GE Healthcare

Filtration Devices

Whatman™ GD/X syringe filters with regenerated cellulose (RC) membrane

Easy filtration of hard-to-filter samples

MEMBRANE RC AVAILABLE

When you need to filter a high particulate solution, and this solution is based on solvents such as acetonitrile, THF, and methanol, choose the Whatman GD/X Syringe Filter with a Regenerated Cellulose membrane. This high-quality disposable syringe filter allows you to filter more of your sample in less time, whether it is an aqueous sample or a sample based on solvents.

Whatman

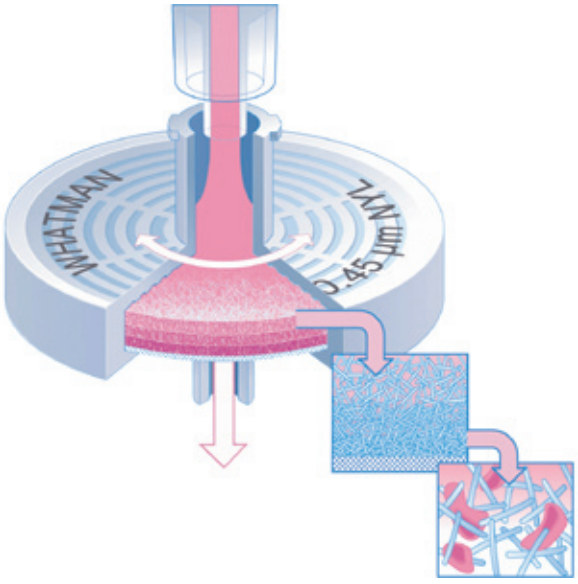
GD/X syringe filters with regenerated cellulose (RC) membrane

Universal syringe filter

The hydrophilic RC membrane offers low protein binding characteristics and good resistance against most solvents (see table).

Simple

- **Less hand force required:** The prefilter layer allows high particulate samples to be filtered with less hand force, minimizing operator fatigue.
- **Increase volume throughput:** Four layers of filtration media reduce blockage and the requirement to replace the filter in the middle of the preparation.
- **Superior performance:** The volume of sample filtered can be three to seven times greater than conventional filters.



Technical Specification

Housing:	Polypropylene (pigment-free)
Filtration area:	4.6 cm^2
Maximum pressure:	5.2 bar (75 psi)
Volume 'hold-up'	
Full housing:	1.4 ml
With air purge:	250 µl (approx)
Dimensions:	20.8 x 29.8 mm
Weight:	3 g (approx)
Flow direction:	Flow should enter from the inlet
Inlet connection:	Female Luer lock connection
Outlet connection:	Male luer
Sterilization:	Autoclave at 121°C (131°C max) at 1 bar (15 psi) for 20 min
Biosafe:	All materials pass USP Class VI
Prefiltration media:	100% borosilicate glass fiber GMF 150 10 µm : 1 µm GF/F 0.7 µm

Applications

- HPLC sample preparation
- Environmental sample preparation
- Clarification

Benefits

- Filters even viscous samples with less hand force than ever before possible
- Doubles the volume of sample filtered compared with other conventional filters
- Extends filter life and reduces costly exchanges
- Increase flow rates

Type of sample

- Hard-to-filter samples
- Aqueous samples
- Organic samples (see resistance table)
- Food samples

Chemical compatibility of membrane

Solvent	GMF	NYL	PES	PP	PTFE	PVDF	RC
Acetic acid 5%	R	R	R	R	R	R	R
Acetic acid, glacial	R	LR	R	R	R	R	NR
Acetone	R	R	NR	R	R	NR	R
Acetonitrile	R	R	R	R	R	R	R
Ammonia, 6 N	LR	R	R	R	R	LR	LR
Amyl acetate	R	R	LR	R	R	LR	R
Amyl alcohol	R	R	NR	R	R	R	R
Benzene*	R	LR	R	LR	R	R	R
Benzyl alcohol*	R	LR	NR	R	R	R	R
Boric acid	R	LR	+	R	R	R	R
Butyl alcohol	R	R	R	R	R	R	R
Butyl chloride*	R	NR	+	NR	+	R	+
Carbon tetrachloride*	R	LR	R	LR	R	R	R
Chloroform*	R	NR	NR	LR	R	R	R
Cyclohexanone	R	NR	NR	R	R	R	R
Chlorobenzene	R	+	NR	+	R	R	R
Citric acid	R	LR	R	+	R	R	R
Cresol	R	NR	NR	R	R	NR	R
Cyclohexane	R	R	R	R	R	R	R
Diethyl acetamide	R	R	+	R	R	NR	R
Dimethyl formamide	R	R	NR	R	R	NR	LR
Dioxane	R	R	LR	R	R	LR	R
DMSO	R	R	NR	R	R	LR	LR
Ethanol	R	R	R	R	R	R	R
Ethers	R	R	R	R	R	LR	R
Ethyl acetate	R	R	NR	R	R	LR	R
Ethylene glycol	R	R	R	R	R	R	R
Formaldehyde	R	R	R	R	R	R	R
Formic acid	R	NR	R	R	R	R	LR
Freon TF	R	R	R	R	R	R	+
Hexane	R	R	R	R	R	R	R
Hydrochloric acid (Conc)	R	NR	R	LR	R	R	NR
Hydrofluoric acid	NR	NR	+	LR	R	R	NR
Isobutyl alcohol	R	R	+	R	R	R	R
Isopropyl alcohol	R	R	+	R	R	R	R
Methanol	R	R	R	R	R	R	R
Methyl ethyl ketone	R	R	NR	R	R	R	R
Methylene chloride*	R	NR	NR	LR	R	R	R
Nitric acid (Conc)	R	NR	NR	NR	R	NR	NR
Nitric acid, 6 N	R	NR	LR	LR	R	LR	LR
Nitrobenzene*	R	LR	NR	R	R	R	R
Pentane	R	R	R	R	R	R	R
Perchloroethylene	R	R	NR	R	R	R	R
Phenol (0.5%)	R	R	NR	R	R	R	R
Pyridine	R	LR	NR	R	R	R	R
Sodium hydroxide, 6N	NR	LR	R	R	R	NR	NR
Sulfuric acid (Conc)	R	NR	NR	NR	R	NR	NR
Tetrahydrofuran	R	R	NR	LR	R	R	R
Toluene*	R	LR	NR	LR	R	R	R
Trichloroethane*	R	LR	NR	R	R	R	R
Trichloroethylene*	R	NR	NR	R	R	R	R
Water	R	R	R	R	R	R	R
Xylene*	R	LR	LR	LR	R	R	R

(R = Resistant; LR = Limited Resistance; NR = Non Resistant; + = Insufficient Data;
* = Short term resistance of housing).

Ordering Information

Product	Quantity	Code No.
GD/X 25, 0.2 µm RC	150	6887-2502
GD/X 25, 0.2 µm RC	1500	6888-2502
GD/X 25, 0.45 µm RC	150	6882-2504
GD/X 25, 0.45 µm RC	1500	6883-2504

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imagination at work

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