



NEW!

Diamond[®] PureFlow[™] Syringe Filters

A line of efficient and reliable filtration options for discerning laboratory professionals.



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-Sterile	
	13mm	30mm	13mm	30mm
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 Slip 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

Membrane Type	Pore Size	Outside Dia.	Part #	Ring Color	Packaging
PVDF Hydrophilic	0.22µm	13mm	SF-PVDF-2213-S	Magenta	 <p>All sterile syringe filters are packaged individually in blister packs, 50 blisters per box.</p>
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	Orange	

Non-Sterile Syringe Filters

Membrane Type	Pore Size	Outside Dia.	Part #	Ring Color	Packaging
PVDF Hydrophobic	0.45µm	30mm	SF-PVDF-H-4530	Magenta	 <p>All non-sterile syringe filters are bulk packaged 100 filters per clear plastic carton for easy filter identification.</p>
PES	0.45µm	30mm	SF-PES-4530	Green	
Nylon	0.22µm	13mm	SF-NYLN-2213	Yellow	
Nylon	0.22µm	30mm	SF-NYLN-2230	Yellow	
Nylon	0.45µm	13mm	SF-NYLN-4513	Yellow	
Nylon	0.45µm	30mm	SF-NYLN-4530	Yellow	
PTFE Hydrophilic	0.22µm	13mm	SF-PTFE-2213	Red	
PTFE Hydrophilic	0.22µm	30mm	SF-PTFE-2230	Red	
PTFE Hydrophilic	0.45µm	13mm	SF-PTFE-4513	Red	
PTFE Hydrophilic	0.45µm	30mm	SF-PTFE-4530	Red	
PTFE Hydrophobic	0.22µm	13mm	SF-PTFE-H-2213	Red	
PTFE Hydrophobic	0.22µm	30mm	SF-PTFE-H-2230	Red	
PTFE Hydrophobic	0.45µm	13mm	SF-PTFE-H-4513	Red	
PTFE Hydrophobic	0.45µm	30mm	SF-PTFE-H-4530	Red	



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