Nova Filtration Technologies

RESIN-BONDED CARTRIDGES

FULFLO® PROBOND™ CARTRIDGE DESIGN

FEATURES:

- Outer Spiral Wrap Collects Large Particles & Agglomerates
- Inner Layers Control Particle Removal At Rated Size
- Outer Wrap Increases Surface Area & Eliminates Loose Debris & Contamination Caused By Machined Products
- Extra-long Acrylic Fibers Provide Added Strength, Resist Breakage & Migration Common With Competitive "Short Fiber" Cartridges
- Available With Optimal Single Open-End Seals (222 O-Ring With Flat End Cap) In ABS Or Nylon
- Phenolic Resin Impregnation Strengths Cartridge For Use With High Viscosity Fluid
- Withstands Pressure Surges Up To 150 PSID Across Cartridge (Depending On Fluid Temperature)
- One-Piece Construction Eliminates Bypass Concerns With Multi-Length Cartridges & Eases Change Out
- Silicone-Free Construction Ensures No Contamination To Adversely Affect Adhesion Properties Of Coatings

APPLICATIONS:

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

SPECIFICATIONS:

- **Material of Construction**:
  - First Stage Pre-Filter Wrap: Polyester/Acrylic Long Staple Fiber Blend
  - Second Stage Final Filter Wrap: Acrylic Long Staple Fiber & Fibers Impregnated With Phenolic Resin
- **Type of Construction**: Coreless, One-Piece, Rigid Resin Bonded Fibrous Matrix
- **Dimensions**: 2 9/16" Outside Diameter, 1 1/8" Inside Diameter
- **Maximum Operating Conditions**: 5 GPM Per 10" Length
- **Maximum Allowable Temperature**: 250°F (121°C)
- **Maximum Recommended Change Out** △**P**: 50 PSID (3.5 Bar)

Maximum Differential Pressure
150 PSID (10 Bar) @ 70°F (21°C)
125 PSID (8.6 Bar) @ 100°F (38°C)
90 PSID (6.2 Bar) @ 150°F (65°C)
65 PSID (4.5 Bar) @ 180°F (82°C)
25 PSID (1.7 Bar) @ 250°F (121°C)

1-1367 Osprey Drive, Ancaster ON L9G4V5 Ph: (905)-304-8157 Fax: (905)304-9227 info@novafiltrationtech.com

Visit Nova Filtration Technologies' website for all your filtration needs. www.novafiltrationtech.com

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SPECIFICATIONS:

- Environmental/Chemical Compatibility:
  - Classified As A Non-Hazardous Material
  - Incinerable (8000 BTU/LB)
  - Crushable & Shred-able
  - Certified Silicone-Free
  - Suitable For Weak Acids & Bases (pH 5-9)
  - Unsuitable For Oxidizing Agents
  - Not Recommended For FDA Applications

FLOW FACTORS	
RATING (µm)	FACTORS
2	0.08
5	0.04
10	0.02
25	0.012
50	0.01
75	0.006
125	0.0013
150	0.0010

LENGTH FACTORS	
LENGTH (in)	FACTORS
9	1.0
10	1.0
19	2.0
20	2.0
29	3.0
30	3.0
39	4.0
40	4.0

FLOW RATE & PRESSURE DROP FORMULA:

1. Clean P ispsi Differential At Start
2. Viscosity Is Centistokes. (Use Conversion Table For Other Units)
3. Flow Factor is △ P/GPM At 1cks for 10 inch (Or Single)
4. Length Factors Convert Flow Or △ P from 10 inch (Single Length) To Required Cartridge Length

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

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

BUILDING A PART NUMBER

ProBond Series	Micron Rating (µm)	-	Nominal Length (in)	End Cap Configuration	-	Seal Material
PRO	50	-	9			
ProBond = PRO	2		9 3/4" = 9	Standard Double Open End (DOE) & Coreless = BLANK		DOE & XA = BLANK
	5		10" = 10	Extended Tinned Steel Core = CXC		EPR = E
	19		19 1/2" = 19	Tinned Steel Core = C		Buna-N = N
	25		20" = 20	Single Open End 222 O-Ring/Flat Cap (Nylon) = NTC		Silicone O-Ring = S
	50		29 1/4" = 29	Standard Open End/Polypropylene Spring Closed End = OB		PFA Encapsulated Viton®
	75		30" = 30	Single Open End 222 O-Ring Flat Cap (ABS Plastic) = TC		(222/226 O-Ring only) = T
	125		39" = 39	Poly Extender = XA		Viton® = V
	150		40" = 40	Extended Core Open End/Polypropylene Spring Closed End = XB		

*Custom configurations may be available upon request

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