

UltraPro™ S-1801

Solvent Stable Membrane Data Sheet

Product description

Membrane Chemistry: Proprietary Composite Ultrafiltration Membrane

Solvent Stable Ultrafiltration Membrane **Membrane Type:**

8040 Spiral Wound Element

Construction*: Feed Spacer: 31 mil, 46 mil

Permeate Tube: Stainless steel

Specifications

Model	Permeability (LMH/bar)	Membrane Area m2 (ft2)	Feed Spacer mil
S-1801-8040-31S	18	29 (312)	31
S-1801-8040-46S	10	23 (248)	46

Test Conditions: 2 bar (30 psi), 30°C (86°F), Flux measured with RO water. Permeate flux may vary for individual element but it will no more than 20% below the above value

Operating Information(*)

Maximum Operating Pressure: 10 bar (145 psi) Maximum Operating Temperature: 50°C (122°F) Maximum Cleaning Temperature: 50°C (122°F)

Allowable pH – Continuous Operation: 2-12 Allowable pH – Clean in Place (CIP): 1-12

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

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

(*) Consult AMS Technologies for specific information

^{*}For special requests, please contact AMS

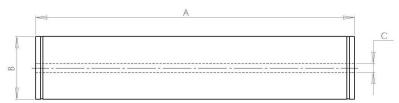


Recommended cleaning materials

- 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 10.5-11, 35°C (91°F)
 - 0.5% anionic surfactant (such as SDS), pH 10.5-11, 35°C (91°F)
- Water quality for cleaning:
 - Maximum turbidity is 1 NTU

Nominal Product Dimensions

For 8040:



Size	A		В		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 four weeks): 1% w/w sodium metabisulfite.
- Long Term: Please refer to the AMS element storage and handling instructions.

Storage

• The membrane should not be allowed to dry. It should be stored in a sealed bag, at 4°-30°C (39-86°F).

www.amsmembrane.com



Solvent Stability*:

Acetonitrile Methanol
Ethyl acetate Ethanol
2-Propanol Hexane
Tetrahydrofuran (THF) Acetone

Toluene Dimethylformamide N-Methyl Pyrrolidone Methylene chloride

Our elements are stable in the solvents listed above as well as potentially other solvents. Solvent mixtures will have different fluxes depending on the concentration of the solvent.

Other

- Do not expose the membrane to chlorine or other oxidants.
- Sodium metabisulfite (without catalysts such as cobalt) is the preferred chemical to eliminate free chlorine or other oxidizers in the feed.

www.amsmembrane.com

^{*} Determined upon immersing the membrane in pure organic solvent for a period of 3 months at 25°C (77°F).