

## STERYKLEAR ADM FREE—KSPA

- Materials free from substances of animal origin (ADM FREE — Animal Derived Materials)
- Food contact materials, according to EU and FDA requirements
- USP materials compliance
- High effective filtration area
- Thermowelded construction
- Integrity testable in situ
- Repeatedly steamable in situ or in autoclave
- Sanitizable
- Validation Guide available upon request



STERYKLEAR ADM FREE-KSPA filter is "Animal Free" as the materials used for its manufacturing are free from animal derived substances.

It is used as final sterilizing filter in food & beverage and pharmaceutical critical applications; PH and PHH grades are preflushed with pyrogen free water and with certification of quality. As it is free from animal derived substances, STERYKLEAR ADM FREE-KSPA is suitable for the newest and ever more increasing market requirements.

The manufacturing process is carried out in a certified clean room; every filter passes the integrity test which is correlated to the microbiological retention.

### MATERIALS OF CONSTRUCTION

<b>Filter media</b>	PES membrane
<b>Support layers</b>	polyester
<b>Internal core</b>	polypropylene
<b>External cage</b>	polypropylene
<b>End caps/Adapters</b>	polypropylene

### FOOD-SAFETY

STERYKLEAR KSPA 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" and "PHH" 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). Bacterial endotoxins are determined by LAL test.

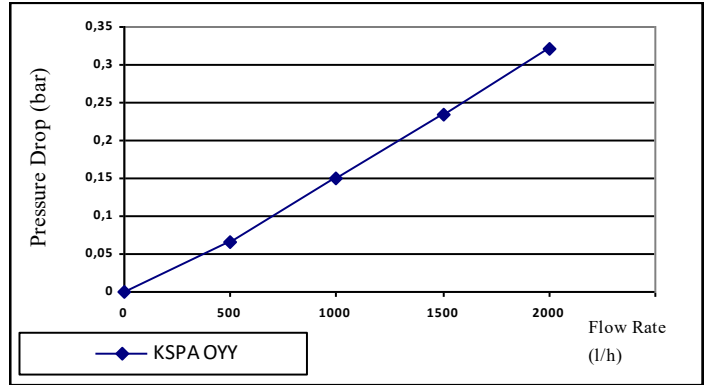
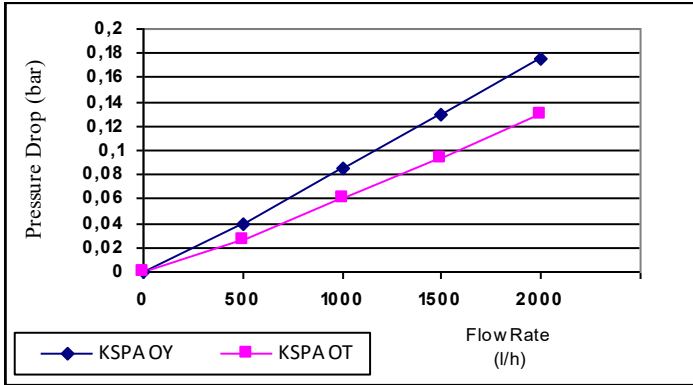
### RECOMMENDED OPERATING CONDITIONS

- max. continuous temperature	80 °C
- max. cumulative time of steam sterilization	20 hours at 125 °C or 40 hours at 121 °C (30 min. cycles)
- 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	ABSOLUTE FILTRATION RATING IN LIQUIDS	BACTERIAL RETENTION >10 <sup>10</sup> CFU/ 10" CARTRIDGE *	ACCEPTABLE LIMIT FOR DIFFUSION TEST WITH WATER FOR 10" CARTRIDGE (ml/min)
OY	0,2 µm	Brevundimonas diminuta	≤ 26 @ 2,7 bar
OYY	0,2 µm double membrane	Brevundimonas diminuta	≤ 26 @ 2,7 bar
OT	0,45 µm	Serratia marcescens	≤ 16 @ 1,7 bar

\*as per ASTM F838

## WATER FLOW RATE FOR 10" CARTRIDGE



## STERYKLEAR ADM FREE—KSPA ORDERING INFORMATION

**KSPA - 207 1 - OY - PH - [ ] - [ ]**

ABSOLUTE FILTRATION RATING micron	CODE
0,2	OY
0,2 double membrana	OYY
0,45	OT

CODE	GASKETS	
No code	Standard	Silicone
Z	On request for D.O.E.	Soft Teflon

CODE	PACKING TYPE
No code	Single box

END FITTING	CODE
DOE: double open end with flat gaskets	200
SOE: open end with (2) O-Ring 2.222. Blind end with flat top.	203
SOE: open end with (2) O-Ring 2.226 and 2 bayonet locks. Blind end with fin.	207
SOE: open end with (2) O-Ring 2.222. Blind end with fin.	208
SOE: open end with (2) O-Ring 2.222 and 3 bayonet locks. Blind end with fin.	212

CODE	NOMINAL LENGTH
1	10"
2	20"
3	30"
4	40"

CODE	PRODUCT GRADE
PH	Biological Grade; tested and preflushed with Pyrogen-free water. Quality Certificate in the box.
PHH	Biological Grade; tested and preflushed with Pyrogen-free water. Quality Certificate, with serial number, in the box.

Recommended rinse up volume in situ: 5 liters/10" cartridge

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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