

# STERINYL ADM FREE-KLEA

- Materials free from substances of animal origin (ADM FREE—Animal Derived Materials)
- · Food contact materials, according to EU and FDA requirements
- Bio-Safety and composition compliance according to USP requirements for plastics
- Low filter extractables even with solvents
- Easy integrity testable in situ
- Repeatedly steamable in situ and in autoclave
- Thermowelded construction
- Validation Guide available on request



STERINYL ADM FREE filter element is "Animal Free" as the materials used for its manufacturing are free from animal derived substances. It is designed and manufactured to satisfy and assure high quality and consistent performances in critical applications.

STERINYL ADM FREE cartridge includes Nylon 6,6 membrane at controlled porosity and provides high efficiency in bacteria retention.

The membrane is pleated with support and drainage layers in polyester which give high endurance versus thermal sterilization and hydraulic pulsation stress.

The intrinsically water wettability of nylon and polyester allows easy integrity testability. Manufacturing is completed in a controlled environment; each filter is integrity tested.

STERINYL ADM FREE filter element 0.1 micron and 0.2 micron are available with single and double membrane layer.

#### **MATERIALS OF CONSTRUCTION**

Filter media	nylon 6,6	
Upstream supports	polyester	
Downstream supports	polyester	
Internal Core	polypropylene	
External Cage	polypropylene	
End caps / Adapters	polyester	

#### **FOOD-SAFETY**

STERINYL ADM FREE 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 CLASS VI Biological Reactivity and Chemical-Physical tests for USP plastics. Specific for "PH" and "PHH" grade: the filter meets USP "Water for

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.

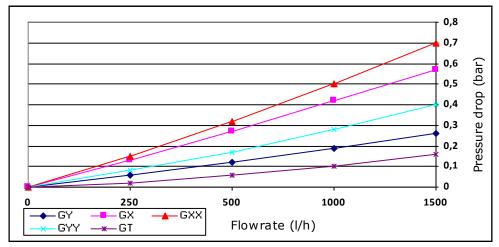
# **OPERATING CONDITIONS**

- max. continuous temperature	80 °C
- max. cumulative time of steam sterilization	5 hours at 140°C / 13 hours at 125°C / 20 hours 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—2,5 bar 80 °C—0,3 bar 135 °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 <sup>10</sup> CFU/ 10" CARTRIDGE*	ACCEPTABLE LIMIT FOR DIFFUSION FLOW TEST WITH WATER FOR 10" CARTRIDGE (ml/min)
GX**	0,1 μm	Hydrogenophaga pseudoflava	≤ 15 @ 2,8 bar
GXX**	0,1 μm double layer	Hydrogenophaga pseudoflava	≤ 15 @ 2,8 bar
GY	0,2 μm	Brevundimonas diminuta	≤ 16 @ 2,1 bar
GYY	0,2 μm double layer	Brevundimonas diminuta	≤ 16 @ 2,1 bar
GT	0,45 μm	Serratia marcescens	≤ 16 @ 1,5 bar
GK	0,65 μm	Leuconostoc oenos	≤ 18 @ 0,9 bar
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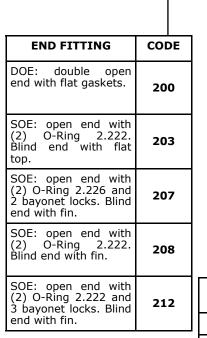
<sup>\*</sup>as per ASTM F838 \*\* bacterical retention with Acholeplasma laidlawii  $\geq 10^8$ 

### **WATER FLOW RATE FOR 10" CARTRIDGE**



### STERINYL ADM FREE KLEA ORDERING INFORMATION

GY -



KLEA - 207

CODE	ABSOLUTE FILTRATION RATING micron
GX	0,1
GXX	0,1
GY	0,2
GYY	0,2
GT	0,45
GK	0,65

DDE	
GX	
XX	
GY	
YY	
GT	
GK	
T-	

PH -

11		No	code	Single	box
	•				
CODE		ı	PRODU	CT GRADE	
			Biolog	jical Gra I and	ide; prefluxed

CODE

CODE

No code

Z

**GASKETS** 

Silicone

**EPDM** 

Soft

teflon

Standard

On request

Only S.O.E.

Only D.O.E.

**PACKING TYPE** 

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

РН	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.

DS-KLEA-559-EN-19/A

The data 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

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