



SAFETECT[®] FILTERS

PES Cartridge Filter Series

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Safetect[®] Filters are available in hydrophilic polyethersulfone (PES) media constructions to meet the needs of bioburden reduction, pre-filtration, and steam-in-place requirements, for a wide range of critical processing requirements.

MEDIA INFORMATION

ТҮРЕ	MEDIA	FEATURES	TYPICAL APPLICATIONS
PME	Double-layer PES - Symmetric Inner and outer layer	 Bioburden reduction Pre-filtration Low extractables 	 Pre-filtration of cell culture medium Buffer filtration

BIOLOGICAL SAFETY

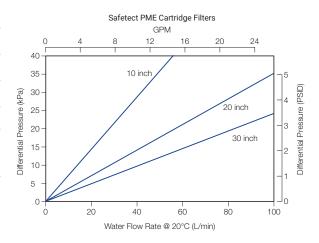
Sterlilization	Steam-in-Place: Can be steam sterilized 50 cycles for 30 minutes at 135°C (<0.3 bar, 5 psi). Autoclave: Can be autoclaved 50 cycles for 30 minutes at 130°C.	
Particle Shedding	Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals.	
Non-fiber Releasing	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b) (6).	
USP <87> Cytotoxicity	Meets the criteria of the USP <87> In-Vitro Biological Reactivity Test.	
USP <88> Biological Reactivity	Meets the criteria of the USP <88> Biological Reactivity Test for Class V1-121 °C plastics.	
Indirect Food Additive	All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182.	
Quality Assurance	These products are manufactured in a facility which adheres to ISO® 9001 Practices.	



SAFETECT SPECIFICATIONS

Filter media	Dual Layer Hydrophilic Polyethersulfone (PES)
Core/Cage/End Cap	Polypropylene
Capsule Shell	Polypropylene
0-ring	Silicone/EPDM/FKM/E-FKM
O-ring insert	PBT
Max. Operating temperature	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: 0.30 MPa (3.0 bar, 44 psi) at 25°C 0.10 MPa (1.0 bar, 15 psi) at 80°C
Water Bubble Point at 20°C	≥0.27 MPa (2.7 bar, 39 psi), air
Sterilization	Steam-in-Place: Can be steam sterilized 50 cycles for 30 minutes at 135°C (<30.3 bar, 5 psi) Autoclave: Can be autoclaved for 50 cycles of 30 min. at 130°C.
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 20L.

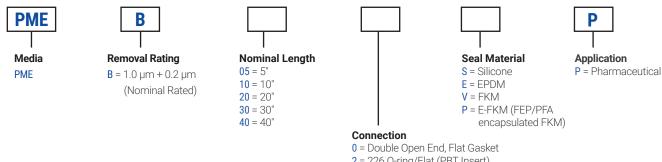
FLOW RATES



CARTRIDGE ORDERING INFORMATION

Α

EXAMPLE: APMEB107E1P dual-layer PME, 1.0 µm + 0.2 µm, 10", 226 o-ring/fin, EPDM o-ring



- 2 = 226 O-ring/Flat (PBT Insert)
- 7 = 226 O-ring/Fin (PBT Insert)
- 3 = 222 O-ring/Flat (PBT Insert)
- 8 = 222 O-ring/Fin (PBT Insert)

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