## **RE 2540-BN** Normal grade RO element with thick feed spacer for brackish water

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## **SPECIFICATIONS**

General Features	Permeate flow rate: Stabilized salt rejection: Effective membrane area:	600 GPD ( 2.3 m³/day) 99.7% 24 ft² (2.5 m²)			
	1. The stated product performance is based on data taken after 30 minutes of operationat the followingtest conditions:				
	<ul> <li>2,000 mg/L NaCl solution a</li> <li>15% recovery</li> <li>77 ∘F (25 °C)</li> <li>pH 6.5 -7.0</li> </ul>	at 225 psig (1.5 MPa) applied pressure			
	2. Minimum salt rejection is 99.4%.				
	<ol> <li>Permeate flow rate for each element may vary but will be no more than 15%.</li> <li>All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individuallypackaged in a cardboard box.</li> </ol>				
	Membrane type: Membr ane material: Element configuration:	Thin-Film Composite Polyamide(PA) Spiral-Wound, FRP W rapping			

CSM

Dimensions

						Part Number	
Model Name	A	В	С	D	ш	Inter - connector	Brine Seal
RE 2540-BN	40.0 inch (1,016 mm)	2.5 inch (64 mm)	0.75 inch (19.1 mm)	1.1 inch (28 mm)	1.1 inch (28 mm)	40000305	40000223



1. Each membrane elementsupplied with one brine seal, one interconnector (coupler) and four o-rings.

2. All RE2540 elementsfit nominal2.5 inch (64 mm) I.D. pressure vessels.

The information provided in this document is solely for informative purposes It is the user's responsibility to ensure the appropriate usage of this productWoongjin Chemical assumes no obligation, liability or damages incurred for the misuse of the product or for the information provided in this documentThis document does not express or implies any warranty as to the merchantability or fitness of the product.



info@lenntech.com Tel. +31-152-610-900 www.lenntech.com Fax. +31-152-616-289



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## APPLICATION DATA

Operating Limits				
Operating Limits	Max. Pressure Drop / Element	15 psi (0.1 MPa)		
	Max. Pressure Drop / 240" Vessel	60 psi (0.41 Mpa)		
	<ul> <li>Max. O peratingPressure</li> </ul>	600 psi (4.14 MPa)		
	<ul> <li>Max. Feed Flow Rate</li> </ul>	6 gpm (1.36 m³/hr)		
	<ul> <li>Min.Concentrate Flow Rate</li> </ul>	1 gpm (0.23 m³/hr)		
	<ul> <li>Max. O peratingTemperature</li> </ul>	113 °F (45 °C)		
	<ul> <li>Operating pH Range</li> </ul>	2.0 –11.0		
	· CIP pH Range	1.0 –13.0		
	Max.Turbidity	1.0 NTU		
	<ul> <li>Max.SDI (15 min)</li> </ul>	5.0		
	Max. Chlorine Concentration	< 0.1 mg/L		
Design Guidelines for Various	• Waste water Conventional (SDI < 5)	8–12 gfd		
Water Sources	• Wastewater Pretreated by UF/MF (SDI < 3)	10–14 gfd		
	• Seawater, Open Intake (SDI < 5)	7–10 gfd		
	Seawater, Beach Well (SDI < 3)	8–12 gfd		
	SurfaceWater (SDI < 5)	12–16 gfd		
	• SurfaceW ater (SDI $<$ 3)	13–17 gfd		
	• Well water (SDI < 3)	13–17 gfd		
	· RO permeate (SDI < 1)	21–30 gfd		
Saturation Limits	Langlier Saturation Index(LSI)	<+1.5		
(Using Antiscalants) <sup>†</sup>	• Stiff and Davis Saturation Index(SDSI)	<+0.5		
	· CaSO 4	230% saturation		
	· SrSO <sub>4</sub>	800% saturation		
	· BaSO4	6,000% saturation		
	· SiO <sub>2</sub>	100% saturation		
	<sup>†</sup> The above saturation limits are typically accepted by proprietary antiscalant manufacturers. It is the user's responsibility to ensure proper chemical(s) and concentration are dosed ahead of the membrane system to prevent scale formation anywhere within the membrane system. Membrane elements fouled or damaged due to scale formation are not covered by the limited warranty.			

## GENERAL HANDLING PROCEDURES

Elements contained in the boxes must be kept dry at room temperature  $(7-32^{\circ}C; 40-95^{\circ}F)$  and should not be stored in direct sunlight. If the polyethylene bag is damaged a new preservative solution (sodium bisulfite) must be added and airtight sealed to prevent drying and biological growth.

Permeate from the first hour of operation should be discarded to flush out the preservative solution.

Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium **is**ulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing biological growth. Keep elements moist at all times after initial wetting.

Avoid excessive pressure and flow spikes.

Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.

Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.

LENNTECH info@lenntech.com Tel. +31-152-610-900 www.lenntech.com Fax. +31-152-616-289