# CATALOGUE FILTRES SERINGUES 2021-2022

## SOLUTIONS POUR LA CHROMATOGRAPHIE


JASCO


# Welded Syringe Filter

ϕ30mm ϕ25mm ϕ13mm

Pore size:0.22μm/0.45μm

- 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.

# 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.

| Syringe Filter Capacities | Sample Volume |
|---|---|
| 13mm Syringe Filter | less or equal 10mL |
| 25mm Syringe Filter | less or equal 100mL |
| 30mm Syringe Filter | less or equal 150mL |

| Pre-Cut Membrane Capacities | Sample Volume |
|---|---|
| 13mm Pre-Cut Membranes | up to 20mL |
| 25mm Pre-Cut Membranes | up to 100mL |
| 47mm Pre-Cut Membranes | multi-liter |

# 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 Type | Features | Common Uses |
|---|---|---|
| Nylon | Good chemical compatibility and very low extractables | General filtrationsterilization, 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 |


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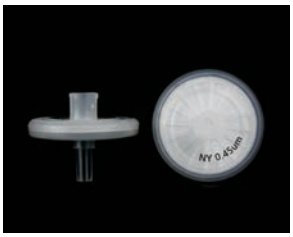
# Nylon

- 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.



## Typical data

| Material | Nylon | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 100℃ | |
| Maximum Operating Pressure(psi) | 87psi | |





| Ref.No. | JAS-00277 | JAS-00278 | JAS-00279 | JAS-00280 |
|---|---|---|---|---|
| Description | 13mm<br>Nylon<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 13mm<br>Nylon<br>Welded Syringe Filter<br>0.45um<br>with Printing. | 25mm<br>Nylon<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 25mm<br>Nylon<br>Welded Syringe Filter<br>0.45um<br>with Printing. |
| 100pcs/pk | | | | |

## Features

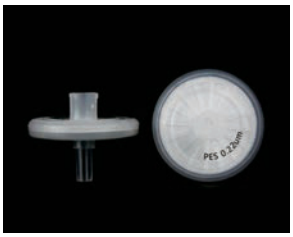
- This Nylon+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- One of the most commonly used membranes; broad compatibility with aqueous and organic solvents, with stable hydrophilicity, not suitable for highly acidic samples.

## 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.

# 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.



## Typical data

| Material | PES | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 90℃ | |
| Maximum Operating Pressure(psi) | 87psi | |





| Ref.No. | JAS-00293 | JAS-00294 | JAS-00295 | JAS-00296 |
|---|---|---|---|---|
| Description | 13mm<br>PES<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 13mm<br>PES<br>Welded Syringe Filter<br>0.45um<br>with Printing. | 25mm<br>PES<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 25mm<br>PES<br>Welded Syringe Filter<br>0.45um<br>with Printing. |
| 100pcs/pk | | | | |

## 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.



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# PTFE Hydrophilic

- For removing particulates, reducing signal-to-noise ratios andmaintaining 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.

## Typical data

| Material | PTFE Hydrophilic | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 130℃ | |
| Maximum Operating Pressure(psi) | 87psi | |





| Ref.No. | JAS-00281 | JAS-00282 | JAS-00283 | JAS-00284 |
|---|---|---|---|---|
| Description | 13mm<br>PTFE Hydrophilic<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 13mm<br>PTFE Hydrophilic<br>Welded Syringe Filter<br>0.45um<br>with Printing. | 25mm<br>PTFE Hydrophilic<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 25mm<br>PTFE Hydrophilic<br>Welded Syringe Filter<br>0.45um<br>with Printing. |
| 100pcs/pk | | | | |

## Features

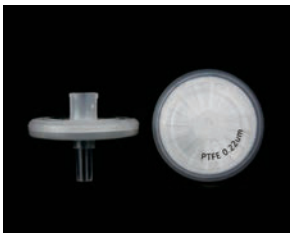
- This PTFE+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Broad chemical compatibility choose for filtering aqueous and organic solutions low protein binding.

## Applications

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

# PTFE Hydrophobic

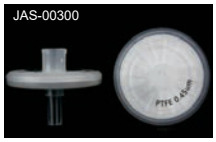
- High mechanical and tensile strength.
- Used for most organic solvents and mid-polar liquids.
- Two types in pore size:0.22μm and 0.45μm.
- Three types in filter size:13mm, 25mm and 30mm.



