



Welded Syringe Filter

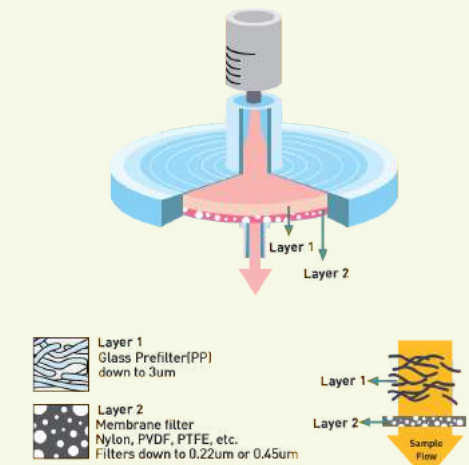


Welded Syringe Filter

- Filtration is achieved by pushing the sample through the membrane with a syringe or other luer-connection device.
- Syringe Filters allow you to control the rate off low, which can be critical with delicate samples.
- It also allows you to filter into nearly any tube, vial, or column that represents the next step in your analysis.
- Filter size: 13mm/25mm/30mm
- Pore size: 0.22um/0.45um

Syringe Filter Selection Guide

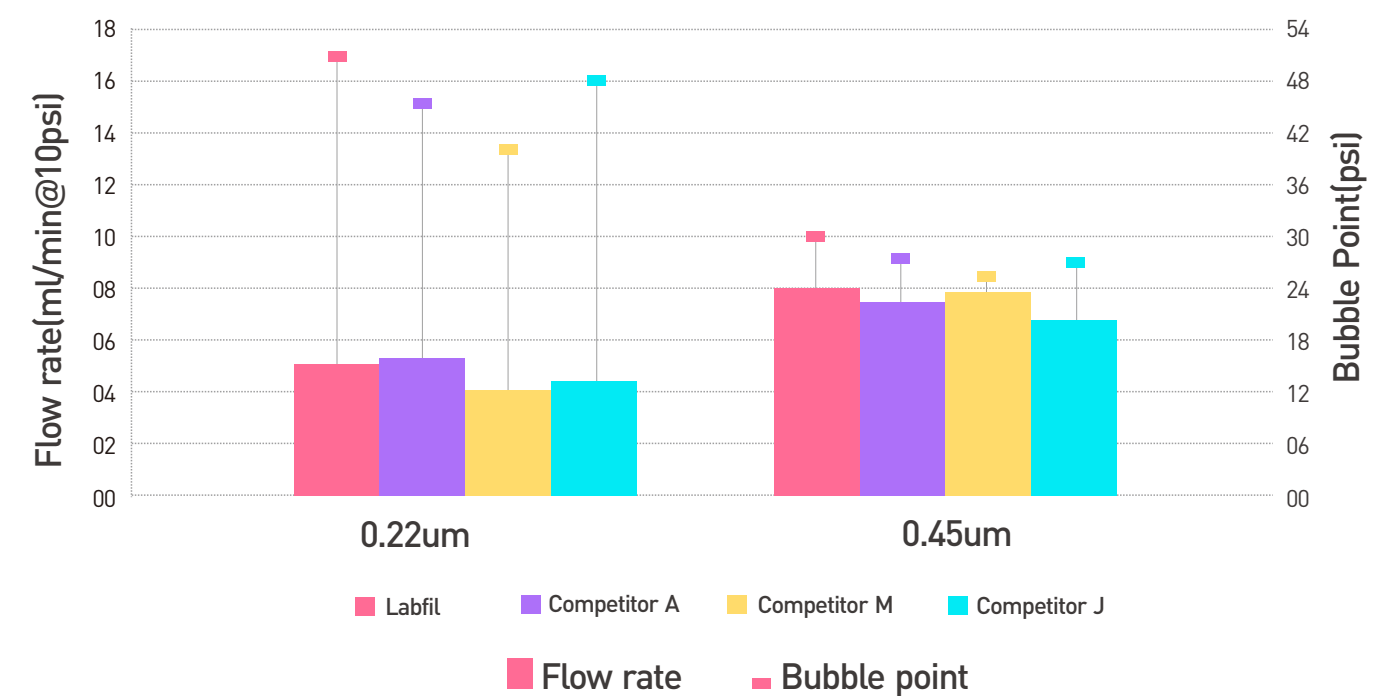
- Syringe filters are used for many routine preparation steps in laboratories all over the world.
- They are convenient, ready-to use disposables for removal of particles from solutions and gases.
- Labfil® syringe filters are for a wide range of applications.
- The filters are clean and safe as they are virtually free of leachables and extractables and reliably remove particles and microorganisms without any leakage.
- It is perfect match for the labfil® Luer interface syringe, easy to use, and will not leak to ensure a healthy laboratory environment.



