STyLUX[®]

0.1 µm SP-grade Standard Capsule Filter — CS(2)/CL(2)/CJ2 Model

Description

The STyLUX[®] SP0.1 capsule filter is a hydrophilic PES membrane filter compatible with a wide range of liquids. It withstands a wide pH range (1-14) and is suited for removal of microorganisms and particulates in high-purity liquids and aqueous chemicals. The filter's asymmetric membrane provides absolute retention, superior flow rates and contaminant capacity. The STyLUX[®] filter delivers reliable and consistent high-quality performance and is ideal for prefiltration or final filtration service.

Materials of Construction

All components of the filter are either animal component free or in compliance with EMA/410/01 Rev. 3 (EDQM 5.2.8 07/2011:50208), and US Code of Federal Regulations 9 CFR 94.18 and 21 CFR 189.5. These materials are listed for food contact use in the Code of Federal Regulations (CFR), Title 21, as below:

Membrane: Upstream support: Downstream support: Outer guard: Core: End caps: Capsule housing: Sealing method:	Polyethersulfone (PES) Polypropylene Polypropylene Polypropylene Polypropylene Polypropylene Thermal bonding	CFR Title 21, 177.2440 CFR Title 21, 177.1520 CFR Title 21, 177.1520
Retention Rating	0.1 µm	
Minimum Bubble Point	45 psi (3.10 bar), water 16 psi (1.10 bar), 60% IPA/40% water 15 psi (1.03 bar), 70% IPA/30% water	
Maximum Diffusion Rate	CS: 7 mL/min @ 35 psi (2.41 bar), water CL: 14 mL/min @ 35 psi (2.41 bar), water CJ: 20 mL/min @ 35 psi (2.41 bar), water	
Typical Water Flow Rate	CS: 0.87 gpm @ 1 psid (0.478 L/min @ Δ p 10 mbar) CL: 1.17 gpm @ 1 psid (0.642 L/min @ Δ p 10 mbar) CJ: 1.57 gpm @ 1 psid (0.862 L/min @ Δ p 10 mbar) Capsule inlet/outlet selection may affect pressure drop and flow rate	
Operating Characteristics		
Operating temperature range:	32 °F to 100 °F (0 °C to 38 °C)	
Maximum concreting processing	160 °F @ 35 psig (72 °C @ 2.4 bar)	
Maximum operating pressure:	50 psig @ 100 °F (3.4 bar @ 38 °C), gas service	

Sterilization

Reverse operating pressure:

Autoclave: 121 °C to 135 °C (15 to 30 psi, 1 to 2 bar), 30 to 60 minutes, \geq 3 cycles. Water wet membrane prior to autoclaving. Irradiation: 25 to 40 kGy once. Do not autoclave irradiated capsules. Capsules must not be in-line steam sterilized.

15 psig @ 100 °F (1.0 bar @ 38 °C)

Biological Safety

STyLUX[®] filters meet the requirements as specified in the current USP <88> Class VI plastics, <87> cytotoxicity, pyrogenicity, physicochemical, and USP 43 oxidizable substances tests. Bacterial endotoxin levels in aqueous extracts of STyLUX[®] filters are less than 0.5 EU/mL, as determined using the current USP<85> *Limulus* amebocyte lysate (LAL) test. No binders, adhesives, or surfactants are used in the construction of STyLUX[®] filters. Filters comply with Commission Regulation (EU) No. 10/2011.



Quality Assurance

STyLUX[®] filters comply with the Food and Drug Administration Code of Federal Regulations, Title 21, Parts 210 and 211. Product is manufactured and packaged in a cleanroom facility that, through voluntary compliance, meets or exceeds FDA Good Manufacturing Practice Standards. To ensure product reliability, Meissner's Quality Assurance staff continually audits the manufacturing process for conformance to its Quality Management System. Each STyLUX[®] filter is integrity tested during manufacture and is clearly marked with filter type and lot number.



*CJ2 filters are animal component free (ACF) and only available with a gamma-stable polypropylene housing. **3/4 sanitary flange fitting option is only available for CS2, CL2, and CJ2 capsules.

Additional information about this filter product is available in the STyLUX® Green Docs document at www.meissner.com/green-docs.

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