

**NEW**

We are excited to introduce  
our latest product range

**BORO PURE**  
Syringe Filter



Pure **PROTECTION**,  
Precise **RESULTS**  
*for your chromatography*

This syringe filter combines premium quality and economy, are designed for quick, efficient filtration of samples up to 100 ml volume. Filters are produced from polypropylene with standard inlet (female luer lock) and outlet (male luer) connections available in both sterile and non sterile.

# Why?

## BORO PURE

Syringe filters are engineered to efficiently remove fine particles and microorganisms, protecting chromatography columns from blockages and ensuring reliable, reproducible results every time.

### Key Features :

- HPLC Certified for low extractable levels
- IC Certified for minimal inorganic contaminants
- Color-coded for easy membrane identification





### Syringe filter unit Specification :

TYPE	FS 13mm	FS 25mm
<b>Housing</b>	Polypropylene	Polypropylene
<b>Filtration area</b>	1.3 cm <sup>2</sup>	4.6 cm <sup>2</sup>
<b>Maximum pressure</b>	100 psi(8.6 bar)	75 psi(5.2 bar)
<b>Volume hold up with full housing air purge</b>	50 ul approx	250 ul approx
<b>Flow direction</b>	Flow should entry from the inlet	Flow should entry from the inlet
<b>Inlet connection</b>	Female luer lock	Female luer lock
<b>Outlet connection</b>	Male luer lock	Male luer lock
<b>Sterilization</b>	Autoclave at 121 °C (max 131 °C ) at 15 psi for 20 mins	Autoclave at 121 °C (max 131 °C ) at 15 psi for 20 mins

### Filter Type Available :

<b>Nylon</b>	Aqueous and Organic solutions
<b>Hydrophobic PTFE</b>	Aqueous and mild organic solvents
<b>Hydrophilic PTFE</b>	Organic Solvents
<b>PES</b>	High flow rate low extraction
<b>PVDF</b>	Aqueous and Organic solutions

### Syringe Filter colour coding for easy identification



COLOUR	MEMBRANE	
PURPLE	NYLON	
BLUE	PVDF	
YELLOW	PTFE	
NEUTRAL	PES	

# How to choose the correct Filter



for your chromatography application



## 1 Sample volume

1 to 10 ml		13 mm
10 to 100 ml		25 mm

## 2 Size and amount of particulate in the samples

Sample particle size	
< 0.5 $\mu\text{m}$	< 2.0 $\mu\text{m}$
HPLC column particle size	
> 3.0 $\mu\text{m}$	> 3.0 $\mu\text{m}$
↓	↓
Filter pore size 0.22 $\mu\text{m}$	Filter pore size 0.45 $\mu\text{m}$
	

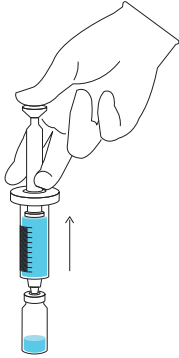
## Membrane compatibility with sample type and technique

Sample Type	Technique
Standard HPLC sample/solvents	Nylon (NY) Polyvinylidene Fluoride (PVDF)
Standard GC samples/solvents	Polytetrafluoroethylene (PTFE)
UV Spectrometry	PVDF
Capillary electrophoresis	Polyethersulfone (PES)
Protein analysis	PVDF
Protein analysis	PVDF

## Operation Steps :

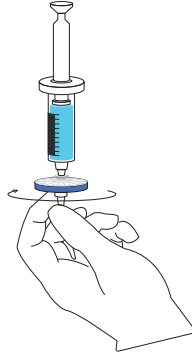
### Step 1

Collect a sample from the vials



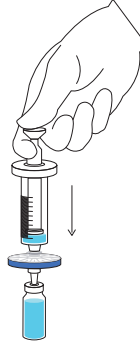
### Step 2

Attach the syringe filter by twisting it clockwise



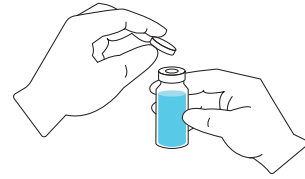
### Step 3

Filter the sample by pushing it through the syringe filter



### Step 4

Recap the vial and load it into the **autosampler**



## SYRINGE FILTERS NYLON



**BoroPURE nylon non-sterile syringe filter offers the following advantages:**

- Works with a wide variety of solvents Offered in pore sizes of 0.20  $\mu\text{m}$  and 0.45  $\mu\text{m}$ , with two available diameters to meet specific application requirements
- Suitable for both aqueous and organic solutions, ensuring extensive chemical compatibility and versatility in the lab
- The polypropylene housing ensures minimal extractables and excellent overall chemical compatibility

### Applications :

- Ideal for low volume aqueous solutions

## SYRINGE FILTERS PVDF



**BoroPURE (PVDF) non-sterile syringe filter offers the following advantages :**

- Low protein binding to reduce sample interaction and optimize recovery.
- Suitable for both aqueous and mild organic solutions. High-density polyethylene housing provides minimal extractables and broad chemical compatibility.