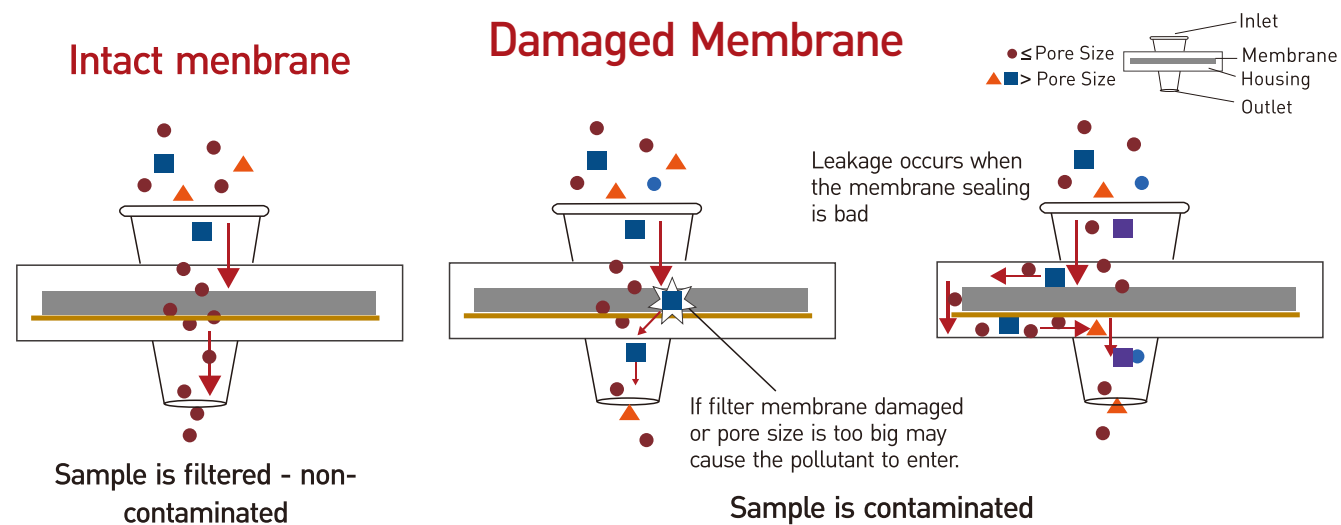
WELDED SYRINGE FILTER

- Nylon / 57
- PTFE / 58-59
- PVDF / 60-61
- CA / 62
- PES / 63
- RC /64

The comparison of Labfil® filter and other brands



Membrane Selection Guide



- Choosing a membrane filter is based on the size and amount of particulate in the sample, the membrane's chemical compatibility with the sample matrix, and potential interactions (binding) between the membranes and the sample components.
- This table offers general guidelines on membrane characteristics and applications.

Membrane Selection Guide

Membrane Types	Features	Common Uses
Nylon	Good chemical compatibility and very low extractables	General filtration sterilization, HPLC sample prep
Polytetrafluoroethylene (PTFE)	Compatible with strong acids and aggressive solvents	Gas, Air, and Solvent filtration
Polyvinylidene Fluoride (PVDF)	Good flow rate characteristics. Ideal for chromatography applications.	HPLC sample preparation and General filtration

Syringe Filter Diameter	Sample Volume	Pre-Cut Membrane Diameter	Sample Volume
13mm	less or equal 10mL	13mm Pre-Cut Membranes	up to 20mL
25mm	less or equal 100mL	25mm Pre-Cut Membranes	up to 100mL
30mm	less or equal 150mL	47mm Pre-Cut Membranes	multi-liter

Nylon



- High mechanical and tensile strength.
- Used for most organic solvents and mid-polar liquids.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 30mm.

Features:

- This Nylon+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- One of the most commonly used membranes; broad compatibility with aqueous and organic solvents, with stable hydrophilicity, not suitable for highly acidic samples.

Applications:

- Used for most organic solvents mixtures and mid-polar liquids.
- Chemical filtration and Beverage filtration.
- Note: Nylon binds protein, do not use when high protein recovery is desired.

Typical data

Material	Nylon		
Material of housing	PP		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	30mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(30mm)
Maximum Operating Temperature	100°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000277	13mm	Nylon Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000278	13mm	Nylon Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000279	25mm	Nylon Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000280	25mm	Nylon Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000565	30mm	Nylon Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000566	30mm	Nylon Welded Syringe Filter 0.45um with Printing.	100pcs/pk

PTFE Hydrophilic



- For removing particulates, reducing signal-to-noise ratios and maintaining flat baselines.
- Filtering aqueous and organic solutions.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 30mm.

Features:

- This PTFE+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Broad chemical compatibility choose for filtering aqueous and organic solutions low protein binding.

Applications:

- Industrial Chromatography.
- Filtration of aqueous solutions as well as organic solvents and chemicals.

