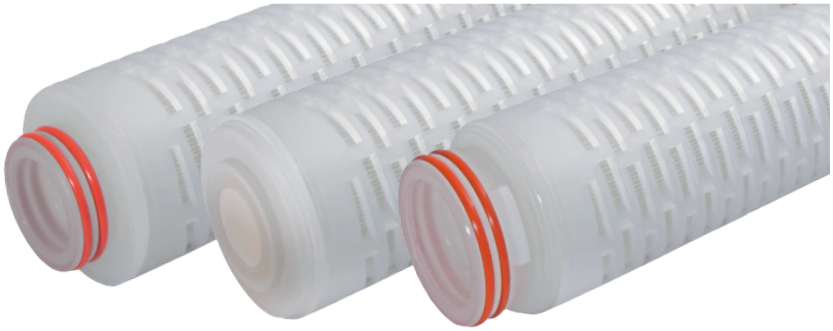
PPES-Series Pharmaceutical Grade Polyethersulfone

PPES-Series High Purity Pharmaceutical Grade Polyethersulfone Filter Cartridges are ideal for sterile filtration and clarification of pharmaceutical and biological solutions. Each PPES cartridge is integrity tested during manufacturing and is supported by a validation guide for regulatory compliance. Low protein binding and the broad chemical compatibility characteristics of the polyethersulfone membrane, along with exceptional flow rate vs pressure drop, makes the PPES-Series the ideal choice for a variety of valuable and/or critical pharmaceutical solutions. PPES cartridges are fully validated as sterilizing grade filters in accordance with HIMA and ASTM F838-05 guidelines. For the 0,2 micron series elements, validation studies demonstrate sterile effluent is achieved with challenge concentrations in excess of 10^7, Brevundimonas diminuta per cm^2 of filter area. Additionally, validation studies of 0,1 micron series elements demonstrate 10^7 retention of Mycoplasma (Acholeplasma laidlawii) per cm2 of filter area. Designed to tolerate repeated hot water sanitization and in-situ steam sterilization cycles for maximum service life. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness.



Construction Materials

Membrane.....Polyethersulfone
Support Media.....Polypropylene
End Caps.....Polypropylene
Center Core.....Polypropylene
Outer Support Cages.....Polypropylene
O-Rings/Gaskets.....Buna, EPDM, Silicone, FKM, FEP FKM, FEP Silicone

Sanitization/Sterilization

Filtered Hot Water.....85°-95°C for 30 min. max ΔP 0,5 bar
Steam Sterilization.....134°C for 30 min., max ΔP 0,5 bar,100 cycles

Note: O-ring adapters include integral reinforcement that will not deform with repeated steam sterilization or hot water sanitation cycles.

Typical Applications

- Vaccines
- Large Volume Parenteral (LVP's)
- Water for Injection (WFI)
- Diagnostics
- Ophthalmics
- Cell and Tissue Culture Media
- Protein Solutions
- Serum and Blood Products

Dimensions

Length.....25,4 to 101,6 cm
Outside Diameter.....7,06 cm

Operating Conditions

Change Out ΔP (recommended).....2,4 bar
Temperature (max).....80°C
Differential Pressure (max).....5 bar at 20°C

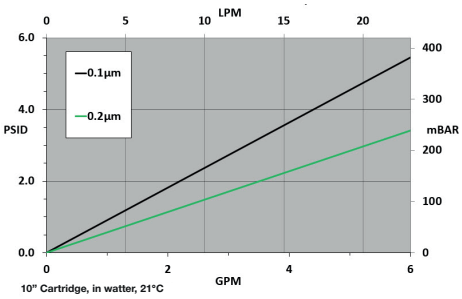
Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI – 121°C for plastics.

Food Safety Compliance

Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR. Materials used to produce filter media and hardware are deemed safe for use in contact with foodstuffs in accordance with EU Directives 1935/2004 and/or 10/2011.

Flow Rate vs Pressure Drop



Ordering Information

PPES	Rating (µ)	A	Length	C	End Cap Style	O-Rings/Gaskets
	0,1		10" (25,4 cm)		2 = DOE Flat Gasket*	B = Buna-N
	0,2		20" (50,8 cm)		3 = 222 w/Fin	E = EPDM
			30" (76,2 cm)		4 = 222 w/Flat Cap	S = Silicone
			40" (101,6 cm)		6 = 226 w/Flat Cap	T = FEP FKM
					7 = 226 w/Fin	V = FKM
					28 = 222 3-Tabs w/ Fin	Z = FEP Silicone

*If code 2 (DOE) is applied, options T and Z are not available.

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