# 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

| | |
|---|---|
| **Filter media** | polypropylene |
| **Upstream supports** | polypropylene |
| **Downstream supports** | polypropylene |
| **Internal core** | polypropylene |
| **External cage** | polypropylene |
| **End caps/adapters** | polypropylene |

## FOOD-SAFETY

POLYSAN filter element materials meet Directive 2002/72/EC and its amendments, regulations EC 1935/2004 and 1895/2005.

## BIO-SAFETY

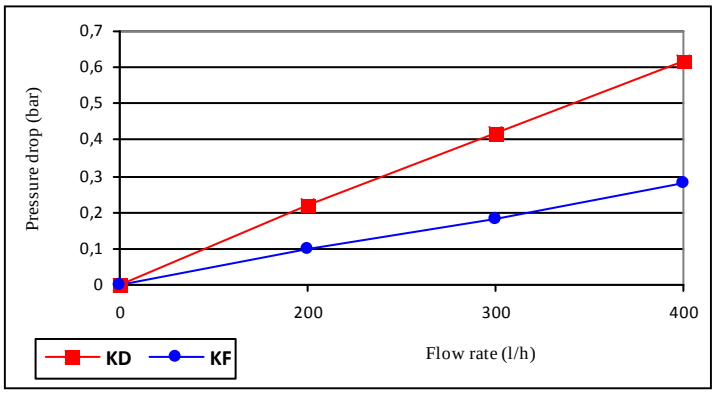
Filter media and components pass USP Biological Reactivity and Chemical-Physical tests for CLASS VI plastics.
Specific for "PH" grade: the filter meets USP "Water for injection" requirements for particle release and the effluent is Non-Pyrogenic per USP Bacterial Endotoxins (< 0,25 EU/ml).

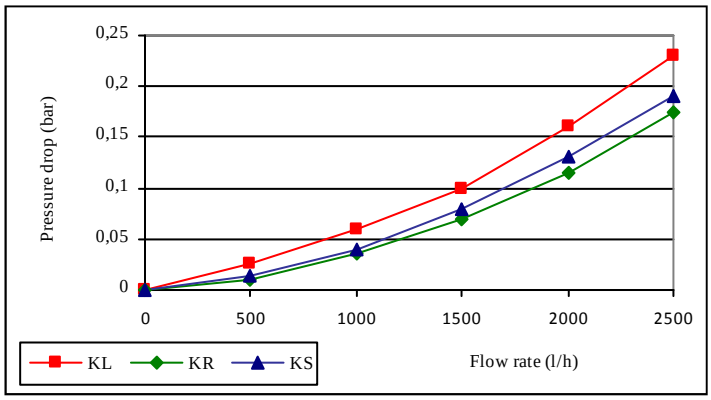
## OPERATING CONDITIONS

| | |
|---|---|
| **- 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 | **100** |

| NOMINAL LENGTH | CODE |
|---|---|
| 135 mm | **1** |

| FILTRATION RATING µm | CODE |
|---|---|
| 0,6 | **KD** |
| 1,2 | **KF** |
| 2,5 | **KG** |
| 4,5 | **KL** |
| 6,5 | **KR** |
| 10,0 | **KS** |
| 20,0 | **KT** |

| CODE | DESCRIPTION |
|---|---|
| **No code** | General Grade without certification |
| **PH** | Prefluxed with non-pyrogenic water; Quality Certification in the box. |

| CODE | GASKETS | |
|---|---|---|
| **No code** | Standard | Silicone |
| **E** | On request | EPDM |

DS-PKP 1001-730-UK-10

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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