



# PROBOND Depth Filter Cartridges

- resin bonded
- liquid filtration

Parker's PROBOND cartridges have a unique proprietary two-stage filtration design to maximise particle removal and service life in viscous fluid applications.

An outer spiral prefilter wrap increases cartridge strength and eliminates residual debris associated with conventional, machined, resin bonded cartridges. This outer wrap collects large particles and agglomerates whilst the inner layers control the particle removal at the rated size. Construction utilizes a phenolic resin impregnation resulting in a cartridge strong enough for use with fluid viscosities up to 3200 centipoise.

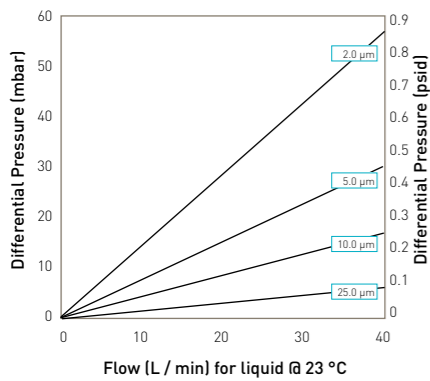
PROBOND filter cartridges are available in eight differentiated removal ratings from 2 to 150 micron pore sizes to meet a wide range of performance requirements.



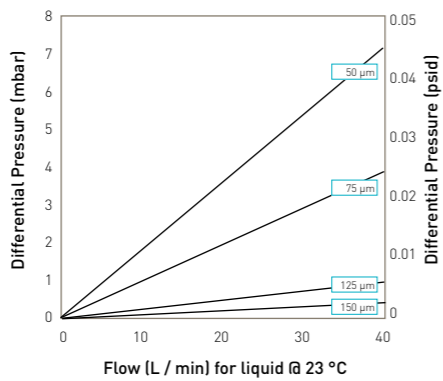
## Features and Benefits

- Outer, spiral wrap collects large particles and agglomerates, while inner layers control particle size
- Silicone-free construction ensures no contamination to adversely affect adhesion properties of coatings
- Extra-long acrylic fibres provide added strength; resist breakage and migration common with short fibre cartridges
- One piece construction eliminates bypass concerns with multi-length cartridges and eases change-out

## Performance Characteristics



10" Size (250 mm) Cartridge



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## Specifications

### Materials of Construction

- 1st Stage Prefilter wrap: Polyester / Acrylic Long staple fibre
- 2nd Stage: Acrylic Long staple fibre Fibres impregnated with Phenolic bonding resin
- End Caps: ABS (Acrylonitrile Butadiene Styrene) or Nylon (NTC)

### Recommended Operating Conditions

Temperature		Max. Forward dP	
°C	°F	(bar)	(psid)
21	70	1.0	0.15
38	100	8.6	0.12
65	149	6.2	0.08
82	180	4.5	0.07
121	250	1.7	0.02

### Environmental / Chemical Compatibility

- Classified as Non-hazardous material Incinerable (18600 KJ / Kg)
- Crushable and shreadable
- Certified silicone free
- Suitable for weak acids and bases (pH 5-9)
- Not suitable for oxidising agents
- Not suitable for FDA applications

## Nomograph for Nominal 10" PROBOND Filter Cartridge



## Applications

- Adhesive coatings
- Organic chemicals
- Polymers synthetic and natural
- Industrial coatings
- Pigment slurries

The nomograph will help in sizing new systems. Once the removal rating, liquid viscosity and allowable pressure loss is known (max. 5psi) feed into the nomograph as shown. The result is the maximum recommended flow rate per 10" element. Dividing the actual flow rate by this number will indicate the minimum number of elements required.

## Ordering Information

Code   Pore Size	Code   Length (Nominal)	Code   End Fitting	Code   Seat Material
2 2 µm	9 9.75" (247 mm)	Blank DOE (w/o Gaskets)	Blank No Seal
5 5 µm	10 10" (254 mm)	XA Poly Extender	E EPR
10 10 µm	19 19.50" (500 mm)	XB Poly Extender / Poly spring closed	S Silicone
25 25 µm	20 20" (508 mm)	TC 2-222 / Flat (ABS)	N Buna-N
50 50 µm	29 29.50" (750 mm)	NTC 2-222 / Flat (Nylon)	T PFA Encapsulated Viton*
75 75 µm	30 30" (762 mm)	C Tinned Steel Core	(222, 226 O-ring only)
125 125 µm	39 39" (1000 mm)	CXC Extended Tinned Steel Core	V Viton*
150 150 µm	40 40" (1016 mm)		W Poly Foam Gaskets

Minimum Box Quantity	
10"	40
20"	20
30"	20
40"	20

**LENNTECH bv**

info@lenntech.com  
www.lenntech.com  
Tel. +31-15-261.09.00  
Fax. +31-15-261.62.89

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