Typical data

Material	PTFE Hydrophilic		
Material of housing	PP		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	30mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(30mm)
Maximum Operating Temperature	130°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000281	13mm	PTFE Hydrophilic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000282	13mm	PTFE Hydrophilic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000283	25mm	PTFE Hydrophilic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000284	25mm	PTFE Hydrophilic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000567	30mm	PTFE Hydrophilic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000568	30mm	PTFE Hydrophilic Welded Syringe Filter 0.45um with Printing.	100pcs/pk

PTFE Hydrophobic



- High mechanical and tensile strength.
- Used for most organic solvents and mid-polar liquids.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 30mm.

Features:

- This PTFE+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Hydrophobic PTFE membrane has great temperature resistance.
- Suitable for Solvents/Gases/Acids/Bases.

Applications:

- Degassing/Clarifying aqueous samples.
- Removal of protein precipitates.
- Strong acid solvent filtration and Alkali solvent filtration.
- Biofuel analysis.

Typical data

Material	PTFE Hydrophobic		
Material of housing	PP		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	30mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(30mm)
Maximum Operating Temperature	130°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000297	13mm	PTFE Hydrophobic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000298	13mm	PTFE Hydrophobic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000299	25mm	PTFE Hydrophobic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000300	25mm	PTFE Hydrophobic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000574	30mm	PTFE Hydrophobic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000575	30mm	PTFE Hydrophobic Welded Syringe Filter 0.45um with Printing.	100pcs/pk

PVDF Hydrophilic



- Low protein-binding for filtration of non-aggressive aqueous and mild organic solutions.
- Low UV absorbing extractables and low nonspecific protein binding.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 30mm.

Features:

- This PVDF +PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Hydrophilic membrane with good solvent resistance.

Applications:

- Sterilizing/Clarifying filtration of biological solutions.
- Excellent chemical compatibility, even with aggressive acids and alcohols.
- Filtration of samples where high protein recovery is desired.

Typical data

Material	PVDF Hydrophilic		
Material of housing	PP		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	30mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(30mm)
Maximum Operating Temperature	100°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000289	13mm	PVDF Hydrophilic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000290	13mm	PVDF Hydrophilic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000291	25mm	PVDF Hydrophilic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000292	25mm	PVDF Hydrophilic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000571	30mm	PVDF Hydrophilic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000396	30mm	PVDF Hydrophilic Welded Syringe Filter 0.45um with Printing.	100pcs/pk

PVDF Hydrophobic



- Filtration of water-soluble oligomers and polymers, e.g. protein solutions.
- Filtration of hydrophobic substances in different organic solvents.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 30mm.

Features:

- This PVDF + PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- This membrane features stability and hydrophobic interactions which is similar to PTFE.

Applications:

- Gas filtration, Vapor filtration, High-temperature filtration.
- Food industry and Medicine filtration.

Typical data

Material	PVDF Hydrophobic		
Material of housing	PP		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	30mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(30mm)
Maximum Operating Temperature	100°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000285	13mm	PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000286	13mm	PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000287	25mm	PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000288	25mm	PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000569	30mm	PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000570	30mm	PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.	100pcs/pk

CA



- CA membranes are used for tissue culture media filtration.
- Ideally suited for general filtration and biological/clinical analysis requiring maximum protein recovery.
- High temperature stability can be used with heated liquids.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 30mm.

Features:

- This CA+PP pre-filter provides two times greater throughput than standard filter without pre-filtration. Naturally hydrophilic membrane filter.
- Low protein binding: great for protein solutions, such as protein isolation pre-filtration.
- Suitable for ground water filtration. Uniform pore size structure.

Applications:

- Filtration of liquid samples and some organic solvents.
- Cell retention and particle retention.
- Light scattering measurement. Sterilization of liquids.

Typical data

Material	CA		
Material of housing	pp		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	30mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(30mm)
Maximum Operating Temperature	50°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000760	13mm	CA Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000761	13mm	CA Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000301	25mm	CA Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000302	25mm	CA Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000576	30mm	CA Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000577	30mm	CA Welded Syringe Filter 0.45um with Printing.	100pcs/pk

PES



- High flow rates(liquids), low protein binding, low concentrations of extractable substances.
- Low-affinity for proteins and extractable with substantially faster flow rates than PVDF; suitable for pre-filtration and filtration of buffers and culture media.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 30mm.

Features:

- This PES+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Faster flow rate than PVDF.
- Excellent thermal resistance and chemical resistance.

Applications:

- PES is certified for ion chromatography; tissue culture media; filtration of proteins and nucleic acids.
- Suitable for filtration of aqueous solution with high throughput.

Typical data

Material	PES		
Material of housing	pp		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	30mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(30mm)
Maximum Operating Temperature	90°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000293	13mm	PES Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000294	13mm	PES Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000295	25mm	PES Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000296	25mm	PES Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000572	30mm	PES Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000573	30mm	PES Welded Syringe Filter 0.45um with Printing.	100pcs/pk

RC



- The best option for reliable and leachable free sterilisation of liquids.
- The very low non-specific binding characteristics of this membrane makes it a perfect choice for biomolecule solutions and other dissolved substances.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm.

Features

- This RC+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Outperforming chemical compatibility choose for biomolecule solutions and other dissolved substances.

