

POLYETHERSULFONE SYRINGE FILTERS

Recommended for fastest particle removal, purification and sterilisation of aqueous solutions and/or biological samples.

- Incorporated polyethersulfone membrane fixed without adhesive to a MBS polymerisate housing.
- Ready to use syringe filter.
- Hydrophilic.
- Low adsorption.
- Very high flow rates.
- Very low flow resistance of the filter support.
- High total throughput even with the most viscous proteinaceous solutions.
- Low hold-up volume.
- Minimum extractables.
- Up to 100 ml of sample.
- Large filtration area and an optimized geometry of the filter support.
- Luer Lock outlet making it possible to connect one syringe to another thus allowing serial filtration from larger to smaller pore size.
- Pore size 0.10 µm to 0.45 µm.
- Easy pore size identification by coloured houses.
- Also available in individual sterile peel-packs.
- Not autoclavable, sterilization only feasible by gamma irradiation or ethylene oxide.

TECHNICAL SPECIFICATIONS

Material filter	Polyethersulfone (PES)		
Material house	Meta acrylate butadiene styrene polymerisate		
Pore size (µm)	0.1	0.2	0,45
Colour code	dark red	royal blue	yellow
Flow rate ⁽¹⁾ (ml/min)	30	160	400
Bubble point ⁽²⁾ (bar)	5	2.0	0.7
Filter diameter (mm)	28	28	28
Housing diameter (mm)	33	33	33
Filter area (cm ²)	6.2	6.2	6.2
Hold up volume (ml) (before/after bubble point)	0.3 / 0.15	0.4 / 0.23	0.4 / 0.23
Adsorption ⁽³⁾	5 µg/cm ² with BSA, 10 µg/cm ² with gamma globulin, 1.9 µg/cm ² with Insulin		
Connectors	Female luer lock inlet Male luer lock outlet		
Cytotoxicity	No inhibition with MRC-5 or L-929 cells		
Endotoxins	Endotoxins –output below the detection limit of the test (0.06 EU/ml)		
Max. operational pressure (bar)	4.5	4.5	4.5
Burst pressure (bar)	6	6	6
Max. temperature (°C)	50	50	50
Sterilization methode in sterile version	Ethylene oxide		

⁽¹⁾ Flow rate for water at Δp = 1 bar (100 kPa, 14.5 psi)

⁽²⁾ Wetting fluid: Isopropyl alcohol

⁽³⁾ For pores size 0.2 µm

APPLICATIONS

- Sterilizing of biological fluids, serum or additives of tissue culture media, where low protein binding and low extractable components are important.
- Sample preparation of aqueous solutions.
- Sample preparation of protein solutions, where maximum sample recovery is essential.
- HPLC solutions.



ORDERING INFORMATION

NON-STERILE

	Pore	0.20 µm	0.45 µm
Units/box			
100		JPES02025100	JPES04525100
500		JPES02025500	JPES04525500

STERILE

	Pore	0.10 µm	0.20 µm	0.45 µm
Units/box				
50		JPES0102550	JPES0202550	JPES0452550