cobetter®
filtration

# Laboratory Filtration Products

PURIFICATION









FILTRATION

SOLUTIONS



# How to choose a syringe filter?

## By sample volume

| Sample volume | Recommended Diameter | Hold up volume |
|---|---|---|
| 1-10 mL | 13 mm | < 25µL |
| 5mL to 100 mL | 25 mm | < 100µL |
| 10mL to 200 mL | 33 mm | < 125µL |

## By application

| Type of Filtration | Choice of Syringe Filter |
|---|---|
| HPLC * UHPLC * LC/MS | Nylon, PES |
| ICP-MS | RC, Hydrophilic PTFE |
| Undiluted solvent | PTFE |
| Gas/ Strong acid / alkali | PTFE |
| Protein analysis | Hydrophilic PVDF |
| Tissue culture media, buffer | PES |
| High particle liquid | Dual layer Nylon/PES |

# Color-coded Syringe Filters

## Nylon Syringe Filters



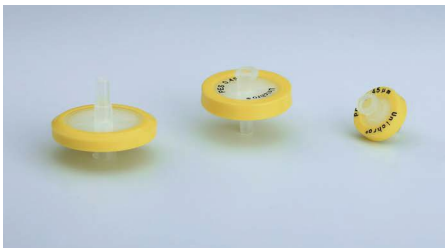
### Features

· Naturally hydrophilic
· Chemically resistant to alkaline solutions and organic solvents

### Ordering Information

| Part No. | Membrane | Diameter | Pore size | Qty/box (pcs) |
|---|---|---|---|---|
| SFMNY-2213 | Nylon | 13mm | 0.22µm | 100 |
| SFMNY-4513 | Nylon | 13mm | 0.45µm | 100 |
| SFMNY-8013 | Nylon | 13mm | 0.8µm | 100 |
| SFMNY-2225 | Nylon | 25mm | 0.22µm | 100 |
| SFMNY-4525 | Nylon | 25mm | 0.45µm | 100 |
| SFMNY-8025 | Nylon | 25mm | 0.8µm | 100 |
| SFMNY-2233 | Nylon | 33mm | 0.22µm | 100 |
| SFMNY-4533 | Nylon | 33mm | 0.45µm | 100 |
| SFMNY-8033 | Nylon | 33mm | 0.8µm | 100 |

# PES Syringe Filters



### Features

· High flow rate and low non-specific protein adsorptive
· Excellent for the filtration of aqueous solutions and pharmaceutical solutions

### Ordering Information

| Part No. | Membrane | Diameter | Pore size | Qty/box (pcs) |
|---|---|---|---|---|
| SFMPES-2213 | PES | 13mm | 0.22μm | 100 |
| SFMPES-4513 | PES | 13mm | 0.45μm | 100 |
| SFMPES-8013 | PES | 13mm | 0.8μm | 100 |
| SFMPES-2225 | PES | 25mm | 0.22μm | 100 |
| SFMPES-4525 | PES | 25mm | 0.45μm | 100 |
| SFMPES-8025 | PES | 25mm | 0.8μm | 100 |
| SFMPES-2233 | PES | 33mm | 0.22μm | 100 |
| SFMPES-4533 | PES | 33mm | 0.45μm | 100 |
| SFMPES-8033 | PES | 33mm | 0.8μm | 100 |

# MCE Syringe Filters



### Features

· High flow rates
· Particle Retention and Removal for aqueous solutions

### Ordering Information

| Part No. | Membrane | Diameter | Pore size | Qty/box (pcs) |
|---|---|---|---|---|
| SFMMCE-2213 | MCE | 13mm | 0.22μm | 100 |
| SFMMCE-4513 | MCE | 13mm | 0.45μm | 100 |
| SFMMCE-8013 | MCE | 13mm | 0.8μm | 100 |
| SFMMCE-2225 | MCE | 25mm | 0.22μm | 100 |
| SFMMCE-4525 | MCE | 25mm | 0.45μm | 100 |
| SFMMCE-8025 | MCE | 25mm | 0.8μm | 100 |
| SFMMCE-2233 | MCE | 33mm | 0.22μm | 100 |
| SFMMCE-4533 | MCE | 33mm | 0.45μm | 100 |
| SFMMCE-8033 | MCE | 33mm | 0.8μm | 100 |

# PTFE Syringe Filters



### Features

· Broad chemical compatibility, highly resistant to strong acids and bases
· Gas/air venting

### Ordering Information

| Part No. | Membrane | Diameter | Pore size | Qty/box (pcs) |
|---|---|---|---|---|
| SFMPT-2213 | PTFE | 13mm | 0.22μm | 100 |
| SFMPT-4513 | PTFE | 13mm | 0.45μm | 100 |
| SFMPT-8013 | PTFE | 13mm | 0.8μm | 100 |
| SFMPT-2225 | PTFE | 25mm | 0.22μm | 100 |
| SFMPT-4525 | PTFE | 25mm | 0.45μm | 100 |
| SFMPT-8025 | PTFE | 25mm | 0.8μm | 100 |
| SFMPT-2233 | PTFE | 33mm | 0.22μm | 100 |
| SFMPT-4533 | PTFE | 33mm | 0.45μm | 100 |
| SFMPT-8033 | PTFE | 33mm | 0.8μm | 100 |
| SFMPTH-2213 | Hydrophilic PTFE | 13mm | 0.22μm | 100 |
| SFMPTH-4513 | Hydrophilic PTFE | 13mm | 0.45μm | 100 |
| SFMPTH-2225 | Hydrophilic PTFE | 25mm | 0.22μm | 100 |
| SFMPTH-4525 | Hydrophilic PTFE | 25mm | 0.45μm | 100 |
| SFMPTH-2233 | Hydrophilic PTFE | 33mm | 0.22μm | 100 |
| SFMPTH-4533 | Hydrophilic PTFE | 33mm | 0.45μm | 100 |

