

Reliable and cost-effective solution for the removal of particles and clarification needs



GILSON SupaTop™ SYRINGE FILTERS

CLARIFY YOUR SAMPLES FOR ANALYSIS

For sample volumes up to 100 mL, Gilson SupaTop™ Syringe Filters provide a quick, convenient, and reliable method of clarifying liquids intended for further analysis such as the clarification of samples prior to HPLC injection to combat particulate clogging of columns.

- **Avoid filter blowout and lost samples** due to high burst strength and durable construction
- **Maintain precious sample integrity** with pigment-free, sealant-free housing
- **Minimize interference under the most sensitive analytical conditions**, with limited release of UV-absorbing materials
- **Save time and avoid costly errors** by selecting the correctly color-coded syringe filter, every time
- **Select a filter matched to your needs**, whatever your application



SELECT THE BEST MEMBRANE

Ensure that the filter does not interfere with the sample or bind proteins or other macromolecules.

Interference Chart					
Interference	MCE	Nylon	PTFE	PES	PVDF
Wetting Agents	Yes	No	N/A	No	Yes
Protein Binding	Low	Low to Moderate	N/A	Very Low	Very Low
DNA Binding	Moderate to High	Orange	N/A	Very Low	Low
Chemical Resistance	Low	Moderate to High	Very High	Low	Moderate to High

SELECT THE PORE SIZE

Pore size of 0.45 μm is recommend for filtration of viscous solutions or solutions containing high levels of particles. It can also be used for samples prior to injection on an HPLC column packed with $> 2 \mu\text{m}$ particles.

Pore size of 0.22 μm is used for aqueous or mixed organic solutions prior to particulate-sensitive methods, for example the injection on a (U)HPLC or core shell column packed with particles $< 2 \mu\text{m}$.

SELECT THE FILTER SIZE

If the volume to filtrate is $< 10 \text{ mL}$ use 13 mm diameter filters.

For higher volumes up to 100 mL, select the 25 mm diameter filters.

Membrane	Properties	Color Code	Pore Size	13 mm Diameter		25 mm Diameter	
				Part No.	Qty.	Part No.	Qty.
PES	Polyethersulfone (PES) is widely used for the clarification of biological samples. This low binding membrane is able to resist surfactants and hydrocarbon oils but is not suitable for use with low-polar organic solvents or aromatic hydrocarbons.		0.2 µm	ANR1322	Pack of 100	ANR2522	Pack of 100
				ANR1322D	Pack of 1000	ANR2522C	Pack of 500
			0.45 µm	ANR1345	Pack of 100	ANR2545	Pack of 100
				ANR1345D	Pack of 1000	ANR2545C	Pack of 500
MCE	Mixed Cellulose Esters (MCE) contain a blend of cellulose acetate and nitrocellulose fibres providing a more resilient membrane than CA for aqueous-based filtration. Higher binding than pure CA.		0.2 µm	ANM1322	Pack of 100	ANM2522	Pack of 100
				ANM1322D	Pack of 1000	ANM2522C	Pack of 500
			0.45 µm	ANM1345	Pack of 100	ANM2545	Pack of 100
				ANM1345D	Pack of 1000	ANM2545C	Pack of 500
NYLON	Polyamide (Nylon) is a popular membrane with superior chemical compatibility than CA or MCE. Able to filter aqueous or mild organic solvents, this membrane is naturally hydrophilic with low extractables.		0.2 µm	ANN1322	Pack of 100	ANN2522	Pack of 100
				ANN1322D	Pack of 1000	ANN2522C	Pack of 500
			0.45 µm	ANN1345	Pack of 100	ANN2545	Pack of 100
				ANN1345D	Pack of 1000	ANN2545C	Pack of 500
PVDF	Polyvinylidene Fluoride (PVDF) exhibits great chemical resilience being non-reactive to many solvents, acids and bases. Appreciated for its low protein binding properties this membrane is used in biological sciences and its wide chemical compatibility range makes it ideal for HPLC sample preparation ahead of injection.		0.2 µm	ANV1322	Pack of 100	ANV2522	Pack of 100
				ANV1322D	Pack of 1000	ANV2522C	Pack of 500
			0.45 µm	ANV1345	Pack of 100	ANV2545	Pack of 100
				ANV1345D	Pack of 1000	ANV2545C	Pack of 500
PTFE	Polytetrafluoroethylene (PTFE) has the highest chemical compatibility rating of these filters. Being naturally hydrophobic this membrane is most suited to the clarification of organic solvents and for air venting processes. Not suitable for aqueous sample filtration without pre-wetting.		0.2 µm	ANP1322	Pack of 100	ANP2522	Pack of 100
				ANP1322D	Pack of 1000	ANP2522C	Pack of 500
			0.45 µm	ANP1345	Pack of 100	ANP2545	Pack of 100
				ANP1345D	Pack of 1000	ANP2545C	Pack of 500