Applications

- Industrial Chromatography.
- Filtration of aqueous solutions as well as organic solvents and chemicals.

Typical data

Material	RC	
Material of housing	pp	
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²
Pore size(µm)	0.22/0.45	
Process volume(ml)	<10ml(13mm)	<100ml(25mm)
Maximum Operating Temperature	100°C	
Maximum Operating Pressure(psi)	87psi	



Ref.No.	Size	Description	Package
C0001179	13mm	RC Welded Syringe Filter 0.22µm.	100pcs/pk
C0001180	13mm	RC Welded Syringe Filter 0.45µm.	100pcs/pk
C0001181	25mm	RC Welded Syringe Filter 0.22µm.	100pcs/pk
C0001182	25mm	RC Welded Syringe Filter 0.45µm.	100pcs/pk



COLORFUL SYRINGE FILTER

- Nylon / 67
- PTFE / 68-69
- PVDF / 70-71
- PES / 72
- MCE / 73
- CA / 73

Colorful Syringe Filter



Colorful Syringe Filter

- In order to meet different customers' requests, Labfil® supplies the syringe filters with outer ring as well.
- It's available in many different pore sizes and with several hydrophilic and hydrophobic membrane materials.
- More Economic.
- Reliable removal of microorganisms and particles from liquids for HPLC sample preparation.
- High mechanical and tensile strength.

Nylon



- High mechanical and tensile strength.
- Universal application for analytical procedures.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 33mm.

Features

- One of the most commonly used membranes.
- Broad compatibility with aqueous and organic solvents, with stable hydrophilicity, not suitable for highly acidic samples.

Applications

- Used for most organic solvents mixtures and mid-polar liquids.
- Chemical filtration and Beverage filtration.
- Note: Nylon binds protein, do not use when high protein recovery is desired.

HOW TO CHOOSE FILTER SIZE

0-10ml
Sample Volume
Use **13mm**
Syringe Filter

10-100ml
Sample Volume
Use **25mm**
Syringe Filter

10-150ml
Sample Volume
Use **33mm**
Syringe Filter

Female Luer
Lock Inlet

Male Luer
Slip Outlet

Unique Threaded Interface Design

Typical data

Material	Nylon		
Material of housing	pp		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	33mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(33mm)
Maximum Operating Temperature	100°C		
Maximum Operating Pressure(psi)	87psi		

MEMBRANE FILTER SELECTION



Material	Properties	Applications
Nylon	Good chemical compatibility and very low extractables	General filtration/sterilization, HPLC sample prep
PES	High flow rate with good throughput, low protein binding, can be used in high temperature liquids, in inorganic extractable ions.	Ion chromatography certified, tissue culture filtered, and can filter proteins and nucleic acids.
PTFE	Compatible with strong acids and aggressive solvents	Gas, Air, and Solvent filtration
MCE	High flow rate and high throughput. High-protein binding. Excellent biocompatibility.	Used for clarification of aqueous solutions and general laboratory filtration.
PVDF	Good flow rate characteristics. Ideal for chromatography applications	HPLC sample preparation and General filtration
CA	Extra low non-specific binding. High recovery.	Used for aqueous samples containing proteins, or similar large organic molecules biomolecule solution.



Ref.No.	Size	Description	Package
C0000638	13mm	Nylon Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000639	13mm	Nylon Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk
C0000640	25mm	Nylon Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000641	25mm	Nylon Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk
C0000662	33mm	Nylon Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000663	33mm	Nylon Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk

PTFE Hydrophobic



- Hydrophobic PTFE syringe filters have broad chemical compatibility and high pH resistance.
- Versatile filters for use with aggressive organic solvent-based solutions and are especially ideal for HPLC sample preparation.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 33mm .

Features:

- Hydrophobic PTFE membrane has great temperature resistance.
- Suitable for Solvents/Gases/Acids/Bases.
- Excellent chemical compatibility for filtering harsh chemicals that destroy other membrane materials and ideal for aerosol sampling.

Applications:

- Degassing/Clarifying aqueous samples.
- Removal of protein precipitates.
- Strong acid solvent filtration and Alkali solvent filtration.
- Biofuel analysis.

Typical data

Material	PTFE Hydrophobic		
Material of housing	PP		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	33mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(33mm)
Maximum Operating Temperature	130°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000646	13mm	PTFE Hydrophobic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000647	13mm	PTFE Hydrophobic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk
C0000648	25mm	PTFE Hydrophobic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000649	25mm	PTFE Hydrophobic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk
C0000667	33mm	PTFE Hydrophobic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000666	33mm	PTFE Hydrophobic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk

PTFE Hydrophilic



- Hydrophilic materials are obtained through process improvement.
- Hydrophilic material has a great affinity for water and it's easily wetted by water because of the surface with water molecules to form intermolecular focus.
- High mechanical and tensile strength.
- Used for most organic solvents and mid-polar liquids.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 33mm.

