FILOPOR FILTER CARTRIDGES-THE BEST SOLUTION TO MANY FILTRATION PROBLEMS

Leaflet E-01-01-UK

FLUXA

Fluxa Filtri S.p.A.

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Filopor Honeycomb Filter cartridges are a versatile and effective filtering system. They are obtained from wounding selected high quality yarns over a center core. This winding process causes a lot of identical (funnel-shaped), tapered, spiral passageways. Filtration takes place throughout the entire cartridge, not just on the surface, so large amounts of contaminant are trapped without a sudden rise in pressure caused by surface blinding. Filopor Filter Cartridges are the most versatile type of industrial filters available. A Filopor Filter Cartridge is made by winding carefully selected fibers in precise patterns on a core. The patterns are designed to create hundreds of tapered identical spiral passageways.

Maximum flow rate for a 10" standard filter cartridge

Nominal micron removal	Density number	1 centistoke (water, liter / hr)	1centistoke (non water base liquid, liter/hr)	5 centistoke (45 SSU non water base liquid, liters/hr)	25 centistoke (125 SSU non water base liquid, liters/hr)
100	8R10	2000	2000	2000	2000
75	10R10	2000	2000	2000	1600
50	11R10	2000	2000	2000	1200
30	13R10	2000	2000	2000	750
20	15R10	2000	2000	2000	450
10	19R10	1200	2000	860	170
5	23R10	680	1900	380	65
3	27R10	170	570	110	23
1	39R10	140	380	80	16

NOTE – The above table is related to rayon filter elements. The flow rate of 1500 l/h can be increased, but in this case it is recommended to contact our office. The flow rate of a filter is obtained by multiplying the flow rate of a single cartridge by the number of cartridges.

Cartridge Designation Key

E **13R** **10** **2** **GV**

CARTRIDGE FIBER	DENSITY NUMBER NOMINAL MICRON REMOVAL	LENGTH	NOMINAL CARTRIDGE DIAMETER	CORE MATERIAL
- : Cotton (No symbol)	39 R = 1 micron	3"	No symbol 2½"	- : No symbol = Tinned steel
E : Food & drug Rayon	27 R = 3 microns	4"	Symbol 2 2¾"	G : 304 Stainless steel
K : Glass Fiber	23 R = 5 microns	5"		S : 316 Stainless steel
N : Nylon	19 R = 10 microns	7"	Symbol 3 Special dimensions on request	A : polypropylene
M : Polypropylene	15 R = 20 microns	10"		CORE COVERING MATERIAL
S : Polyester	13 R = 30 microns	20"		- : No symbol = no core cover
	11 R = 50 microns	30"	Symbol 4 4.½"	V : Non-woven core cover
	10 R = 75 microns	40"		
	8 R = 100 microns			

* **Note: Glass fiber cartridges (K) are rated differently. Please consult our office.**

Compatibility table

	Cartridge fiber	Cotton	Food and drug Rayon	Polypropylene	Glass fiber	Nylon	Polyester
	Maximum temperature [1] with stainless steel core, °C	**120**	**120**	**50**	**400**	**135**	**135**
Compatibility of the fibers	**Organic acids**	Good	Good	Excellent	Excellent	Moderate	Good
	Alkali	Good	Good	Good	Poor	Good	Good
	Oxidizing agents	Moderate	Moderate	Moderate	Excellent	Poor	Good
	Organics solvents	Excellent	Excellent	Good	Excellent	Excellent	Excellent
	Animal , Vegetable and Mineral oils	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
	Micro-organisms	Poor	Poor	Excellent	Excellent	Excellent	Excellent
	Industrial water	Good	Good	Excellent	Excellent	Excellent	Poor