

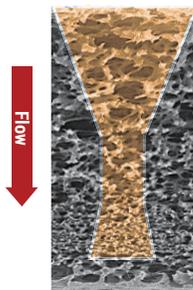
AdvanLife® APSEA FILTER CARTRIDGES

PES MEMBRANE BIO-BURDEN REDUCTION LIQUID FILTER

AdvanLife® Filter Cartridges feature a unique single-layer asymmetric hydrophilic polyethersulfone membrane with PP prefilter. These filters are recommended as bio-burden reduction filter as they provide the final stage sterilizing-grade filtration with additional protection to increase its service life.

FEATURE

Asymmetric PES membrane



BENEFIT

Highly asymmetric polyethersulfone membrane allows for a high particle holding capacity and longer service life -

Provides broad chemical compatibility

High flow rates and low pressure drops

PP prefilter for extra long life

QUALITY STANDARDS

Quality Assurance

These products are manufactured in a facility which adheres to ISO 9001 Practices.

TOC / Conductivity at 25°C

Autoclaved filter effluent meets the USP <643> for Total Organic Carbon and USP <645> for Water Conductivity per WFI requirements after a UPW flush of specified volume.

Particle Shedding

Autoclaved filter effluent meets the requirements in USP <788> for large volume injections

Non-Fiber Releasing

Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3 (b) (6)

Bacterial Endotoxin

Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus; Amebocyte Lysate (LAL), USP <85>.

USP <87> Cytotoxicity

Meet the requirement of USP <87> In Vitro Cytotoxicity Test

USP <88> Biological Toxicity

Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics.

Indirect Food Additive

All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182, and EU framework regulation [1935/2004/EC].



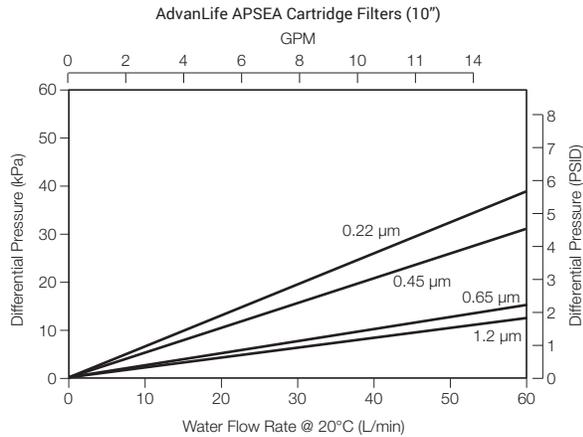
Typical Applications

- Buffer and Culture Solutions
- Plasma, Serums, and Vaccines
- LVP
- Ophthalmic Solutions
- Water-soluble Antibiotics

SPECIFICATIONS

Filter media	Asymmetric PES membrane (single layer) with PP prefilter layer
Supports/core/cage/end caps	Polypropylene
Effective filtration area	0.58m ² (6.2 ft ²)/ Ø69-10 inch
O-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM
O-ring internal insert	PBT
Cartridge diameter	69 mm (2.7 in.)
Max. Operating pressure	0.69 MPa (6.9 bar, 100 psi) at 25°C 0.40 MPa (4.0 bar, 58 psi) at 60°C 0.24 MPa (2.4 bar, 35 psi) at 80°C
Max. Differential pressure	Forward: 0.69 MPa (6.9 bar, 100 psi) at 25°C 0.40 MPa (4.0 bar, 58 psi) at 60°C 0.24 MPa (2.4 bar, 35 psi) at 80°C Reverse: 0.3 MPa (3.0 bar, 44 psi) at 25°C 0.1 MPa (1.0 bar, 15 psi) at 80°C

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **APSEA0120HTC10E-P** = 1.2 µm, 222/Flat, 10" filter with EPDM seals

APSEA



Removal Rating
BioBurden Reduction
0022 = 0.22 µm
0045 = 0.45 µm
0065 = 0.65 µm
0120 = 1.2 µm
0800 = 8.0 µm



Connection
DOE = Double Open End, Flat Gasket
HTC = 222 O-ring/Flat Cap
HTF = 222 O-ring/Fin Cap
HSC = 226 O-ring/Flat Cap
HSF = 226 O-ring/Fin Cap



Nominal Length
05 = 5"
10 = 10"
20 = 20"
30 = 30"
40 = 40"



Seal Material
S = Silicone
E = EPDM
V = FKM
P = E-FKM (FEP/PFA encapsulated FKM)



Application
P = Pharmaceutical
M = Medical



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CBBPP1049 Rev. 04082021

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