

Diamond® PureFlow™ Syringe Filters

Diamond® PureFlow™ syringe filters from Globe Scientific provide high-quality, cost-effective filtration systems that improve the reliability of experimental results and decrease instrument downtime.

All Diamond PureFlow syringe filters are constructed of a durable polypropylene housing secured around the membrane with a molded polypropylene sealing ring. This double injection molding process yields a robust filter built to withstand pressures higher than most industry alternatives.

Get the Diamond PureFlow Advantage:

- Performance High flow rates and low absorption membranes for minimal sample loss
- Simplicity Color coded outer ring allows easy identification of membrane and filter media type. Each unit is clearly marked with an identifying code to denote pore size and membrane material
- Strength Bonded outer ring on housing provides strength under higher working pressures for high performance needs
- Efficiency Integral PP pre-filter for high flow rates and fast filtration
- Quality Manufacturing process certified to ISO 9001 standards

Sterile Syringe Filters:

Sterile Diamond PureFlow Syringe filters satisfy requirements of life science applications for sterilization of solutions or clarification of biological fluids. Sterile filters include a PP microfiber pre-filter layer to improve filtration of particulate-laden fluids that are difficult to filter with single layer syringe filters.

- Individually packaged in peelable blister with filter diameter, membrane type, and membrane porosity clearly marked on the package
- Sterilized by Gamma Irradiation to SAL 10⁻⁶



Non-Sterile Syringe Filters:

Non-sterile Diamond PureFlow syringe filters are perfect for use in a wide range of filtration and sample applications where sterility is not needed. Non-sterile filters are used in analytical chemistry for sample preparation, HPLC operations, and protecting analytical equipment from particle contamination.

- Bulk packaged with filter membrane type and membrane porosity printed on each filter
- PP microfiber pre-filter layer to improve filtration of particulate-laden fluids

Available in a variety of filter diameters, membrane types, and membrane porosities, there is a Diamond PureFlow syringe filter to meet nearly all syringe filter application requirements.





Membrane Types:

PVDF (Polyvinylidene Fluoride) Hydrophilic / Hydrophobic Membrane

- Low protein binding
- Suitable for aqueous and organic samples
- Good resistance to solvents that exhibit low levels of UV adsorbing extractables. Broad chemical compatibility
- Ideal for HPLC sample filtration and general biological filtration
- pH Range: 1-12

PES (Polyethersulfone) Membrane

- Low protein binding
- Suitable for aqueous and organic samples
- High flow rates and throughput and compatible with high temperature liquids
- Ideal for tissue culture filtration, filtration of proteins and nucleic acids, and chromatography
- pH range: 1-14

MCE (Mixed Cellulose Ester) Membrane

- Low protein binding and biologically inert
- Suitable for aqueous samples
- Ideal for air monitoring, particle analysis, bacteriological analysis and sterilizing filtration
- pH Range: 4-8

Nylon Membrane

- High protein binding Not used when protein recovery is important
- Suitable for aqueous or organic samples
- Not compatible with acids, bases or for use in protein recovery
- Ideal for general laboratory, chemical and beverage filtration and HPLC applications
- pH Range: 2-13

PTFE (Polytetrafluoroethylene) Hydrophilic Membrane

- "Universal" membrane Ideal for both aqueous and organic samples
- Strong chemical stability and inertia
- Strong acid and alkali solvent filtration
- Chemically resistant to all solvents
- pH Range: 1-14

PTFE (Polytetrafluoroethylene) Hydrophobic Membrane

- Strong temperature and chemical conditions
- High durability and fast filtering speed
- Ideal for venting applications, phase separations and aerosol samplings
- pH Range: 1-14

CA (Cellulose Acetate) Membrane

- Low Protein Binding and biologically inert
- Suitable for aqueous samples
- High protein recovery from filtrate
- Ideal for sample analysis that requires maximum recoveries, tissue culture media filtration, and general water filtration
- pH Range: 4-8

SFCA (Surfactant Free Cellulose Acetate) Membrane

- Low protein binding, low extractables and leachables, and high flow rate
- Ideal for cell culture media and serum, immunological samples, and biological fluids
- pH Range: 4-8

Specifications					
	Sterile		Non-S	Non-Sterile	
Diameter	13mm	30mm	13mm	30mm	
Housing Material	PP	PP	PP	PP	
Filtration Area (cm²)	0.92	4.9	0.92	4.9	
Holdup-Volume (μl)	<10	<120	<10	<120	
Volume Throughput (ml)	10	100	10	100	
Connections (Inlet/Outlet)	Female	Luer Lock Inlet	/ Male Luer Sli	p Outlet	
Max Operating Pressure (psi)	87	87	87	87	
Max Operating Temperature (°C)	100	100	100	100	
Prefilter	PP	PP	PP	PP	



