

Acrodisc® Syringe Filters With Nylon Membrane

Versatile filters for both aqueous and solvent-based sample filtration



Specifications

Materials of Construction

Filter Media: Nylon
Housing: Polypropylene
GxF Prefilter: Borosilicate glass

Pore Size

Nylon Membrane: 0.2 and 0.45 μm
GxF Prefilter: 40 - 1 μm

Effective Filtration Area

4 mm: 0.2 cm^2
13 mm: 1.0 cm^2
25 mm PSF: 3.9 cm^2

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 minispikes outlet

Typical Hold-Up Volume

(with air purge)
4 mm: < 10 μL
13 mm (minispikes): < 14 μL
13 mm (male luer): < 30 μL
25 mm PSF: < 125 μL
25 mm PSF GxF: < 150 μL

Maximum Operating Temperature

55 $^{\circ}\text{C}$ (131 $^{\circ}\text{F}$) 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 $^{\circ}\text{C}$ (70 - 75 $^{\circ}\text{F}$);
2.1 bar (210 kPa, 30 psi) at 55 $^{\circ}\text{C}$ (131 $^{\circ}\text{F}$)

Typical Water Flow Rate

mL/min at 2.1 bar (210 kPa, 30 psi)
13 mm, 0.2 μm : 10
13 mm, 0.45 μm : 15
25 mm PSF, 0.2 μm : 115
0.45 μm : 245
25 mm PSF GxF/0.45 μm : 215

- ▶ 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.
- ▶ Excellent chemical compatibility with esters, bases, and alcohols.
- ▶ Saves time because no prewetting is required.
- ▶ Easy filtration of particulate-laden samples with the glass fiber prefilter version.
- ▶ 13 mm device with minispikes configuration offers low hold-up and easy filtration into autosampler vials.
- ▶ Prevents spurious peaks on chromatograms for accurate experimental results. HPLC certified for low levels of UV-absorbing extractables.

Applications

- ▶ The Acrodisc PSF GxF syringe filter provides two to four times the throughput of standard prefilter devices.
- ▶ Not recommended for acids > 1 N or halogenated solvents.
- ▶ 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.

Ordering Information

Acrodisc Syringe Filters With Nylon Membrane, 13 mm

Part Number	Description	Pkg
4550	0.2 µm, minispike outlet	100/pkg, 300/cs
4561	0.2 µm, minispike outlet	1000/pkg
4551	0.45 µm, minispike outlet	100/pkg, 300/cs
4546	0.45 µm, minispike outlet	1000/pkg

Acrodisc Syringe Filters With Nylon Membrane, 13 mm

Part Number	Description	Pkg
4427	0.2 µm, male slip luer outlet	100/pkg, 300/cs
4540	0.2 µm, male slip luer outlet	1000/pkg
4426	0.45 µm, male slip luer outlet	100/pkg, 300/cs
4541	0.45 µm, male slip luer outlet	1000/pkg

Acrodisc Syringe Filters With Nylon Membrane, 25 mm

Part Number	Description	Pkg
4436	0.2 µm	50/pkg, 200/cs
4522	0.2 µm	1000/pkg
4517	0.45 µm, AutoPack™ tubes	25/pkg, 200/cs
4438	0.45 µm	50/pkg, 200/cs
4502	0.45 µm	1000/pkg

Acrodisc GF Syringe Filters With Nylon Membrane, 25 mm

Part Number	Description	Pkg
4548	GF/0.45 µm, AutoPack tubes	25/pkg, 200/cs
4549	GF/0.45 µm	50/pkg, 200/cs
4528	GF/0.45 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 Nylon Membrane, 25 mm

Part Number	Description	Pkg
AP-4437	0.2 µm, AutoPack tubes	25/pkg, 200/cs
AP-4436	0.2 µm	50/pkg, 200/cs
AP-4522	0.2 µm	1000/pkg
AP-4517	0.45 µm, AutoPack tubes	25/pkg, 200/cs
AP-4438	0.45 µm	50/pkg, 200/cs
AP-4502	0.45 µm	1000/pkg

Zymark and SOTAX Automation Certified Acrodisc PSF GxS Syringe Filters With Nylon Membrane, 25 mm

Part Number	Description	Pkg
AP-4786	GxS/0.2 µm, AutoPack tubes	25/pkg, 200/cs
AP-4787	GxS/0.2 µm	50/pkg, 200/cs
AP-4788	GxS/0.2 µm	1000/pkg
AP-4548	GxS/0.45 µm, AutoPack tubes	25/pkg, 200/cs
AP-4549	GxS/0.45 µm	50/pkg, 200/cs
AP-4528	GxS/0.45 µm	1000/pkg