**Fulflo® ProBond™ Filter Cartridges**
Patented break-through in resin-bonded cartridge design

Parker ProBond™ cartridges have a unique, proprietary two-stage filtration design to maximize particle retention and service life in viscous fluid filtration applications. An outer, spiral, prefilter wrap, made from a fiber blend of polyester and acrylic, increases cartridge strength and eliminates residual debris associated with conventional or machined and grooved, resin bonded cartridges.

ProBond filter cartridges are available in eight differentiated removal ratings of 2μm, 5μm, 10μm, 25μm, 50μm, 75μm, 125μm and 150μm pore sizes to meet a wide range of performance requirements.

**Benefits**
- Outer, spiral wrap collects large particles and agglomerates, while inner layers control particle removal at rated size
- Outer wrap increases surface area, & eliminates loose debris and contamination caused by machined products
- Extra-long acrylic fibers provide added strength, resist breakage and migration common with competitive “short fiber” cartridges
- Available with optimal single-open-end seals (222 o-ring with flat cap) in ABS or nylon
- Phenolic resin impregnation strengthens cartridge for use with high viscosity fluid
- Withstands pressure surges up to 150psid across cartridge (depending on fluid temperature)
- One-piece construction eliminates bypass concerns with multi-length cartridges and eases change out
- Silicone-free construction ensures no contamination to adversely affect adhesion properties of coatings

**Applications**
- Paints
- Printing Inks
- Adhesives
- Resins
- Emulsions
- Chemical Coatings
- Organic Solvents
- Plasticizers
- Waxes
- Oil & Gas Fluids
- Petroleum Products

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Fulflo® ProBond™ Filter Cartridges

SPECIFICATIONS

Materials of Construction
1st stage Pre-filter wrap:
• Polyester/Acrylic long staple fiber blend
2nd stage Final Filter wrap:
• Acrylic long staple fiber
• Fibers impregnated with Phenolic Resin

Type of Construction
Coreless, one-piece, rigid resin bonded fibrous matrix

Maximum Recommended Operating Conditions
• Flow Rate: 5gpm per 10 in length (18.9 lpm per 254 mm length)
• Temperature: 250°F (121°C)
• Maximum Recommended Change Out ΔP: 50psid (3.5bar)
• Recommended Maximum Differential Pressure:
  - Cartridge Pressure Resistance
    - 150psid (10bar) @ 70°F (21°C)
    - 125psid (8.6bar) @ 100°F (38°C)
    - 90psid (6.2bar) @ 150°F (65°C)
    - 65psid (4.5bar) @ 180°F (82°C)
    - 25psid (1.7bar) @ 250°F (121°C)

Dimensions, in. (mm)
Outside Diameter: 2-7/16 in (65)
Inside Diameter: 1-1/8 in (28.6)
Lengths: Nominal, 10, 20, 30 and 40 in.

Environmental/Chemical Compatibility
Classified as a nonhazardous material
• Incinerable (8000 BTU/lb)
• Crushable and shredable
• Certified silicone-free
• Suitable for weak acids and bases (pH 5-9)
• Unsuitable for oxidizing agents
• Not recommended for FDA applications

End Adapters
• None on double open end style
• ABS (Acrylonitrile Butadiene Styrene) for most applications
• Nylon (NTC) for aromatic solvents

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 x Length Factor

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

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