

NanoPro™ B-4022

Base Stable Membrane Data Sheet

Product description

Membrane Chemistry: Proprietary Composite Nanofiltration Membrane

Membrane Type: Base Stable Nanofiltration Membrane

8040 Spiral Wound Element

Construction*: Feed Spacer: 31 mil, 46 mil

Permeate Tube: Polysulfone; Stainless Steel

Specifications

Model	Rejection %			Flux LMH	Membrane	Feed
	Glucose	NaCl	MgSO ₄	(GFD)	Area m ² (ft ²)	Spacer mil
B-4022-8040-31P	- 96	40	96	90 (53)	31 (333)	31
B-4022-8040-31S						
B-4022-8040-46P					24 (264)	46
B-4022-8040-46S						

Test Conditions: 40 bar (580 psi), 30°C (86°F), Flux measured with RO water, Feed solutions for rejection tests are 3% glucose /3.2% NaCl/ 0.2% MgSO₄ in RO water. Permeate flux may vary for individual element but it will no more than 25% below the above value.

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^{*}For special requests, please contact AMS



Operating Information(*)

Maximum Operating Pressure: 40 (580 psi)

Maximum Operating Temperature: 60°C (140°F)

Maximum Cleaning Temperature: 60°C (140°F)

Allowable pH – Continuous Operation: 3-14 Allowable pH – Clean in Place (CIP): 2-14

Maximum Pressure Drop per Element: 0.5 bar (7.2 psi)

Recirculation Flow Rate 8040: Minimum 90 L/min (24 gpm), Maximum 280 L/min (74 gpm)

(*) Consult AMS Technologies for specific information

Recommended cleaning materials

- Depending on the nature of the feed material, a choice can be made from the following cleaning agents:
 - Sodium hydroxide at pH 10-12, 40°C (104°F)
 - Nitric or hydrochloric acid at pH 1-2, 40°C (104°F)
 - 0.2-1% w/w Na-EDTA, pH 10.5-13, 35°C (91°F)
 - 0.5% anionic surfactant (such as SDS), pH 10.5-13, 35°C (91°F)
- Water quality for cleaning:
 - Maximum turbidity is 1 NTU

Nominal Product Dimensions

For 8040:



Size	A		F	3	С	
	(Inches)	(mm)	(Inches)	(mm)	(Inches)	(mm)
8040	40	1016	7.9	200	1.122	28.5



Lubricants:

For element installation, use only water or glycerin to lubricate seals. The use of petroleum or vegetable-based oils or solvents may damage the element and void any warranty.

Preservation

• Short Term (up to two weeks): 0.25% w/w sodium metabisulfite.

Storage

• The membrane should not be allowed to dry. It should be stored in a sealed bag, at 2°-30°C (35-86°F).

Typical Process Streams

4% NaOH 10% NaOH 20% NaOH 10% KOH

Our membranes run at high and stable fluxes in very caustic environment for 12 months and more.

Other

• Do not expose the membrane to chlorine or other oxidants.