

## Series 100 - High Performance Liquid Filter Bags



The 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 adsorb 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.

### APPLICATIONS

#### Prefilters or Final Filters for:

- Acids and bases
- Amines
- Carbon beds
- Completion fluids
- Deep wells
- Desalination
- DI resins
- Glycol
- Groundwater clean-up
- Machine coolants
- Makeup water
- Organic solvents
- Photo chemicals
- Plating solutions
- RO membranes
- Storm Water
- Wastewater
- Waterflood

### MATERIALS OF CONSTRUCTION

#### Filter Media:

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

No silicone is intentionally used in materials of construction or in manufacturing.

The raw materials composing these filters are FDA compliant according to CFR Title 21.

#### Sealing Ring:

Available in "A" - Stainless Steel, and "B" - Polypropylene.

### PERFORMANCE DATA

#### Loading Capacity

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

**Loading:** 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 is terminated at 35 psid (2.4 bar). The loading capacity reported is the dry weight gain of the bag.

#### Particle Removal Efficiency (microns)

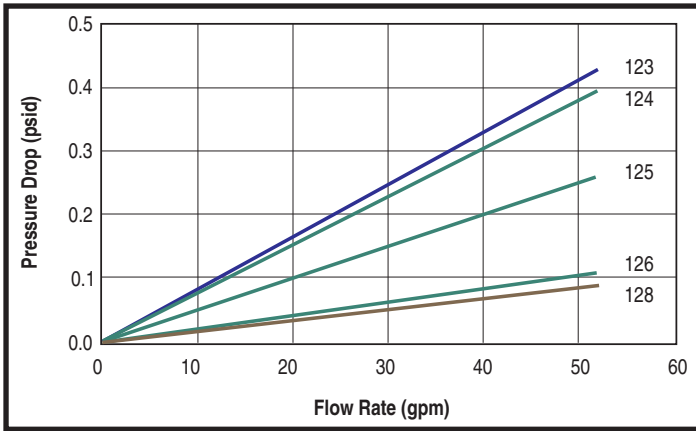
Product Number	123	124	125	126	128
Efficiency @95%	1.5	2.5	7.5	10.0	34.0
Efficiency @90%	1.3	1.3	6.5	8.0	29.0
Efficiency @75%	0.9	1.0	2.5	7.0	21.0
Efficiency @50%	<0.7	<1.0	<1.0	4.5	7.0

**Efficiency:** The Series 100 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.

### OPERATING CONDITIONS

Maximum Operating Temperature	180° F (82° C)
Recommended Flow (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)

## CLEAN PRESSURE DROP VERSUS FLOW RATE (PSID)



**Pressure Drop:** The Series 100 High Performance Filter Bags have low initial pressure drop ( $\Delta p$ ) in water as the chart indicates. The chart includes the pressure drop of a typical single vessel to assist you in sizing your filter system.

## DISPOSAL

Disposal of used filter bags must comply with applicable federal, state and local laws and regulations.

### Important Notice

CUNO MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Since a variety of factors can affect the use and performance of a CUNO product in a particular application, some of which are uniquely within the user's knowledge and control, user is responsible for determining whether or not the CUNO product is fit for a particular purpose and suitable for user's method of application.

## PRODUCT SPECIFICATIONS

Product Model Number	Sealing Ring Material	Micron Rating Initial Efficiency	Part Number	Length	Outer Diameter	Cartridges per Case
113A	Stainless Steel	1.5 micron @ 95%	70-0202-2775-0	110 Series #1 Size: 16 in (41 cm)	7 in (18 cm)	10
113B	Polypropylene		70-0202-2776-8			
114A	Stainless Steel	2.5 micron @ 95%	70-0202-2778-4			
114B	Polypropylene		70-0202-2779-2			
115A	Stainless Steel	7.5 micron @ 95%	70-0202-2781-8			
115B	Polypropylene		70-0202-2782-6			
116A	Stainless Steel	10 micron @ 95%	70-0202-2784-2			
116B	Polypropylene		70-0202-2785-9			
118A	Stainless Steel	34 micron @ 95	70-0202-2787-5			
118B	Polypropylene		70-0202-2788-3			
123A	Stainless Steel	1.5 micron @ 95%	70-0202-2790-9	120 Series #2 Size: 32 in (81 cm)	7 in (18 cm)	10
123B	Polypropylene		70-0202-2791-7			
124A	Stainless Steel	2.5 micron @ 95%	70-0202-2793-3			
124B	Polypropylene		70-0202-2794-1			
125A	Stainless Steel	7.5 micron @ 95%	70-0202-2796-6			
125B	Polypropylene		70-0202-2797-4			
126A	Stainless Steel	10 micron @ 95%	70-0202-2799-0			
126B	Polypropylene		70-0202-2800-6			
128A	Stainless Steel	34 micron @ 95	70-0202-2802-2			
128B	Polypropylene		70-0202-2803-0			

## WARRANTY

Seller warrants its equipment against defects in workmanship and material for a period of 12 months from date of shipment from the factory under normal use and service and otherwise when such equipment is used in accordance with instructions furnished by Seller and for purposes disclosed in writing at the time of purchase, if any. Any unauthorized alteration or modification of the equipment by Buyer will void this warranty. Seller's liability under this warranty shall be limited to the replacement or repair, F.O.B. point of manufacture, of any defective equipment or part which, having been returned to the factory, transportation charges prepaid, has been inspected and determined by the Seller to be defective. THIS

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