



## Ion Chromatography (IC) Acrodisc® Syringe Filters

### Description

#### Optimized to Provide the Most Consistent Results when Analyzing Ionic Species

- ▶ 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.
- ▶ Accurate results for the most sensitive analysis of ionic species. Certified for low levels of extractables detected by conductivity.
- ▶ High flow rates with optimized Supor® polyethersulfone membrane.
- ▶ Conforms to quality release criteria for [ion chromatography \(IC\)](#) extractables.
- ▶ Convenient sizes for small sample volumes.



*\*Registered trademark*

### Application

- ▶ Specifically designed for IC applications.
- ▶ Excellent filter selection for dissolution samples.
- ▶ Low drug and protein binding for pharmaceutical filtration.
- ▶ Supor (IC) membrane discs are recommended for aqueous samples only.
- ▶ 25 mm Acrodisc PSF syringe filter is available in robotic-compatible packaging for Caliper\*, TPW\*, APW\* and Multi-Dose\* systems, and Sotax\* dissolution systems.

### Specifications

#### Materials of Construction

- ▶ Filter Media: Supor [hydrophilic polyethersulfone (PES)] membrane
- ▶ Housing: Polypropylene

#### Pore Size

- ▶ 0.2 and 0.45  $\mu\text{m}$

#### Effective Filtration Area

- ▶ 13 mm: 1.0  $\text{cm}^2$
- ▶ 25 mm PSF: 3.9  $\text{cm}^2$

#### Sample Volume

- ▶ 13 mm: < 10 mL
- ▶ 25 mm PSF: < 150 mL

## Inlet/Outlet Connections

- ▶ Female luer lock inlet, male slip luer outlet

## Typical Hold-Up Volume (with air purge)

- ▶ 13 mm: < 30 µL
- ▶ 25 mm PSF: < 125 µL

## Maximum Operating Temperature

- ▶ 13 mm: 55 °C (131 °F)
- ▶ 25 mm PSF: 100 °C (212 °F) at 2.1 bar (210 kPa, 30 psi)

## Maximum Operating Pressure

- ▶ 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)

## Typical Water Flow Rate

- ▶ mL/min at 1.0 bar (100 kPa, 15 psi)
- ▶ 13 mm, 0.2 µm: 15
- ▶ 13 mm, 0.45 µm: 20
- ▶ mL/min at 2.1 bar (210 kPa, 30 psi)
- ▶ 25 mm, 0.45 µm PSF: 420

## Performance

### Ion Chromatography Certification

Pall Life Sciences certifies that the maximum allowable levels of extractables from the filter are 50 ppb of  $\text{Cl}^-$ ,  $\text{NO}_3^-$ , and  $\text{SO}_4^{2-}$ . Data shows that the actual background levels found are typically less than 20 ppb for chloride, 6 ppb for nitrate, 1 ppb for phosphate, and 10 ppb for sulfate. This is based on 2 mL of  $\text{H}_2\text{O}$  filtrate being concentrated on-line and injected into an ion chromatograph with conductivity detection.

## Related Products

- ▶ [47 mm Glass Filter Funnels](#)
- ▶ [SolVac™ Filter Holder](#)
- ▶ [Stainless Steel Forceps](#)
- ▶ [Vacuum/Pressure Pumps](#)

## Ordering Information

Part Number	Description	Pkg	Price	Qty
<b>Ion Chromatography Acrodisc® Syringe Filters, 13 mm</b>				
4483	0.2 µm	100/pkg 300/cs	NA	<input type="text" value="0"/>
4683	0.2 µm	1000/pkg	NA	<input type="text" value="0"/>
4485	0.45 µm	100/pkg 300/cs	NA	<input type="text" value="0"/>
4685	0.45 µm	1000/pkg	NA	<input type="text" value="0"/>
<b>Ion Chromatography (PES) Acrodisc Syringe Filters, 25 mm</b>				
4583	0.2 µm	50/pkg, 200/cs	NA	<input type="text" value="0"/>
4783	0.2 µm	1000/pkg	NA	<input type="text" value="0"/>
4585	0.45 µm	50/pkg, 200/cs	NA	<input type="text" value="0"/>
4785	0.45 µm	1000/pkg	NA	<input type="text" value="0"/>
<b>Zymark* and SOTAX* Automation Certified Ion Chromatography Acrodisc PSF Syringe Filters, 25 mm</b>				

AP-4801	0.2 µm AutoPack™ tubes	25/ pkg, 200/ cs	NA	<input type="text" value="0"/>
AP-4802	0.2 µm	50/ pkg, 200/ cs	NA	<input type="text" value="0"/>
AP-4803	0.2 µm	1000/ pkg	NA	<input type="text" value="0"/>
AP-4587	0.45 µm AutoPack™ tubes	25/ pkg 200/ cs	NA	<input type="text" value="0"/>
AP-4585	0.45 µm	50/ pkg 200/ cs	NA	<input type="text" value="0"/>
AP-4785	0.45 µm	1000/ pkg	NA	<input type="text" value="0"/>

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## Contact Information

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