

## FSI Bag Filters

Our felt bags are designed to withstand higher solid loading, and are suitable for applications using vessel or open filtration systems.

FSI's "Comprehensive Manufacturing Control" philosophy insures that they maintain their status as the industry leader in all phases of the filter business. FSI's integrated technology, control over manufacturing and quality leads to consistent performance. With FSI filter bags, you can count on a quality product every time.

FSI starts with the finest materials possible. FSI makes its own fiber to produce the felt material used in its felt filter bags inhouse, guaranteeing the highest quality. Our Extended Life filter bag provides superior filtration of all stated sized particles, as well as up to twice the dirt holding capacity of a standard filter bag.



The no-bypass welded seams eliminate the possibility of fluid bypass through needle holes. We provide a variety of glazed and singed finishes to inhibit fiber migration. FSI also offers polyester inserted felts. These inserted felts include a reinforcing scrim needed inside the felt material, to provide added strength and durability, when a restrainer basket is not being used.

Construction	Fiber	Available Micron Ratings / Flow Rates (gpm / lpm)				
		1	5	10	25	50
Felt	Polyester Felt	80 / 302.4	120 / 453.6	120 / 453.6	120 / 453.6	120 / 453.6
	Nylon	N/A	120 / 453.6	120 / 453.6	120 / 453.6	120 / 453.6
	Polypropylene	80 / 302.4	120 / 453.6	120 / 453.6	120 / 453.6	120 / 453.6
	Teflon®	80 / 302.4	120 / 453.6	120 / 453.6	120 / 453.6	N/A
	High Temperature	N/A	120 / 453.6	120 / 453.6	120 / 453.6	120 / 453.6
Microfiber	Polypropylene	60 / 226.8	N/A	80 / 302.4	80 / 302.4	80 / 302.4
Monofilament Mesh	Nylon	100 / 378	100 / 378	125 / 472.5	125 / 472.5	125 / 472.5

Bag Size	1	2	3	4	X01	XL
Surface Area Bag (ft <sup>2</sup> / m <sup>2</sup> )	2.0 / 0.19	4.4 / 0.41	0.5 / 0.05	1.0 / 0.90	2.0 / 0.19	5.3 / 0.49
Volume Per Bag (gal / ltr)	2.10 / 7.90	4.60 / 17.30	0.67 / 2.50	0.67 / 2.50	2.10 / 7.90	5.50 / 0.51
Bag Diameter (in / cm)	7.0 / 17.8	7.0 / 17.8	4.0 / 10.2	4.0 / 10.2	6.0 / 15.2	9.25 / 23.5
Bag Length (in / cm)	16.0 / 40.65	32.0 / 81.3	8.25 / 20.9	14.0 / 35.5	22 / 55.9	32 / 81.3
FSI Filter Vessel Model Number	FSPN-40 CBFP-11	FSPN-85 FSPN-250 CBFP-12 and all multi-hold vessels	FSPN-20 BFN-13	FSPN-35 BFN-14	X100B	XL234

Fabric	Cotton	Polyester	Glass	Nylon	Nomex	Polypropylene
Specific Gravity	1.55	1.38	2.56	1.14	1.14	0.9
Tensile Strength	44 - 109	64 - 124	200 - 215	58 - 128	58 - 128	50 - 85
Abrasion & Flex	Fair	Very Good	Poor	Excellent	Very Good	Very Good
Weak Acids	Poor	Very Good	Excellent	Fair	Fair	Excellent
Strong Acids	Poor	Good	Good	Poor	Poor	Excellent
Weak Alkali	Excellent	Good	Fair	Excellent	Excellent	Excellent
Strong Alkali	Excellent	Poor	Poor	Excellent	Excellent	Excellent
Solvents	Good	Good	Excellent	Good	Good	Fair
Temperature °F / °C	200 - 240 / 93 - 115	275 - 325 / 135 - 162	500 - 600 / 260 - 315	275 - 300 / 135 - 149	400 - 450 / 204 - 232	200 - 220 / 93 - 104