

# Anotop Syringe Filters

Anotop Syringe Filters are a universal solution for numerous filtration applications. Anotop filters can be used with most organic and aqueous solutions, and they are suitable for sample volumes up to 100 ml. The distinctive hexagonal housing is manufactured from pigment-free polypropylene to eliminate sample contamination. No wetting agents or adhesives are used in the manufacturing process.

Anotop syringe filters contain the alumina-based Anopore™ membrane and are supplied in three pore sizes. Glass microfiber prefilter versions are available for difficult-to-filter samples.



Anotop Syringe Filters

## Anotop 10 and Anotop 25

### Features

- 10 and 25 mm diameter syringe filters
- Inorganic membrane
- Capillary pore structure

### Benefits

- Low protein binding
- Sterile formats are available for critical applications
- Low hold-up volume < 20 µl ensures maximum sample recovery (Anotop 10)
- Filters samples up to 100 ml (Anotop 25)

### Applications

- Cold sterilization of growth media
- Phage and virus filtration
- Removal of high molecular weight proteins or polymers
- Liposome extrusion
- Filtration of solvents for spectro analysis and analytical sample preparation

## Anotop 10 Plus and Anotop 25 Plus

The Anotop 10 Plus Syringe Filter offers the added benefit of an integral glass microfiber prefilter. This unit is designed to enable difficult and hard-to-filter solutions to be filtered without adversely affecting the filtration efficiency of the final membrane. This can eliminate the need for sample clean-up or expensive and time-consuming sequential filtration.

### Applications

- Filtration of heavily particulate-loaded samples prior to HPLC
- Removal of solids prior to UV/Vis analysis
- Filtration of tissue culture media
- Clean-up of difficult samples
- Filtration of colloidal material
- Removal of mycoplasma
- HPLC sample preparation
- Biological sample preparation

## Anotop IC

Whatman Anotop IC Syringe Filters are specifically designed for the preparation of samples for subsequent ion chromatography and HPLC analysis. These filters deliver very low levels of anion leaching for ion chromatography (IC) testing.

### Features

- 10 and 25 mm diameter syringe filters
- Each batch certified for IC

### Benefits

- Enhanced consistency of analytical results
- Extended column life
- Certified and guaranteed low levels of anion leaching for improved results

### Applications

- Ion chromatography sample preparation
- HPLC sample preparation

*Please turn to page 22 for ordering information*

## Typical data

### Anotop Syringe Filters

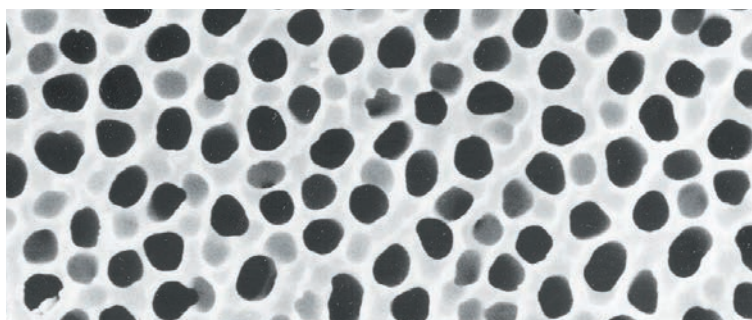
	Anotop 10	Anotop 10 Plus	Anotop 25	Anotop 25 Plus
Housing	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Filtration area	0.78 cm <sup>2</sup>	0.78 cm <sup>2</sup>	4.78 cm <sup>2</sup>	4.78 cm <sup>2</sup>
Maximum pressure	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)	100 psi (6.9 bar)
Volume "hold-up"	< 20 µl	< 30 µl	< 150 µl	< 200 µl
Prefilter type	N/A	Glass microfiber (binderless)	N/A	Glass microfiber (binderless)
Membrane diameter	10 mm	10 mm	25 mm	25 mm
Membrane type	Anopore	Anopore	Anopore	Anopore
Average membrane thickness	60 µm	60 µm	60 µm	60 µm
Filter width	15.4 mm	15.4 mm	36.8 mm	36.8 mm
Filter length	18.5 mm	18.5 mm	26.3 mm	26.3 mm
Filter shape	Hexagonal	Hexagonal	Hexagonal	Hexagonal
Construction process	Thermal weld	Thermal weld	Thermal weld	Thermal weld
Inlet connection	Female Luer lock	Female Luer lock	Female Luer lock	Female Luer lock
Outlet connection	Male Luer	Male Luer	Male Luer	Male Luer
Protein adsorption	Low	Medium/high	Low	Medium/high
Extractable materials	Low	Low	Low	Low

### Anotop IC Syringe Filters

	Anotop 10 IC	Anotop 25 IC
Housing	Polypropylene	Polypropylene
Filtration area	0.78 cm <sup>2</sup>	4.78 cm <sup>2</sup>
Maximum pressure	100 psi (6.9 bar)	100 psi (6.9 bar)
Volume "hold-up" with air purge	< 20 µl	< 150 µl
Membrane diameter	10 mm	25 mm
Construction process	Thermal weld	Thermal weld
Extractable materials	Negligible	Negligible
Average membrane thickness	60 µm	60 µm
Width	15.4 mm	36.8 mm
Length	18.5 mm	26.3 mm
Inlet connection	Female Luer lock	Female Luer lock
Outlet connection	Male Luer	Male Luer
Membrane type	Anopore	Anopore

### Anion Level (ppb)

Fluoride	< 10
Chloride	< 15
Bromide	< 20
Sulfate	< 30
Phosphate	< 75
Nitrite	< 30
Nitrate	< 30
Typical average anion leaching levels in 18 M Ω/cm (Meg Ohm/cm) water at 20°C.	



SEM of Anopore membrane showing cylindrical pore structure.