



Acrodisc® Syringe Filters

Description

Whether you are pursuing goals in life science, pharmaceutical methods, research and development, quality control, or specialty environmental applications, Pall Laboratory's syringe filters for HPLC, UHPLC and Ion Chromatography offer unfailing quality. Our superior media separation technology ensures:

- Accurate pore size ratings for better chromatography, and instrument and column protection
- Uniform membrane materials (lot-to-lot) for consistent analytical results
- Low extractable materials for less chromatographic interference
- Materials of construction selected specifically for analytical analysis with lower extractables and lower API adsorption

Applications

- High Pressure Liquid Chromatography
- Ultra-High Pressure Liquid Chromatography
- Ion Chromatography
- Prefiltration

Certifications

HPLC Certification

Pall Laboratory certifies the following HPLC Acrodisc syringe filters have been tested for compatibility with common HPLC solvents using established HPLC procedures. To verify low levels of UV-detectable extractables, representative samples are tested using a highly sensitive HPLC technique.



Ion Chromatography Certification

Pall Laboratory certifies the following Ion Chromatography (IC) Acrodisc syringe filters have been tested by ion chromatography. To monitor inorganic extractables, statistically representative samples are tested. Actual background levels of filter extractables are typically less than 20 ppb for chloride, 6 ppb for nitrate, 1 ppb for phosphate, and 10 ppb for sulfate.

Syringe Filters for Prefiltration

Pall Laboratory Glass Fiber Acrodisc syringe filters provide fast flow rates and high particulate holding capacities, which make it an excellent filter for prefiltration of heavily contaminated samples.

Chemical Compatibility

Solvent	wwPTFE	PTFE	Glass	Nylon	IC, Supor® (PES)	PVDF
Acetone	R	R	R	R	NR	NR
Acetonitrile	R	R	R	R	R	R
Acetic Acid, glacial	R	R	R	NR	R	R
n-Butanol	R	R	R	R	R	R
Chloroform	R	R	R	R	NR	NR
Dimethyl Formamide	R	R	R	R	NR	NR
Dimethyl Sulfoxide	R	R	R	R	NR	R
Ethanol	R	R	R	R	R	R
Ethyl Acetate	R	R	R	R	NR	R
Ethel Ether	R	R	R	R	R	R
Hydrochloric Acid (1N)	R	R	R	NR	R	R
Hexane, dry	R	R	R	R	LR	R
Methanol	R	R	R	R	R	R
Methylene Chloride	R	R	R	R	NR	R
Methyl Ethyl Ketone	R	R	R	R	NR	NR
N-Methyl Pyrrolidone	R	R	R	NR	NR	R
Isopropanol	R	R	R	R	R	R
Sodium Hydroxide (3N)	R	R	R	R	R	NR
Tetrahydrofuran	R	R	R	R	NR	NR
Tetrahydrofuran/water (50/50)	R	R	R	R	*	R
Toluene	R	R	R	R	R	R
Water	R	R	R	R	R	R
Ammonium Hydroxide	R	R	R	*	*	*

R = RESISTANT

No significant change was observed in flow rate or bubble point.

LR = LIMITED RESISTANCE

Moderate changes in physical properties of the membrane were observed.

NR = NOT RESISTANT

The membrane is basically unstable and is not recommended for use.

* = INSUFFICIENT DATA

Information not available. Trial testing is recommended.

Specifications

Materials of Construction

Filter Media

wwPTFE: water wettable polytetrafluoroethylene membrane on a polypropylene support

PTFE: Hydrophobic polytetrafluoroethylene membrane on a polypropylene support

PVDF: Hydrophilic polyvinylidene fluoride membrane

Nylon: Hydrophilic nylon membrane

PES: Hydrophilic polyethersulfone Supor membrane

Glass: Binder-free borosilicate glass fiber

Housings

Polypropylene

Pore Size

0.2, 0.45, and 1 μ m

Effective Filtration Area

13 mm: 1.0 cm²

25 mm: 2.8 cm²

Sample Volume

13 mm: < 10 mL

25 mm: < 100 mL

Inlet/Outlet Connections

Inlet: Female luer lok

Outlet: Male luer outlet or minispikes as noted

Typical Hold-up Volume (with air purge)

13 mm minispikes: < 14 µL

13 mm: < 30 µL

25 mm: < 100 µL

Maximum Operating Temperature

wwPTFE, Nylon, PES: 55 °C (131 °F)

PTFE, PVDF: 100 °C (212 °F)

Glass Fiber: 135 °C (275 °F)

Maximum Operating Pressure

wwPTFE: 13 mm: 6.2 bar (510 kPa, 90 psi)

25 mm: 6.2 bar (510 kPa, 90 psi)

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

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

PVDF: 13 mm: 3.5 bar (350 kPa, 50 psi)

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

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

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

Instructions for Use

Before filling the syringe with sample, draw approximately 1 mL of air into the syringe. This will allow the air to follow the sample out of the syringe. This “air purge” minimizes fluid retention within the filter device.

