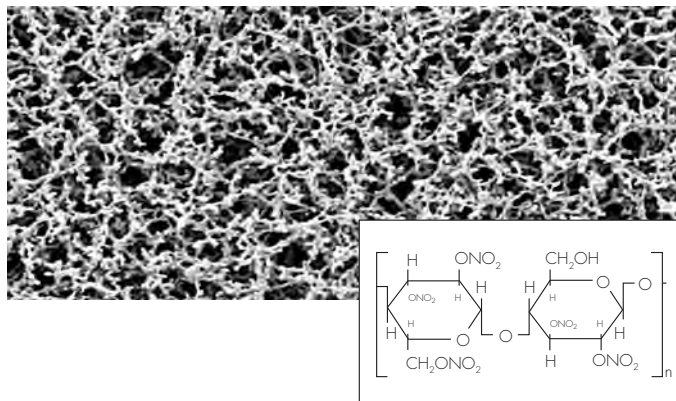


### 3.1 Cellulose Nitrate Membranes

#### Type 11306; White, 0.45 µm



#### Description

Cellulose nitrate membranes have a very uniform pore structure and are available in a wide range of pore sizes. Besides bacteria detection, the 0.45 µm membrane is used for clarifying filtration, particle collection or other analytical methods.

#### Color

White

#### Material

Cellulose nitrate (cellulose ester)

#### Reaction to Water

Hydrophilic

#### Pore Size (Nominal)

0.45 µm

#### Structure

Symmetric

#### Applications and Features

##### Typical Applications

Residue analysis, hybridity testing, liquid scintillation, ultracleaning of aqueous solutions.

##### Special Features

- Fine, uniform pore structure and high, non-specific adsorption.

##### Technical Advantages

- Effective removal of small particles on filter surfaces.
- Excellent for the filtration of water and other samples for clearing and reduction of the bioburden when sterile filtration is not required.

#### Typical Performance

##### Adsorption, non-specific

γ-globulin, approx. 125 µg/cm<sup>2</sup>

##### Bubble Point with Water (DIN 58355)

2.4 bar | ~ 35 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 cm<sup>2</sup> (DIN 58355)

70 ml/min at Δp = 1 bar | ~ 15 psi

##### Sterilization Methods

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

##### Thermal Resistance

130 °C max.

##### Thickness (DIN 53105)

Approx. 130 µm

##### Coliform Retention

100%

##### Sterility (AC)

Zero growth

#### Order Numbers

13 mm diameter:  
11306-013N, pack of 100

20 mm diameter:  
11306-020N, pack of 100

25 mm diameter:  
11306-025N, pack of 100

30 mm diameter:  
11306-030N, pack of 100

37 mm diameter:  
11306-037N, pack of 100

47 mm diameter:  
11306-047N, pack of 100  
11306-047ACN, pack of 100  
individual sterile packed

50 mm diameter:  
11306-050N, pack of 100  
11306-050ACN, pack of 100  
individual sterile packed

85 mm diameter:  
11306-085N, pack of 100

90 mm diameter:  
11306-090G, pack of 25  
11306-090N, pack of 100

142 mm diameter:  
11306-142G, pack of 25  
11306-142N, pack of 100

293 mm diameter:  
11306-293G, pack of 25  
11606-293N, pack of 100