

STERYKLEAR KSE

- Easy integrity testable in situ
- High effective filtering area with SE-TECH technology
- Repeatedly steamable in situ and in autoclave
- Sanitizable
- Thermowelded construction
- EC-listed materials for Food contact
- FDA-listed materials per CFR21
- Bio-Safety per USP—Plastics
- Validation Guide available on request



STERYKLEAR KSE filter elements incorporate SE-TECH tecnology which allows to achieve better filtration results from the membranes; the design optimises the flow distribution between the filter media and the internal core to avoid restrictions and to exploit the full area of the cartridge to generate higher throughput and to increase the life of the filter.

STERYKLEAR KSE is utilized as final sterilizing filter in pharmaceutical and food & beverage general application; PH and PHH grade, prefluxed with non-pyrogenic water and with certification of quality, are utilized in critical applications. The cartridge, realized with polyether components can operate in continuous at temperature of 80°C.

Manufacturing is completed in a controlled environment; each cartridge is integrity tested and the limits of acceptability are monitored on regular basis by bacteria challenge test.

MATERIALS OF CONSTRUCTION

Filter media	Asymmetric PES membrane	
Upstream supports	polyester	
Downstream supports	polyester	
Internal Core	polypropylene	
External Cage	polypropylene	
End caps / Adapters	polyester	

FOOD-SAFETY

STERYKLEAR KSE 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).

QUALITY STANDARDS

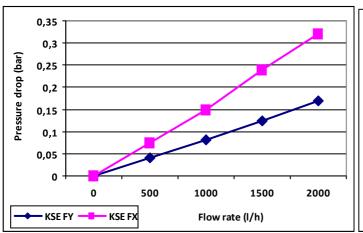
Produced under a certified Quality System to guarantee traceability of manufacturing records and integrity testing results.

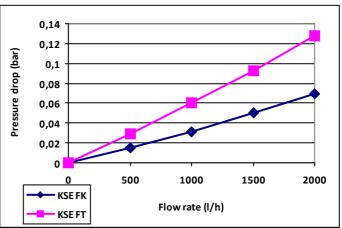
OPERATING CONDITIONS

- max. continuous temperature	80 °C
- max. cumulative time of steam sterilization	13 hours at 125 °C with cycles of 30 minutes
- 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
- recommended rinse up volume	3 liters/cartridge 10"

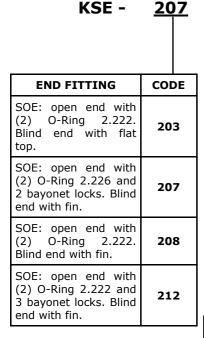
CODE	ABSOLUTE FILTRATION RATING IN LIQUIDS	BACTERIAL RETENTION OF MICRO-ORGANISM >10 ¹⁰ CFU/ 10" CARTRIDGE*	ACCEPTABLE LIMIT FOR DIFFUSION FLOW TEST WITH WATER FOR 10" CARTRIDGE (ml/min)	
FX	0,1 μm	Acholeplasma laidlawii	≤ 30 @ 3,5 bar	
FY	0,2 μm	Brevundimonas diminuta	≤ 26 @ 2,7 bar	
FT	0,45 μm	Serratia marcescens	≤ 16 @ 1,7 bar	
FK	0,65 μm	Leuconostoc oenos	≤ 25 @ 1,1 bar	
*as per AS	*as per ASTM F838			

WATER FLOW RATE FOR 10" CARTRIDGE





STERYKLEAR KSE ORDERING INFORMATION



KSE -

ABSOLUTE FILTRATION RATING micron	CODE
0,1	FX
0,2	FY
0,45	FT
0,65	FK

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

	(ODE	GASK	ETS
	No	code	Standard	Sil
		E	On request	El
		V	On request	VI
				_
CODE PACKING TYPE				
SB		Single box		

Multiple box

CODE	PRODUCT GRADE	
BG	Biological Grade; tested and prefluxed .	
BQ	Biological Grade; tested and prefluxed. Quality Certification in the box.	
PH	Biological Grade; tested and prefluxed with non-pyrogenic water. Quality Certification in the box	
РНН	Biological Grade; tested and prefluxed with non-pyrogenic water. Quality Certification, with serial number, in the box	

МВ

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.



Bea Technologies Spa Via Newton, 4 - 20016 Pero (Milano) ITALY Tel +39 02 339271 FAX +39 02 3390713 e-mail: info@bea-italy.com web: www.bea-italy.com

DS-KSE-561-UK-17

Silicone

EPDM

VITON