

FulFlo® HoneyComb®

Filter Cartridges



Wound depth filter cartridges for High Dirt Holding Capacity Applications

HoneyComb® cartridges consist of a metal or plastic perforated support core onto which yarn is wound at a pre-set rate, providing each rating of element with its own distinctive winding pattern and performance. FDA and Industrial Grade polypropylene yarns are available for an economical alternative. Fibres such as polyester, cotton, nylon and rayon can operate at higher temperatures and have differing chemical compatibility. For very high temperatures and for very strong oxidising agents, baked glass fibre elements are used.



Applications:

- Animal oils
- Concentrated alkalis
- Dilute acids & alkalis
- Mineral acids
- Organic acids & solvents
- Oxidising agents
- Petroleum oils
- Potable liquids
- Vegetable oils
- Water
- Pre-filter for membranes
- Amines

Product Features:

- Multiple length cartridges minimise change-out time, eliminate spacers and are available to fit competitive filter vessels
- One-piece metal extended centre core option eliminates the need for cartridge guides in all competitive multi-cartridge vessels
- High Dirt Holding Capacity
- A special snap-in extender is available for polypropylene cores
- Cotton, Polypropylene and polyester materials are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21
- Continuous strand winding geometry provides performance consistency

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Specifications

Filtration Rating

90% at specified micron rating

Maximum Operating Conditions

Flow Rate: 38 l/min per 10"

Max Pressure drop: 4.2 bar at 20°C

Max Temperature: See Table Below

Recommended Operating Conditions

Flow Rate: 9.5 l/min per 10"

Max Pressure drop: 2.1 bar at 20°C

All cartridges are individually wrapped

Maximum Operating Temperature @ 2.4 bar

Yarn Material	Metal Core	Polypropylene Core
Cotton	149°C	60°C
Polypropylene	93°C	60°C
Rayon	149°C	60°C
Polyester	121°C	60°C
Glassfibre	399°C	-

Wound Cartridge Flow Factors for Aqueous (Water Based) Fluids** (mbar / l/min @ 1 cks)

	Polypropylene Polyester Nylon	Cotton Rayon	Glass
0.5 µm	18.082	48.447	9.110
1 µm	13.598	36.440	7.652
3 µm	6.067	11.388	6.337
5 µm	4.338	6.625	3.555
10 µm	2.604	3.518	2.605
20 µm	1.636	1.959	1.997
30 µm	1.283	1.558	1.487
50 µm	1.084	1.292	1.235
75 µm	0.980	1.175	1.113
100 µm	0.911	1.137	1.075

flow factor (mbar / l/min @ 1 cks)

Wound Cartridge Flow Factors for Nonaqueous (Solvent or Oil Based) Fluids** (mbar / l/min @ 1 cks)

	Polypropylene Polyester Nylon	Cotton Rayon	Glass
0.5 µm	33.434	25.144	9.110
1 µm	18.220	13.700	7.652
3 µm	10.568	5.471	6.337
5 µm	5.471	3.551	3.555
10 µm	2.367	1.822	2.605
20 µm	1.020	0.638	1.997
30 µm	0.364	0.319	1.487
50 µm	0.257	0.237	1.235
75 µm	0.219	0.182	1.113
100 µm	0.146	0.118	1.075

flow factor (mbar / l/min @ 1 cks)

Nominal Rating/Density Number Equivalent Table

Density Number	6R	8R	10R	11R	12R	13R	14R	15R	17R	19R	21R	23R	27R	39R	blank ^(1,3)
Rating (µm)	150	100	75	50	40	30	25	20	15	10	7	5	3	1	0.5
Baked Glass Rating (µm)	40	30	20	-	15	-	-	10	-	5	-	3	1	0.5	-

Ordering Information:

Yarn Material	Micron Rating ⁽³⁾	Length (in)	OD (mm) ⁽⁵⁾	Core Material	Core Cover ⁽⁶⁾	Treatment ⁽⁶⁾	End Cap Configuration ⁽⁷⁾
Blank / C = Cotton ⁽¹⁾ S = Polyester M = FDA Polypropylene N = Nylon R = Rayon T = Washed Polypropylene K = Baked Glass ⁽²⁾	6R 8R 10R 11R 12R 13R 14R 15R 17R 19R 21R 23R 27R 39R blank ⁽⁴⁾	4 = 4 5 = 5 6 = 6 7 = 7 8 = 8 9-4 = 9-7/8 10 = 10 19-4 = 19-1/2 20 = 20 29-4 = 29-1/4 30 = 30 39-4 = 39 40 = 40	blank = 63.5 -2 = 68 -45 = 114	A = Polypropylene G = 304 Stainless Steel S = 316 Stainless Steel blank = Tinned Steel	blank = No Cover B = Nylon W = Cellulosic Paper Y = Polypropylene	blank = No Treatment D = Sodium Silicate L = Lacquer M = Singed	Blank = DOE (w/o Gaskets) DO = DOE (with Gaskets) SC = 2-226 / Flat TC = 2-222 / Flat SF = 2-226 / Fin TF = 2-222 / Fin OB = Std Open End / Polyprosring Closed End XA = Polypro Extender XB = Ex. Core Open End / Polypro Spring Closed End XC = Extended Metal

1- C for 0.5 micron option, all other ratings leave this space blank

2- Baked Glass only available with metallic core and with DOE configuration/no gaskets or XC option.

3- See above micron ratings

4- Not available with S, N, R options.

5- -2 and -45 options will only be available with DOE configurations/no gaskets

6- Please contact manufacturing to confirm Cover and Treatments are available for required yarn/core materials.

7- More options available, please consult with manufacturing

** - 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](#)