

UltraPro™ S-1801

Solvent Stable Membrane Data Sheet

Product description

Membrane Chemistry:	Proprietary Composite Ultrafiltration Membrane
Membrane Type:	Solvent Stable Ultrafiltration Membrane 2540/4040 Spiral Wound Element
Construction*:	Feed Spacer: 31 mil, 46 mil Permeate Tube: Stainless steel

*For special requests, please contact AMS

Specifications

Model	Permeability LMH/bar	Membrane Area m ² (ft ²)	Feed Spacer mil
S-1801-2540-31S	18	1.9 (20)	31
S-1801-2540-46S		1.6 (17)	46
S-1801-4040-31S		6.5 (70)	31
S-1801-4040-46S		5.2 (56)	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:	2-11
Allowable pH – Clean in Place (CIP):	1-12
Maximum Pressure Drop per Element:	0.5 bar (7.2 psi)
Recirculation Flow Rate	2540: Minimum 7.5 L/min (2 gpm), Maximum 19 L/min (5 gpm) 4040: Minimum 22 L/min (6 gpm), Maximum 65 L/min (17 gpm)

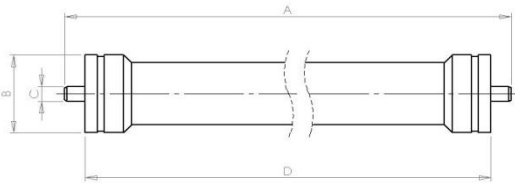
(*) Consult AMS Technologies for specific information

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 10.5-11, 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 2540/4040:



Size	A	B	C	D
	mm (inches)	mm (inches)	mm (inches)	mm (inches)
2540	1016 (40)	61 (2.4)	19 (0.75)	954 (37.5)
4040	1016 (40)	99 (3.9)	19 (0.75)	965 (38)

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 4°-30°C (39-86°F).

Solvent Stability*:

(S-Stable, LS- Limited Stability, NS-Not Stable):

Acetonitrile	S	Methanol	S
Ethyl acetate	S	Ethanol	S
2-Propanol	S	Hexane	S
Tetrahydrofuran (THF)	S	Acetone	S
Toluene	S	Dimethylformamide	S
N-Methyl Pyrrolidone	S	Methylene chloride	S

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

Other

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