## Typical data

| Material | PTFE Hydrophobic | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 130℃ | |
| Maximum Operating Pressure(psi) | 87psi | |




| Ref.No. | JAS-00297 | JAS-00298 | JAS-00299 | JAS-00300 |
|---|---|---|---|---|
| Description | 13mm<br>PTFE Hydrophobic<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 13mm<br>PTFE Hydrophobic<br>Welded Syringe Filter<br>0.45um<br>with Printing. | 25mm<br>PTFE Hydrophobic<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 25mm<br>PTFE Hydrophobic<br>Welded Syringe Filter<br>0.45um<br>with Printing. |

100pcs/pk

## 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.

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# 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.

## Typical data

| Material | PVDF Hydrophilic | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 100℃ | |
| Maximum Operating Pressure(psi) | 87psi | |





| Ref.No. | JAS-00289 | JAS-00290 | JAS-00291 | JAS-00292 |
|---|---|---|---|---|
| Description | 13mm<br>PVDF Hydrophilic<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 13mm<br>PVDF Hydrophilic<br>Welded Syringe Filter<br>0.45um<br>with Printing. | 25mm<br>PVDF Hydrophilic<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 25mm<br>PVDF Hydrophilic<br>Welded Syringe Filter<br>0.45um<br>with Printing. |
| 100pcs/pk | | | | |

## 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.

# 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.

## Typical data

| Material | PVDF Hydrophobic | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 100℃ | |
| Maximum Operating Pressure(psi) | 87psi | |





| Ref.No. | JAS-00285 | JAS-00286 | JAS-00287 | JAS-00288 |
|---|---|---|---|---|
| Description | 13mm<br>PVDF Hydrophobic<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 13mm<br>PVDF Hydrophobic<br>Welded Syringe Filter<br>0.45um<br>with Printing. | 25mm<br>PVDF Hydrophobic<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 25mm<br>PVDF Hydrophobic<br>Welded Syringe Filter<br>0.45um<br>with Printing. |
| 100pcs/pk | | | | |

## 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.




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# CA

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

## Typical data

| Material | CA | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 50℃ | |
| Maximum Operating Pressure(psi) | 87psi | |





| Ref.No. | JAS-00760 | JAS-00761 | JAS-00301 | JAS-00302 |
|---|---|---|---|---|
| Description | 13mm<br>CA<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 13mm<br>CA<br>Welded Syringe Filter<br>0.45um<br>with Printing. | 25mm<br>CA<br>Welded Syringe Filter<br>0.22um<br>with Printing. | 25mm<br>CA<br>Welded Syringe Filter<br>0.45um<br>with Printing. |
| 100pcs/pk | | | | |

## Features

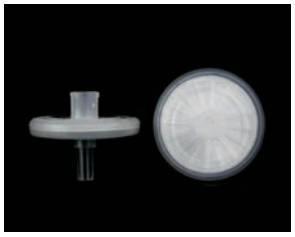
- This CA+PP pre-filter provides two times greater throughput than standard filter without pre-filtration.
- Naturally hydrophilic membrane filter.
- Low protein binding: great for protein solutions, such as protein isolation pre-filtration.
- Suitable for ground water filtration.
- Uniform pore size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

## Applications

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

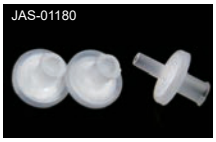
# RC

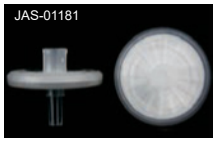
- The best option for reliable and leachable free sterilisation of liquids.
- The very low non-specific binding characteristics of this membrane makes it a perfect choice for biomolecule solutions and other dissolved substances.
- Two types in pore size:0.22μm and 0.45μm.
- Three types in filter size:13mm, 25mm and 30mm.

