



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	80 gfd (135 Lmh)	97	50	98
NF3	25 gfd (42 Lmh)	98	60	99
NF5	52 gfd (88 Lmh)	99.9	46	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

Note: Sepro's membrane products are not designed to be sterilized.

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