



FILTER SPECIALISTS, INC.

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FILTER BAGS



Felt Filter Bags

Standard Felt Filter Bags

Innovative Solutions. Clear Results.



FILTER BAGS

Felt Filter Bags



Standard Felt Filter Bags | Polyweld® Filter Bags | Extended Life Filter Bags (POEX/PEEX)

MAX PONG Filter Bags | Polyfold™ Filter Bags

Polymicro Microfiber Filter Bags

POMF Filter Bags

Seamless-Absolute Rated

BOS Filter Bags | BOS Gradient Filter Elements | BOS MAX Filter Bags

Mesh Filter Bags



FELT FILTER BAGS Standard Felt Filter Bags

FSI Felt Bags are the Answer

When it comes to felt filter bags, FSI has the answer. Our years of experience give us an advantage over our competitors, and our felt filter bags show it. 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 we will maintain our status as the industry leader in all phases of the filter business. Our integrated technology, control over our manufacturing and quality leads to consistent performance. With FSI filter bags, you can count on a quality product every time.

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

Our 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 needled inside the felt material, to provide added strength and durability, when a restrainer basket is not being used.

Features

- We offer a full line of felt materials and micron ratings
- Conventional sewn bags or the PolyWeld® welded seam bags available
- FSI PolyLoc® ring or other common bag rings available on most bags
- Heavy Duty and Extended Life designs available to suit your filtration needs



Specifications

- Available Materials**
 PO = Felt, Polypropylene
 PE = Felt, Polyester
 N = Felt, Nylon
 HT = Felt, High Temperature
 TFE = Felt, Teflon
- Maximum Operating Temperature**
 Polypropylene: 200-220° F (93-104° C)
 Polyester: 275-325° F (135-162° C)
 Nylon: 275-300° F (135-149° C)
 High Temperature: 400-450° F (204-232° C)
 Teflon: 450-500° F (232-260° C)
- Suggested Differential Pressure**
 35 PSIG maximum — dirty
 10-15 PSIG optimum change out
- Micron Rating**
 PO = 1, 3, 5, 10, 25, 50, 100
 PE = 1, 3, 5, 10, 25, 50, 75, 100, 200
 N = 5, 10, 25, 50, 100
 HT = 5, 10, 25, 50, 100, 200
 TFE = 1, 5, 10, 25
- Sizes**
 #1: 7" x 16" (17.78 cm x 40.65 cm)
 #2: 7" x 32" (17.78 cm x 81.28 cm)
 #3: 4" x 8.25" (10.16 cm x 20.96 cm)
 #4: 4" x 14" (10.16 cm x 35.56 cm)
 #5: 6 7/8" x 34" (17.46 cm x 86.36 cm)
 #6: 6 7/8" x 16" 1/2" (17.46 cm x 41.91 cm)
 #7: 5 1/2" x 16" (13.97 cm x 40.64 cm)
 #8: 5 1/2" x 22" (13.97 cm x 55.88 cm)
 #9: 5 1/2" x 33" (13.97 cm x 83.82 cm)
- Rings**
 P = Polypropylene PolyLoc®
 PE = Polyester PolyLoc®
 N = Nylon PolyLoc®
 C = Cuno
 S = Snap ring metal
 SSS = Stainless steel snap ring
 CO = Commercial steel ring
 COP = Commercial plastic ring
 RP = Ronningen-Petter snap ring
 RPP = Ronningen-Petter plastic ring
 RPF = Ronningen-Petter flange

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Item # **BPONG10P2PC**

Type of Filter	B = Filter Bag	
Material	See specifications	N = Non-inserted felt I = Inserted felt (<i>polyester only</i>) G = Glazed finish F = Fuzzy finish (<i>polyester only</i>)
Micron Rating	See specifications	
Cover	P = Plain PEM = Polyester multifilament NMO = Nylon monofilament	
Size	1, 2, 3, 4, 5*, 6*, 7, 8, 9	
Ring	See specifications	
Suffix	WE** = Welded Seam Construction A = Auto Construction (<i>seam inside bag</i>) C = Cotton Handle N = Nylon Handle LOOPS = Loops	

* SIZES 5, 6, AVAILABLE WITH S RING ONLY

** AVAILABLE IN SIZES 1 AND 2, POLYPROPYLENE AND POLYESTER NON-INSERTED ONLY



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Filter Fabric Qualities

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°)	200 - 240°	275 - 325°	500 - 600°	275 - 300°	400 - 450°	200 - 220°

Filter Bag Data

Bag Size	1	2	3	4	X01	XL
Surface Area Per Bag (ft2/m2)	2.0/0.19	4.4/0.41	0.5/0.05	1.0/0.9	2.0/0.19	5.3/0.49
Volume Per Bag (gal*/liter)	2.1/7.9	4.6/17.3	0.37/1.4	0.67/2.5	2.1/7.9	5.5/0.51
Bag Diameter (inch/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 (inch/cm)	16/40.65	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-hole vessels	FSPN-20 BFN-13	FSPN-35 BFN-14	X100B	XL234



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Flow Rates of Filter Bags

In most filtration applications, fluid viscosities do not exceed 50cps. Using the following Flow Rates Per #2 Size Bag as a guide, the suggested flow rates should result in a CLEAN Pressure Drop under 2 PSID.

Material Used	Micron Rating	Flow Rate (GPM)
Felt	1 & 3	80 GPM/#2 BAG
Felt	5 THRU 200	120 GPM/#2 BAG
Mesh	1, 3, 5 & 100	100 GPM/#2 BAG
Mesh	25 THRU 100	125 GPM/#2 BAG
Mesh	150 THRU 800	150 GPM/#2 BAG
Microfiber	1A and 2A	60 GPM/#2 BAG
Microfiber	10A, 25A, 90A & 0A	80 GPM/#2 BAG

Micron Rating & Availability

[illegible]