
Good Manufacturing Practice / Quality Management System

J.T.Baker® syringe filters have been manufactured using current Good Manufacturing Practices. The quality management system is certified to ISO 9001:2015.

Class VI Plastics

Each unit is biosafe according to USP Class VI plastics tests.

Quality Assurance Lot Release Criteria

Each manufacturing lot has been sampled and tested for the following characteristics:

- Burst pressure testing of housing
- Bubble point testing
- Flow rate performance
- HPLC certified

Directions for Use of Syringe Filters

(Note: Use caution when using small volume syringes (<10 cc) as they can generate high pressure. For laboratory use only.)

1. Draw liquid to be filtered into a syringe.
2. Remove the filter from the packaging taking care not to contaminate the filter inlet or outlet.
3. Attach the filter to the syringe by engaging the luer lock.
4. Hold the syringe/filter assembly with the filter pointing up. Press the plunger until all air is pushed through the filter and liquid is observed entering the filter outlet. This assures proper venting of the membrane and prevents potential air lock in the assembly.
5. Filter the fluid into a receiving vessel by squeezing the plunger on the syringe.

These syringe filters are specifically designed for chromatography sample preparation applications and optimized to provide the most consistent results with less extractables.

- Available with PTFE (hydrophilic or hydrophobic), Nylon, PES, RC membrane and GF (Glass fiber)
- Each filter has a female Luer-lock inlet and a male slip Luer outlet.
- Water wettable hydrophilic PTFE offers excellent chemical resistance to both common aqueous and aggressive organic solvents, most of the acids and alkalis.
- Regenerated cellulose exhibits low protein binding and wide chemical resistance
- PES offers lower protein binding as well as higher flow rate
- More choice for large pore sizes 1.0um is for high throughput and fast flow rates
- Built in glass fiber (100% binder-free borosilicate glass fiber) prefilter double layer type is specially for high-particle loading, ideal for difficult to filter liquids

• Choosing the Right Pore Size:

Typical Pore Size	
0.22um	Sterile filtration
0.45um	Clarification and particle removal
1.0um	Prefiltration

Choosing the Right Diameter:

Typical Process Volume	Suitable Syringe Filter Diameter (mm)	Hold-up volume (μl)
1 – 10 mL	ø13	<10
10 – 50mL	ø25	<100
50– 100 mL	ø30	<120
Up to 200ml	Two layers design with built in glass fiber (GF) prefilter	<120

Notes:

- ø13 mm Syringe filters are designed to filter 1-10 ml with hold-up volume<10μl
- ø25 mm Syringe filters are designed to filter 10-50 ml with hold-up volume<100μl
- ø30 mm Syringe filters are designed to filter 50~100ml with hold-up volume<120μl
- Two layers design with built in glass fiber (GF) prefilter can filter up to 200 ml

Specifications

Each filter has a female luer lock inlet and a male slip luer outlet.

J.T.BAKER Global Cat. No.	Membrane Material	Pre filter	Pore Size (μm)	Housing Material	ø OD (mm)	Qty/Pk (pcs)	Pk/ Case	Qty / Case (pcs)	Effective Filtration Area (cm ²)	Sterile	Min. bubble point, (Mpa)	Flow rate Δp = 0.07 Mpa (mL/min)	pH
SF02-68	RC	N/A	0.22	PP	13	200	12	2400	0.92	N/A	0.1	6	2--12
SF02-72	RC	N/A	0.45	PP	13	200	12	2400	0.92	N/A	0.05	15	2--12
SF02-76	RC	N/A	0.22	PP	25	200	8	1600	2.98	N/A	0.1	24	2--12
SF02-80	RC	N/A	0.45	PP	25	200	8	1600	2.98	N/A	0.05	40	2--12
SF02-82	RC	*GF	0.45	PP	25	200	8	1600	2.98	N/A	0.05	40	3--12
SF02-88	RC	N/A	0.22	PP	30	200	8	1600	4.9	N/A	0.1	40	2--12
SF02-92	RC	N/A	0.45	PP	30	200	8	1600	4.9	N/A	0.05	70	2--12
SF01-42	Nylon	N/A	0.22	PP	13	200	12	2400	0.92	N/A	0.26	4	2-13
SF01-46	Nylon	N/A	0.45	PP	13	200	12	2400	0.92	N/A	0.16	9	2-13
SF01-50	Nylon	N/A	0.22	PP	25	200	8	1600	2.98	N/A	0.26	15	2-13
SF01-54	Nylon	N/A	0.45	PP	25	200	8	1600	2.98	N/A	0.16	35	2-13
SF01-58	Nylon	*GF	0.45	PP	25	200	8	1600	2.98	N/A	0.16	35	3-13
SF01-70	Nylon	N/A	0.22	PP	30	200	8	1600	4.9	N/A	0.26	30	2-13
SF01-74	Nylon	N/A	0.45	PP	30	200	8	1600	4.9	N/A	0.16	60	2-13
SF01-64	Nylon	N/A	1	PP	30	200	8	1600	4.9	N/A	0.06	80	2-13
SF01-02	Glass fiber	N/A	1	PP	13	200	12	2400	0.92	N/A	/	70	3--14

