

# Syringe Filters

Mandel Syringe Filters (manufactured by Whatman) come in a variety of filter media choices, including:

- nylon
- polytetrafluoroethylene
- polyvinylidene fluoride
- cellulose acetate
- glass microfibre
- polyethersulfone
- polypropylene
- polysulfone



## Ordering Information

Description	Cat. No.	Price
Syringe Filters, Nylon, 13mm x 0.20µm, 500/pkg.	W-MAN-13N20/500	\$443.00
Syringe Filters, Nylon, 13mm x 0.45µm, 500/pkg.	W-MAN-13N45/500	443.00
Syringe Filters, Nylon, 25mm x 0.20µm, 500/pkg.	W-MAN-25N20/500	526.00
Syringe Filters, Nylon, 25mm x 0.45µm, 500/pkg.	W-MAN-25N45/500	526.00
Syringe Filters, PTFE, 13mm x 0.20µm, 500/pkg.	W-MAN-13T20/500	443.00
Syringe Filters, PTFE, 13mm x 0.45µm, 500/pkg.	W-MAN-13T45/500	443.00
Syringe Filters, PTFE, 25mm x 0.20µm, 500/pkg.	W-MAN-25T20/500	526.00
Syringe Filters, PTFE, 25mm x 0.45µm, 500/pkg.	W-MAN-25T45/500	526.00
Syringe Filters, PVDF, 13mm x 0.20µm, 500/pkg.	W-MAN-13P20/500	443.00
Syringe Filters, PVDF, 13mm x 0.45µm, 500/pkg.	W-MAN-13P45/500	443.00
Syringe Filters, PVDF, 25mm x 0.20µm, 500/pkg.	W-MAN-25P20/500	526.00
Syringe Filters, PVDF, 25mm x 0.45µm, 500/pkg.	W-MAN-25P45/500	526.00

Other syringe sizes and membranes available. Please contact technical support at 1-888-883-3636 for more information. See reverse for useful information about laboratory filtration.

**TO ORDER CALL TOLL FREE: 1-888-883-3636**

Prices do not include applicable taxes and are subject to change without notice.

FL168-12022010-TH

# Microfiltration

## Nylon (NYL)

The nylon membrane is hydrophilic and is a good choice for aqueous and/or organic samples. It offers good chemical resistance to most common HPLC solvents; however, the membrane has limited resistance to acids, bases, halogenated hydrocarbons, aldehydes and strong oxidizing agents. The most common application is HPLC sample filtration.

## Polytetrafluoroethylene (PTFE)

The polytetrafluoroethylene membrane is hydrophobic and will not allow water to pass without high pressures. Aqueous solutions may be filtered if the membrane is initially "wetted" with alcohol or another appropriate solvent. The PTFE membrane will stop aqueous aerosols in gas streams.

## Polyvinylidene fluoride (PVDF)

The polyvinylidene fluoride membrane is suitable for aqueous/organic solvents. It is a low non-specific protein binding media.

## Efficiency

To maximise filtration throughput, use the largest pore size filter that will provide the required cleanliness. To extend filter life, use low flow rates or pressures.

## To Use With a Syringe

1. Fill the syringe with the solution to be filtered.
2. Secure the filled syringe to the inlet of the syringe filter with a twisting motion.
3. With the outlet pointed upward, gradually apply thumb pressure to the syringe plunger to initiate flow.
4. Continue thumb pressure until all the air in the device is displaced with liquid.
5. Once liquid starts to exit syringe filter outlet, stop applying pressure, point the device downward and away from user.
6. Position syringe filter over suitable collection container or other apparatus and apply pressure again to filter sample. Change filters when flow becomes too slow or resistance becomes excessive.

## Air Locks

They seriously hamper flow rates. To eliminate, point the outlet of the filter device upward during the initiation of liquid flow.



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