

Fulflo® EcoBond™ Filter Cartridges

High-Purity Filtration with Low-Cost
Melt Blown Depth Cartridges

Parker's Fulflo® EcoBond™ Cartridges are the most economical high purity filter cartridges available. Featuring a graded density matrix of uniform polypropylene fibers, the EcoBond™ provides consistent filtration for a wide variety of fluids. No fiber finish or surfactants are present to generate extractables leading to foaming or other undesirable effects on the filtrate.

Fulflo EcoBond™ Cartridges are available in nominal ratings of 1µm, 5µm, 10µm, 25 µm and 50µm.



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Benefits

- Thermally bonded melt blown fiber matrix provides dimensionally stable construction
- Continuous fiber matrix prevents media migration and ensures consistent quality filtration performance
- Finish-free construction provides optimum fluid purity and eliminates foaming condition
- Superior inter-layer bonding eliminates contaminant unloading and channeling
- FDA grade polypropylene (DOE only) certified to ANSI/NSF61 standard for contact with drinking water components
- Narrow range fiber size optimizes consistency of filtration performance
- Polypropylene construction provides broad chemical compatibility for a variety of applications
- All materials of construction are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21
- Single component construction simplifies compatibility options and provides easy disposal

Applications

- Photographic Chemicals
- DI Water
- Plating Solutions
- R.O. Pre-filtration
- Membrane Pre-filtration
- Organic Solvents
- Oil field Fluids
- Bleach
- Potable Water
- Chemical Processing Fluids

Fulflo® EcoBond™ Filter Cartridges

Specifications

Materials of Construction:

Filter Medium

100% melt blown polypropylene

End Caps/Adapters (optional)

Polyolefin copolymer

Seal Options

Various; refer to Ordering Information

Maximum Recommended Operating Conditions:

Temperature

@ 40psid (2.7bar): 80°F (27°C)

@ 20psid (1.4bar): 140°F (60°C)

Flow Rate

5gpm (18.9 lpm) per 10 in length

Recommended Maximum:

Change Out ΔP: 30psi (2.1bar)

Operating Differential Pressure @ Ambient

Temperature: 40psi (2.7bar)

Dimensions:

1 1/16 in ID x 2 7/16 in OD (max)

10, 20, 30, 40 and 50 in continuous

nominal lengths

Nominal Filtration Ratings (90%):

1µm, 5µm, 10µm, 25µm, and 50µm

EBC Flow Factors

Rating (µm)	Aqueous Service psi/gpm per 10 in cartridge
EBC1	0.10
EBC5	0.08
EBC10	0.07
EBC25	0.06
EBC50	0.05

EBC Length Factors

Length (in)	Length Factor
9.75	1.0
10.00	1.0
19.50	2.0
20.00	2.0
29.25	3.0
30.00	3.0
39.00	4.0
40.00	4.0
50.00	5.0

Flow Rate and Pressure Drop Formulas

$$\text{Flow Rate (gpm)} = \frac{\text{Clean } \Delta P \times \text{Length Factor}}{\text{Viscosity} \times \text{Flow Factor}}$$

$$\text{Clean } \Delta P = \frac{\text{Flow Rate} \times \text{Viscosity} \times \text{Flow Factor}}{\text{Length Factor}}$$

1. Clean ΔP ispsi differential at start.
2. Viscosity is centistokes. Use Conversion Tables for other units.
3. Flow Factor is ΔP/GPM at 1cks for 10 in (or single).
4. Length Factors convert flow or ΔP from 10 in (single length) to required cartridge length.

Ordering Information

Cartridge Code		Micrometer Rating (µm)	Nominal Length			End Cap Configuration		Seal Material	
EBC	EcoBond		CODE	INCHES	MM	CODE	DESCRIPTION	CODE	MATERIAL
		1				None	DOE (w/o gaskets)	None	No Seal Material (Std. DOE)
		5	9-4	9¾"	248	AR	020/Flat (Gelman)	A	Poly Foam Gaskets w/Collars (DO only)
		10	10	10"	254	DO	DOE	E	EPR
		15	19-4	19½"	495	LL	120 O-ring both ends**	N	Buna-N
		25	20	20"	508	LR	120 O-ring/Recessed**	S	Silicone (O-ring only)
		50	29-4	29¼"	743	OB	Std. open end/Polypropylene spring closed end	T	PFA Encapsulated Viton® (222, 226 O-ring only)
			30	30"	762	PR	213 O-ring/Recessed**	V	Viton®
			39-4	39"	991	SC	226 O-ring/Flat	W	Poly Foam Gaskets w/o Collars (DO only)
			40	40"	1016	SF	226 O-ring/Fin		
			50	50"	1270	TC	222 O-ring/Flat		
						TF	222 O-ring/Fin		
						TX	222 O-ring/Flex Fin		
						XA	DOE w/Extended Core		
						XB	Ext. core open end/Polypropylene spring closed end		

**Available only in 9-3/4" (9-4) and 19-1/2" (19-4) lengths.

Specifications are subject to change without notification.
For User Responsibility Statement, see www.parker.com/safety



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