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SF01-06	Glass fiber	N/A	1	PP	25	200	8	1600	2.98	N/A	/	250	3--14
SF01-10	Glass fiber	N/A	1	PP	30	200	8	1600	4.9	N/A	/	300	3--14
SF01-14	*H-PTFE	N/A	0.22	PP	13	200	12	2400	0.92	N/A	0.1	6	1--14
SF01-18	*H-PTFE	N/A	0.45	PP	13	200	12	2400	0.92	N/A	0.05	12	1--14
SF01-22	*H-PTFE	N/A	0.22	PP	25	200	8	1600	2.98	N/A	0.1	24	1--14
SF01-26	*H-PTFE	N/A	0.45	PP	25	200	8	1600	2.98	N/A	0.05	60	1--14
SF01-28	*H-PTFE	*GF	0.45	PP	25	200	8	1600	2.98	N/A	0.05	60	3--14
SF01-34	*H-PTFE	N/A	0.22	PP	30	200	8	1600	4.9	N/A	0.1	30	1--14
SF01-38	*H-PTFE	N/A	0.45	PP	30	200	8	1600	4.9	N/A	0.05	80	1--14
SF02-32	PTFE	N/A	0.22	PP	13	200	12	2400	0.92	N/A	0.1	9	1--14
SF02-36	PTFE	N/A	0.45	PP	13	200	12	2400	0.92	N/A	0.05	15	1--14
SF02-40	PTFE	N/A	0.22	PP	25	200	8	1600	2.98	N/A	0.1	30	1--14
SF02-44	PTFE	N/A	0.45	PP	25	200	8	1600	2.98	N/A	0.05	60	1--14
SF02-46	PTFE	*GF	0.45	PP	25	200	8	1600	2.98	N/A	0.05	60	3--14
SF02-58	PTFE	N/A	0.22	PP	30	200	8	1600	4.9	N/A	0.1	40	1--14
SF02-62	PTFE	N/A	0.45	PP	30	200	8	1600	4.9	N/A	0.05	80	1--14
SF02-52	PTFE	N/A	1	PP	30	200	8	1600	4.9	N/A	0.03	100	1--14
SF01-78	PES	N/A	0.1	PP	13	200	12	2400	0.92	N/A	*0.18	4	1-14
SF01-82	PES	N/A	0.22	PP	13	200	12	2400	0.92	N/A	0.35	7	1-14
SF01-86	PES	N/A	0.45	PP	13	200	12	2400	0.92	N/A	0.22	20	1-14
SF01-88	PES	*GF	0.45	PP	13	200	12	2400	0.92	N/A	0.22	20	3-14
SF01-94	PES	N/A	0.1	PP	25	200	8	1600	2.98	N/A	*0.18	12	1-14
SF01-98	PES	N/A	0.22	PP	25	200	8	1600	2.98	N/A	0.35	30	1-14
SF02-04	PES	N/A	0.45	PP	25	200	8	1600	2.98	N/A	0.22	80	1-14
SF02-06	PES	*GF	0.45	PP	25	200	8	1600	2.98	N/A	0.22	80	3-14
SF02-16	PES	N/A	0.1	PP	30	200	8	1600	4.9	N/A	*0.18	30	1-14
SF02-20	PES	N/A	0.22	PP	30	200	8	1600	4.9	N/A	0.35	60	1-14
SF02-24	PES	N/A	0.45	PP	30	200	8	1600	4.9	N/A	0.22	100	1-14
SF02-26	PES	*GF	0.45	PP	30	200	8	1600	4.9	N/A	0.22	100	3-14
SF02-12	PES	N/A	1	PP	30	200	8	1600	4.9	N/A	0.1	200	1-14

SF02-70	RC	N/A	0.22	PP	13	1000	10	10000	0.92	N/A	0.1	6	2--12
SF02-74	RC	N/A	0.45	PP	13	1000	10	10000	0.92	N/A	0.05	15	2--12
SF02-78	RC	N/A	0.22	PP	25	1000	6	6000	2.98	N/A	0.1	24	2--12
SF02-86	RC	N/A	0.45	PP	25	1000	6	6000	2.98	N/A	0.05	40	2--12
SF02-84	RC	*GF	0.45	PP	25	1000	6	6000	2.98	N/A	0.05	40	3--12
SF02-90	RC	N/A	0.22	PP	30	1000	4	4000	4.9	N/A	0.1	40	2--12
SF02-94	RC	N/A	0.45	PP	30	1000	4	4000	4.9	N/A	0.05	70	2--12
SF01-44	Nylon	N/A	0.22	PP	13	1000	10	10000	0.92	N/A	0.26	4	2-13
SF01-48	Nylon	N/A	0.45	PP	13	1000	10	10000	0.92	N/A	0.16	9	2-13
SF01-52	Nylon	N/A	0.22	PP	25	1000	6	6000	2.98	N/A	0.26	15	2-13
SF01-62	Nylon	N/A	0.45	PP	25	1000	6	6000	2.98	N/A	0.16	35	2-13
SF01-60	Nylon	*GF	0.45	PP	25	1000	6	6000	2.98	N/A	0.16	35	3-13

