# 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 .5µm, 1µm, 5µm, 10µm, 25 µm and 50µm.

## 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

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ENGINEERING YOUR SUCCESS.

# 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 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%)

.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 |

**MBN 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

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

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

**Notes:**
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

**MBN** [ ] **M** [ ] — [ ] — [ ]

| Cartridge Code | |
|---|---|
| MBN | MegaBond Nominal |

| Micrometer Rating (µm) |
|---|
| .5 |
| 1 |
| 5 |
| 10 |
| 25 |
| 50 |

| Nominal Length | | |
|---|---|---|
| Code | Inches | mm |
| 9-4 | 9¾" | 248 |
| 10 | 10" | 254 |
| 19-4 | 19½" | 495 |
| 20 | 20" | 508 |
| 29-4 | 29¼" | 743 |
| 30 | 30" | 762 |
| 39-4 | 39" | 991 |
| 40 | 40" | 1016 |
| 50 | 50" | 1270 |

| End Cap Configuration | |
|---|---|
| Code | Description |
| None | DOE (w/o gaskets) |
| AR | 020/Flat (Gelman) |
| DO | DOE |
| LL | 120 O-ring both ends** |
| LR | 120 O-ring/Recessed** |
| OB | Std. open end/Polypropylene spring closed end |
| PR | 213 O-ring/Recessed** |
| SC | 226 O-ring/Flat |
| SF | 226 O-ring/Fin |
| TB | 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 |
| XB | Ext. core open end/Poly-propylene spring closed end |

**Available only in 9-¾" (9-4) and 19-½" (19-4) lengths.

| Seal Material | |
|---|---|
| Code | Material |
| None | No Seal Material (Std. DOE) |
| A | Poly Foam Gaskets w/ Collars (DO only) |
| E | EPR |
| N | Buna-N |
| S | Silicone (O-ring only) |
| T | 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

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