

NANOFILTRATION SHEET MEMBRANE PRODUCTS

High Performance FDA-Approved Nanofiltration Sheet Membrane

SPECIFICATIONS

FDA-approved Nanofiltration Membrane for Food, Pharmaceutical, and Industrial Uses

PHYSICAL PROPERTIES

| | | |
|---------------------------------------|-----------------|-------------|
| Membrane width: | 40.0" | (1.02 m) |
| Thickness (including fabric backing): | 0.0065" | (0.0165 cm) |
| Roll Length (increments): | 820 linear feet | (250 m) |

PERFORMANCE PROPERTIES

| MODEL NUMBER | WATER FLUX | % MgSO ₄ REJ. | % NaCl REJ. | % LACTOSE REJ. |
|--------------|------------------|--------------------------|-------------|----------------|
| NF1 | 65 gfd (110 Lmh) | 99.5 | 90 | 99 |
| NF2 | 75 gfd (128 Lmh) | 99 | 55 | 98 |
| NF2A | 65 gfd (111 Lmh) | 98.5 | 35 | N/A |
| NF3A | 35 gfd (60 Lmh) | 99.5 | 40 | N/A |
| NF5 | 40 gfd (68 Lmh) | 99.5 | 46 | N/A |
| NF6 | 85 gfd (145 Lmh) | 85 | 15 | N/A |

Tests conducted using RO permeate for water flux with 0.2% marker concentration in feed for rejection determination at 150 psi, 77°F.

PROCESS & USE RESTRICTIONS[‡]

| | |
|------------------------------|--------------|
| Process pH Limitations: | 3.0—10.0 |
| CIP pH Limitations: | 2.0—11.0 |
| Maximum Process Temperature: | 122°F (50°C) |
| Maximum CIP Temperature: | 122°F (50°C) |

SANITIZER LIMITS^{**}

| SANITIZER | CIP | | | SANITIZING | | |
|--|---|-------|--------------|--|-------|--------------|
| | ppm | pH | Max. Temp | ppm | pH | Max. Temp |
| Chlorine | -0- | 11 | 122°F (50°C) | -0- | 11 | 122°F (50°C) |
| Peracetic acid & H ₂ O ₂ | 2000 (500 as H ₂ O ₂) | 3 - 7 | 77°F (25°C) | 500 (125 as H ₂ O ₂) | 3 - 7 | 77°F (25°C) |

10 minutes maximum duration for Peracetic & H₂O₂ sanitizing cycle, maximum once daily.

Notice: The process and CIP (clean—in—place) restrictions listed are on daily cleaning cycles of 4 hours total duration. Expected membrane life under these conditions is one (1) year. Consult factory for detailed warranty information.

[‡] Recommended Nominal Values— Consult factory for process specific information

^{**} Consult factory for detailed cleaning instructions