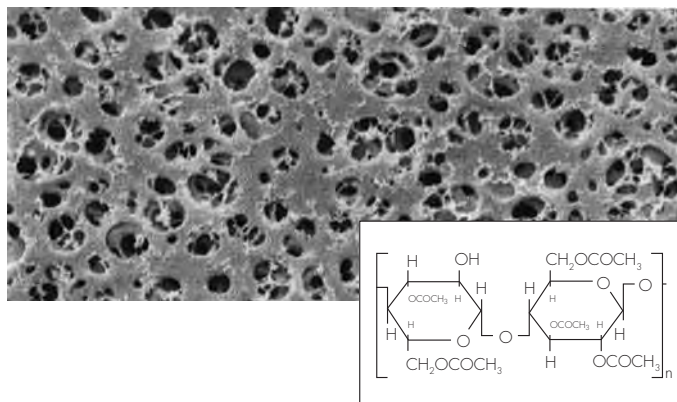


3.2 Cellulose Acetate Membranes

Type 11106, 0.45 µm



Description

Cellulose acetate membranes combine high flow rates and thermal stability with very low adsorption characteristics. The 0.45 µm membrane is a very convenient filter type for the reduction of particles and microorganisms in aqueous solutions such as nutrient media, buffers, sera and similar samples. The membrane is excellently suited for use in pressure filtration devices.

Color
White

Material
Cellulose acetate

Reaction to Water
Hydrophilic

Pore Size (Nominal)
0.45 µm

Structure
Symmetric

Applications and Features

Typical Applications

Microbe-retentive, particle-removing filtration of nutrient media, water and solutions containing antibiotics or proteins; sterility testing, colony counting.

Special Features

- Very low non-specific adsorption
- Excellent thermal resistance

Technical Advantages

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

Typical Performance

Adsorption, Non-specific

Bovine serum albumin
10 µg/cm²

Bubble Point with Water (DIN 58355)

2.4 bar | ~ 35 psi

Burst Pressure

> 0.4 bar | ~ 5.8 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)

65 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

Tests According to USP Standards

Absence of Pyrogens (Endotoxin Content)

Passed

Biological Testing (Plastic Class VI)

Passed

Order Numbers

13 mm diameter:
11106-013N, pack of 100

25 mm diameter:
11106-025N, pack of 100

30 mm diameter:
11106-030N, pack of 100

47 mm diameter:
11106-047N, pack of 100
11106--47----ACN, pack of 100

50 mm diameter:
11106-050N, pack of 100
11106--50----ACN, pack of 100

85 mm diameter:
11106-085N, pack of 100

90 mm diameter:
11106-090G, pack of 25

100 mm diameter:
11106-100G, pack of 25
11106-100N, pack of 100

142 mm diameter:
11106-142G, pack of 25
11106-142N, pack of 100

293 mm diameter:
11106-293G, pack of 25
11106-293N, pack of 100