Features:

- Broad chemical compatibility choose for filtering aqueous and organic solutions low protein binding.
- Low IC extractables.

Applications:

- Industrial Chromatography.
- Filtration of aqueous solutions as well as organic solvents and chemicals.

Typical data

Material	PTFE Hydrophilic		
Material of housing	PP		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	33mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(33mm)
Maximum Operating Temperature	130°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000642	13mm	PTFE Hydrophilic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000643	13mm	PTFE Hydrophilic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk
C0000644	25mm	PTFE Hydrophilic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000645	25mm	PTFE Hydrophilic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk
C0000664	33mm	PTFE Hydrophilic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000665	33mm	PTFE Hydrophilic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk

PVDF Hydrophobic



- Filtration of water-soluble oligomers and polymers, e.g. protein solutions.
- Filtration of hydrophobic substances in different organic solvents.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 33mm.

Features:

- This membrane features stability and hydrophobic interactions which is similar to PTFE.
- Naturally hydrophobic membrane provides excellent flow rates and high loading.
- Exceptional temperature stability provides extended sampling range over other membranes.

Applications:

- Gas filtration, Vapor filtration, High-temperature filtration.
- Food industry and Medicine filtration.

Typical data

Material	PVDF Hydrophobic		
Material of housing	PP		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	33mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(33mm)
Maximum Operating Temperature	100°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000654	13mm	PVDF Hydrophobic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000655	13mm	PVDF Hydrophobic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk
C0000656	25mm	PVDF Hydrophobic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000657	25mm	PVDF Hydrophobic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk
C0000670	33mm	PVDF Hydrophobic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000671	33mm	PVDF Hydrophobic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk

PVDF Hydrophilic



- Hydrophilic materials are obtained through process improvement.
- Hydrophilic material has a great affinity for water and it's easily wetted by water because of the surface with water molecules to form intermolecular focus.
- Low protein-binding for filtration of non-aggressive aqueous and mild organic solutions.
- Low UV absorbing extractables and low nonspecific protein binding.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 33mm.

Features:

- Hydrophilic membrane with good solvent resistance.
- It has superior performance to prevent leak of sample solvent and can promise membrane area being used in a large filtration area.

Applications:

- Sterilizing/Clarifying filtration of biological solutions.
- Excellent chemical compatibility, even with aggressive acids and alcohols.
- Filtration of samples where high protein recovery is desired.

Typical data

Material	PVDF Hydrophilic		
Material of housing	PP		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	33mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(33mm)
Maximum Operating Temperature	100°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000650	13mm	PVDF Hydrophilic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000651	13mm	PVDF Hydrophilic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk
C0000652	25mm	PVDF Hydrophilic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000653	25mm	PVDF Hydrophilic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk
C0000668	33mm	PVDF Hydrophilic Syringe Filter 0.22um with Outer Ring and Printing.	100pcs/pk
C0000669	33mm	PVDF Hydrophilic Syringe Filter 0.45um with Outer Ring and Printing.	100pcs/pk

PES



- High mechanical and tensile strength.
- Used for most organic solvents and mid-polar liquids.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm and 33mm.

Features:

- Excellent thermal resistance and chemical resistance.
- Having high flow rates thanks to their symmetric structure.
- A low protein adsorption, is recommended for filtration of protein filtration as well as aqueous solutions filtration.
- The low level extractables make them suitable for environmental analysis.

Applications:

- PES is certified by ion chromatography; tissue culture media; filtration of proteins and nucleic acids.
- Suitable for filtration of aqueous solution with high throughput.

Typical data

Material	PES		
Material of housing	PP		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	33mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(33mm)
Maximum Operating Temperature	90°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0000658	13mm	PES Syringe Filter 0.22µm with Outer Ring and Printing.	100pcs/pk
C0000659	13mm	PES Syringe Filter 0.45µm with Outer Ring and Printing.	100pcs/pk
C0000660	25mm	PES Syringe Filter 0.22µm with Outer Ring and Printing.	100pcs/pk
C0000661	25mm	PES Syringe Filter 0.45µm with Outer Ring and Printing.	100pcs/pk
C0000672	33mm	PES Syringe Filter 0.22µm with Outer Ring and Printing.	100pcs/pk
C0000673	33mm	PES Syringe Filter 0.45µm with Outer Ring and Printing.	100pcs/pk

MCE/CA



- Biologically inert mixtures of cellulose acetate and cellulose nitrate.
- Membranes in analytical and research applications.
- Two types in pore size: 0.22µm and 0.45µm.
- Three types in filter size: 13mm, 25mm.

Features:

- Ideal for capturing and culturing microorganisms in the Water and wastewater industry.
- Used to determine particulate contamination of lubricating oil and hydraulic fluid in patch test kits.
- Compatible with gamma irradiation.

Applications:

- Appropriate for bacterial culturing, including E. coli culturing.
- Biologically inert with good thermal stability.
- Uniform microporous structure results in high flow rates when used for filtering.

