EverLUX®

STW0.1 Capsule

Description

The EverLUX® STW0.1 features two serially layered, highly asymmetric and asymmetric, PES hydrophilic membranes with the coarser upstream layer optimized for prefiltration and provides the added benefit of certification that meets the critical demands of the pharmaceutical, biotechnology, and related industries.

Materials of Construction

All components of the EverLUX® filter capsule are either animal free or in compliance with EMEA/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:

Membranes:	Polyethersulfone	CFR Title 21, 177.2440
Upstream support:	Polypropylene	CFR Title 21, 177.1520
Downstream support:	Polypropylene	CFR Title 21, 177.1520
Outer guard:	Polypropylene	CFR Title 21, 177.1520
Core:	Polypropylene	CFR Title 21, 177.1520
End caps:	Polypropylene	CFR Title 21, 177.1520
Capsule housing:	Polypropylene	CFR Title 21, 177.1520
Sealing method:	Thermal bonding	

Pore Size 0.1 µm

Minimum Bubble Point
80 psi (5,5 bar), water
30 psi (2,1 bar), 60% IPA / 40% water
27 psi (1,9 bar), 70% IPA / 30% water

Maximum Diffusion Rate
1.2 ft^2: 4.4 mL/min @ 40 psi (2,76 bar), water
2.6 ft^2: 9.6 mL/min @ 40 psi (2,76 bar), water

Bacterial Retention >10^7 per cm^2 removal of *Brevundimonas diminuta* per ASTM F838-05

Operating Characteristics

Operating temperature range: 32 °F to 100 °F (0 °C to 38 °C)
Maximum tempertaure rating: 160 °F @ 35 psig (71 °C @ 2,4 bar)
Maximum operating pressure (liquid service): 75 psig @ 100 °F (5,2 bar @ 38 °C)
Maximum operating pressure (gas service): 50 psig @ 100 °F (3,4 bar @ 38 °C)

Sterilization

Autoclave: 121 to 135 °C (15 to 30 psi, 1 to 2 bar), 30 to 60 min, ≥ 3 cycles. Water wet membrane prior to autoclaving.
Gamma irradiation: 25 to 40 kGy once. Do not autoclave irradiated capsules.
Capsules must not be steamed in place (SIP).

Biological Safety

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

MEISSNER FILTRATION PRODUCTS

Quality Assurance

Each EverLUX® STW0.1 is supplied with a Certificate of Quality verifying the high standards and superior performance of the product. EverLUX® 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 EverLUX® filter is integrity tested during manufacture and is clearly marked with filter type, lot number and serial number.

Ordering Guide

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Capsule Options

Standard capsule	C
Sterile capsule	G
Opaque shell	O

Vent / Drain Ports

0	No vent / drain port
1	One luer port with cap, outlet side
2	Standard; two luer ports with caps
4	Two sanitary valve with hose barbs
5	One sanitary valve with hose barb, outlet side

Effective Filtration Area (nominal)

2.6 ft² (0,24 m²)	L
1.2 ft² (0,11 m²)	S

Housing Material Designator

Standard polypropylene	(blank)
Gamma-stable polypropylene, animal component free (ACF)	2

Inlet / Outlet Connections

00	1" sanitary (TC) flange	44	1/4" MNPT
02	1" TC in; 3/8" hose barb out	55	3/8" FNPT
0C	1" TC in; 1/2" hose barb out	66	3/8" MNPT
CC	1/2" hose barb (rigid tubing)	77	3/4" sanitary (TC) flange
22	3/8" hose barb	88	3/4" hose barb
2B	3/8" hose barb w/filling-bell	99	1/2" hose barb (flexible tubing)

Product	Filter Grade	Retention Rating
EverLUX® PES membrane(hydrophilic)	STW	0.1

Additional information about EverLUX® filter products is available in the Green Docs document which is viewable at https://www.meissner.com/downloads/everlux-gd002-2.1.pdf

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