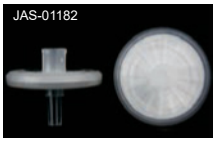


## Typical data

| Material | RC | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 100℃ | |
| Maximum Operating Pressure(psi) | 87psi | |


| Ref.No. | JAS-01179 | JAS-01180 | JAS-01181 | JAS-01182 |
|---|---|---|---|---|
| Description | 13mm<br>RC<br>Welded Syringe Filter<br>0.22um. | 13mm<br>RC<br>Welded Syringe Filter<br>0.45um. | 25mm<br>RC<br>Welded Syringe Filter<br>0.22um. | 25mm<br>RC<br>Welded Syringe Filter<br>0.45um. |
| 100pcs/pk | | | | |

## 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.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# Economy Syringe Filter

ϕ33mm ϕ25mm ϕ13mm

Pore size:0.22μm/0.45μm


## Economy Syringe Filter

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

| Type | Color 0.45μm | Color 0.22μm |
|---|---|---|
| MCE | Green | Light Green |
| NY | Yellow | Light Yellow |
| PES | Green | Light Green |
| PVDF(Hydrophilic/Hydrophobic) | Purple | Light Purple |
| PTFE(Hydrophilic/Hydrophobic) | Red | Pink |

# 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.

## Typical data

| Material | Nylon | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 100℃ | |
| Maximum Operating Pressure(psi) | 87psi | |




| Ref.No. | JAS-00602 | JAS-00603 | JAS-00604 | JAS-00605 |
|---|---|---|---|---|
| Description | 13mm<br>Nylon<br>Syringe Filter<br>0.22um<br>with Outer Ring. | 13mm<br>Nylon<br>Syringe Filter<br>0.45um<br>with Outer Ring. | 25mm<br>Nylon<br>Syringe Filter<br>0.22um<br>with Outer Ring. | 25mm<br>Nylon<br>Syringe Filter<br>0.45um<br>with Outer Ring. |
| 100pcs/pk | | | | |

## 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.


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# 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.

## Typical data

| Material | PES | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 90℃ | |
| Maximum Operating Pressure(psi) | 87psi | |




| Ref.No. | JAS-00622 | JAS-00623 | JAS-00624 | JAS-00625 |
|---|---|---|---|---|
| Description | 13mm<br>PES<br>Syringe Filter<br>0.22um<br>with Outer Ring. | 13mm<br>PES<br>Syringe Filter<br>0.45um<br>with Outer Ring. | 25mm<br>PES<br>Syringe Filter<br>0.22um<br>with Outer Ring. | 25mm<br>PES<br>Syringe Filter<br>0.45um<br>with Outer Ring. |
| 100pcs/pk | | | | |

## Features

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

## 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.

# 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 .

## Typical data

| Material | PTFE Hydrophobic | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 130℃ | |
| Maximum Operating Pressure(psi) | 87psi | |




| Ref.No. | JAS-00610 | JAS-00611 | JAS-00612 | JAS-00613 |
|---|---|---|---|---|
| Description | 13mm<br>PTFE Hydrophobic<br>Syringe Filter<br>0.22um<br>with Outer Ring. | 13mm<br>PTFE Hydrophobic<br>Syringe Filter<br>0.45um<br>with Outer Ring. | 25mm<br>PTFE Hydrophobic<br>Syringe Filter<br>0.22um<br>with Outer Ring. | 25mm<br>PTFE Hydrophobic<br>Syringe Filter<br>0.45um<br>with Outer Ring. |
| 100pcs/pk | | | | |

## 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.


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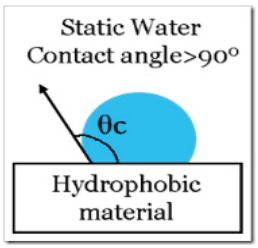
# PTFE Hydrophilic

- 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 mole cules to form intermolecular foces.




- 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.

## Typical data

| Material | PTFE Hydrophilic | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 130℃ | |
| Maximum Operating Pressure(psi) | 87psi | |




| Ref.No. | JAS-00606 | JAS-00607 | JAS-00608 | JAS-00609 |
|---|---|---|---|---|
| Description | 13mm<br>PTFE Hydrophilic<br>Syringe Filter<br>0.22um<br>with Outer Ring. | 13mm<br>PTFE Hydrophilic<br>Syringe Filter<br>0.45um<br>with Outer Ring. | 25mm<br>PTFE Hydrophilic<br>Syringe Filter<br>0.22um<br>with Outer Ring. | 25mm<br>PTFE Hydrophilic<br>Syringe Filter<br>0.45um<br>with Outer Ring. |
| 100pcs/pk | | | | |

