

Pleated Charged Nylon 6,6 Membrane

Mem-PLEAT CN & Pur-MAXX CN

▪ Endotoxin removal

▪ Reagent Grade Chemicals

▪ API Chemicals

▪ Silica removal

▪ Fine Chemicals

▪ Biological Fluids

Strainrite's [Pleated Charged Nylon 6,6 Membrane Cartridges](#) are manufactured with highly retentive, naturally hydrophilic, Nylon membranes that have an added cationic, positively charged, functional group. The positive surface charge or positive zeta potential, provides enhanced retention of smaller negatively charged particles such as endotoxins by electrokinetic mechanisms.

These cartridges provide absolute particle retention by size exclusion while having the added benefit of removing significantly smaller, negatively charged particles. The charged Nylon 6,6 membrane provides excellent wet-out characteristics and superior flow performance per surface area in an all-polypropylene construction, as compared to other membrane cartridges. These cartridges are perfectly suited for critical applications where superior flow and particle removal efficiency between 0.04 and 1.2 micron is required.

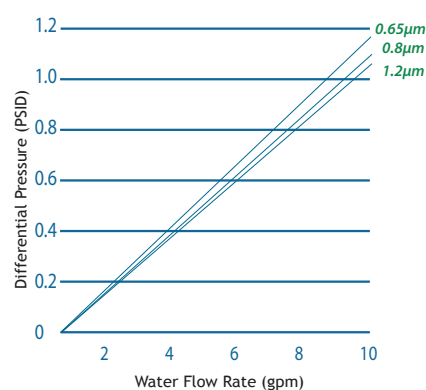
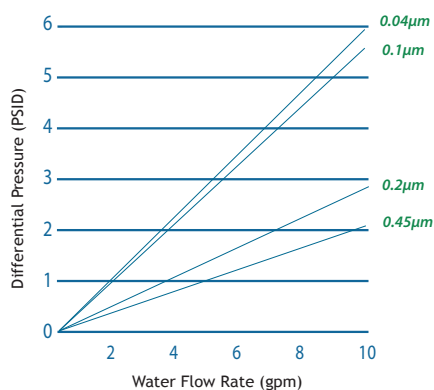


Features & Benefits

Mem-Pleat CN & Pur-MAXX CN

- Meets USP Biological Tests for USP Class VI – 121°C Plastics, in vivo and Cytotoxicity tests, in vitro
- 100% hydrophilic materials of construction that are FDA listed as suitable for contact with food and beverage
- Pharmaceutical Grade elements are 100% integrity tested
- Absolute-rated media provides reliable, consistent and repeatable filtrate quality
- High surface area, yielding lower pressure drops and longer filter life
- Positive zeta potential for removal of particles smaller than absolute rating of filter
- Non-fiber shedding polyester and polypropylene support materials eliminates fiber migration
- Lower filter extractables than other hydrophilic membranes
- IPA pre-wetting not required
- Integrity testable

Performance Characteristics



Specifications

Absolute Rated Retention

0.04, 0.10, 0.20, 0.45, 0.65, 0.80, 1.20

Maximum Differential Pressure

Forward: 75 psid (5.1 bar) @ 75°F (24°C)
 40 psid (2.8 bar) @ 180°F (82°C)
 Reverse: 50 psid (3.4 bar) @ 75°F (24°C)

Maximum Operating Temperature

180°F (82°C) Continuous Duty Polypropylene
 275°F (135°C) Continuous Duty Polyester

Toxicity

Cartridge materials meet CFR 21
 for food and beverage contact

Sterilization

Cartridge can be sterilized via steam or
 Autoclave. Cartridge may be sanitized
 in place with common sanitizing agents,
 contact factory for chemical compatibility

Packaging Economy

Bulk packaging in case quantities
 to reduce material disposal:

5 inch	48 per carton
10 inch	24 per carton
20 inch	12 per carton
30 inch	12 per carton
40 inch	9 per carton

Materials of Construction

Filter Media

Charged Nylon 6,6 cast on polyester

End Caps

Polypropylene
 Polyester

Pleat Support Material

Polypropylene
 Polyester

Cage/Core

Polypropylene
 Polyester

Seals

Buna N
 Fluorocarbon
 EPDM
 Silicone
 PTFE
 FEP Encapsulated Fluorocarbon
 FEP Encapsulated Silicone

Sealing

Thermal Bond

Dimensions

Mem-Pleat CN

Outside Diameter

2.55" (6.48cm)

Approx. Surface Area

6.8ft² per 10" equivalent

Lengths

5" (12.7cm)
 10" (25.4cm)
 20" (50.8cm)
 30" (76.2cm)
 40" (102cm)

Pur-MAXX CN

Outside Diameter

2.7" (6.87cm)

Approx. Surface Area

6.8ft² per 10" equivalent

Lengths

5" (12.7cm)
 10" (25.4cm)
 20" (50.8cm)
 30" (76.2cm)
 40" (102cm)

Ordering Information

Mem-Pleat CN

MPCN

PRMXCN

Pur-MAXX CN

