High Efficiency Bag Specifications and Materials

Liquid bag filters in a large range of micron ratings as well as in the standard #1, #2, #3 and #4 sizes to fit your filter bag requirements. Choose from nylon monofilament mesh, polypropylene felt, and polyester felt media replacement filters. Our different fabric bag filters allow you to find the heavy-duty filtration you need for oils and lubricants, organic solvents, paints, acids, alkalis, water and more.

High Efficiency Bag Materials

- Polyproylene Microfiber materials provide high efficiencies at low.
- micron ratings. The optional addition of a needle punched felt layer provides a prefilter zone and results in extended life.
- This multilayer technology option results in a true graded density.
- material with high performance levels. The filters are made from pure polypropylene and are free of potentially damaging silicone oils.

Liquid filter bag specifications

MATERIALS	
Filter Media	Needle Felt Polypropylene Needle Felt Polyester
Ring	Polypropylene SS 304
Sealing	Welded, Welded and Sewn

RETENTION RATINGS	
Polypropylene	1, 5, 10, 25, 50, 100,200 µm
Polyester	1, 5, 10, 25, 50, 100,200 µm

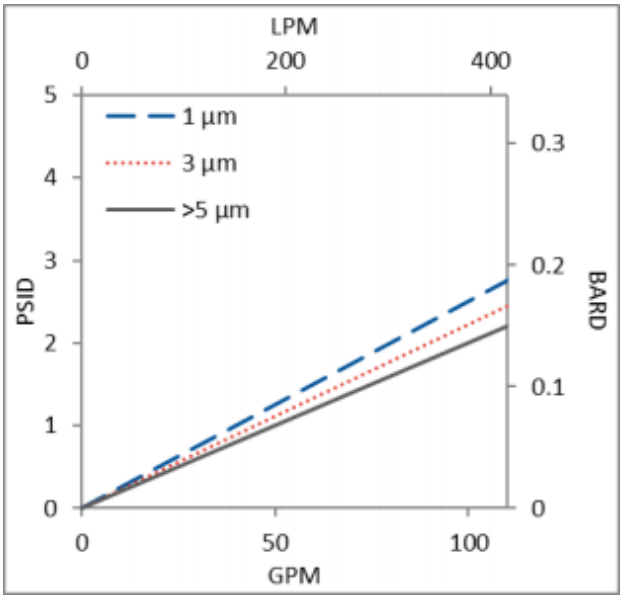
Compatibility and Temperature Limits for Standard Bag Materials

Fabric	Organic Solvents	Animal, Vegetable and Petro Oils	Microorganisms	Alkalis	Organic Acids	Oxidizing Agents	Mineral Acids	Temperature Limitations (maximum degrees)
Polypropylene	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Good	93 °C (200 °F)
Polyester	Excellent	Excellent	Excellent	Good	Good	Good	Good	149 °C (300 °F)
Nylon	Excellent	Excellent	Excellent	Good	Fair	Poor	Poor	163 °C (325 °F)

Suggested sizes for filter bags and typical liquid flow rates

Size	Diameter		Length		Filtration Surface Area (m2/h)	Flow Rate
	mm	inch	mm	inch		m2
#1 (7" x 17") Filter Bag	180	7	430	17	0.25	20
#2 (7" x 32") Filter Bag	180	7	810	32	0.5	40
#3 (4" x 9") Filter Bag	102	4	230	9	0.09	6
#4 (4" x 15") Filter Bag	102	4	380	15	0.16	12

Flow Rate for Typical CB Bag Filters by Pore Size



The flow rate of the cartridge filter is suitable for a single #2 bag filter. The test fluid is water at ambient temperature. The recommended flow rate for the #2 bag does not exceed 110 GPM.

Application

- Water
- Food & Beverage
- Oil
- Coolants
- Chemicals
- Electronics
- Inks/Paints/Coatings
- Pulp & Paper

Particle Removal Efficiency Chart – HA Media

Micron Rating	1µm	3µm	5µm	10µm	25µm
Eff @98%	2	2.5	5	18	28
Eff @95%	1	2	3.5	9.5	25
Eff @90%	0.9	1.5	2	7	18
Eff @75%	<0.9	<1.0	1	5	10

Dirt Holding Capacity (grams)

1 µm	3 µm	5 µm
244	310	455

High Efficiency Bag information

Micron ratings from 1 to 200 All industry-standard and custom sizes available Broad chemical compatibility High flow/low pressure drop media Sewn or fully-welded construction Handles standard on all bags Choice of steel or molded plastic snap seal rings