

## Certificate of Quality

The Polyethersulfone Membrane Cartridge Filters have been manufactured in a **mdi** facility in compliance with **ISO 9001** regulations using **validated production processes**.

## AseptiPrime KS PES Membrane Cartridge Filters

Catalog No. : CKH75401A0SS101

Type : CK

Pore Size : 0.2 μm (0.5 μm + 0.2 μm)
Lot Number : CK2284L SI.No. 054

Manufacturing Date : 2024 - 12 Expiry Date : 2029 - 12

## **SPECIFICATION**

Length	10"
Filter Media	Polyethersulfone Membrane
Drainage Layers	Polyester
Housing	Polypropylene
Differential Pressure	< 3.5 Kg/cm² at 25°C
Maximum Operating Temperature	80 °C at < 2 Kg/cm²
Reverse Pressure	< 0.7 Kg/cm² at 25°C
Sterilization	By Autoclaving or Steam-in-place (SIP)

**LOT RELEASE CRITERIA** 

**100% Integrity Tested** : The cartridge filter has been tested for integrity by Air Diffusion Flow test and Bubble

Point test using DI water.

Diffusion flows with DI water were: ≤ 30 ml/min @ 2.60 kg/cm² Bubble point value with DI water was: ≥ 50 psi (3.44 Bar)

**Typical Water Flow Rate** : 30 lpm @ 0.70 Kg/cm² @ 27 °C

**Microbial Challenge Test** : Retains  $\geq 10^7$  organisms/cm<sup>2</sup> of *B. diminuta* ATCC 19146 challenge as per ASTM

F838 methodology.

VALIDATED FOR

**Bubble point (50% IPA)** : The filter is certified/validated for integrity by Bubble point test using 50%

IPA/Water solution. Bubble point ≥ 18 psi (1.24 Bar)

**Heat Stability** : Maintains integrity after 25 autoclave/Steam sterilization cycles at 135°C for 30 minutes each.

minutes each

**Bacterial Endotoxin** : Aqueous extracts exhibit < 0.25 EU/mL as established by Limulus Amebocyte Lysate

(LAL) test as per USP <85>.

**Extractable** : Within limits as specified in USP.

Oxidizable matter : Passes test as per USP.

Blosafety : Passes Biological Reactivity Tests, *In Vivo* for Class VI plastic as described in USP

<88>.

**Cytotoxicity** : Passes Biological Reactivity Tests, *In Vitro* as described in USP <87>.

Indirect Food Additives : Passes as per FDA 21CFR 177.1520(a)1(i).

**Particle Release** : Passes test as per USP <788>, "Particulate matter in Injections".

Fiber Release : Complies with FDA 21CFR 210.3(b)(6).

**Total Organic Carbon**: Meets USP <643> limit of 500 ppb for total organic carbon after flushing specified

volume of water for injection.

**Conductivity** : Meets USP <645> limit of 1.3  $\mu$ S/cm at 25 °C for water conductivity after flushing

specified volume of water for injection.

## **CUSTOMER SUPPORT**

**mdi** offers its unique interdisciplinary skills to provide solutions to specific problems. Please contact our factory or the local application specialist.

T. No.: COQ/CAR/004-04

Om

Head of Quality Assurance

Issue Date: 17-Dec-24

Advanced Microdevices Pvt. Ltd.

Jawahargarh Road,

Village-Tepla, Ambala, INDIA. Tel: +91-171-2699290/2699274

Website: www.mdimembrane.com Email: info@mdimembrane.com

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