

NYLON MEMBRANE CARTRIDGE

ELCPN series



Feature-Tec's ELCPN hydrophilic pleated Nylon 6.6 membrane filter cartridges do not contain any surfactants or wetting agents. This reduces the cleaning time and the cost of the membrane cartridge. ELCPN Nylon membrane filter cartridges are ideal as pre- and final filter for the filtration of Ultrapure water, chemicals and in medical applications.

Applications

- Final filtration of solvents
- Ultrapure water
- Sterile filtration
- Pharmaceuticals
- CIP filtration
- Food & beverages
- Alkaline solutions
- Chemicals and many more

Features and benefits

- Absolute removal ratings >99.9%
- Pleated hydrophilic Nylon membrane filter cartridges
- No surfactants or wetting agents
- Low initial differential pressure, high flow rates and long service life
- Flushed with 18 M Ω-cm DI-water for 30 minutes at 7.57 l/min (2 gpm) with low TOC level
- Filtration area >0.9 m² per 10" filter element

- Filter cartridges may be autoclaved for at least 10 times half - hour cycles @ 121°C (250 °F)
- According to FDA requirements title 21
- Available in a wide variety of adapter/end cap configurations

Filter specifications

Material

Pleated hydrophilic Nylon 6.6 membrane

Inner core, cage, caps, support layer

Polypropylene

O-rings / Gaskets

Buna N, Silicone, EPDM, Viton, FEP/Silicone, FEP/Viton

Retention ratings

0.22, 0.45, 0.65, 1 µm

Dimensions / Parameters

Nominal lengths

10", 20", 30", 40"
(254, 508, 762, 1016 mm)

Outside diameter

63 mm (2.48")

Inside diameter

28 mm (1.1")

Maximum operating temperature

Water: 93 °C (200 °F)

Chemical/medicine: 60 °C (140 °F)

Max. differential pressures

1.37 bar @ 93 °C (19.9 psid @ 200 °F)

2.75 bar @ 60 °C (39.8 psid @ 140 °F)

5.49 bar @ 21 °C (79.7 psid @ 70 °F)

Recommended change-out

pressure drop for disposal

2.1 bar @ 21 °C (30.5 psid @ 70 °F)

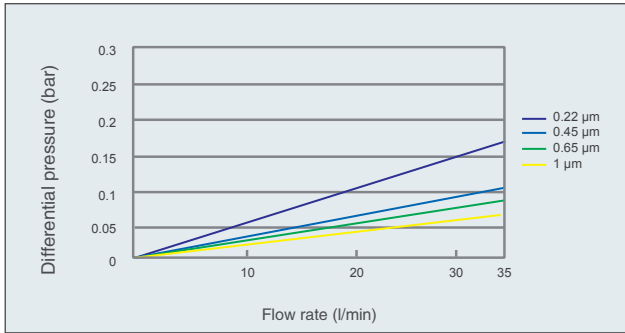
Bubble point integrity test

(Pure water, 20°C)

0.22 µm: ≥2.8 bar

0.45 µm: ≥1.2 bar

ELCPN Flow Rate (10" length)*



* For fluids with a dynamic viscosity of 1 mPa·s @ 20 °C

Ordering information

Nominal lengths

- 10: 10" (254 mm)
- 20: 20" (508 mm)
- 30: 30" (762 mm)
- 40: 40" (1016 mm)

O-rings / Gaskets

- B: Buna N
- S: Silicone
- E: EPDM
- V: Viton
- C: FEP/Viton*
- D: FEP/Silicone*
- * O-rings only

Retention ratings

- C: 0.22 µm
- D: 0.45 µm
- E: 0.65 µm
- F: 1 µm



Filter series

ELCPN: Pleated hydrophilic Nylon

End configurations

- A: 222 Flat, Single Open End (Stainless steel reinforced)*
- B: 222 Fin, Single Open End (Stainless steel reinforced)*
- C: 226 Flat, Single Open End (Stainless steel reinforced)*
- 2: 226 Flat, Single Open End
- 3: 222 Flat, Single Open End
- 4: 226 Fin, Single Open End
- 5: 226 Fin, Single Open End (Stainless steel reinforced)*
- 6: 222 Fin, Single Open End

* For autoclave requirements