

# Certificate of Quality

The Nylon-66 Membrane Capsule filters have been manufactured in a **mdi** facility in compliance with **ISO 9001** regulations using **validated production processes**.

## **AseptiCap NSZ Nylon-66 Membrane Capsule Filters**

Catalog No. : DNZX5701DDXX101  
 Type : DNSZ  
 Pore Size : 0.2 µm (0.45 µm + 0.2 µm)  
 Lot Number : DN3334L SI.No. 045  
 Manufacturing Date : 2024 - 12  
 Expiry Date : 2029 - 12

### SPECIFICATION

<b>Length</b>	8"
<b>Filter Media</b>	Positively charged Nylon-66 Membrane
<b>Drainage Layers</b>	Polyester
<b>Housing</b>	Polypropylene
<b>Differential Pressure</b>	< 4Kg/cm <sup>2</sup> at 30 °C
<b>Maximum Operating Temperature</b>	80 °C @ < 2 Kg/cm <sup>2</sup>

### LOT RELEASE CRITERIA

#### 100% Integrity Tested

: The capsule filter has been tested for integrity by Bubble point test using DI water. Bubble point value with DI water was: ≥ 50 psi (3.44 Bar)

#### Typical Water Flow Rate

: 13 lpm @ 0.70 Kg/cm<sup>2</sup> @ 27 °C

#### Microbial Challenge Test

: Retains ≥ 10<sup>7</sup> 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 ≥ 17 psi (1.17 Bar)

#### Sterilization

: Autoclavable @ 125 °C for 30 minutes.

#### 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.

#### Biosafety

: Passes Biological Reactivity Tests, *In Vivo* for Class VI plastic as described in USP <88>.

#### 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 µS/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/CAP/009-02



Head of Quality Assurance

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### **Advanced Microdevices Pvt. Ltd.**

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**An ISO 9001 Company**