Industrial filtration

Liquid filter bags

The Thermo Scientific™ 100 Series Filter Bag is constructed of polypropylene melt blown microfibers, allowing capture of very fine particles. The filter offers an excellent balance of high efficiencies with low initial pressure drops. The convenient bag construction makes this filter easy to use.

The 100 series 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 enhances the filter bag's oil holding capacities.

Applications

- Acid and bases
- Amines
- Carbon beds
- Completion fluids
- Deep wells
- Desalination
- Glycol
- Machine coolants
- Makeup water
- Organic solvents
- Plating solutions
- Wastewater
- Waterflood
- Groundwater clean-up
- Food and beverage

Construction materials

Filter media

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

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

Sealing ring

Available in "A" — stainless steel, and "B" — polypropylene.
Available in "P" — polypropylene collar (only on 128 grade).

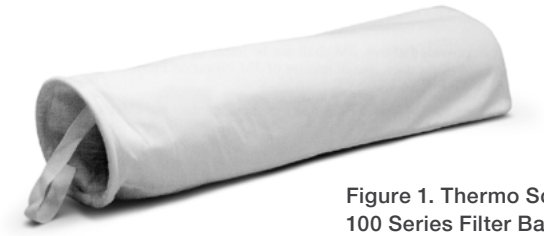


Figure 1. Thermo Scientific™ 100 Series Filter Bag

Loading

Table 1 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.

Table 1. Thermo Scientific™ 100 Series Filter bags typical loading capacity (g)

Model	123	124	125	126	128
Dirt @ 25 gpm (5.6 m^3/h)	0.27 lb 125 g	0.27 lb 121 g	0.32 lb 146 g	0.34 lb 155 g	0.77 lb 351 g
Mineral oil @ saturation	3.05 lb 1385 g	5.03 lb 2280 g	4.52 lb 2050 g	3.61 lb 1640 g	6.27 lb 2845 g

Table 2. Thermo Scientific™ 100 Series Filter bags operating parameters

Maximum temperature	180°F (82°C)
Recommended flow (in water)	25 gpm (5.7 m^3/h)
Suggested maximum flow (in water)	50 gpm (11 m^3/h)
Suggested maximum differential pressure	35 psid (2.4 bar)

* Certain 100 series filter bag products are compliant with US 21 CFR. Contact your Thermo Fisher Scientific Inc. representative for detailed declaration of compliance information for food contact applications.

Disposal

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

Table 3. Thermo Scientific™ 100 Series Filter Bag ordering guide

Model	Sealing ring material	Sealing ring diameter	Micron rating initial efficiency	Part number	Length	Bags/ case
114A	Stainless steel	7.03 in (178.5 mm)	2.5 um @ 95%	70-0202-3729-6	110 Series #1 Size: 17 in (431.8 mm)	10
116A	Polypropylene	7.03 in (178.5 mm)	10 µm @ 95%	70-0202-3732-0		
118A	Stainless steel	7.03 in (178.5 mm)	34 µm @ 95%	70-0202-3734-6		
123A	Stainless steel	7.03 in (178.5 mm)	1.5 µm @ 95%	70-0202-2790-9	100 Series #2 Size: 32 in (814 mm)	10
123B	Polypropylene	7.20 in (182.9 mm)		70-0202-3736-1		
123D	Stainless steel	7.00 in (177.8 mm)*		70-0202-3737-9		
124A	Stainless steel	7.03 in (178.5 mm)	2.5 µm @ 95%	70-0202-3738-7		
124B	Polypropylene	7.20 in (182.9 mm)		70-0202-3739-5		
124D	Stainless steel	7.00 in (177.8 mm)*		70-0202-3740-3		
125A	Stainless steel	7.03 in (178.5 mm)	7.5 µm @ 95%	70-0202-3874-0		
125B	Polypropylene	7.20 in (182.9 mm)		70-0202-3741-1		
125D	Stainless steel	7.00 in (177.8 mm)*		70-0202-2798-2		
126A	Stainless steel	7.03 in (178.5 mm)	10 µm @ 95%	70-0202-3742-9		
126B	Polypropylene	7.20 in (182.9 mm)		70-0202-3743-7		
126D	Stainless steel	7.00 in (177.8 mm)*		70-0202-2801-4		
128A	Stainless steel	7.03 in (178.5 mm)	34 µm @ 95%	70-0202-3744-5		
128B	Polypropylene	7.20 in (182.9 mm)		70-0202-3745-2		
128D	Stainless steel	7.00 in (177.8 mm)*		70-0202-2804-8		
128P	Polypropylene Collar	7.20 in (182.9 mm)		70-0202-9267-1		8

* European version

Intended Use: 100 series filter bags are intended for use in industrial, chemical, electronics and food and beverage filtration applications of aqueous and non-aqueous fluids in accordance with the product instructions, specifications and where materials of construction are compatible.

Certain 100 series filter bags are compliant for use in Food and Beverage applications. For specific details regarding use or limitations for food contact applications please contact your Thermo Fisher Scientific Inc. representative for more information.

Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the Thermo Scientific product is suitable and appropriate for the user's specific application, including user risk assessments and evaluation of the Thermo Scientific product in the user's application.

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