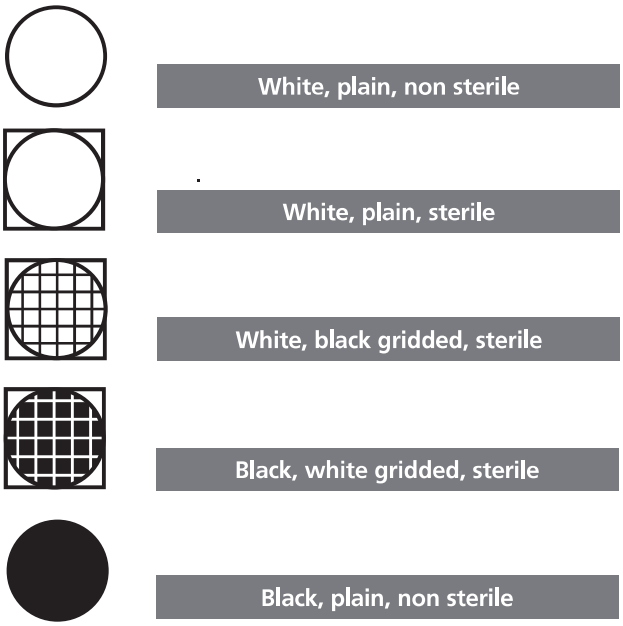
MEMBRANES FILTERS



CA – Cellulose acetate

● The CA membranes are produced with pure cellulose acetate which is modified, and have a high filtration efficiency. Naturally hydrophilic, they present a good thermic stability and a weak fixation of proteins. They are suitable for biological, aqueous samples and for filtration of proteins or enzymes.

◤ Other diameters upon request (ø 37 mm, 142 mm, 293 mm).

Pore size (µm) [for ø 47 mm]	0.22 µm	0.45 µm	0.65 µm	0.80 µm	1.20 µm	5.00 µm
Water flow (mL/mn/cm²@10psi)	9-31	33-46	45-55	85-102	110-125	280-320
Bubble point (psi)	47-71	32-36	25-32	19-22	16-19	8-10

	Quantity	0.22 µm	0.45 µm	0.65 µm	0.80 µm	1.2 µm	5.0 µm
Ø 25 mm	100	MF025CA022	MF025CA045	MF025CA065	MF025CA080	MF025CA120	MF025CA500
Ø 47 mm	100	MF047CA022	MF047CA045	MF047CA065	MF047CA080	MF047CA120	MF047CA500
Ø 50 mm	100	MF050CA022	MF050CA045	MF050CA065	MF050CA080	MF050CA120	MF050CA500
Ø 90 mm	100	MF090CA022	MF090CA045	MF090CA065	MF090CA080	MF090CA120	MF090CA500

	0.22 µm	0.45 µm
Ø 47 mm	MF047CA022S	MF047CA045S

MCE – Mixed cellulose esters

● The MCE membranes are made with cellulose acetate and cellulose nitrate fibres, they are naturally hydrophilic, mechanically stable and have a high loading capacity. They are suitable for microbiological analysis, for colonies counting or for pre-filtration and clarification of samples.

- Other diameters upon request (ø 37 mm, 142 mm, 293 mm).

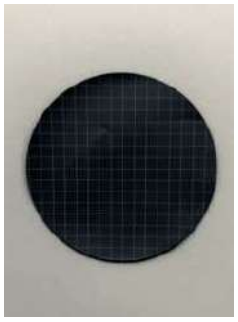
Pore size (µm) [for ø 47 mm]	0.22 µm	0.45 µm	0.65 µm	0.80 µm	1.20 µm	3.0 µm	5.0 µm	8.0 µm
Water flow (mL/mn/cm²@10psi)	12-18	38-71	45-58	87-135	85-121	210-320	280-350	300-360
Bubble point (psi)	52-65	29-40	28-33	16-19	12-14	8-11	7-10	7-8

	Quantity	0.22 µm	0.45 µm	0.65 µm	0.80 µm	1.2 µm	3.0 µm	5.0 µm	8.0 µm
Ø 13 mm	200	MF013ME022	MF013ME045	MF013ME065	MF013ME080	MF013ME120	MF013ME300	MF013ME500	MF013ME800
Ø 25 mm	100	MF025ME022	MF025ME045	MF025ME065	MF025ME080	MF025ME120	MF025ME300	MF025ME500	MF025ME800
Ø 47 mm	100	MF047ME022	MF047ME045	MF047ME065	MF047ME080	MF047ME120	MF047ME300	MF047ME500	MF047ME800
Ø 50 mm	100	MF050ME022	MF050ME045	MF050ME065	MF050ME080	MF050ME120	MF050ME300	MF050ME500	MF050ME800
Ø 90 mm	100	MF090ME022	MF090ME045	MF090ME065	MF090ME080	MF090ME120	MF090ME300	MF090ME500	MF090ME800

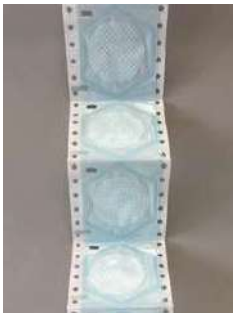
	Quantity	0.45 µm	0.80 µm
Ø 47 mm	100	MF047ME045S	MF047ME080S

	Quantity	0.45 µm	0.80 µm
Ø 47 mm	100	MF047ME045B	MF047ME080B

	Quantity	0.22 µm	0.45 µm	0.80 µm
Ø 47 mm	100	MF047ME022GS	MF047ME045GS	MF047ME080GS



	Quantity	0.45 µm	0.80 µm	8.0 µm
Ø 47 mm	100	MF047ME045BGS	MF047ME080BGS	MF047ME800BGS



MCE – Continuous membranes

● To fully complete the range of MCE membrane filters, filtraTECH also offer sterile gridded continuous membranes.

