

SUPAPORE NP

Pleated Nylon Membrane Cartridge



SupaPore NP Microfiltration cartridges use a pleated high surface area Nylon 66 membrane that has been designed for use in a wide range of liquid processing applications. The naturally hydrophilic Nylon 66 membrane contains no wetting agents and has very low levels of extractables making this cartridge an ideal choice for systems requiring a reliable and consistent high-quality filtrate.

Product Features

SupaPore NP cartridges feature:

- A naturally hydrophilic N66 membrane
- Exceptionally high flow rates with low clean pressure losses
- Bacterial retention data with LRVs using *Brevundimonas diminuta* and *Serratia marcescens*
- Wide chemical compatibility

All cartridges are thermally bonded and adhesive free. Each unit is preflushed with ultra pure water and integrity tested before final assembly.

- Non Pyrogenic
- Materials meet US FDA Title 21 and USP Class VI requirements
- Meet current USP requirements for extractables, particle release and endotoxins
- Fast rinse-up time to 18 Megohm-cm¹
- Available in a wide range of absolute rated pore sizes.

Suitable for most sanitisation regimes including steaming, autoclaving, hot water flush and most common sanitising agents.

(Note: Steaming, autoclaving and hot water sanitisation must use the glass filled end-cap option)

Amazon Filters manufactures a comprehensive range of filter housings for SupaPore NP cartridges including the industrial 50 and 60 Series and the 70 Series for hygienic applications. Please consult our Sales Office for further details on the full range.



Features and Benefits

- Validated^{*2} removal ratings for consistent and reliable performance
- Fully Integrity Testable - Diffusional Flow values provided for all pore sizes
- High surface area giving high flow rates and low initial pressure losses
- Wide chemical compatibility
- Meets FDA requirements
- Thermal bonding process eliminates adhesives and ensures minimal extractables
- Identification mark on every cartridge
- Comprehensive Product Validation Guide available

*1 Electronics grades only

*2 See product guides for further details stating test method and rated efficiencies

Industries and Applications

- | | |
|------------------------|--|
| Pharmaceuticals | • Sterile filtration, WFI, Ophthalmics, Oral medications, Large volume parenterals |
| Fine Chemicals | • Aqueous and Organic bulk feeds, Solvents, Bubble jet inks |
| Electronics | • High purity water, Polishing loop return lines, Point of use |
| Cosmetics | • Alcohol, Mouthwashes, Make up water |

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SupaPore NP Technical Data

Dimensions

Outside Diameter: 68.5mm
 Typical Surface Area: 0.65m² (10")

Sterilisation and Sanitisation*3

Steam or Autoclave: 121°C for 15 mins (40 cycles)
 Hot Water: 90°C for 30 mins (0.2 bar Δp max)
*3 Applies to single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used

Maximum Operating Conditions

Temperature: 80°C
 Recommended Maximum Differential Pressure:
 Forward Flow: 4.0 Bar @ 20°C
 Reverse Flow: 3.5 Bar @ 20°C

Recommended change-out differential pressure: 2.5 Bar

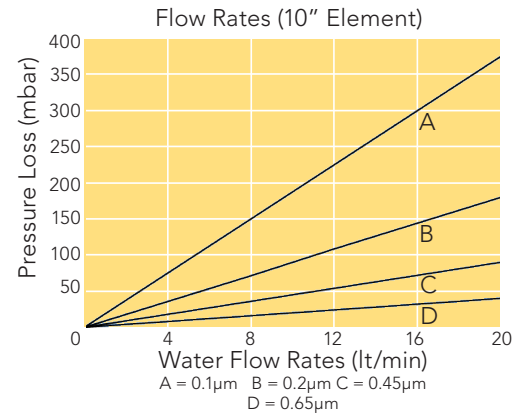
Product Validation Guide available on request. All **SupaPore NP** cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

Materials of Construction

Filter Media: Nylon 66 membrane, polypropylene support
 Cage, Core & End Caps: P - Polypropylene (PP)
 D - Polypropylene Cage and Endcaps, Glass Filled PP Core

Bacterial Challenge

16NPB002: LRV>10⁷ (*Brevundimonas diminuta* (ATCC 19146))
 16NPB004: LRV>10⁷ (*Serratia marcescens* (ATCC 14756))



Micron Rating	Diffusion Flow (cc/min/10") in water
0.1µm	≤ 30 @ 3310mBar
0.2µm	≤ 30 @ 2410mBar
0.45µm	≤ 30 @ 1380mBar
0.65µm	≤ 30 @ 1030mBar

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