## 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.

# 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.

## Typical data

| Material | PVDF Hydrophobic | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 100℃ | |
| Maximum Operating Pressure(psi) | 87psi | |




| Ref.No. | JAS-00618 | JAS-00619 | JAS-00620 | JAS-00621 |
|---|---|---|---|---|
| Description | 13mm<br>PVDF Hydrophobic<br>Syringe Filter<br>0.22um<br>with Outer Ring. | 13mm<br>PVDF Hydrophobic<br>Syringe Filter<br>0.45um<br>with Outer Ring. | 25mm<br>PVDF Hydrophobic<br>Syringe Filter<br>0.22um<br>with Outer Ring. | 25mm<br>PVDF Hydrophobic<br>Syringe Filter<br>0.45um<br>with Outer Ring. |
| 100pcs/pk | | | | |

## 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.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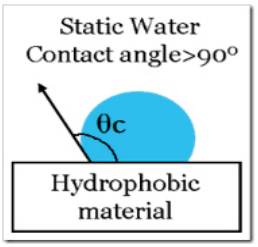
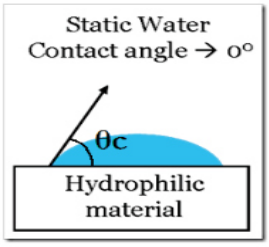
# PVDF Hydrophilic

- 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 mole cules to form intermolecular foces.

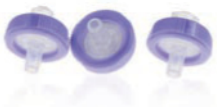



- Low protein-binding for filtration of non-aggressive aqueous and mild organic solutions.
- Low UV absorbing extractables and low nonspecific protein binding.
- Two types in pore size:0.22μm and 0.45μm.
- Three types in filter size:13mm, 25mm and 33mm.

## Typical data

| Material | PVDF Hydrophilic | |
|---|---|---|
| Material of housing | pp | |
| Effective filtration area(cm²) | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | 0.22/0.45 | |
| Process volume(ml) | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | 100℃ | |
| Maximum Operating Pressure(psi) | 87psi | |



| Ref.No. | JAS-00614 | JAS-00615 | JAS-00616 | JAS-00617 |
|---|---|---|---|---|
| Description | 13mm PVDF Hydrophilic Syringe Filter 0.22um with Outer Ring. | 13mm PVDF Hydrophilic Syringe Filter 0.45um with Outer Ring. | 25mm PVDF Hydrophilic Syringe Filter 0.22um with Outer Ring. | 25mm PVDF Hydrophilic Syringe Filter 0.45um with Outer Ring. |
| 100pcs/pk | | | | |

## 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.

# MCE

- 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, 33mm.


## Typical data

| Material | | MCE | |
|---|---|---|---|
| Material of housing | | pp | |
| Effective filtration area(cm²) | | 13mm/1.13cm² | 25mm/4.15cm² |
| Pore size(μm) | | 0.22/0.45 | |
| Process volume(ml) | | <10ml(13mm) | <100ml(25mm) |
| Maximum Operating Temperature | | 50℃ | |
| Maximum Operating Pressure(psi) | | 87psi | |

| Ref.No. | JAS-01239 | JAS-01240 | JAS-01241 | JAS-01242 |
|---|---|---|---|---|
| Description | 13mm<br>MCE<br>Syringe Filter<br>0.22um<br>with Outer Ring and Printing. | 13mm<br>MCE<br>Syringe Filter<br>0.45um<br>with Outer Ring and Printing. | 25mm<br>MCE<br>Syringe Filter<br>0.22um<br>with Outer Ring and Printing. | 25mm<br>MCE<br>Syringe Filter<br>0.45um<br>with Outer Ring and Printing. |
| 100pcs/pk | | | | |

## 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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# Sterile Syringe Filter

## Nylon

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

| Ref.No. | JAS-00524 | JAS-00525 | JAS-00526 | JAS-00527 |
|---|---|---|---|---|
| Description | Sterile<br>13mm<br>Nylon Syringe Filter<br>0.22um<br>with Outer Ring. | Sterile<br>13mm<br>Nylon Syringe Filter<br>0.45um<br>with Outer Ring. | Sterile<br>25mm<br>Nylon Syringe Filter<br>0.22um<br>with Outer Ring. | Sterile<br>25mm<br>Nylon Syringe Filter<br>0.45um<br>with Outer Ring. |
| | 100pcs/pk | | 50pcs/pk | |

