

Mem-PLEAT CN & Pur-MAXX CN

Pleated Charged Nylon 6,6 Membrane

Clarity
clear solutions

PRODUCT HIGHLIGHTS

- **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

PRODUCT DESCRIPTION

Strainrite's [Pleated Charged Nylon 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 wetout characteristics and superior flow performance per surface area in an allpolypropylene 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.

The [Pur-MAXX CN](#) now offers a Special Pleat option, which provides expected surface area improvements of as much as 25%. This optimized pleat geometry option was developed for the filtration of process fluids that require a high degree of particle retention and/or constant bacterial barrier for effective sterilization.



ABSOLUTE RATED RETENTION
0.1, 0.2, 0.45, 0.65, 0.8, 1.2 µm

OUTSIDE DIAMETER

MPN: 2.55" (6.48cm) | PRMXN: 2.7" (6.87cm)

PRODUCTION PROCESS

Thermal Bond

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)

APPROX SURFACE AREA

6.8 square feet per 10" equivalent

MAXIMUM OPERATING TEMPERATURE

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

PLEAT SUPPORT MATERIAL

Polypropylene
Polyester

FILTER MEDIA

Nylon 6,6 cast on Polyester

CAGE/CORE/ENDCAPS

Polypropylene | Polyester

TOXICITY

Cartridge materials meet USP Class VI and FDA CFR 21 for food and beverage contact

STERILIZATION

Cartridge can be sterilized via steam or Autoclave: 40 times, for 60 minutes at 257°F (125°C) and 3psi
Cartridge may be sanitized in place with common sanitizing agents, contact factory for chemical compatibility

SEALS

Buna N | Fluorocarbon | EPDM | Silicone | FEP Encapsulated Fluorocarbon |
FEP Encapsulated Silicone | PTFE Foam | PTFE Hard

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

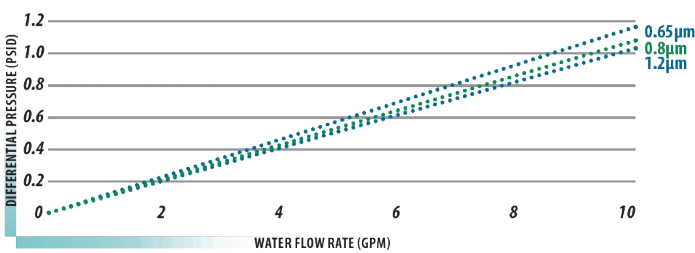
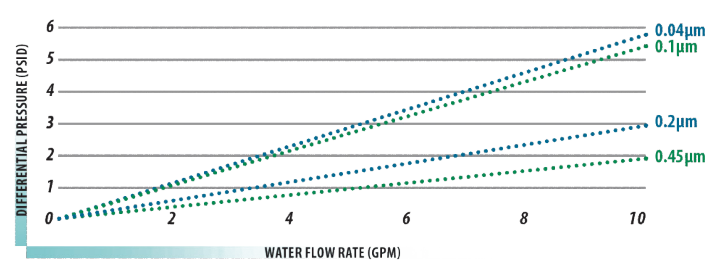
LENGTHS

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

SPECIFICATIONS

v 1026

PERFORMANCE CHARACTERISTICS



ORDER OPTIONS

CARTRIDGE	RATINGS	ENGTHS	SUPPORT	END CAP	O-RING	GRADE	OPTIONS
MPN Mem-Pleat CN (2.55") PRMXN Pur-MAXX CN (2.7")	0.04 µm 0.1 µm 0.2 µm 0.45 µm 0.65 µm 0.8 µm 1.2 µm	5" 10" 20" 30" 40"	PP = Polypropylene PE = Polyester	C1 = Double Open Ends C2 = 213/Recessed Cup C3 = Flat/222 C4 = Single Open End/Flat C5 = Recessed Cup/222 C6 = Flat/226 C7 = Fin/226 C8 = Fin/222	S = Silicone B = Buna N V = Fluorocarbon E = EPDM TF = PTFE Foam TH = PTFE Hard TV = Encapsulated Fluorocarbon TS = Encapsulated Silicone	= General 1 = FDA Grade 2 = Pharmaceutical 5 = Water	I = 316 SS Insert DIF = DI Flush APH = All Polyester Hardware PLEAT OPTION SP = Special Pleat (PRMCN only)