# Hydrophilic PVDF Syringe Filters



### Features

· Recommended for low protein binding
· Compatible with aqueous and mild organic solutions

### Ordering Information

| Part No. | Membrane | Diameter | Pore size | Qty/box (pcs) |
|---|---|---|---|---|
| SFMPVH-1013 | Hydrophilic PVDF | 13mm | 0.1μm | 100 |
| SFMPVH-2213 | Hydrophilic PVDF | 13mm | 0.22μm | 100 |
| SFMPVH-4513 | Hydrophilic PVDF | 13mm | 0.45μm | 100 |
| SFMPVH-1025 | Hydrophilic PVDF | 25mm | 0.1μm | 100 |
| SFMPVH-2225 | Hydrophilic PVDF | 25mm | 0.22μm | 100 |
| SFMPVH-4525 | Hydrophilic PVDF | 25mm | 0.45μm | 100 |
| SFMPVH-1033 | Hydrophilic PVDF | 33mm | 0.1μm | 100 |
| SFMPVH-2233 | Hydrophilic PVDF | 33mm | 0.22μm | 100 |
| SFMPVH-4533 | Hydrophilic PVDF | 33mm | 0.45μm | 100 |

# PP Syringe Filters



### Features

· Prefiltration
· Available in multiple pore sizes

### Ordering Information

| Part No. | Membrane | Diameter | Pore size | Qty/box (pcs) |
|---|---|---|---|---|
| SFUPP-2013 | PP | 13mm | 0.2μm | 100 |
| SFUPP-4513 | PP | 13mm | 0.45μm | 100 |
| SFUPP-2025 | PP | 25mm | 0.2μm | 100 |
| SFUPP-4525 | PP | 25mm | 0.45μm | 100 |
| SFUPP-10025 | PP | 25mm | 1.0μm | 100 |
| SFUPP-50025 | PP | 25mm | 5.0μm | 100 |

## HPLC Certified Syringe Filters

# Hydrophilic PTFE Syringe Filters



### Features

· Lowest extractables
· Optimizing background levels of sensitive analyses like UHPLC and LC-MS
· Filtration of aqueous or organic solutions

### Ordering Information

| Part No. | Membrane | Diameter | Pore size | Qty/box (pcs) |
|---|---|---|---|---|
| SFUPTH-2013 | Hydrophilic PTFE | 13mm | 0.2μm | 100 |
| SFUPTH-4513 | Hydrophilic PTFE | 13mm | 0.45μm | 100 |
| SFUPTH-2025 | Hydrophilic PTFE | 25mm | 0.2μm | 100 |
| SFUPTH-4525 | Hydrophilic PTFE | 25mm | 0.45μm | 100 |

# Sterile Syringe Filters

## Features

· Sterile by Gamma irradiation and individually packed
· Removal of particles or cells under non-sterile conditions
· Asymmetric PES with superior flow rate
· Hydrophilic PVDF is ideal for filtration of biological samples and protein solutions

## PES Sterile Syringe Filters

| Part No. | Membrane | Diameter | Prefilter | Pore size | Sterilization | Qty/box (pcs) |
|---|---|---|---|---|---|---|
| SFMPES-1013S | PES | 13mm | 0.2μm | 0.1μm | Yes | 100 |
| SFMPES-2213S | PES | 13mm | 0.65μm | 0.22μm | Yes | 100 |
| SFMPES-4513S | PES | 13mm | 0.8μm | 0.45μm | Yes | 100 |
| SFMPES-1025S | PES | 25mm | 0.2μm | 0.1μm | Yes | 100 |
| SFMPES-2225S | PES | 25mm | 0.65μm | 0.22μm | Yes | 100 |
| SFMPES-4525S | PES | 25mm | 0.8μm | 0.45μm | Yes | 100 |
| SFMPES-1033S | PES | 33mm | 0.2μm | 0.1μm | Yes | 100 |
| SFMPES-2233S | PES | 33mm | 0.65μm | 0.22μm | Yes | 100 |
| SFMPES-4533S | PES | 33mm | 0.8μm | 0.45μm | Yes | 100 |



## Hydrophilic PVDF Sterile Syringe Filters

| Part No. | Membrane | Diameter | Prefilter | Pore size | Sterilization | Qty/box (pcs) |
|---|---|---|---|---|---|---|
| SFMPVH-1013S | Hydrophilic PVDF | 13mm | 0.2μm | 0.1μm | Yes | 100 |
| SFMPVH-2213S | Hydrophilic PVDF | 13mm | 0.65μm | 0.22μm | Yes | 100 |
| SFMPVH-4513S | Hydrophilic PVDF | 13mm | 1.0μm | 0.45μm | Yes | 100 |
| SFMPVH-1025S | Hydrophilic PVDF | 25mm | 0.2μm | 0.1μm | Yes | 100 |
| SFMPVH-2225S | Hydrophilic PVDF | 25mm | 0.65μm | 0.22μm | Yes | 100 |
| SFMPVH-4525S | Hydrophilic PVDF | 25mm | 1.0μm | 0.45μm | Yes | 100 |
| SFMPVH-10 33S | Hydrophilic PVDF | 33mm | 0.2μm | 0.1μm | Yes | 100 |
| SFMPVH-2233S | Hydrophilic PVDF | 33mm | 0.65μm | 0.22μm | Yes | 100 |
| SFMPVH-4533S | Hydrophilic PVDF | 33mm | 1.0μm | 0.45μm | Yes | 100 |

