

Syringe filter



Cellulose Acetate (CA)

Article	Description
260213	SF, CA, 0.2 µm, 13 mm, PP housing
260423	SF, CA, 0.2 µm, 25 mm, PP housing
260413	SF, CA, 0.45 µm, 13 mm, PP housing
260424	SF, CA, 0.45 µm, 25 mm, PP housing
260427	SF, CA, 0.45 µm, 25 mm, PP housing, GF prefilter
260225	SF, CA, 0.2 µm, 25 mm, PP housing, sterile
260226	SF CA, 0.2 µm, 33 mm, sterile, PC housing
260425	SF, CA, 0.45 µm, 25 mm, sterile, PP housing
260426	SF, CA, 0.45 µm, 33 mm, sterile, PC housing

Mixed Cellulose Ester (MCE)

Article	Description
240213	SF, MCE, 0.2 µm, 13 mm, PP housing
240230	SF, MCE, 0.2 µm, 30 mm, PP housing
250413	SF, MCE, 0.45 µm, 13 mm, PP housing
250425	SF, MCE, 0.45 µm, 25 mm, PP housing
240231	SF, MCE, 0.2 µm, 30 mm, PP housing, sterile

Nylon (PA)

Article	Description
210213	SF, Nylon, 0.2 µm, 13 mm, PP housing
210225	SF, Nylon, 0.2 µm, 25 mm, PP housing
210413	SF, Nylon, 0.45 µm, 13 mm, PP housing
210425	SF, Nylon, 0.45 µm, 25 mm, PP housing
210426	SF, Nylon, 0.45 µm, 25 mm, PP housing, GF prefilter
210434	SF, Nylon, 0.45 µm, 34 mm, PP housing

Regenerated Cellulose (RC)

Article	Description
270213	SF, RC, 0.2 µm, 13 mm, PP housing
270225	SF, RC, 0.2 µm, 25 mm, PP housing
270413	SF, RC, 0.45 µm, 13 mm, PP housing
270425	SF, RC, 0.45 µm, 25 mm, PP housing

Polyethersulfone (PES)

Article	Description
290225	SF, PES, 0.22 µm, 25 mm, PP housing
290230	SF, PES, 0.22 µm, 30 mm, PP housing
290233	SF, PES, 0.22 µm, 33 mm, PP housing
210200	SF, PES, 0.45 µm, 13 mm, PP housing
290425	SF, PES, 0.45 µm, 25 mm, PP housing
290430	SF, PES, 0.45 µm, 30 mm, PP housing
290433	SF, PES, 0.45 µm, 33 mm, PP housing
210203	SF, PES, 0,45 µm, 34 mm, PP housing
210205	SF, PES, 0.45 µm, 34 mm, PP housing, pre-filter PP

Polyvinylidene Fluoride (PVDF)

Article	Description
220213	SF, PVDF, 0.2 µm, 13 mm, PP housing
220225	SF, PVDF, 0.2 µm, 25 mm, PP housing
220413	SF, PVDF, 0.45 µm, 13 mm, PP housing
220425	SF, PVDF, 0.45 µm, 25 mm, PP housing
220434	SF, PVDF (hydrophilic), 0.45 µm, 33 mm, PP housing

Polytetrafluoroethylene (PTFE)

Article	Description
230213	SF, PTFE, 0.2 µm, 13 mm, PP housing
230225	SF, PTFE, 0.2 µm, 25 mm, PP housing
230226	SF, PTFE, 0.2 µm, 25 mm, PP housing, GF prefilter
230413	SF, PTFE, 0.45 µm, 13 mm, PP housing
230425	SF, PTFE, 0.45 µm, 25 mm, PP housing
230227	SF, PTFE, 0.2 µm, 25 mm, PP housing, sterile/1
230250	SF, PTFE, 0.2 µm, 50 mm, PP housing, sterile/1
230450	SF, PTFE, 0.45 µm, 50 mm, PP housing, sterile/1

Glass Fiber (GF)

Article	Description
280425	SF, GF, 0.45 um, 25 mm, PP housing
211025	SF, GF, 1.0 um, 25 mm, PP housing

Syringe filter

How to select your syringe filter

Step 1. Membrane selection

It's important to use the correct filter for your sample as different membrane types will give different results. Most important it is necessary to ensure that the filter does not interface or bind with the sample and that the solvent used does not affect the integrity of the membrane.

	PES	CA	RC	NY	PTFE
PH-range	3-12	4-8	3-12	3-14	1-14
Aqueous solutions	X	X	X	X	X
General aqueous	X		X	X	X
Tissue culture	X	X			X
Protein applications	X	X			X
Large molecules (aqueous solution)	X	X			X
Small molecules (aqueous solution)	X		X	X	X
Solvent mixtures	X		X	X	X
Hydrophilic aqueous solvent	X		X	X	X
Hydrophilic solvent mixtures			X	X	X
Hydrophobic solvents					X
Gases					X
Acids					X
Bases					X

Step 2. Filter size

Sample volume	Recommended filter diameter
2-10 ml	13 mm
10 - 100 ml	25 - 34 mm

This may vary depending on how many particulates are in the sample. For high particle-load samples it's recommend to use a filter with a pre-filter.

Step 3. Pore size of the filter membrane

0.45 µm for general purpose -> HPLC columns packed with particles >2 µm.

0.2 µm recommended for -> UHPLC, core shell and HPLC columns packed with particles <2 µm.

Applications

Type of filtration	Recommended	Alternatives
HPLC, UHPLC, LC/MS, GC	RC	PTFE or Nylon
ICP-MS	PTFE	Pre-filter / PTFE (high particle samples)
CE	RC	
Undiluted organic solvents	PTFE	
Protein analysis, samples with biomolecules buffers	PES	
Tissue culture media	PES	
High particle-load samples (organic solvents)	Pre-filter / PTFE	
High particle-load samples (aqueous solutions)	Pre-filter / Nylon	

Note: Technical support is always available to help you with your filter selection. If the syringe filter you need is not listed, please feel free to contact us.