

## Performance Data

### Loading Capacity

Product Number	123	124	125	126	128
Dirt - Grams at 25 gpm (5.6 cu m/hr)	125	121	146	155	351
Oil – Grams at saturation**	1385	2280	2050	1640	2845

\*\* mineral oil

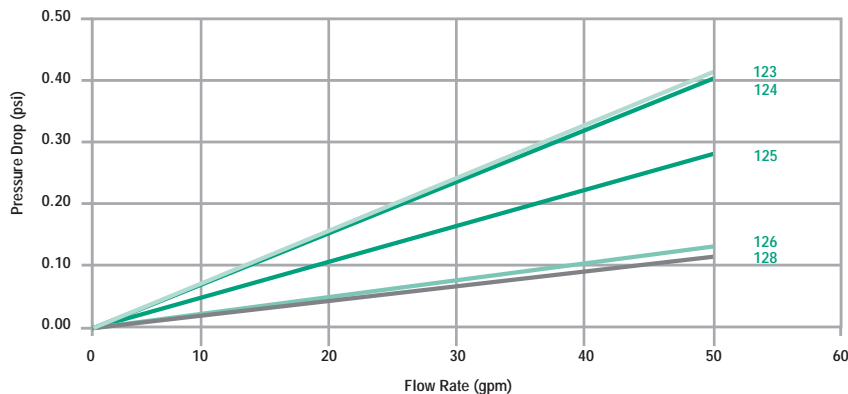
**Loading:** Loading capacity is extremely high due to the large amount of surface area available. The data above shows typical loading capacities of the different micron rated filters. Loading capacity is determined by challenging a filter with a dispersion of silica test dust in water at the recommended flow rate. Pressure drop is monitored and testing terminated at 35 psid (2.4 bar). The loading capacity reported is dry weight gain of the bag.

### Particle Removal Efficiency

Product Number	123	124	125	126	128
Efficiency @ 95%	1.5	2.5	7.5	10.0	34.0
Efficiency @ 90%	1.3	1.3	6.5	8.0	29.0
Efficiency @ 75%	0.9	1.0	2.5	7.0	21.0
Efficiency @ 50%	<0.7	<1.0	<1.0	4.5	7.0

**Efficiency:** The 3M™ High Performance Filter Bags are rated using a silica test challenge in water at 25 gpm (5.7 cu m/hr). The results reported are typical initial efficiencies taken within ten minutes of the start of the test and are cumulative data. For more information on how 3M conducts its filter efficiency testing, please see “Defining Filter Efficiency”; a 3M Technical Report available from your local distributor.

### Clean Pressure Drop Versus Flow Rate (psid)



**Pressure Drop:** The 3M High Flow Filter Cartridges have low initial pressure drop ( $\Delta p$ ) in water as the chart indicates. The chart does not include the pressure drop of a typical single vessel to assist you in sizing your filter system.

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### Filtration Products

3M Center, Building 60-1S-16  
St. Paul, MN 55144-1000  
800-648-3550



85% Pre-consumer waste paper  
15% Post-consumer waste paper

## Product Specifications

### Micron Ratings:

Product Number	Initial Efficiency
113 & 123	1.5 micron @ 95%
114 & 124	2.5 micron @ 95%
115 & 125	7.5 micron @ 95%
116 & 126	10 micron @ 95%
118 & 128	34 micron @ 95%

### Dimensions (Nominal):

#### Outer diameter:

7 inches 17.8 cm

#### Length:

16 inches 40 cm  
(110 Series - #1 length)  
32 inches 81 cm  
(120 Series - #2 length)

### A & B Sealing ring:

Available in "A" and "B" rings sizes. Check with your local distributor for proper size to fit your vessel.

### Operating Condition:

#### Maximum Operating Temperature:

180F 82C

#### Recommended Flow:

(for normal loading in water)

25 gpm 5.7 cu m/hr

#### Suggested Maximum Flow: (in water)

50 gpm 11 cu m/hr

#### Suggested Maximum Differential

#### Pressure:

35 psid 2.4 bar

### Order Information

To order contact your local 3M Filtration Products distributor or call toll free 1-800-648-3550.



# High Performance Liquid Filter Bag

## Series 100

### Technical Data



### Features, Advantages and Benefits

The 3M™ Series 100 High Performance Liquid Filter Bag is constructed of polypropylene melt blown microfibers, allowing for very fine particle capture at high efficiencies. All 3M Brand Series 100 Liquid Filter Bags are over 90% efficient at their suggested application rating. The 3M filter offers an excellent balance of high efficiencies with very low initial pressure drops. The bag construction makes this filter an easy to use, convenient, high performance alternative to filter cartridges.

The 3M Series 100 Liquid Filter Bag can also absorb unwanted trace oils that frequently occur in processed fluids. The high amount of surface area due to the polypropylene microfiber construction, results in oil holding capacities from 10-20 times the filter's own weight.

For more information, please call your 3M sales or technical service representative toll free, (800) 648-3550.

### Materials of Construction

#### Filter Media:

Meltblown polypropylene microfiber filter media provides high particle removal efficiency for high quality filtration with broad chemical compatibility and is silicone free.

The filter complies with FDA regulations governing food grade materials allowed for direct food contact in food and beverage processing.

#### Sealing Ring:

Available in the following:

- "A" - Stainless Steel
- "B" - Polypropylene

### Applications

#### Prefilters or final filters for:

- Acids and bases
- Amines
- Beer and wine
- Carbon beds
- Completion fluids
- Deep wells
- Desalination
- DI resins
- Edible oils
- EDM fluids
- Fructose
- Glycol
- Groundwater clean-up
- Laundry water
- Liquor
- Machine coolants
- Magnetic media
- Makeup water
- Organic solvents
- Photo chemicals
- Plating solutions
- RO membranes
- Storm water
- UF membranes
- Ultrapure water
- Wastewater
- Waterflood
- Workover fluids