Fulflo® MegaBond™ Nominal Filter Cartridges

High-purity filtration with low-cost melt blown depth filter cartridges

Fulflo® MegaBond™ Nominal (MBN) cartridges are the most economical high purity filter cartridges available. Featuring a graded density matrix of uniform polypropylene fibers, the MBN 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.

Available in nominal ratings of .5, 1, 5, 10, 25, 50 and 75 micron.



Contact Information

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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) designed to conform to ANSI/NSF42 & NSF61 standards
- 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® MegaBond™ Nominal 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 $\frac{1}{16}$ in. ID x 2 $\frac{7}{16}$ in OD (max) 10, 20, 30, 40 and 50 in. continuous nominal lengths

Nominal Filtration Ratings (90%)

.5μm, 1μm, 5μm, 10μm, 25μm, and 50μm

MBN Flow Factors

Rating (µm)	Aqueous Service psi/gpm per 10 in cartridge
MBN05	0.15
MBN1	0.13
MBN5	0.11
MBN10	0.10
MBN25	0.09
MBN50	0.05
MBN75	0.03

Flow Rate and Pressure Drop Formulas

Flow Rate (gpm) = Clean $\Delta P \times Length Factor$ Viscosity x Flow Factor

Clean ΔP = Flow Rate x Viscosity x Flow Factor Length Factor

Notes:

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

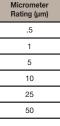
MBN Length **Factors**

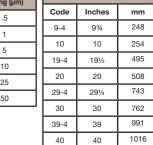
1 401013				
Length (in)	Length Factor			
9.75	1.0			
10.00	1.0			
19.50	2.0			
20.00	2.0			
29.25	3.0			
30.00	3.0			
39.00	4.0			
40.00	4.0			
50.00	5.0			

Ordering Information









Nominal Length			
Code	Inches	mm	
9-4	9%	248	
10	10	254	
19-4	19½	495	
20	20	508	
29-4	291/4	743	
30	30	762	
39-4	39	991	
40	40	1016	
50	50	1270	
75	75	1905	

	Code	Description	
]	None	DOE (w/o gaskets)	
	AR	020/Flat (Gelman)	
	DO	DOE	
]	LL	120 O-ring both ends**	
	LR	120 O-ring/Recessed**	
7	ОВ	Std. open end/Polypropylene spring closed end	
┨	PR	213 O-ring/Recessed**	
┨	SC	226 O-ring/Flat	
┨	SF	226 O-ring/Fin	
_	ТВ	222 open end/Polypropylene spring closed end	
	TC	222 O-ring/Flat	
	TF	222 O-ring/Fin	
	TX	222 O-ring/Flex Fin	
	XA	DOE w/Extended Core	

End Cap Configuration

Ext. core open end/Polypropylene spring closed end



Seal Material		
Code	Material	
None	No Seal Material (Std. DOE)	
А	Poly Foam Gaskets w/ Collars (DO only)	
Е	EPR	
N	Buna-N	
S	Silicone	
Т	PFA Encapsulated Viton® (222, 226 O-ring only)	
V	Viton®	
W	Poly Foam Gaskets w/o Collars (DO only)	

Specifications are subject to change without notification. For User Responsibility Statement, see www.parker.com/safety © 2017 Parker-Hannifin Corporation Bioscience Division - North America All Rights Reserved

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