Typical data

Material	MCE/CA		
Material of housing	PP		
Effective filtration area(cm ²)	13mm/1.13cm ²	25mm/4.15cm ²	33mm/5.2cm ²
Pore size(µm)	0.22/0.45		
Process volume(ml)	<10ml(13mm)	<100ml(25mm)	<150ml(33mm)
Maximum Operating Temperature	50°C		
Maximum Operating Pressure(psi)	87psi		



Ref.No.	Size	Description	Package
C0001239	13mm	MCE Syringe Filter 0.22µm with Outer Ring and Printing.	100pcs/pk
C0001240	13mm	MCE Syringe Filter 0.45µm with Outer Ring and Printing.	100pcs/pk
C0001241	25mm	MCE Syringe Filter 0.22µm with Outer Ring and Printing.	100pcs/pk
C0001242	25mm	MCE Syringe Filter 0.45µm with Outer Ring and Printing.	100pcs/pk
C0000780	13mm	CA Syringe Filter 0.22µm with Outer Ring and Printing.	100pcs/pk
C0000781	13mm	CA Syringe Filter 0.45µm with Outer Ring and Printing.	100pcs/pk
C0000782	25mm	CA Syringe Filter 0.22µm with Outer Ring and Printing.	100pcs/pk
C0000783	25mm	CA Syringe Filter 0.45µm with Outer Ring and Printing.	100pcs/pk



Sterile Welded Syringe Filter



Nylon

- 100% integrity tested.
- Individually packaged.
- Ideal for sterile filtration.
- Low extractables, high protein binding; recommended for alcohols and weak solvents.

PES

- For medical use, sterile filtering protein solution, tissue culture media, additives.

Nylon



Ref.No.	Size	Description	Package
C0000484	13mm	Sterile Nylon Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000485	13mm	Sterile Nylon Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000486	25mm	Sterile Nylon Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000487	25mm	Sterile Nylon Welded Syringe Filter 0.45um with Printing.	50pcs/pk
C0000510	30mm	Sterile Nylon Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000511	30mm	Sterile Nylon Welded Syringe Filter 0.45um with Printing.	50pcs/pk

PES



Ref.No.	Size	Description	Package
C0000500	13mm	Sterile PES Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000501	13mm	Sterile PES Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000502	25mm	Sterile PES Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000503	25mm	Sterile PES Welded Syringe Filter 0.45um with Printing.	50pcs/pk
C0000518	30mm	Sterile PES Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000519	30mm	Sterile PES Welded Syringe Filter 0.45um with Printing.	50pcs/pk

STERILE SYRINGE FILTER

STERILE WELDED SYRINGE FILTER

- Nylon/ 75
- PES/ 75
- PTFE/ 77
- PVDF/ 77

STERILE ECONOMY SYRINGE FILTER

- Nylon/ 78
- PES/ 78
- PTFE/ 79
- PVDF/ 80

Sterile PTFE Welded Syringe Filter



PTFE

- 100% integrity tested.
- Individually packaged.
- Ideal for sterile filtration.
- For degassing/clarifying aqueous and solvent samples.

PTFE Hydrophilic



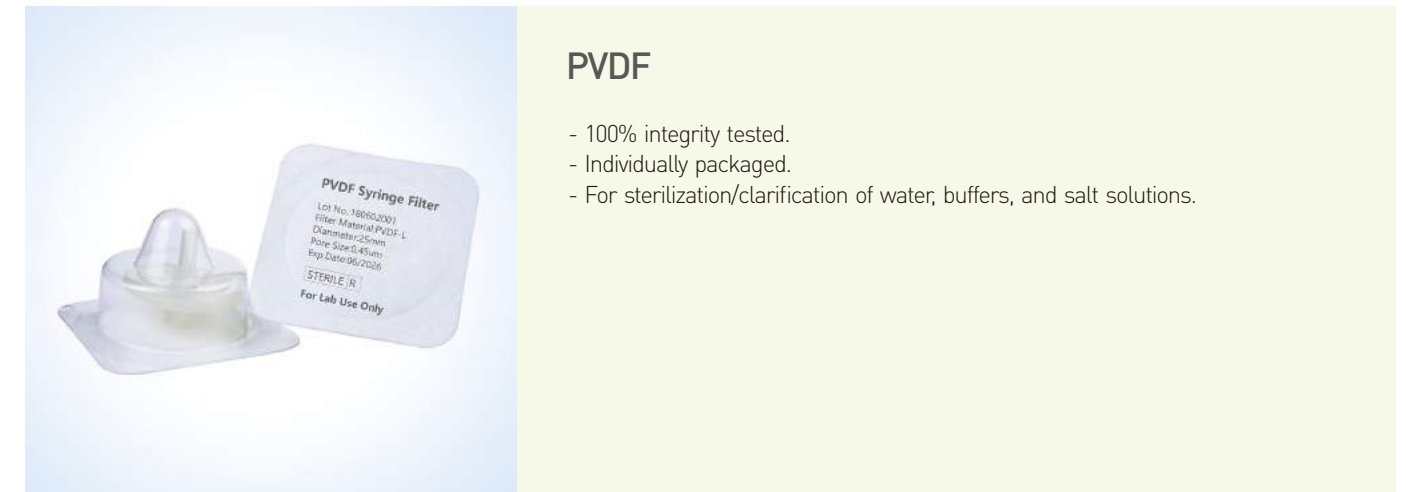
Ref.No.	Size	Description	Package
C0000488	13mm	Sterile PTFE Hydrophilic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000489	13mm	Sterile PTFE Hydrophilic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000490	25mm	Sterile PTFE Hydrophilic Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000491	25mm	Sterile PTFE Hydrophilic Welded Syringe Filter 0.45um with Printing.	50pcs/pk
C0000512	30mm	Sterile PTFE Hydrophilic Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000513	30mm	Sterile PTFE Hydrophilic Welded Syringe Filter 0.45um with Printing.	50pcs/pk