## PTFE

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

### PTFE Hydrophilic

| Ref.No. | JAS-00528 | JAS-00529 | JAS-00530 | JAS-00531 |
|---|---|---|---|---|
| Description | Sterile<br>13mm<br>PTFE Hydrophilic Syringe Filter<br>0.22um<br>with Outer Ring. | Sterile<br>13mm<br>PTFE Hydrophilic Syringe Filter<br>0.45um<br>with Outer Ring. | Sterile<br>25mm<br>PTFE Hydrophilic Syringe Filter<br>0.22um<br>with Outer Ring. | Sterile<br>25mm<br>PTFE Hydrophilic Syringe Filter<br>0.45um<br>with Outer Ring. |
| | 100pcs/pk | | 50pcs/pk | |

### PTFE Hydrophobic

| Ref.No. | JAS-00532 | JAS-00533 | JAS-00534 | JAS-00535 |
|---|---|---|---|---|
| Description | Sterile<br>13mm<br>PTFE Hydrophobic Syringe Filter<br>0.22um<br>with Outer Ring. | Sterile<br>13mm<br>PTFE Hydrophobic Syringe Filter<br>0.45um<br>with Outer Ring. | Sterile<br>25mm<br>PTFE Hydrophobic Syringe Filter<br>0.22um<br>with Outer Ring. | Sterile<br>25mm<br>PTFE Hydrophobic Syringe Filter<br>0.45um<br>with Outer Ring. |
| | 100pcs/pk | | 50pcs/pk | |

# PES

- 100% integrity tested.
- Individually packaged.
- Ideal for sterile filtration.
- For medical use,sterile filtering protein solution, tissue culture media, additives.

| Ref.No. | JAS-00544 | JAS-00545 | JAS-00546 | JAS-00547 |
|---|---|---|---|---|
| Description | Sterile<br>13mm<br>PES Syringe Filter<br>0.22um<br>with Outer Ring. | Sterile<br>13mm<br>PES Syringe Filter<br>0.45um<br>with Outer Ring. | Sterile<br>25mm<br>PES Syringe Filter<br>0.22um<br>with Outer Ring. | Sterile<br>25mm<br>PES Syringe Filter<br>0.45um<br>with Outer Ring. |
| | 100pcs/pk | | 50pcs/pk | |

# PVDF

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

## PVDF Hydrophilic

| Ref.No. | JAS-00536 | JAS-00537 | JAS-00538 | JAS-00539 |
|---|---|---|---|---|
| Description | Sterile<br>13mm<br>PVDF Hydrophilic Syringe Filter<br>0.22um<br>with Outer Ring. | Sterile<br>13mm<br>PVDF Hydrophilic Syringe Filter<br>0.45um<br>with Outer Ring. | Sterile<br>25mm<br>PVDF Hydrophilic Syringe Filter<br>0.22um<br>with Outer Ring. | Sterile<br>25mm<br>PVDF Hydrophilic Syringe Filter<br>0.45um<br>with Outer Ring. |
| | 100pcs/pk | | 50pcs/pk | |

## PVDF Hydrophobic

| Ref.No. | JAS-00540 | JAS-00541 | JAS-00542 | JAS-00543 |
|---|---|---|---|---|
| Description | Sterile<br>13mm<br>PVDF Hydrophobic Syringe Filter<br>0.22um<br>with Outer Ring. | Sterile<br>13mm<br>PVDF Hydrophobic Syringe Filter<br>0.45um<br>with Outer Ring. | Sterile<br>25mm<br>PVDF Hydrophobic Syringe Filter<br>0.22um<br>with Outer Ring. | |
| | 100pcs/pk | | 50pcs/pk | |



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# 47MM Sterile MCE Grid Membrane Filter

- Biologically inert mixtures of cellulose acetate and cellulose nitrate have made sterile MCE membrane filters one of the most widely used membranes in analytical and research applications.



| Ref.No. | JAS-01244 | JAS-01243 |
|---|---|---|
| Description | 47mm<br>Sterile MCE Grid Membrane<br>White Membrane/Black<br>0.22um. | 47mm<br>Sterile MCE Grid Membrane<br>White Membrane/Black<br>0.45um. |
| | 100pcs/pk | |