### Applications :

- Ideal for sample filtration prior to HPLC, HPLC and Mass Spec, solvent filtration.
- Protein based samples with high non-specific bonding
- Environmental water samples

## SYRINGE FILTERS PES



**BoroPURE (PES) non-sterile syringe filter offers the following advantages**

- Non-sterile BoroPURE syringe filters with a polyethersulfone (PES) membrane enable rapid filtration of aqueous and mild organic solutions
- They feature low protein binding to reduce sample interaction and enhance recovery
- The polypropylene housing ensures minimal extractable and broad chemical compatibility

**Applications :**

- IC sample preparation and analysis
- Dissolution testing

## SYRINGE FILTERS PTFE (HYDROPHILIC)



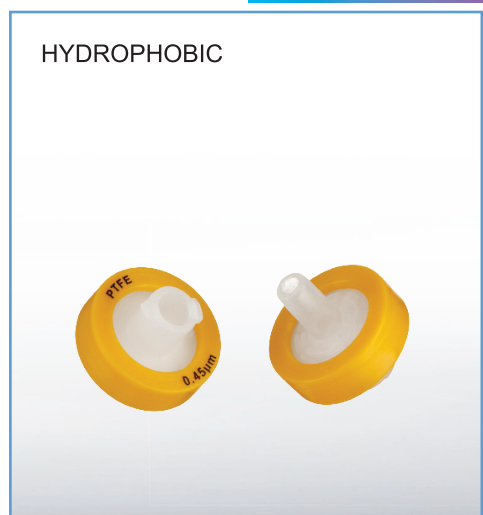
**BoroPURE (Hydrophilic PTFE) Syringe Filter non-sterile offers the following advantages:**

- Designed for the lowest extractable, ensuring minimal background interference in sensitive analysis such as UHPLC and LC-MS
- Suitable for filtering protein-containing, aqueous or organic solutions
- Available in 0.20 µm and 0.45 µm pore sizes, with three diameter options to meet specific application requirements

**Applications :**

- Sample filtration before UHPLC, HPLC and Mass Spectrometry
- Solvent filtration
- Clarification of aqueous and organic solutions