PTFE Hydrophobic



Ref.No.	Size	Description	Package
C0000504	13mm	Sterile PTFE Hydrophobic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000505	13mm	Sterile PTFE Hydrophobic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000506	25mm	Sterile PTFE Hydrophobic Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000507	25mm	Sterile PTFE Hydrophobic Welded Syringe Filter 0.45um with Printing.	50pcs/pk
C0000520	30mm	Sterile PTFE Hydrophobic Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000521	30mm	Sterile PTFE Hydrophobic Welded Syringe Filter 0.45um with Printing.	50pcs/pk

Sterile PVDF Welded Syringe Filter



PVDF

- 100% integrity tested.
- Individually packaged.
- For sterilization/clarification of water, buffers, and salt solutions.

PVDF Hydrophilic




Ref.No.	Size	Description	Package
C0000496	13mm	Sterile PVDF Hydrophilic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000497	13mm	Sterile PVDF Hydrophilic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000498	25mm	Sterile PVDF Hydrophilic Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000499	25mm	Sterile PVDF Hydrophilic Welded Syringe Filter 0.45um with Printing.	50pcs/pk
C0000516	30mm	Sterile PVDF Hydrophilic Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000517	30mm	Sterile PVDF Hydrophilic Welded Syringe Filter 0.45um with Printing.	50pcs/pk

PVDF Hydrophobic



Ref.No.	Size	Description	Package
C0000492	13mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000493	13mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000494	25mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000495	25mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.	50pcs/pk
C0000514	30mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000515	30mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.	50pcs/pk

Sterile Colorful Syringe Filter



Nylon

- 100% integrity tested.
- Individually packaged.
- Ideal for sterile filtration.
- Low extractables; high protein binding; recommended for alcohols and weak solvents.

PES

- For medical use, sterile filtering protein solution, tissue culture media, additives.

Nylon



Ref.No.	Size	Description	Package
C0000524	13mm	Sterile Nylon Syringe Filter 0.22um with Outer Ring.	100pcs/pk
C0000525	13mm	Sterile Nylon Syringe Filter 0.45um with Outer Ring.	100pcs/pk
C0000526	25mm	Sterile Nylon Syringe Filter 0.22um with Outer Ring.	50pcs/pk
C0000527	25mm	Sterile Nylon Syringe Filter 0.45um with Outer Ring.	50pcs/pk
C0000548	33mm	Sterile Nylon Syringe Filter 0.22um with Outer Ring.	50pcs/pk
C0000549	33mm	Sterile Nylon Syringe Filter 0.45um with Outer Ring.	50pcs/pk

PES



Ref.No.	Size	Description	Package
C0000544	13mm	Sterile PES Syringe Filter 0.22um with Outer Ring.	100pcs/pk
C0000545	13mm	Sterile PES Syringe Filter 0.45um with Outer Ring.	100pcs/pk
C0000546	25mm	Sterile PES Syringe Filter 0.22um with Outer Ring.	50pcs/pk
C0000547	25mm	Sterile PES Syringe Filter 0.45um with Outer Ring.	50pcs/pk
C0000558	33mm	Sterile PES Syringe Filter 0.22um with Outer Ring.	50pcs/pk
C0000559	33mm	Sterile PES Syringe Filter 0.45um with Outer Ring.	50pcs/pk

Sterile Colorful PTFE Syringe Filter



PTFE

- 100% integrity tested.
- Individually packaged.
- Ideal for sterile filtration.
- For degassing/clarifying aqueous and solvent samples.

