

1.1 Syringe Filters

A. Hydrophilic Polytetrafluoroethylene (PTFE)

Hydrophilic PTFE membranes are unsupported membrane that ideal for HPLC and mixtures of aqueous and organic solvents. Use with both aqueous and organic solvents, along with their mixtures.

B. Polyvinylidene Difluoride (PVDF)

Hydrophobic membrane. Fast flow rate and very low protein binding. Generally compatible with most common solvents. Ideal for protein recovery applications.

C. Mixed Cellulose Esters (MCE)

Hydrophilic MCE membranes. Biologically inert mixture of Cellulose Acetate and Cellulose Nitrate membranes, which have higher protein binding than CA for most proteins. High porosity provides high flow rate. Good use for aqueous based samples.

Specifications

0.1µm	0.22µm	0.45µm	0.65µm	>1.0µm
Mycoplasmas	UHPLC	HPLC	Yeasts	Large Particulates
Colloids	Bacteria	Particulates	Particulates	
Small Particulates	Small Particulates			

Process Volume	1-10ml	10-60ml	10-80ml	10-100ml
Syringe Filter Diameter	13mm	20mm	25mm	33mm

Filter Media	PTFE/PVDF/MCE				
Pore Size, μm	0.1 μm , 0.22 μm , 0.45 μm .				
Pre-filter	1 μm Glass Fiber or PP				
Diameter	4mm	13mm	25mm	33mm	50mm
Housing	PP	PP	PP	PP	PP
Filtration Area	0.2 cm^2	1.3 cm^2	4.9 cm^2	8.5 cm^2	19.8 cm^2
Process Volume	2ml	10ml	100ml	200ml	5000ml
Hold-up Volume	<10ul	< 50ul	<100ul	<200ul	<350ul
Packing	Individually packed				
Temperature	Maximum Operating Temperature 131°C				