



FILTER SPECIALISTS, INC.

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FILTER BAGS



Seamless Absolute-Rated

BOS 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

SEAMLESS-ABSOLUTE RATED BOS Filter Bags

The BOS filter bag is a Polymicro® seamless filter bag, constructed entirely without seams. This unique material composition allows for a higher efficiency, with graded pore-size distribution creating absolute filtration. Thermally bonded microfibers create a seamless filter bag that has high tensile strength, providing superior resistance to channeling, unloading, bypass and other forms of traditional leakage that result from pulsating water.

The benefit of using this advanced filter bag is precise particle retention. The BOS filter bag is an ideal product for use in a wide variety of high-purity applications, where absolute filtration is required.

Features

- Seamless construction offers unequalled benefit of eliminating fluid bypass
- Absolute rated (98%) 3-100 microns for highest efficiency and consistent quality
- Microfiber-graded pore design provides lower initial pressure drop
- Thermally-bonded microfibers contain no sizing, bonding adhesive, resin or silicone
- FDA compliant
- Can be incinerated for easy disposal
- Available with NSF Standard 61 Certification



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Specifications

- **Available Materials**
Polypropylene
- **Seamless Construction**
- **Maximum Operating Temperature**
160° F (71° C)
- **Suggested Differential Pressure**
35 PSIG maximum – dirty
10-15 PSIG optimum change out
- **Absolute (98%) Micron Rating**
3, 5, 10, 25, 35, 50, 75, 100
- **Sizes**
#1: 7" x 16" (17.8 cm x 40.65 cm)
#2: 7" x 32" (17.8 cm x 81.3 cm)
- **Plastic PolyLoc® Rings**
- **Available with NSF Standard 61 Certification**

SEAMLESS-ABSOLUTE RATED

BOS Filter Bags

Item # BOS5PM2P

Code BOS = Polymicro seamless

Micron Rating See specifications

Cover PM = Polypropylene

Size 1, 2

Ring P = Polypropylene PolyLoc®

Item # BOS5PP2P61

Code BOS = Polymicro seamless

Micron Rating See specifications

Cover PP = Special NSF Construction

Size 2

Ring P = Polypropylene PolyLoc®

Suffix 61 = NSF 61 Certified



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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

Micron Availability		Micron Rating																								
Fiber	Material	1	3	5	10		25	35	50	65	75	90	100	120	125	150	175	200	250	300	400	600	700	800	1200	1500
Polyester Felt	Felt																									
Nylon	Felt																									
Polypropylene	Felt																									
Teflon®	Felt																									
High Temperature	Felt																									
Polypropylene	Microfiber																									
Nylon	Monofilament Mesh																									
Polypropylene	Monofilament Mesh																									
Polyester	Multifilament Mesh																									