

ProBond™

Depth Filter Cartridges



A Patented Breakthrough in Resin Bonded Cartridge Design

Parker's ProBond™ cartridges have a unique, proprietary* two-stage filtration design to maximise particle removal and service life in viscous fluid filtration applications. An outer, spiral, pre-filter wrap increases cartridge strength and eliminates residual debris associated with conventional, machined, resin bonded cartridges.

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.



Applications:

- Paints and Inks
- Adhesives
- Resins
- Emulsions
- Chemical Coatings
- Organic Solvents
- Petroleum Products
- Oilfield Fluids
- Animal Oils
- Waxes

Product Features:

- Outer, spiral wrap collects large particles and agglomerates, while inner layers control particle removal at rated size
- Phenolic resin impregnation strengthens cartridge for use with fluid viscosities up to 15,000 SSU (3200 CSR).
- 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
- Lower differential pressure reduces power requirements and pump wear and tear
- One-piece construction eliminates bypass concerns with multi-length cartridges and eases change-out

ProBond™

Specifications

Filtration Rating

90% at specified micron rating

Materials of Construction

1ST Stage Pre-Filter wrap: Polyester/
Acrylic, long staple fibre
2ND Stage: Acrylic, long staple fibre
Fibres impregnated with Phenolic
bonding resin
Support Core: Coreless
End Caps: ABS (Acrylonitrile
Butadiene Styrene) or Nylon (NTC)

Maximum Operating Conditions

Max Temperature: 121°C at 1.7 bar
Max Pressure: 10 bar at 21°C
8.6 bar at 38°C
6.2 bar at 65°C
4.5 bar at 82°C
Max Flow Rate: 38 l/min per 10"

Recommended Operating Conditions

Change-Out Pressure: 3.5 bar
Flow Rate: 9.5 l/min per 10"

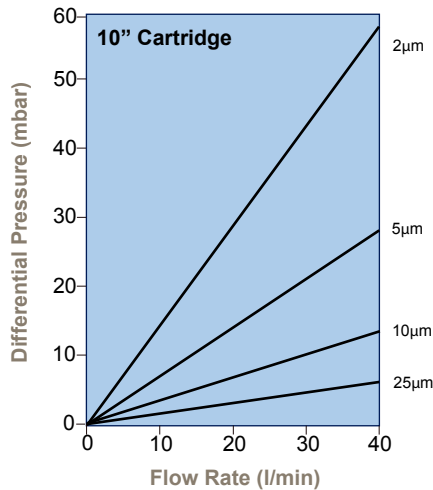
Environmental/Chemical Compatibility

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

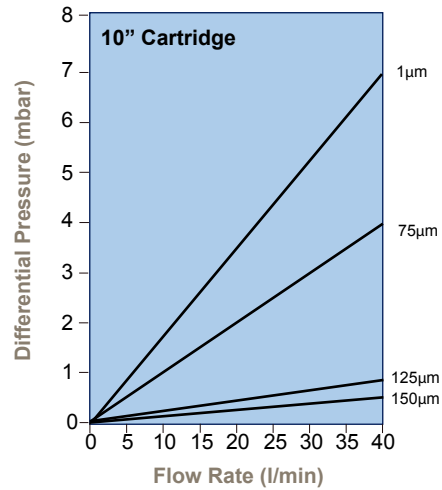
Dimensions

OD: 65 mm
ID: 28.6 mm

Flow rate vs. ΔP
(1 cks liquid @ 23°C)



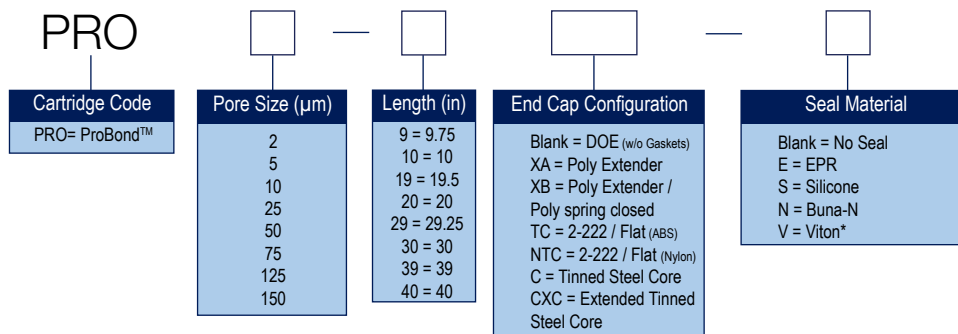
Flow rate vs. ΔP
(1 cks liquid @ 23°C)



Flow Factor Table**

ProBond	2µm	5µm	10µm	25µm	50µm	75µm	125µm	150µm
Flow factor (mbar / l/min @ 1cks)	1.4576	0.7288	0.3644	0.21864	0.1822	0.10932	0.023686	0.01822

Ordering Information:



* - Trademark of E.I. duPont de Nemours & Co.

** - Flow factor required for sizing. Refer to page 62 for further information



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Map and Directions to Prosep Filters Limited



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)