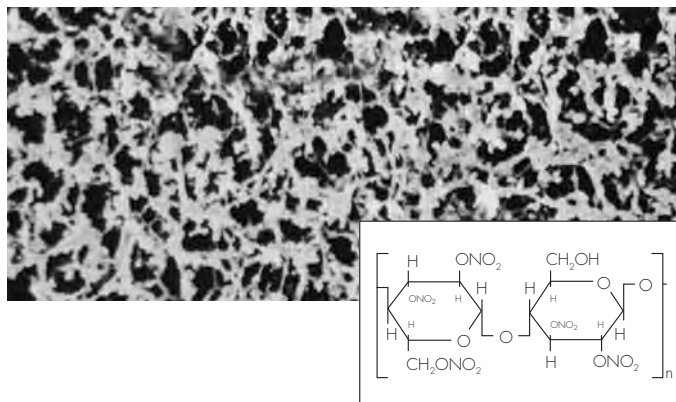


3.1 Cellulose Nitrate Membranes Type 11404; White, Black Grid, 0.8 µm



Order Numbers

25 mm diameter:
11404-025N, pack of 100

37 mm diameter:
11404-037N, pack of 100

47 mm diameter:
11404-047N, pack of 100
11404-047ACN, pack of 100
individual sterile packed
11404-047ACR, pack of 1000
individual sterile packed

50 mm diameter:
11404-050N, pack of 100
11404-050ACN, pack of 100
individual sterile packed

Description

Gridded cellulose nitrate membranes are the optimal, and most commonly used filters for microbiological testing of water, beverages, foods, pharmaceuticals, cosmetics and many other similar products.

Color

White, black grid.

Material

Cellulose nitrate (cellulose ester)

Reaction to Water

Hydrophilic

Pore Size (nominal)

0.8 µm

Structure

Symmetric

Applications and Features

Typical Applications

Microbiological examination of hard-to-filter products and applications where a higher flow rate is required. Microbiological testing of airborne bacteria.

Special Features

– Excellent culture medium

Technical Advantages

- Grid does not inhibit microbial growth.
- The high flow rate allows fast filtration and is better for hard-to-filter products.
- Larger pore size promotes growth of microorganisms like Alicyclobacillus and some yeasts and molds.
- Can be used for airborne microbes at places with high air humidity.

Typical Performance

Adsorption, Non-specific

γ-globulin, approx. 80 µg/cm²

Bubble Point with Water (DIN 58355)

1.7 bar | ~ 25 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 Air [L/m²/s 200 Pa] according to*

5.2

corresponding water flow rate:

approx. 200 ml/min at Δp = 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

* ASTM D737
DIN 53'887
ISO 9'237