Ordering Information

Sterile Syringe Filters

Sterne Syringe Filters				
Membrane Type	Pore Size	Outside Dia.	Part #	Ring Color
PVDF Hydrophilic	0.22µm	13mm	SF-PVDF-2213-S	Magenta
PVDF Hydrophilic	0.22µm	30mm	SF-PVDF-2230-S	Magenta
PVDF Hydrophilic	0.45µm	13mm	SF-PVDF-4513-S	Magenta
PVDF Hydrophilic	0.45µm	30mm	SF-PVDF-4530-S	Magenta
PES	0.10µm	13mm	SF-PES-1013-S	Green
PES	0.10µm	30mm	SF-PES-1030-S	Green
PES	0.22µm	13mm	SF-PES-2213-S	Green
PES	0.22µm	30mm	SF-PES-2230-S	Green
PES	0.45µm	13mm	SF-PES-4513-S	Green
PES	0.45µm	30mm	SF-PES-4530-S	Green
MCE	0.22µm	13mm	SF-MCE-2213-S	Blue
MCE	0.22µm	30mm	SF-MCE-2230-S	Blue
MCE	0.45µm	13mm	SF-MCE-4513-S	Blue
MCE	0.45µm	30mm	SF-MCE-4530-S	Blue
Nylon	0.22µm	13mm	SF-NYLN-2213-S	Yellow
Nylon	0.22µm	30mm	SF-NYLN-2230-S	Yellow
Nylon	0.45µm	13mm	SF-NYLN-4513-S	Yellow
Nylon	0.45µm	30mm	SF-NYLN-4530-S	Yellow
PTFE Hydrophilic	0.22µm	13mm	SF-PTFE-2213-S	Red
PTFE Hydrophilic	0.22µm	30mm	SF-PTFE-2230-S	Red
PTFE Hydrophilic	0.45µm	13mm	SF-PTFE-4513-S	Red
PTFE Hydrophilic	0.45µm	30mm	SF-PTFE-4530-S	Red
CA	0.22µm	13mm	SF-CA-2213-S	Blue
CA	0.22µm	30mm	SF-CA-2230-S	Blue
CA	0.45µm	13mm	SF-CA-4513-S	Blue
CA	0.45µm	30mm	SF-CA-4530-S	Blue
SFCA	0.22µm	13mm	SF-SFCA-2213-S	Blue
SFCA	0.22µm	30mm	SF-SFCA-2230-S	Blue
SFCA	0.45µm	13mm	SF-SFCA-4513-S	Blue
SFCA	0.45µm	30mm	SF-SFCA-4530-S	Blue
CA/GF(Glass Fiber Pre-Filter)	0.22µm	30mm	SF-CAGF-2230-S	Blue



All sterile syringe filters are packaged individually in blister packs, 50 blisters per box.

Non-Sterile Syringe Filters

Pore Size	Outside Dia.	Part #	Ring Color
0.45µm	30mm	SF-PVDF-H-4530	Magenta 🛑
0.45µm	30mm	SF-PES-4530	Green
0.22µm	13mm	SF-NYLN-2213	Yellow
0.22µm	30mm	SF-NYLN-2230	Yellow
0.45µm	13mm	SF-NYLN-4513	Yellow
0.45µm	30mm	SF-NYLN-4530	Yellow
0.22µm	13mm	SF-PTFE-2213	Red
0.22µm	30mm	SF-PTFE-2230	Red
0.45µm	13mm	SF-PTFE-4513	Red
0.45µm	30mm	SF-PTFE-4530	Red
0.22µm	13mm	SF-PTFE-H-2213	Red
0.22µm	30mm	SF-PTFE-H-2230	Red
0.45µm	13mm	SF-PTFE-H-4513	Red
0.45µm	30mm	SF-PTFE-H-4530	Red
	0.45µm 0.45µm 0.22µm 0.22µm 0.45µm 0.45µm 0.22µm 0.45µm 0.22µm 0.45µm 0.45µm	0.45µm 30mm 0.45µm 30mm 0.22µm 13mm 0.22µm 30mm 0.45µm 13mm 0.22µm 13mm 0.22µm 30mm 0.45µm 30mm 0.45µm 30mm 0.22µm 13mm 0.22µm 30mm 0.22µm 30mm 0.45µm 13mm 0.45µm 13mm	0.45µm 30mm SF-PVDF-H-4530 0.45µm 30mm SF-PES-4530 0.22µm 13mm SF-NYLN-2213 0.22µm 30mm SF-NYLN-2230 0.45µm 13mm SF-NYLN-4513 0.45µm 30mm SF-NYLN-4530 0.22µm 13mm SF-PTFE-2213 0.22µm 30mm SF-PTFE-2230 0.45µm 30mm SF-PTFE-4530 0.22µm 13mm SF-PTFE-H-2213 0.22µm 30mm SF-PTFE-H-2230 0.45µm 13mm SF-PTFE-H-2230 0.45µm 13mm SF-PTFE-H-4513





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