PTFE Hydrophilic



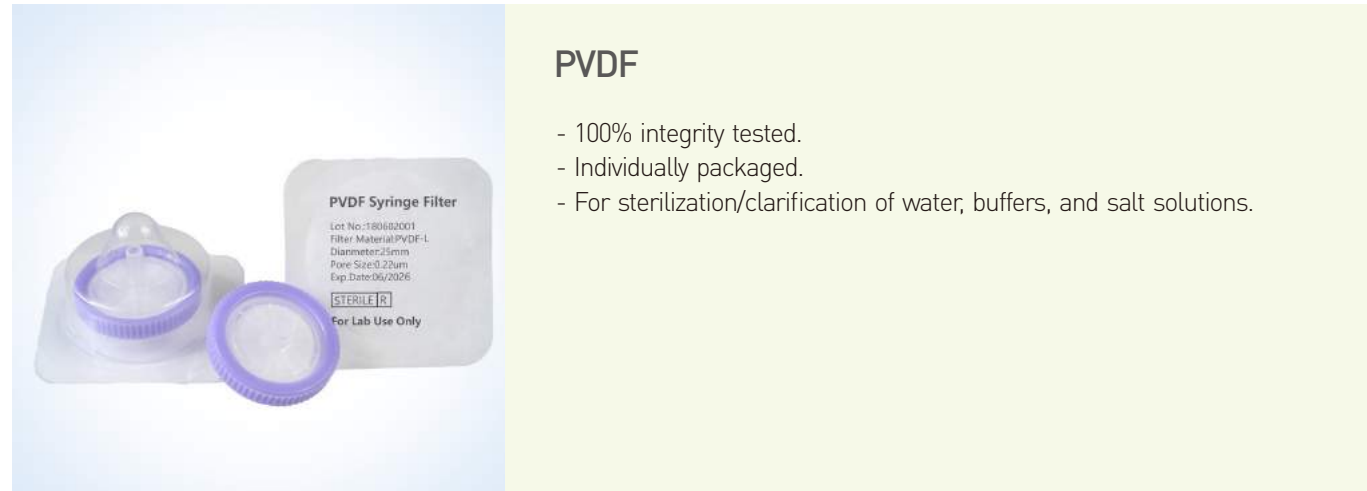
Ref.No.	Size	Description	Package
C0000528	13mm	Sterile PTFE Hydrophilic Syringe Filter 0.22um with Outer Ring.	100pcs/pk
C0000529	13mm	Sterile PTFE Hydrophilic Syringe Filter 0.45um with Outer Ring.	100pcs/pk
C0000530	25mm	Sterile PTFE Hydrophilic Syringe Filter 0.22um with Outer Ring.	50pcs/pk
C0000531	25mm	Sterile PTFE Hydrophilic Syringe Filter 0.45um with Outer Ring.	50pcs/pk
C0000550	33mm	Sterile PTFE Hydrophilic Syringe Filter 0.22um with Outer Ring.	50pcs/pk
C0000551	33mm	Sterile PTFE Hydrophilic Syringe Filter 0.45um with Outer Ring.	50pcs/pk

PTFE Hydrophobic



Ref.No.	Size	Description	Package
C0000532	13mm	Sterile PTFE Hydrophobic Syringe Filter 0.22um with Outer Ring.	100pcs/pk
C0000533	13mm	Sterile PTFE Hydrophobic Syringe Filter 0.45um with Outer Ring.	100pcs/pk
C0000534	25mm	Sterile PTFE Hydrophobic Syringe Filter 0.22um with Outer Ring.	50pcs/pk
C0000535	25mm	Sterile PTFE Hydrophobic Syringe Filter 0.45um with Outer Ring.	50pcs/pk
C0000553	33mm	Sterile PTFE Hydrophobic Syringe Filter 0.22um with Outer Ring.	50pcs/pk
C0000552	33mm	Sterile PTFE Hydrophobic Syringe Filter 0.45um with Outer Ring.	50pcs/pk

Sterile Colorful PVDF Syringe Filter



PVDF

- 100% integrity tested.
- Individually packaged.
- For sterilization/clarification of water, buffers, and salt solutions.

PVDF Hydrophilic



Ref.No.	Size	Description	Package
C0000536	13mm	Sterile PVDF Hydrophilic Syringe Filter 0.22um with Outer Ring.	100pcs/pk
C0000537	13mm	Sterile PVDF Hydrophilic Syringe Filter 0.45um with Outer Ring.	100pcs/pk
C0000538	25mm	Sterile PVDF Hydrophilic Syringe Filter 0.22um with Outer Ring.	50pcs/pk
C0000539	25mm	Sterile PVDF Hydrophilic Syringe Filter 0.45um with Outer Ring.	50pcs/pk
C0000554	33mm	Sterile PVDF Hydrophilic Syringe Filter 0.22um with Outer Ring.	50pcs/pk
C0000555	33mm	Sterile PVDF Hydrophilic Syringe Filter 0.45um with Outer Ring.	50pcs/pk

PVDF Hydrophobic



Ref.No.	Size	Description	Package
C0000540	13mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	100pcs/pk
C0000541	13mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.	100pcs/pk
C0000542	25mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000543	25mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.	50pcs/pk
C0000556	33mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.22um with Printing.	50pcs/pk
C0000557	33mm	Sterile PVDF Hydrophobic Welded Syringe Filter 0.45um with Printing.	50pcs/pk