



FILTER SPECIALISTS, INC.

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FILTER BAGS



Seamless Absolute-Rated

BOS Gradient 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 Element** | BOS MAX Filter Bags

Mesh Filter Bags



SEAMLESS-ABSOLUTE RATED BOS Gradient Filter Elements

BOS Gradient Filter element is the first of its kind, with seamless design and true gradient density. This absolute rated element provides users with the depth of a cartridge and the convenience of a bag. This 100% polypropylene microfiber product adsorbs up to 16 times its own weight in hydrocarbons (oils) and will last up to 18 times the life of other products (depending on particle distribution and application).

Features/Benefits

Gradient Density provides:

- Up to 18 times extended life compared to other products, dependent upon particle distribution and application
- Longer life means fewer bag changes which results in lower labor costs and less loss of product
- Not compressible in operation providing greater dirt holding capacity
- Designed for typical broad particle distribution applications.
- Will allow more efficient filtration (lower micron) without sacrificing product life

Polypropylene Microfiber Material

- Adsorbs up to 16 times its own weight in hydrocarbons (oils)
- Inventory reduction. Eliminates need for stocking "oil" bags
- Thermally bonded, with no lubricants or surface active agents
- Available with NSF Standard 61 Certification

Fits existing FSI standard basket

- No retrofit costs





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Specifications

- **Available Materials**
Polypropylene Microfiber
- **Seamless Construction**
- **Maximum Operating Temperature**
160° F (71° C)
- **Suggested Differential Pressure**
20 PSIG maximum – dirty
10-15 PSIG optimum change out
- **Absolute (98%) Micron Rating**
3, 5, 10, 25, 50, 75, 100, 125
- **Sizes**
#2: 7" X 32" (17.8 cm X 81.32 cm)
- **Thermally Bonded Ring**
- **Available with NSF Standard 61 Certification**

SEAMLESS-ABSOLUTE RATED

BOS Gradient Filter Elements

Item # **BOSG50PM2P**

Code	BOS = Seamless Polypropylene
Type of Filter	G = Gradient
Micron Rating	See specifications
Cover	PM = Polypropylene
Size	2
Ring	P = Polypropylene

Item # **BOSG50PP2PG61**

Code	BOS = Seamless Polypropylene
Type of Filter	G = Gradient
Micron Rating	See specifications
Cover	PP = Special NSF Construction
Size	2
Ring	P = Polypropylene
Suffix	G61 = NSF 61 Certified



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Mesh Filter Bags

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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Mesh Filter Bags

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]