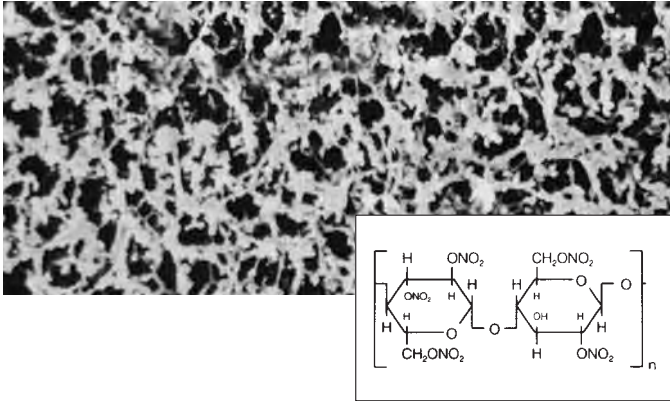


3.1 Cellulose Nitrate Membranes

Type 11305 | 11304; White, 0.65 µm | 0.8 µm



Description

Cellulose nitrate membrane filters with larger pore sizes are indicated for many applications where membranes with a high non-specific adsorption are suitable but small pore size is not required.

Color

White, no grid.

Material

Cellulose nitrate (cellulose ester)

Reaction to Water

Hydrophilic

Pore Size (Nominal)

11305 = 0.65 µm

11304 = 0.8 µm

Structure

Symmetric

Applications and Features

Typical Applications

Cell retention, sample pretreatment, particle retention, clarifying filtration etc.

Special Features

- Higher flow rate
- High non-specific adsorption

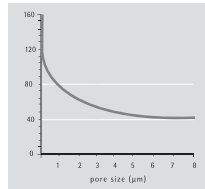
Technical Advantages

- Good retention rate for larger particles due to the high non-specific adsorption
- High flow rate

Typical Performance

Adsorption, Non-specific

The non-specific adsorption decreases with increasing pore size, see example for γ -globulin



γ -globulin,
approx. 125 µg/cm²

Bubble Point with Water (DIN 58355)

11305 2.0 bar | ~ 29 psi

11304 1.4 bar | ~ 20.3 psi

Burst Pressure

0.2 bar | ~ 2.9 psi

Chemical Compatibility

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

Extractables with Water

< 1%

Flow Rate for Water per cm² (DIN 58355)

11305 130 ml/min at $\Delta p = 1$ bar | ~ 15 psi

Flow Rate for Air [L/m²/s 200 Pa] according to*

corresponding water flow rate:
approx. 200 ml/min at $\Delta p = 1$ bar | ~ 14.5 psi

Sterilization Methods

Autoclaving at 121°C, ETO sterilization, γ -irradiation (25 kGy)

Thermal Resistance

130°C max.

Thickness (DIN 53105)

Approx. 130 µm

Sterility (AC)

Zero growth

Order Numbers

13 mm diameter:

11304-013N, pack of 100

20 mm diameter:

11304-020N, pack of 100

25 mm diameter:

11305-025N, pack of 100

11304-025N, pack of 100

37 mm diameter:

11308-037 N, pack of 100

47 mm diameter:

11305-047N, pack of 100

11305-047ACN, pack of 100

11304-047N, pack of 100

11304-047ACN, pack of 100

individual sterile packed

50 mm diameter:

11305-050N, pack of 100

11305-050ACN, pack of 100

individual sterile packed

11304-050N, pack of 100

11304-050ACN, pack of 100

individual sterile packed

90 mm diameter:

11304-090N, pack of 100

142 mm diameter:

11305-142G, pack of 25

11304-142G, pack of 25

11304-142N, pack of 100

293 mm diameter:

11304-293G, pack of 25

11304-293N, pack of 100

* ASTM D737
DIN 53'887
ISO 9'237