◤ Available in box of 150 units.

	Quantity	0.22 µm	0.45 µm	0.80 µm
Ø 47 mm	150	MF047ME022GS/R	MF047ME045GS/R	MF047ME080GS/R

	Quantity	0.45 µm
Ø 47 mm	150	MF047ME045BGS/R

Membrane dispenser

● To easily open the plastic wrapping and delicately extract the membrane from its shell without contamination, you can buy a stainless steel membrane dispenser. Robust, practical and easy to use, this mechanical dispenser will be a great help for all your manipulations to preserve the sterility and quality of the membranes.

◤ filtraTECH's reference: MFDISTRI.

Height: 240 mm. Width: 140 mm. Depth: 225 mm.

Weight empty: 4,7 kg. Other: moulded carrying handle.

NYL – Polyamide

● Naturally hydrophilic, nylon membranes are used for aqueous samples, alkaline or organic filtration of HPLC samples for their chemical resistance to alkaline solutions and solvents.

◤ Other diameters upon request (ø 37 mm, 142 mm, 293 mm).

Pore size (µm) [for ø 47 mm]	0.22 µm	0.45 µm	0.80 µm	1.0 µm	3.0 µm	5.0 µm
Water flow (mL/mn/cm²@10psi)	4-6	9-10	45-55	55-65	80-90	135-150
Bubble point (psi)	46-56	30-32	10-15	15-18	8-9	5-6

	Quantity	0.22 µm	0.45 µm	0.80 µm	1.0 µm	3.0 µm	5.0 µm
Ø 13 mm	200	MF013NY022	MF013NY045	MF013NY080	MF013NY100	MF013NY300	MF013NY500
Ø 25 mm	100	MF025NY022	MF025NY045	MF025NY080	MF025NY100	MF025NY300	MF025NY500
Ø 47 mm	100	MF047NY022	MF047NY045	MF047NY080	MF047NY100	MF047NY300	MF047NY500
Ø 90 mm	100	MF090NY022	MF090NY045	MF090NY080	MF090NY100	MF090NY300	MF090NY500

PC – Polycarbonate

● Hydrophilic and chemically resistant to organic solvents, the PC membranes are more efficient in term of flow rate due to their asymmetrical structure. They present a good chemical and thermic stability and are adapted to the electronic microscope analysis.

◤ Other dimensions and pore size upon request.

Pore size (µm) [for ø 47 mm]	0.22 µm	0.45 µm
Water flow (mL/mn/cm²@10psi)	10	33

○	Quantity	0.22 µm	0.45 µm
Ø 25 mm	100	MF025PC022	MF025PC045
Ø 47 mm	100	MF047PC022	MF047PC045

PES – Polyethersulfone

● The highly asymmetrical pore structure of our PES membranes offers an excellent loading capacity and high flow rate. Naturally hydrophilic, they are made with polyethersulfone polymer and are designed to remove particles during general filtration and their low protein and drug binding characteristics make them ideally suited for life science applications.

◤ Other dimensions and pore size upon request.

Pore size (µm) [for ø 47 mm]	0.22 µm	0.45 µm
Water flow (mL/mn/cm²@10psi)	11-16	30-48
Bubble point (psi)	51-65	35-53

○	Quantity	0.22 µm	0.45 µm
Ø 25 mm	100	MF025PE022	MF025PE045
Ø 47 mm	100	MF047PE022	MF047PE045

PP – Polypropylene

● Hydrophobic, polypropylene membranes show an excellent chemical compatibility with most organic solvents but can only resist temperatures below 50°C. They are specifically recommended for ionic chromatography.

◤ Other dimensions and pore size upon request.

Pore size (µm) [for ø 47 mm]	0.22 µm	0.45 µm
Water flow (mL/mn/cm²@10psi)	250-300	300-450

○	Quantity	0.22 µm	0.45 µm
Ø 25 mm	100	MF025PP022	MF025PP045
Ø 47 mm	100	MF047PP022	MF047PP045
Ø 90 mm	100	MF090PP022	MF090PP045

PTFE – Polytetra-Fluorethylene

● Naturally hydrophobic, the PTFE membranes are made with polytetra-fluroethylene laminated with a PP layer. They can be used in air and gas filtration or for chemically aggressive or acid for samples. For the filtration of aqueous solutions, you should wet them first with isopropanol.

Pore size (µm) [for ø 47 mm]	0.22 µm	0.45 µm	1.0 µm	5.0 µm
Water flow (mL/mn/cm²@10psi)	8-14	15-29	75-90	447-625
Bubble point (psi)	16-25	14-19	8-9	—

○	Quantity	0.22 µm	0.45 µm	1.0 µm	5.0 µm
Ø 13 mm	200	MF013PT022	MF013PT045	MF013PT100	MF013PT500
Ø 25 mm	100	MF025PT022	MF025PT045	MF025PT100	MF025PT500
Ø 47 mm	100	MF047PT022	MF047PT045	MF047PT100	MF047PT500
Ø 90 mm	100	MF090PT022	MF090PT045	MF090PT100	MF090PT500

RC – Regenerated cellulose

● RC membrane filters are hydrophilic and show a high chemical resistance to all solvents. They are very convenient for solvent filtration.

Pore size (µm) [for ø 47 mm]	0.22 µm	0.45 µm
Water flow (mL/mn/cm²@10psi)	9-11	30-48
Bubble point (psi)	19-22	10-15

○	Quantity	0.22 µm	0.45 µm
Ø 25 mm	100	MF025RC022	MF025RC045
Ø 47 mm	100	MF047RC022	MF047RC045