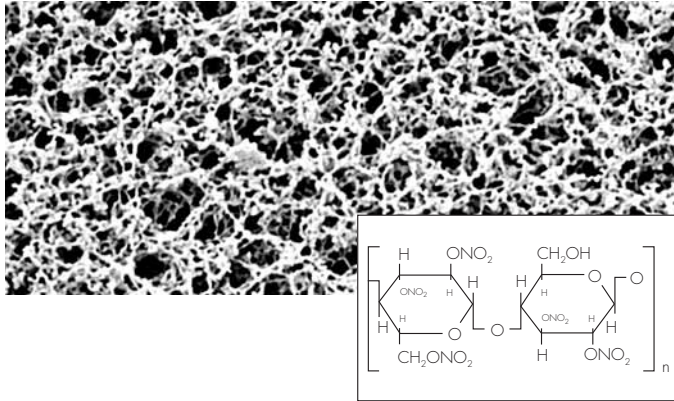


3.1 Cellulose Nitrate Membranes Type 11406|13906; White Grid, 0.45 µm



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 for E. coli, coliform and other bacteria.

Color

13906 White with green grid
11406 White with black grid

Material

Cellulose nitrate (cellulose ester)

Reaction to Water

Hydrophilic

Pore Size (ISO 7704)

0.45 µm

Structure

Symmetric

Applications and Features

Typical Applications

Microbiological testing of water, pharmaceuticals, foods, beverages and similar products for E. coli, coliform bacteria and other microorganisms were stained colonies and their surroundings require evaluation.

Special Features

- Excellent growth medium
- Perfect development of the typical colony morphology of bacteria on all culture media
- good contrast to dark particles

Technical Advantages

- Does not inhibit growth at grid
- Allow perfect development of typical color reaction of colonies on selective nutrient media.

Typical Performance

Chemical Compatibility

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

Flow Rate for Water per cm² (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)

115–145 µm

Growth Promotion Test (ISO 7704)

Bacterial recovery testing has shown that the grid lines do not enhance or inhibit the growth of microorganisms. Recovery rates of total and coliform bacteria indicate that there is no influence on bacterial growth and development due to chemical extractables.

pH of Filter Extract

< 8.3

Coliform Retention

100%

Recovery Rate, Lot-released (DIN 7704)

≥ 90%

Sterility (AC)

Zero growth

Dispenser filters

47 mm diameter:
13906Z-047SCM, pack of 300
pleated without protective disc

50 mm diameter:
13906Z-050SCM, pack of 300
pleated without protective disc

25 mm diameter:
11406-025N, pack of 100

47 mm diameter:
11406-047N, pack of 100
11406-047R, pack of 1000
11406-047ACN, pack of 100
individual sterile packed
11406-047ACR, pack of 1000
individual sterile packed

50 mm diameter:
11406-050N, pack of 100
11406-050ACN, pack of 100
individual sterile packed
11406-050ACR, pack of 1000
individual sterile packed

Dispenser filter
47 mm diameter:
11406-047SCM, pack of 300
in rolls with protective disc
11406Z-047SCM, pack of 300
pleated without protective disc

50 mm diameter:
11406-050SCM, pack of 300
in rolls, with protective disc
11406Z-050SCM, pack of 300
pleated without protective disc