Fill the syringe with the solution to be filtered.

CAUTION: Use of syringes smaller than 10 mL can generate excessive pressure on the filter, which may exceed maximum operating pressure.

Holding the filter device in one hand and the filled syringe in the other, secure (without excessive force) the filled syringe to the filter device with a twisting motion.

Apply gentle pressure to begin filtration. (A gentle pressure helps assure maximum throughput.) **CAUTION:** As the filter removes particulate, filtration will become more difficult (the syringe plunger will be harder to use) and pressure will rapidly increase on the filter. Change filters when resistance becomes excessive. Failure to change filter may result in housing rupture, which results in particulate contaminating the filtrate.

These filters are for single use only.

Ordering Information

13 mm Acrodisc Syringe Filters for HPLC

VWR Cat. No.	Pall Part No.	Description	Pkg
76308-728	2400	0.2 µm, wwPTFE with Minispikes outlet	300/cs
76308-698	2401	0.2 µm, wwPTFE with Minispikes outlet	1000/pkg
76308-700	2402	0.45 µm, wwPTFE with Minispikes outlet	300/cs
76308-702	2403	0.45 µm, wwPTFE with Minispikes outlet	1000/pkg
28143-982	4423	0.2 µm, PTFE	300/cs
28143-930	4542	0.2 µm, PTFE	1000/pkg
28143-981	4422	0.45 µm, PTFE	300/cs
28143-931	4543	0.45 µm, PTFE	1000/pkg
28143-254	4552	0.2 µm, PTFE with Minispikes outlet	300/cs
28143-256	4553	0.45 µm, PTFE with Minispikes outlet	300/cs
28139-556	4555	0.45 µm, PTFE with Minispikes outlet	1000/pkg
28143-930	4455	0.2 µm, PVDF	300/cs
28143-997	4457	0.45 µm, PVDF	300/cs
28143-989	4450	0.2 µm, PVDF with Minispikes outlet	300/cs
28143-942	4544	0.2 µm, PVDF with Minispikes outlet	1000/pkg
28143-991	4452	0.45 µm, PVDF with Minispikes outlet	300/cs
28143-938	4545	0.45 µm, PVDF with Minispikes outlet	1000/pkg
28143-985	4427	0.2 µm, Nylon	300/cs
28143-242	4540	0.2 µm, Nylon	1000/pkg
28143-984	4426	0.45 µm, Nylon	300/cs
28143-240	4541	0.45 µm, Nylon	1000/pkg
28143-250	4550	0.2 µm, Nylon with Minispikes outlet	300/cs
11016-266	4561	0.2 µm, Nylon with Minispikes outlet	1000/pkg
28143-252	4551	0.45 µm, Nylon with Minispikes outlet	300/cs
34181-048	4546	0.45 µm, Nylon with Minispikes outlet	1000/pkg

25 mm Acrodisc Syringe Filters for HPLC

VWR Cat. No.	Pall Part No.	Description	Pkg
76308-634	4927	0.2 µm, wwPTFE	200/cs
76308-636	4929	0.2 µm, wwPTFE	1000/pkg
76308-638	4914	0.45 µm, wwPTFE	200/cs
76308-640	4932	0.45 µm, wwPTFE	1000/pkg
28143-926	4225	0.2 µm, PTFE	200/cs
28143-558	4251	0.2 µm, PTFE	1000/pkg
28143-924	4219	0.45 µm, PTFE	200/cs
28144-584	4501	0.45 µm, PTFE	1000/pkg
28143-928	4226	1 µm, PTFE	200/cs
28100-062	4503	1 µm, PTFE	1000/pkg
28143-936	4406	0.2 µm, PVDF	200/cs
28143-280	4520	0.2 µm, PVDF	1000/pkg
28143-940	4408	0.45 µm, PVDF	200/cs
28144-583	4500	0.45 µm, PVDF	1000/pkg
28143-946	4436	0.2 µm, Nylon	200/cs
28144-592	4522	0.2 µm, Nylon	1000/pkg
28143-948	4438	0.45 µm, Nylon	200/cs
28144-588	4502	0.45 µm, Nylon	1000/pkg

25 mm Acrodisc Syringe Filters for Ion Chromatography

VWR Cat. No.	Pall Part No.	Description	Pkg
28143-290	4583	0.2 µm, Supor	200/cs
28143-292	4585	0.45 µm, Supor	200/cs
34181-074	4783	0.2 µm, Supor	1000/pkg
34181-052	4785	0.45 µm, Supor	1000/pkg

Syringe for Prefiltration

VWR Cat. No.	Pall Part No.	Description	Pkg
28143-986	4523	1 µm, Glass Fiber	200/cs
34181-092	4529	1 µm, Glass Fiber	1000/pkg



Laboratory

Ordering:

vwr.com

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