

## POLYSAN MINI-CARTRIDGES

- High dirt holding capacity
- Steamable and sanitizable
- EC-listed materials for Food contact
- FDA-listed materials per CFR21
- Validation guide on request (only PH grade)



POLYSAN MINI-CARTRIDGE is obtained by pleating up to 5 polypropylene layers of decreasing porosity to achieve high effective filtration area, high dirt holding capacity with efficiency higher than 99.98%.

All the components in polypropylene are assembled by thermowelding process. MINI-CARTRIDGE is well suited in all applications where small flow rate is involved and precision filter rating is required; PH grade is prefluxed with non-pyrogenic water and suitable for pharmaceutical applications.

### MATERIALS OF CONSTRUCTION

<b>Filter media</b>	polypropylene
<b>Upstream supports</b>	polypropylene
<b>Downstream supports</b>	polypropylene
<b>Internal core</b>	polypropylene
<b>External cage</b>	polypropylene
<b>End caps/adapters</b>	polypropylene

### FOOD-SAFETY

POLYSAN filter element materials meet (EU) regulation 10/2011 and its amendments, regulations (EC) 1935/2004 and 1895/2005.

### BIO-SAFETY

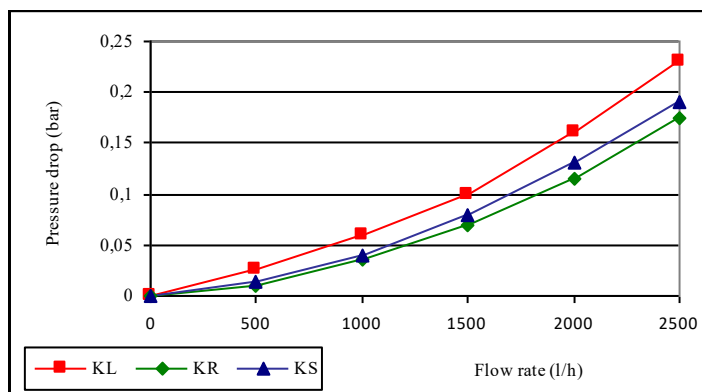
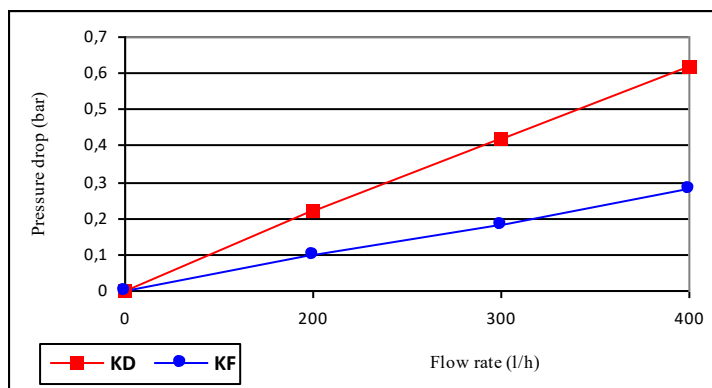
Filter media and components pass USP Biological Reactivity and Chemical-Physical tests for CLASS VI plastics.  
Specific for "PH" grade: the filter meets USP "Water for injection" requirements for particle release and the effluent is Non-Pyrogenic per USP Bacterial Endotoxins (< 0,25 EU/ml).

### OPERATING CONDITIONS

- max. continuous temperature	65 °C
- regeneration	2% NaOH solution at room temperature
- sterilization with steam	continuously with cycles of 20 minutes at 121 °C
- sanitization with hot water	80 °C max
- sanitization with chemicals	Can be sanitized by standard chemical agents
- max. differential pressure	5,0 bar at 25 °C
- recommended change out differential pressure	2,0 bar at 25 °C

CODE	FILTRATION RATING µm	MAX WATER FLOW RATE FOR CARTRIDGE l/h
KD	0,6	130
KF	1,2	200
KG	2,5	500
KL	4,5	750
KR	6,5	1000
KS	10,0	1000
KT	20,0	1000

## WATER FLOW RATE FOR CARTRIDGE SIZE 1001



### POLYSAN 1001 ORDERING INFORMATION

**PKP - 100 1 - KR - [ ] - [ ]**

END FITTING	CODE
S.O.E.: open end with internal o-ring 2.116	<b>100</b>
S.O.E.: open end with threaded 1/2" adapter	<b>120</b>

NOMINAL LENGTH	CODE
135 mm	<b>1</b>
142 mm Threaded end included	<b>05</b>

FILTRATION RATING µm	CODE
0,6	<b>KD</b>
1,2	<b>KF</b>
2,5	<b>KG</b>
4,5	<b>KL</b>
6,5	<b>KR</b>
10,0	<b>KS</b>
20,0	<b>KT</b>

CODE	DESCRIPTION
<b>No code</b>	General Grade without certification
<b>PH</b>	Preflused with non-pyrogenic water; Quality Certification in the box.

CODE	GASKETS	
<b>No code</b>	Standard	Silicone
<b>E</b>	On request	EPDM
<b>T</b>	On request	TEFLON

Data contained in this bulletin are informative and subject to change without notice. User is responsible for determining whether the product is fit for particular purpose and suitable for User's method of application.



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