of aseptic filtration.	2 - 13
Hydrophobic PTFE	The widest solvent compatibility, excellent particle retention performance, suitable for liquid and gas filtration.	1 - 14
Hydrophilic PTFE	The widest range of chemical tolerance, excellent particle retention properties, suitable for filtration of aqueous solutions containing strong acids, strong bases, and organic mixtures containing acid and base.	1 - 14

Ordering Guide of Syringe Filter

Part No	Membrane Material	Specification	Packaging
51-0001	Water-phase PES	13mm x 0.22µm	100/PK
51-0002	Water-phase PES	13mm x 0.45µm	100/PK
51-0003	Water-phase PES	25mm x 0.22µm	100/PK
51-0004	Water-phase PES	25mm x 0.45µm	100/PK
51-0014	MCE Mixed Cellulose	13mm x 0.22µm	100/PK
51-0015	MCE Mixed Cellulose	13mm x 0.45µm	100/PK
51-0016	MCE Mixed Cellulose	25mm x 0.22µm	100/PK
51-0017	MCE Mixed Cellulose	25mm x 0.45µm	100/PK
51-0022	Organic-phase Nylon	13mm x 0.22µm	100/PK
51-0023	Organic-phase Nylon	13mm x 0.45µm	100/PK
51-0024	Organic-phase Nylon	25mm x 0.22µm	100/PK
51-0025	Organic-phase Nylon	25mm x 0.45µm	100/PK
51-0050	Hydrophobic PVDF Polyvinylidene Fluoride	13mm x 0.22µm	100/PK
51-0051	Hydrophobic PVDF Polyvinylidene Fluoride	13mm x 0.45µm	100/PK
51-0052	Hydrophobic PVDF Polyvinylidene Fluoride	25mm x 0.22µm	100/PK
51-0053	Hydrophobic PVDF Polyvinylidene Fluoride	25mm x 0.45µm	100/PK
51-0034	Hydrophobic PTFE	13mm x 0.22µm	100/PK
51-0035	Hydrophobic PTFE	13mm x 0.45µm	100/PK
51-0036	Hydrophobic PTFE	25mm x 0.22µm	100/PK
51-0037	Hydrophobic PTFE	25mm x 0.45µm	100/PK
51-0042	Hydrophilic PTFE	13mm x 0.22µm	100/PK
51-0043	Hydrophilic PTFE	13mm x 0.45µm	100/PK
51-0044	Hydrophilic PTFE	25mm x 0.22µm	100/PK
51-0045	Hydrophilic PTFE	25mm x 0.45µm	100/PK