

Grid Marked Cellulose Nitrate Membrane Disc Filters - Type GCN

Nupore cellulose nitrate membrane disc filters are hydrophilic, non-media migrating, biologically inert and gridded membrane filters used for product and water microbiological studies..

The grid on the surface facilitates counting of bacterial colonies. We also provide Presterilized GCN membrane in reel form.

Each Nupore GCN membrane filter is validated for sterility, microbial retention and inhibitory effect of ink grids on membrane filters, as per ASTM D 4200-82.

Special Features & Benefits

- ✓ High flow rate
- ✓ Narrow pore size distribution
- ✓ Minimal extractables

Key Applications

- Counting of colonies
- Microbiological studies

Our Nupore Disc filters (GCN) are quality assured for retention efficiency, integrity test and flow rate and validated for Heat Stability, Beta ratio test, fiber particle release, extractables and biosafety

In Compliance with Global Standards

Bacterial Endotoxin	<i>The filtrate/Aqueous extraction from downstream of the filter exhibited endotoxin result < 0.25 EU/mL when tested as per USP <85> methodology</i>
Oxidizable Substances	<i>Oxidizable matter in filtered water meets the USP <1231> Oxidizable Substance Test requirements</i>
Non-fiber Releasing	<i>Meets the criteria for a "non-fiber releasing" filter as defined in 21 CFR 210.3(b)(6).</i>
Particle Shedding	<i>Meets Cleanliness per USP <788> for Particulates in Injectables</i>
Extractable with water	<i>Extractable passes within limit as specified by USP <661></i>
TOC/ Conductivity	<i>Meets the USP <643> for Total Organic Carbon Meets the USP <645> for Water Conductivity</i>

- Manufactured in an ISO Class 8 Cleanroom Environment
- Complete Qualification Guide Available
- Critical raw material used for manufacturing are Compliant with FDA Indirect Food Additive requirements cited in 21 CFR 177.1520 & 21 CFR 177.2440
- Comply with USP <88> Reactivity Test for Class VI plastics
- Wide Chemical Compatibility
- 100% Integrity Tested

TECHNICAL SPECIFICATIONS

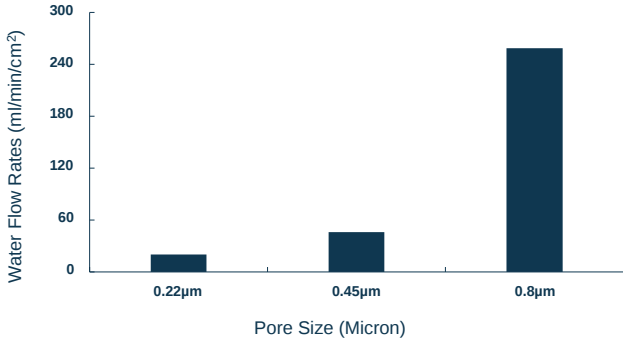


CONSTRUCTION MATERIALS

Filter Media: Cellulose Nitrate

Supporting Media: Polyester

Core & Cage: Polypropylene



MAXIMUM OPERATING DIFFERENTIAL PRESSURE AND TEMPERATURE

Max Temp 80 °C continuous

Max Pressure 5 Kg/cm²

Autoclavable Autoclavable for 30 minutes at 121 °C

INTEGRITY TEST DATA

Bubble Point:

0.22µm: ≥ 3447 mbar (50 psi) (water wetted)

0.45µm: ≥ 2206 mbar (32 psi) (water wetted)

0.80µm: ≥ 965 mbar (14 psi) (water wetted)

Microbial Retention

0.22µm: LRV > 7 for *Brevundimonas Diminuta*

0.45µm: LRV > 7 for *Serratia marcescens*

ORDERING INFORMATION CODES:

Type	
Type	Code
Gridded CN	GCN

Size	
Length	Code
47 mm	47
50 mm	50

Pore Size	
Micron	Code
0.22 µm	020
0.45 µm	045
0.80 µm	080

Sterilization	
	Code
ETO	SE
Gamma	SG
Non-sterile	SN

EXAMPLE: GCN4702SN



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