

CELLULOSE NITRATE MEMBRANE FILTERS

Recommended for clarification and sterilization of aqueous solution, microbiological analysis and particle counts

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- Made of cellulose nitrate.
- Hydrophilic.
- Very high flow rate.
- High non-specific adsorption.
- Resistant to aqueous solutions (pH 4-8), hydrocarbons and some dilute solvents.
- Very uniform pore structure which ensures homogeneous distribution of the particles retained on the filter surface.
- No enhancement or inhibition by the grid lines, due to chemical extractable or by the sterilization process.
- Pore size from 0.20 µm to 8.00 µm.
- Filter diameters from 13 mm to 293 mm.
- White, black or green, gridded or plain, hydrophobic border, sterile.

Formats:

White membranes used in general laboratory applications

Gridded membranes for counts of colonies as a standard method of quantification

- *Grid*, clearly defined (3.1 x 3.1 mm grid) and coloured (green and black)
- *Special ink*, non-toxic and totally free from bacterial growth inhibitors

Coloured membranes for counts of fungi and yeasts (the particles stand out against the background of the filter)

- *Special ink*, non-toxic and totally free from bacterial growth inhibitors

Sterilised membranes (packaged in individual packets) ensure the filter is not contaminated. Available in different formats

Sterile gridded membranes with hydrophobic border (3 and 6 mm) for analysis with samples that contain antibiotics, drugs, etc.

Technical specifications:

Material	Pore µm	Thickness (1) µm	Flow rate (2) ml/min	Bubble point (3) bar
Cellulose nitrate	0.20	130	20	8.0
	0.45	130	69	2.4
	0.65	130	130	2.0
	0.80	130	200	1.4
	1.20	130	320	1.0
	3.00	130	430	0.6
	5.00	130	570	0.5
	8.00	130	750	0.3

(1) Acc. DIN 53105

(2) Acc. DIN 58355 : average value per cm² area at Ap = 1 bar

(3) Acc. DIN 58355

- Adsorption : 160 ug/cm² for γ-globulin (decreases with increasing pore size)
- Extratables with water less than 1%
- Sterilization : by autoclaving at 121°C, γ-radiation (25 kGy) or with ethylene oxide
- Maximum temperature 130°C

Applications:

- Prefiltration, clarification, sterilisation
- Particle counts and particles analysis
- Membranes with larger pore sizes (8.00 μm , 5.00 μm and 3.00 μm) are used for Chemotaxis and retention large cells
- The membranes with a pore size of 0.45 μm are used for micro-organism counts (microbiological analysis)
- Microbiological analysis of water, drug products, drinks, etc.
- Particle size analysis
- Analysis of pharmaceuticals
- Immunological analysis, which requires a very low level of extractable substance in water
- Analysis of cell solutions
- Diagnostic (due to the high level of non-specific adsorption)

NON-STERILE

		W White , plain ,Non sterile Nitrocellulose membrane (-BL)						
		White ,gridded ,Non sterile Nitrocellulose membrane (-BC)						
		White, green gridded, Non sterie Nitrocellulose membrane (-VC)						
		Green, green gridded, Non sterie Nitrocellulose membrane (-VVC)						
		Black, gridded, Non sterie Nitrocellulose membrane (-NC)						
\varnothing \ pore		0.45 μm	0.65 μm	0.80 μm	1.20 μm	3.00 μm	5.00 μm	8.00 μm
13 mm		NC04513BL	-	NC08013BL	-	NC30013BL	NC50013BL	NC80013BL
25 mm		NC04525BL	NC06525BL	NC08025BL	NC12025BL	NC30025BL	NC50025BL	NC80025BL
		NC04525BC		NC08025BC	NC12025BC			
		NC04525NC						
37 mm		NC04537BL	-	NC08037BL	-	-	-	NC80047BL
				NC08037BC				
47 mm		NC04547BL	NC06547BL	NC08047BL	NC12047BL	NC30047BL	NC50047BL	NC80047BL
		NC04547BC	NC06547BC	NC08047BC	NC12047BC			
		NC04547NC	NC06547NC	NC08047NC				
		NC04547VC						
		NC04547VVC						
	NC04547NC	NC06547NC	NC08047NC					
90 mm		NC04590BL*	-	NC08090BL*	NC12090BL*	-	NC50090BL*	-
142 mm		NC045142BL*	NC065142BL*	NC080142BL*	NC120142BL*	NC300142BL*	NC500142BL*	NC800142BL*
293 mm		NC045293BL*	-	NC080293BL*	NC120293BL*	-	NC500293BL*	NC800293BL*

STERILE

Sterile Nitrocellulose membrane 47 mm							
pore	0.20 µm	0.45 µm	0.65 µm	0.80 µm	1.20 µm	3.00 µm	8.00 µm
Colour / Grid							
BL: White / plain	-	NCS04547BL	NCS06547BL	NCS08047BL	NCS12047BL	NCS30047BL	NCS80047BL
BC: White / black grid	NCS02047BC	NCS04547BC	NCS06547BC	NCS08047BC	NCS12047BC	-	-
NC: Black/ white grid	-	NCS04547NC	NCS06547NC	NCS08047NC	-	-	-
VC: White / green grid	-	NCS04547VC	NCS06547VC	-	NCS12047VC	-	-
VVC: Green / dark green grid	-	NCS04547VVC	-	-	-	-	-
BC: White / black grid / Hydrophobic border 3 mm	NCS3H02047BC	NCS3H04547BC	-	-	-	-	-
BC: White / black grid / Hydrophobic border 6 mm	-	NCS6H04547BC	-	-	-	-	-

Presentation: 100 units / box

Other sizes available on request