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SF01-72	Nylon	N/A	0.22	PP	30	1000	4	4000	4.9	N/A	0.26	30	2-13
SF01-76	Nylon	N/A	0.45	PP	30	1000	4	4000	4.9	N/A	0.16	60	2-13
SF01-68	Nylon	N/A	1	PP	30	1000	4	4000	4.9	N/A	0.06	80	2-13
SF01-04	Glass fiber	N/A	1	PP	13	1000	10	10000	0.92	N/A	/	70	3--14
SF01-08	Glass fiber	N/A	1	PP	25	1000	6	6000	2.98	N/A	/	250	3--14
SF01-12	Glass fiber	N/A	1	PP	30	1000	4	4000	4.9	N/A	/	300	3--14
SF01-16	*H-PTFE	N/A	0.22	PP	13	1000	10	10000	0.92	N/A	0.1	6	1--14
SF01-20	*H-PTFE	N/A	0.45	PP	13	1000	10	10000	0.92	N/A	0.05	12	1--14
SF01-24	*H-PTFE	N/A	0.22	PP	25	1000	6	6000	2.98	N/A	0.1	24	1--14
SF01-32	*H-PTFE	N/A	0.45	PP	25	1000	6	6000	2.98	N/A	0.05	60	1--14
SF01-30	*H-PTFE	*GF	0.45	PP	25	1000	6	6000	2.98	N/A	0.05	60	3--14
SF01-36	*H-PTFE	N/A	0.22	PP	30	1000	4	4000	4.9	N/A	0.1	30	1--14
SF01-40	*H-PTFE	N/A	0.45	PP	30	1000	4	4000	4.9	N/A	0.05	80	1--14
SF02-34	PTFE	N/A	0.22	PP	13	1000	10	10000	0.92	N/A	0.1	9	1--14
SF02-38	PTFE	N/A	0.45	PP	13	1000	10	10000	0.92	N/A	0.05	15	1--14
SF02-42	PTFE	N/A	0.22	PP	25	1000	6	6000	2.98	N/A	0.1	30	1--14
SF02-50	PTFE	N/A	0.45	PP	25	1000	6	6000	2.98	N/A	0.05	60	1--14
SF02-48	PTFE	*GF	0.45	PP	25	1000	6	6000	2.98	N/A	0.05	60	3--14
SF02-60	PTFE	N/A	0.22	PP	30	1000	4	4000	4.9	N/A	0.1	40	1--14
SF02-64	PTFE	N/A	0.45	PP	30	1000	4	4000	4.9	N/A	0.05	80	1--14
SF02-54	PTFE	N/A	1	PP	30	1000	4	4000	4.9	N/A	0.03	100	1--14
SF01-80	PES	N/A	*0.1	PP	13	1000	10	10000	0.92	N/A	*0.18	4	1-14
SF01-84	PES	N/A	0.22	PP	13	1000	10	10000	0.92	N/A	0.35	7	1-14
SF01-92	PES	N/A	0.45	PP	13	1000	10	10000	0.92	N/A	0.22	20	1-14
SF01-90	PES	*GF	0.45	PP	13	1000	10	10000	0.92	N/A	0.22	20	3-14
SF01-96	PES	N/A	0.1	PP	25	1000	6	6000	2.98	N/A	*0.18	12	1-14
SF02-02	PES	N/A	0.22	PP	25	1000	6	6000	2.98	N/A	0.35	30	1-14
SF02-10	PES	N/A	0.45	PP	25	1000	6	6000	2.98	N/A	0.22	80	1-14
SF02-08	PES	*GF	0.45	PP	25	1000	6	6000	2.98	N/A	0.22	80	3-14
SF02-18	PES	N/A	0.1	PP	30	1000	4	4000	4.9	N/A	*0.18	30	1-14
SF02-22	PES	N/A	0.22	PP	30	1000	4	4000	4.9	N/A	0.35	60	1-14
SF02-30	PES	N/A	0.45	PP	30	1000	4	4000	4.9	N/A	0.22	100	1-14
SF02-28	PES	*GF	0.45	PP	30	1000	4	4000	4.9	N/A	0.22	100	3-14
SF02-14	PES	N/A	1	PP	30	1000	4	4000	4.9	N/A	0.1	200	1-14

* N/A=Not Applicable

* H-PTFE=Hydrophilic PTFE, bubble point tested by ethanol, Average flow rate tested by water

* PTFE=Hydrophobic PTFE, bubble point tested by ethanol, Average flow rate tested by ethanol

* GF=100% binder-free borosilicate glass fiber

*0.18=bubble point tested by 60% IPA for PES 0.1um