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 0.5, 1, 5, 10, 25, 50 and 75 micron.

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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
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 7/16 in. ID x 2 7/16 in OD (max)
10, 20, 30, 40 and 50 in. continuous nominal lengths

Nominal Filtration Ratings (90%)
0.5, 1, 5, 10, 25, 50 and 75 microns

Flow Rate and Pressure Drop Formulas
Flow Rate (gpm) = Clean ΔP x Length Factor
Viscosity x Flow Factor
Clean ΔP = Flow Rate x Viscosity x Flow Factor
Length Factor

Notes:
1. Clean ΔP is psi 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

<table>
<thead>
<tr>
<th>Cartridge Code</th>
<th>Micrometer Rating (µm)</th>
<th>Nominal Length</th>
<th>End Cap Configuration</th>
<th>Seal Material</th>
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<tbody>
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<table>
<thead>
<tr>
<th>MBN Flow Factors</th>
<th>MBN Length Factors</th>
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<td>Rating (µm)</td>
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<table>
<thead>
<tr>
<th>Flow Rate Formula</th>
<th>Pressure Drop Formula</th>
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</thead>
<tbody>
<tr>
<td>Flow Rate (gpm) = Clean ΔP x Length Factor</td>
<td>Clean ΔP = Flow Rate x Viscosity x Flow Factor x Length Factor</td>
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</table>

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