## Features

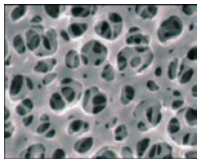
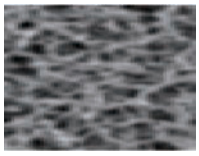
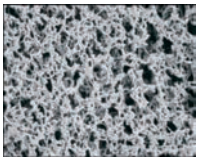
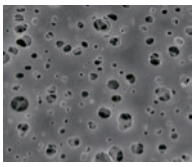
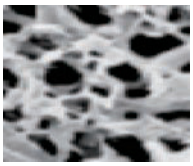
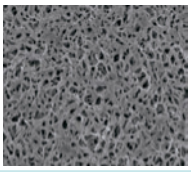
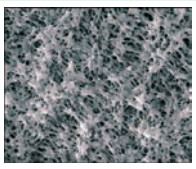
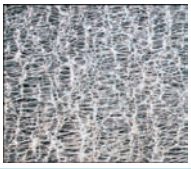
- Ideal for capturing and culturing microorganisms in the Water and wastewater industry.
- Used to determine particulate contamination of lubricating oil and hydraulic fluid in patch test kits.
- Available in pore sizes 0.22um and 0.45um, colored black, with a gridded surface.
- Compatible with gamma irradiation.

# Membrane Filter

- Membrane filters or "membranes" are polymer films with specific pore ratings.
- Membranes retain particles and microorganisms that exceed their pore ratings by acting as a physical barrier and capturing such particles on the surface of the membrane.
- Labfil membranes are available in a variety of polymers, pore sizes, diameters, and surface types.

# Membrane Filter

- Membrane filters or "membranes" are polymer films with specific pore ratings.
- Membranes retain particles and microorganisms that exceed their pore ratings by acting as a physical barrier and capturing such particles on the surface of the membrane.
- Labfil membranes are available in a variety of polymers, pore sizes, diameters, and surface types.

| Image | Type | Dimension(mm) | Pore Size | Item No. | Packing |
|---|---|---|---|---|---|
|  | CA | 47mm | 0.22μm | JAS-00875 | 100pcs/pk |
| | | | 0.45μm | JAS-00876 | |
| | | 90mm | 0.22μm | JAS-00877 | 100pcs/pk |
| | | | 0.45μm | JAS-00878 | |
|  | MCE | 47mm | 0.22μm | JAS-00311 | 100pcs/pk |
| | | | 0.45μm | JAS-00313 | |
| | | 90mm | 0.22μm | JAS-00312 | 100pcs/pk |
| | | | 0.45μm | JAS-00314 | |
|  | Nylon | 47mm | 0.22μm | JAS-00303 | 100pcs/pk |
| | | | 0.45μm | JAS-00305 | |
| | | 90mm | 0.22μm | JAS-00304 | 100pcs/pk |
| | | | 0.45μm | JAS-00306 | |
|  | PES | 47mm | 0.22μm | JAS-00891 | 100pcs/pk |
| | | | 0.45μm | JAS-00892 | |
| | | 90mm | 0.22μm | JAS-00893 | 100pcs/pk |
| | | | 0.45μm | JAS-00894 | |
|  | PVDF(Hydrophilic) | 47mm | 0.22μm | JAS-00909 | 100pcs/pk |
| | | | 0.45μm | JAS-00563 | |
| | | 90mm | 0.22μm | JAS-00910 | 100pcs/pk |
| | | | 0.45μm | JAS-00911 | |
|  | PVDF(Hydrophobic) | 47mm | 0.22μm | JAS-00916 | 100pcs/pk |
| | | | 0.45μm | JAS-00917 | |
| | | 90mm | 0.22μm | JAS-00918 | 100pcs/pk |
| | | | 0.45μm | JAS-00919 | |
|  | PTFE(Hydrophilic) | 47mm | 0.22μm | JAS-00424 | 100pcs/pk |
| | | | 0.45μm | JAS-00425 | |
| | | 90mm | 0.22μm | JAS-00899 | 100pcs/pk |
| | | | 0.45μm | JAS-00900 | |
|  | PTFE(Hydrophobic) | 47mm | 0.22μm | JAS-00307 | 100pcs/pk |
| | | | 0.45μm | JAS-00309 | |
| | | 90mm | 0.22μm | JAS-00308 | 100pcs/pk |
| | | | 0.45μm | JAS-00310 | |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# Chemical Compatibility

