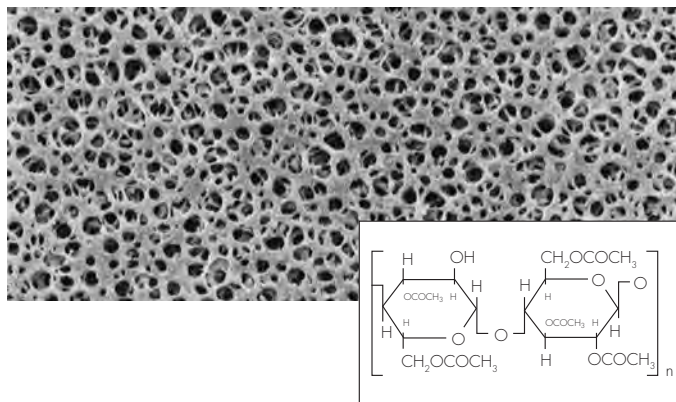


3.2 Cellulose Acetate Membranes

Type 11107, 0.2 µm



Description

Cellulose acetate membranes combine high flow rates and thermal stability with very low adsorption characteristics. The 0.2 µm membrane is the filter of choice for sterile filtration of aqueous solutions such as nutrient media, buffers and sera. The membranes are excellently suited for use in pressure filtration devices.

Color

White

Material

Cellulose acetate

Reaction to Water

Hydrophilic

Pore Size (Nominal)

0.2 µm

Structure

Symmetric

Applications and Features

Typical Applications

Sterile filtration of water, culture media, solutions containing antibiotics or proteins, cell harvesting.

Special Features

- Very low non-specific adsorption
- Excellent thermal resistance
- Validated using *Brevundimonas diminuta*

Technical Advantages

- Minimum loss of proteins, preservatives etc.
- Autoclavable at 121°C or 134°C
- Dry heat sterilization possible
- Reliable sterile filtration

Typical Performance

Adsorption, Non-specific

Bovine serum albumin
< 10 µg/cm²

Bubble Point with Water

2.9 bar | ~ 42 psi
(when measured with an automatic integrity tester)

Burst Pressure

0.5 bar | ~ 7 psi

Chemical Compatibility

Compatible with aqueous solutions (pH 4–8), oils, alcohols and several other organic solvents

Extractables with Water

< 1%

Flow Rate for Water per cm² (DIN 58355)

20 ml/min at Δp = 1 bar | ~ 15 psi

Sterilization Methods

Autoclaving at 121°C or 134°C, dry-heat sterilization at 160°C, ETO sterilization, γ-irradiation (25 kGy)

Thermal Resistance

180°C max.

Thickness (DIN 53105)

Approx. 120 µm

Sterility (AC)

Zero growth

Tests According to USP Standards

Absence of Pyrogens (Endotoxin Content)

Passed

Biological Testing (Plastic Class VI)

Passed

Extractables

Passed test after standard flushing

Particle Release

Passed

Retentive Capacity

100% retention of *Brevundimonas diminuta*, ATCC 19146 test organisms (10⁷/cm² filter area)

Order Numbers

13 mm diameter:
11107-013N, pack of 100

25 mm diameter:
11107-025N, pack of 100

30 mm diameter:
11107-030N, pack of 100

47 mm diameter:
11107-047N, pack of 100

50 mm diameter:
11107-050N, pack of 100
11107-050ACN, pack of 100
individual sterile packed

100 mm diameter:
11107-100G, pack of 25
11107-100N, pack of 100

142 mm diameter:
11107-142G, pack of 25
11107-142N, pack of 100

293 mm diameter:
11107-293G, pack of 25
11107-293N, pack of 100