



## 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.

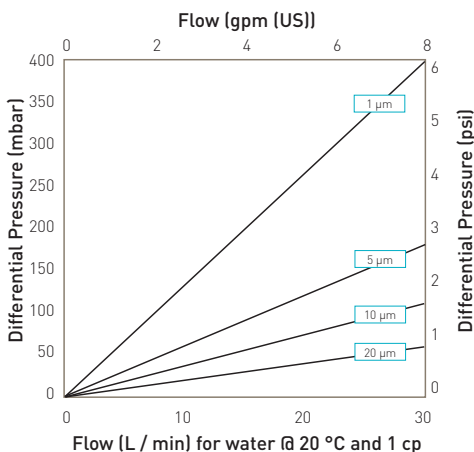
Fibres such as polyester, cotton, nylon can operate at higher temperatures and have differing chemical compatibility. For very high temperatures and for very strong oxidising agents, baked glass fibre elements are used. Glass fibre elements are fitted with voiles and stainless steel cores as standard, 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 DOE (w/o gaskets)	N Buna-N
M FDA Grade	10R 75	9 248mm	-3 66 mm	G 304 Stainless Steel	D0 DOE (w/ gaskets)	S Silicone
Polypropylene	11R 50	10 254mm	-5 50 mm	FI Free Issue Core	TC 222/Closed	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	
Unbaked Glass	17R 15	30 762mm			XC Extended Metal	
Fiber	19R 10	39-4 1000mm				
	21R 7	40 1016mm				
	23R 5					
	27R 3					
	39R 1					

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