| C=Compatibility LC=Limited Compatibility IC=Incompatibility ND=No Data at present | | | | | |
|---|---|---|---|---|---|
| Chemical | | Nylon | PTFE | PVDF | PES |
| ACIDS | acetic acid 25% | C | C | C | C |
| | hydrochloric acid 25% | IC | C | C | C |
| | Sulfuric acid,25% | IC | C | C | C |
| | Nitric acid,25% | IC | C | C | C |
| | Phosphoric acid,25% | IC | C | ND | ND |
| | Formic acid,25% | IC | C | ND | ND |
| | trichloroacetic acid,10% | IC | C | ND | ND |
| Alcohol | Methyl alcohol,98% | C | C | C | C |
| | ethyl alcohol,70% | LC | C | C | C |
| | Isopropyl alcohol | C | C | C | C |
| | Butanol | C | C | C | C |
| | benzyl alcohol | C | C | C | ND |
| | glycerinum | C | C | C | C |
| Acid amides | Triethanolamine | C | C | ND | ND |
| | Aniline | ND | C | ND | ND |
| | Pyridine | C | C | IC | IC |
| | Acetonitrile | C | C | C | LC |
| Lipid | Ethyl acetate | C | C | C | IC |
| | N-butyl acetate | C | C | IC | IC |
| | Propyl acetate | C | C | IC | IC |
| | Cellosolve acetate | ND | C | ND | IC |
| | Methyl Cellosolve | ND | C | ND | IC |
| | Isopropyl myristate | C | C | ND | IC |
| Ketone | Acetone | C | C | IC | IC |
| | Cyclohexanone | C | C | IC | IC |
| | Methyl ethyl ketone | C | C | LC | IC |
| | Methyl-Isobutyl Ketone | ND | C | LC | IC |
| Organic Peroxide | Dioxane | C | C | LC | IC |
| | Tetrahydrofuran | C | C | LC | IC |
| | Dimethyl sulfoxide | C | C | IC | IC |
| | Isopropyl ether | ND | C | C | C |
| Sundry | Phenol solution,10% | ND | C | LC | IC |
| | Formaldehyde Solution,30% | C | C | C | C |
| | Hydrogen Peroxide | C | C | ND | ND |
| | Silicone oil/silicone oil | ND | C | C | C |

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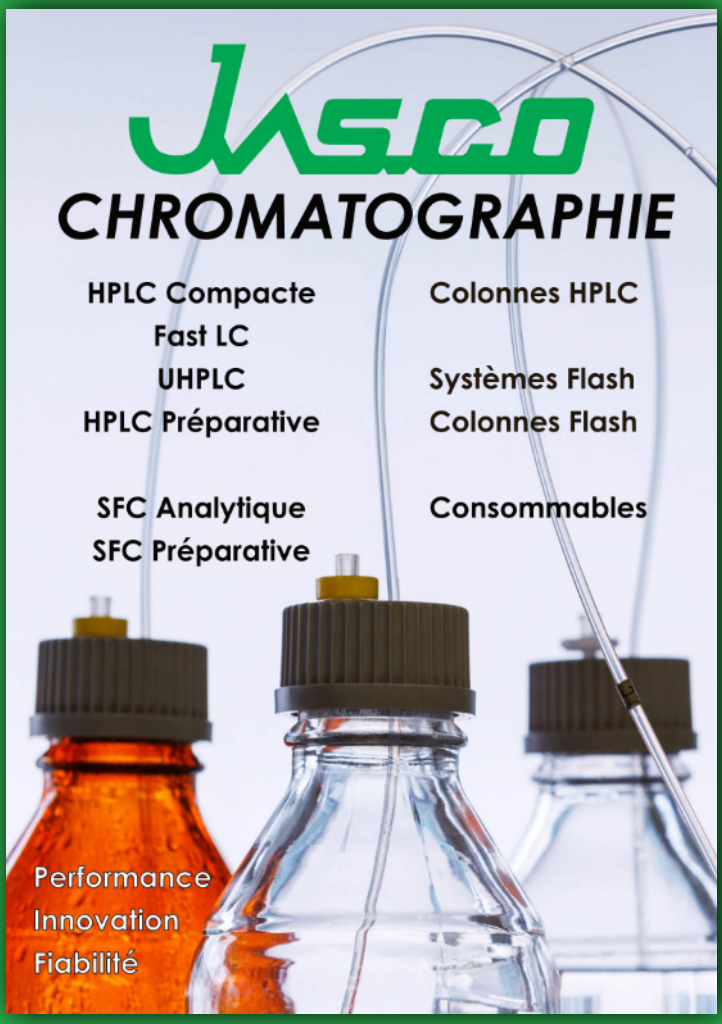


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