



FULFLO® HONEYCOMB™

Multi-purpose filtration solutions with wound depth cartridges

FULFLO HONEYCOMB precision wound depth filter cartridges are manufactured to give a considerable dirt holding capacity coupled with high flow rates and low pressure loss. FULFLO HONEYCOMB elements consist of a perforated support core of plastic or metal onto which yarn is wound at a pre-set rate, providing each rating of element with its own distinctive winding pattern and performance.

During the winding process the yarn is usually brushed (or napped). This has the effect of increasing the working area of the elements thus providing a higher dirt holding capacity whilst maintaining the rigid structure.

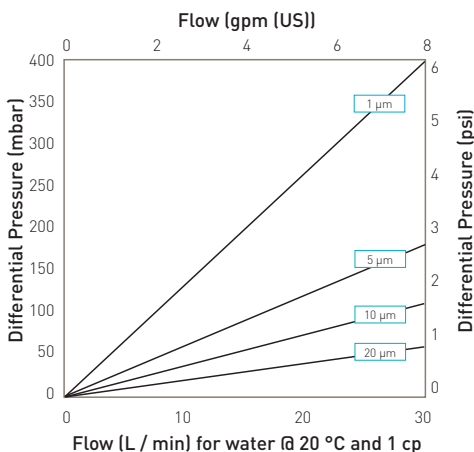
Fibres such as polyester, cotton, nylon can operate at higher temperatures and have differing chemical compatibility. For very high temperatures and for very strong oxidising agents, baked glass fibre elements are used. Glass fibre elements are fitted with voiles and stainless steel cores as standard, other cartridges can also be fitted with voiles where necessary.

Benefits

- A broad range of media provide excellent compatibility with a variety of organic solvents, animal, petroleum and vegetable oils
- Multiple length cartridges minimize change-out time, eliminate spacers and are available to fit competitive filter vessels
- FDA grade polypropylene
- Continuous strand winding geometry provides performance consistency
- Various O-ring and end cap options are available



Performance Characteristics



10" Size (248 mm) Cartridge

Performance Characteristics

Wound cartridges provide true depth filtration utilizing hundreds of tapered filtering passages of controlled size and shape. Each layer of roving contributes to true depth filtration by trapping its share of particles.

Wound cartridges offer a gradual pressure increase during cartridge life versus surface-type media that have an abrupt flow cutoff when loaded.

In addition, the irregular outer layer reduces surface blinding, assuring both longer cartridge life and full cartridge utilization.

Specifications

Materials of Construction

- Filtration Media : Polyester (Various Yarns)
 - Polypropylene
 - Bleached Cotton
 - Glass Fibre
 - Washed Polypropylene
 - Nylon
- Inner Support Core : Polyester
 - Polypropylene
 - 316 Stainless Steel

Recommended Operating Conditions

- Maximum Temperature with stainless core:
- Cotton : 149°C (300°F)
 - Polypropylene : 93°C (199°F)
 - Polyester : 121°C (250°F)
 - Glass Fibre : 399°C (750°F)
- with polypropylene core:
- Cotton : 60°C (140°F)
 - Polypropylene : 60°C (140°F)
 - Polyester : 60°C (140°F)

Wound Cartridge Baked Glass Fiber Nominal Micrometer Ratings

Cartridge Designation	Liquids	Compressed Air & Gases
K5B	100-150	100+
K5R	75-100	10
K6R	40	7
K8R	30	5
K10R	20	3
K12R	15	1
K15R	10	>1
K19R	5	>1
K23R	3	>1
K27R	1	>1
K39R	0.5	>1

Applications

- Oxidizing Agents
- Petroleum Oils
- Potable Liquids
- Amines
- Dilute Acids
- Water & Alkalies
- Prefilter for Mineral Acids Membranes
- Organic Acids & Solvents

Ordering Information

Cartridges

Code	Filter Medium	Code	Micron	Code	Length (Nominal)	Code	Nominal Cartridge Diameter	Code	Core Material	Code	Endcap Configuration	Code	Seal Material
None	Cotton (FDA)	6R	150	4	100mm	None	62 mm	None	Tinned Steel	None	DOE	E	EPDM
K	Baked Glass Fiber	8R	100	5	125mm	-2	68 mm	A	Polypropylene	D0	222/Closed (w/o gaskets)	N	Buna-N
M	FDA Grade	10R	75	9	248mm	-3	66 mm	G	304 Stainless Steel	None	DOE	S	Silicone
	Polypropylene	11R	50	10	254mm	-5	50 mm	FI	Free Issue Core	TC	222/Closed (w/ gaskets)	V	Viton®
N	Nylon (FDA)	12R	40	19-4	500mm	-45	100 mm	PE	Polyester	TF	222/Fin		
S	Polyester (FDA)	13R	30	20	508mm			PC	Seam welded Core	T3	222 blank no recess		
T	Washed PP	14R	25	28	743mm			S	316 Stainless Steel	SC	226/Closed		
	Industrial grade	15R	20	29-4	750mm					SF	226/Fin		
UK	Unbaked Glass Fiber	17R	15	30	762mm					XC	Extended Metal		
		19R	10	39-4	1000mm								
		21R	7	40	1016mm								
		23R	5										
		27R	3										
		39R	1										

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