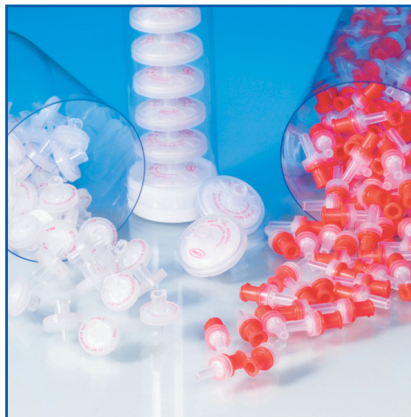


# Acrodisc® Syringe Filters With PTFE Membrane

Exceptional chemical and temperature compatibility



- ▶ Acrodisc PSF syringe filters are Zymark\* and SOTAX\* Automation Certified to assure smooth operation and worry-free performance 24 hours a day in automated workstations.
- ▶ Ideal for filtration of gas and/or organic solvents.
- ▶ Prevents spurious peaks on chromatograms for accurate experimental results. HPLC certified for low levels of UV-absorbing extractables.
- ▶ Prevents "air bubble" lock when filling sample vials with 13 mm minispike outlet.
- ▶ 4 mm device offers the lowest sample hold-up (< 10 µL) and is useful for samples up to 2 mL in volume.

## Applications

- ▶ Ultimate in chemical compatibility for filtering harsh chemicals that destroy other membrane materials.
- ▶ The Acrodisc PSF GxF syringe filter provides two to four times the throughput of standard prefilter devices.
- ▶ Moisture barrier for venting applications.
- ▶ 25 mm Acrodisc PSF syringe filter is available in robotic-compatible AutoPack™ packaging for SOTAX AT-70 SMART\* and CTS and Zymark TPW\*, APW\*, and MultiDose\* dissolution systems.

## Specifications

### Materials of Construction

Filter Media: Hydrophobic PTFE membrane on a polypropylene support

Housing: Polypropylene

GxF Prefilter: Borosilicate glass

### Pore Size

PTFE Membrane: 0.2 and 0.45 µm

GxF Prefilter: 40 - 1 µm

### Effective Filtration Area

4 mm: 0.2 cm<sup>2</sup>

13 mm: 1.0 cm<sup>2</sup>

25 mm PSF: 3.9 cm<sup>2</sup>

### Sample Volume

4 mm: < 2 mL

13 mm: < 10 mL

25 mm PSF: < 150 mL

### Inlet/Outlet Connections

4, 13, and 25 mm PSF: Female luer

lock inlet, male slip luer outlet

13 mm: Available with minispike outlet

### Typical Hold-Up Volume

(with air purge)

4 mm: < 10 µL

13 mm (minispike): < 14 µL

13 mm (male luer): < 30 µL

25 mm PSF: < 125 µL

### Typical Liquid Flow Rate (MeOH)

mL/min at 1.0 bar (100 kPa, 15 psi)

25 mm PSF, 0.2 µm: 245

25 mm PSF, 0.45 µm: 510

25 mm PSF, GxF/0.2 µm: NA

25 mm PSF, GxF/0.45 µm: 395

### Maximum Operating Temperature

100 °C (212 °F) at 2.1 bar (210 kPa, 30 psi)

### Maximum Operating Pressure

4 mm: 5.2 bar (520 kPa, 75 psi)

13 mm: 6.9 bar (690 kPa, 100 psi)

25 mm PSF: 4.1 bar (410 kPa, 60 psi)

at 21 - 24 °C (70 - 75 °F);

2.1 bar (210 kPa, 30 psi) at 100 °C (212 °F)

### Sterilization of 25 mm Filters

Provided non-sterile. If desired, autoclave at 121- 123 °C (250 - 253 °F) at 1.0 bar (100 kPa, 15 psi) for a maximum of 15 min.

## Ordering Information

### Acrodisc® Syringe Filter With PTFE Membrane, 4 mm

Part Number	Description	Pkg
4472	0.45 µm	250/pkg, 750/cs

### Acrodisc Syringe Filters With PTFE Membrane, 13 mm

Part Number	Description	Pkg
4552	0.2 µm, minispike outlet	100/pkg, 300/cs
4553	0.45 µm, minispike outlet	100/pkg, 300/cs
4555	0.45 µm, minispike outlet	1000/pkg

### Acrodisc Syringe Filters With PTFE Membrane, 13 mm

Part Number	Description	Pkg
4423	0.2 µm, male slip luer outlet	100/pkg, 300/cs
4542	0.2 µm, male slip luer outlet	1000/pkg
4422	0.45 µm, male slip luer outlet	100/pkg, 300/cs
4543	0.45 µm, male slip luer outlet	1000/pkg

### Acrodisc Syringe Filters With PTFE Membrane, 25 mm

Part Number	Description	Pkg
4225	0.2 µm	50/pkg, 200/cs
4521	0.2 µm	1000/pkg
4518	0.45 µm, AutoPack™ tubes	25/pkg, 200/cs
4219	0.45 µm	50/pkg, 200/cs
4501	0.45 µm	1000/pkg
4226	1 µm	50/pkg, 200/cs
4503	1 µm	1000/pkg

### Related Products

47 mm Filter Funnels, Glass . . . . .	206
AcroPrep™ 24 Filtration System . . . . .	201
HPLC Mobile Phase Filtration Membranes . . . . .	177
SolVac® Filter Holder . . . . .	182
Stainless Steel Forceps . . . . .	230, 280
Vacuum/Pressure Pumps . . . . .	279

### Zymark® and SOTAX® Automation Certified Acrodisc PSF Syringe Filters With PTFE Membrane, 25 mm

Part Number	Description	Pkg
AP-4520	0.2 µm, AutoPack tubes	25/pkg, 200/cs
AP-4225	0.2 µm	50/pkg, 200/cs
AP-4521	0.2 µm	1000/pkg
AP-4518	0.45 µm, AutoPack tubes	25/pkg, 200/cs
AP-4219	0.45 µm	50/pkg, 200/cs
AP-4501	0.45 µm	1000/pkg

### Zymark and SOTAX Automation Certified Acrodisc PSF GxF Syringe Filters With PTFE Membrane, 25 mm

Part Number	Description	Pkg
AP-4789	GxF/0.2 µm, AutoPack tubes	25/pkg, 200/cs
AP-4790	GxF/0.2 µm	50/pkg, 200/cs
AP-4791	GxF/0.2 µm	1000/pkg
AP-4301	GxF/0.45 µm, AutoPack tubes	25/pkg, 200/cs
AP-4303	GxF/0.45 µm	50/pkg, 200/cs
AP-4302	GxF/0.45 µm	1000/pkg