## SYRINGE FILTERS PTFE (HYDROPHOBIC)



**BoroPURE (PVDF) syringe filter non-sterile offers the following advantages :**

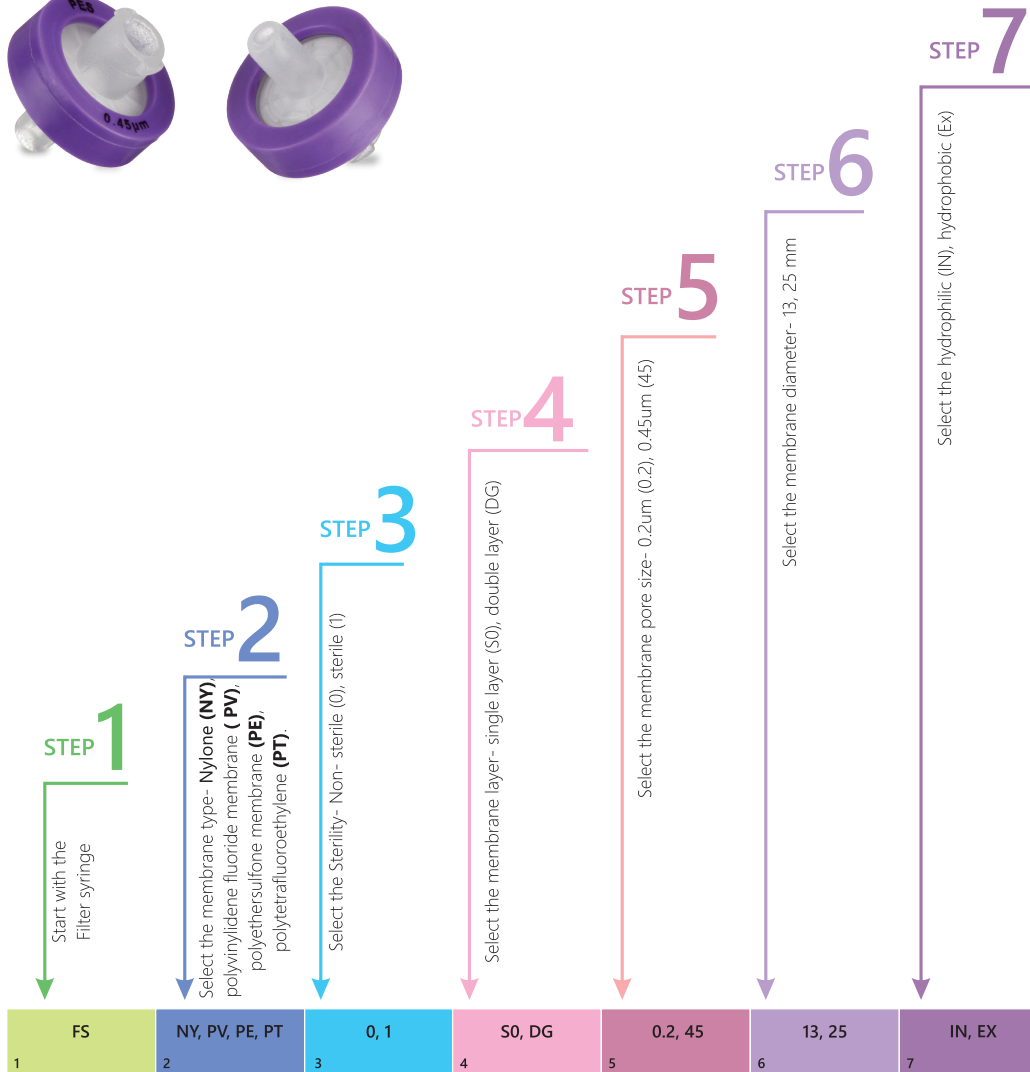
- Non Sterile BoroPURE hydrophobic PTFE syringe filter is a 25 mm filter with a male Luer-slip outlet, designed for venting and gas filtration, It is ideal for filtering organic solutions in the 10-100 milliliter (ml) range to remove particles before instrumental analysis
- Suitable for both aqueous and mild organic solutions. High-density polyethylene housing provides minimal extractables and broad chemical compatibility.

**Applications :**

- Ideal for filtering alcohols, concentrated acids and bases, as well as air or gases.

Easy ordering!!!

## The 7 Digit Code



## ORDERING INFORMATION :

Product Code	Membrane	Pore Size, $\mu\text{m}$	Diameter, mm	Pack Size in Pieces	Case lot
FSNYOS02213000	NYLON	0.2	13	100	5x100
FSNYOS02225000	NYLON	0.2	25	100	5x100
FSNYOS04513000	NYLON	0.45	13	100	5x100
FSNYOS04525000	NYLON	0.45	25	100	5x100

\*Sterile syringe filter Nylon available on request\*

Product Code	Membrane	Pore Size, $\mu\text{m}$	Diameter, mm	Pack Size in Pieces	Case lot
FSPVOS02213000	PVDF	0.2	13	100	5x100
FSPVOS02225000	PVDF	0.2	25	100	5x100
FSPVOS04513000	PVDF	0.45	13	100	5x100
FSPVOS04525000	PVDF	0.45	25	100	5x100

\*Sterile syringe filter PVDF available on request\*

Product Code	Membrane	Pore Size, $\mu\text{m}$	Diameter, mm	Pack Size in Pieces	Case Slot
FSPTOS022130IN	PTFE	0.2	13	100	5x100
FSPTOS022250IN	PTFE	0.2	25	100	5x100
FSPTOS045130IN	PTFE	0.45	13	100	5x100
FSPTOS045250IN	PTFE	0.45	25	100	5x100

\*Sterile syringe filter PVDF available on request\*

Product Code	Membrane	Pore Size, $\mu\text{m}$	Diameter, mm	Pack Size in Pieces	Case lot
FSPTOS022130EX	PTFE	0.2	13	100	5x100
FSPTOS022250EX	PTFE	0.2	25	100	5x100
FSPTOS045130EX	PTFE	0.45	13	100	5x100
FSPTOS045250EX	PTFE	0.45	25	100	5x100

\*Sterile syringe filter PTFE available on request\*

Product Code	Membrane	Pore Size, $\mu\text{m}$	Diameter, mm	Pack Size in Pieces	Case lot
FSPEOS04525000	PES	0.45	25	100	5x100

\*Sterile syringe filter PES available on request\*



CIN : U74999MH1991PLC061851

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