Description
The STyLUX® 0.6 µm mini 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 and also superior flow rates and contaminant capacity. The STyLUX® filter delivers reliable and consistent high-quality performance and is ideal for prefiltration or final filtration when sterility assurance is not required.

Materials of Construction
All components of the STyLUX® mini capsule are animal component free. These materials are listed for food contact use in the Code of Federal Regulations (CFR), Title 21, as below:

- Membrane: Polyethersulfone (PES) 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
0.6 µm

Minimum Bubble Point
- 18 psi (1.2 bar), water
- 6 psi (0.4 bar) 70% IPA/30% water

Bacterial Retention
>10⁷ cfu per cm² removal of Saccharomyces cerevisiae per modified ASTM F838

Operating Characteristics
- Operating temperature range: 32 ºF to 122 ºF (0 ºC to 50 ºC)
- Maximum temperature rating: 160 ºF @ 35 psig (72 ºC @ 2.4 bar)
- Maximum operating pressure: 100 psig @ 122 ºF (6.9 bar @ 50 ºC)
- Maximum reverse pressure: 15 psig @ 100 ºF (1.0 bar @ 38 ºC)

Sterilization
Autoclave: 121 °C to 135 ºC (15 to 30 psi, 1 to 2 bar), 30 to 60 minutes, ≥ 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.

Biological Safety
STyLUX® filters meet the requirements as specified in the current USP <88> Class VI plastics, <87> cytotoxicity and physicochemical tests; after flush, filters comply with USP 43 oxidizable substances test. 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. STyLUX® CM2/CK2 capsules are TSE/BSE animal component free (ACF).

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, lot number, and serial number.
Ordering Guide

**Capsule Options**
- Standard capsule: C
- Sterile capsule: G

**Effective Filtration Area**
- 0.45 ft² (415 cm²): K
- 0.36 ft² (335 cm²): M

**Housing Material Designator**
Gamma-stable polypropylene, animal component free (ACF): 2

**Product**
- STyLUX® hydrophilic
- PES membrane

**Grade**
- SM

**Retention Rating**
- 0.6 μm

**Vent/Drain Ports**
- 0: No vent/drain port
- 1: One luer port with cap, inlet side
- 2: Standard; two luer ports with caps
- 4: Two sanitary valves with hose barbs
- 5: One sanitary valve with hose barb, inlet side
- 6: One sanitary valve with hose barb, outlet side

**Inlet/Outlet Connections**
- 11: 1/4" hose barb
- 1B: 1/4" hose barb w/filling-bell
- 22: 3/8" hose barb
- 2B: 3/8" hose barb w/filling-bell
- 41: 1/4" MNPT, 1/4" hose barb outlet
- 44: 1/4" MNPT
- 71: 3/4" sanitary flange inlet, 1/4" hose barb outlet
- 72: 3/4" sanitary flange inlet, 3/8" hose barb outlet
- 77: 3/4" sanitary flange

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

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