

**Product Data Sheet** 



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## FilmTec<sup>™</sup> Fiberglassed Elements for Light Industrial Systems

Description	<ul> <li>FilmTec<sup>™</sup> brackish water reverse osmosis membrane elements provide consistent system performance in light industrial applications.</li> <li>FilmTec<sup>™</sup> BW30-4040 is an industry standard for reliable operation and production of high quality water.</li> <li>FilmTec<sup>™</sup> BW30-2540 Elements are designed for systems smaller than 1 gpm (0.2 m<sup>3</sup>/h) offering a hard shell exterior for extra strength.</li> </ul>
	Elements with a hard shell exterior are recommended for systems with multiple- element housings containing three or more membranes, as they are designed to withstand higher pressure drops.
Product Type	Spiral-wound element with polyamide thin-film composite membrane

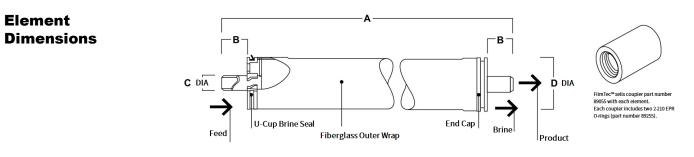
## **Typical Properties**

Product	Part Number	Feed Spacer Thickness (mil)	Permeate Flow Rate gpd (m <sup>3</sup> /d)	Stabilized Salt Rejection %
BW30-4040	80783	34	2,400 (9.1)	99.5
BW30-2540	80766	28	1,000 (3.8)	99.5

1. Permeate flow and salt rejection based on the following test conditions: 2,000 ppm NaCl and 225 psig (15.5 bar), pH 8, 77°F (25°C) and 15% recovery.

Minimum salt rejection is 98.0%. 2.

Permeate flows for individual elements may vary +/-20%. 3.



Dimensions – inches (mm)			1 inch = 25.4 mm	
Product	Α	В	С	D
BW30-4040	40.0 (1,016)	1.05 (26.7)	0.75 (19)	3.9 (99)
BW30-2540	40.0 (1,016)	1.19 (30.2)	0.75 (19)	2.4 (61)

1. Refer to FilmTec<sup>™</sup> Design Guidelines for multiple-element systems of midsize elements (Form No. 45-D01588-en).

BW30-2540 Elements fit nominal 2.5-inch I.D. pressure vessel. BW30-4040 Elements fit nominal 4-inch I.D. 2. pressure vessel.

Operating and	Membrane Type	Polyamide Thin-Film Composite		
Cleaning Limits	Maximum Operating Temperature <sup>a</sup>	113°F (45°C)		
Cleaning Linits	Maximum Operating Pressure	600 psi (41 bar)		
	Maximum Feed Flow Rate			
	4040 Elements	16 gpm (3.6 m³/h)		
	2540 Elements	6 gpm (1.4 m <sup>3</sup> /h)		
	Maximum Pressure Drop	15 psig (1.0 bar)		
	pH Range			
	Continuous Operation <sup>a</sup>	2 - 11		
	Short-Term Cleaning (30 min.) <sup>b</sup>	1 - 13		
	Maximum Feed Silt Density Index (SDI)	SDI 5		
	Free Chlorine Tolerance <sup>c</sup>	< 0.1 ppm		
	<ul> <li>a. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).</li> <li>b. Refer to <u>FilmTec™ Cleaning Guidelines</u> (Form No. 45-D01696-en).</li> <li>c. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, it is recommended that residual free chlorine be removed by pretreatment prior to membrane exposure. Please refer to <u>Dechlorinating</u> <u>Feedwater</u> (Form No. 45-D01569-en) for more information</li> </ul>			
Important Information	Proper start-up of reverse osmosis water trea membranes for operating service and to prev overfeeding or hydraulic shock. Following the ensure that system operating parameters con system water quality and productivity goals ca	ent membrane damage due to proper start-up sequence also helps nform to design specifications so that		
	Before initiating system start-up procedures, membrane elements, instrument calibration a completed.			
	Please refer to the application information lite (Form No. 45-D01609-en) for more information			
Operation Guidelines	<ul> <li>Avoid any abrupt pressure or cross-flow varia up, shutdown, cleaning or other sequences t During start-up, a gradual change from a stan as follows:</li> <li>Feed pressure should be increased gr</li> <li>Cross-flow velocity at set operating po 20 seconds.</li> </ul>	o prevent possible membrane damage. dstill to operating state is recommended		
	Please refer to the <u>FilmTec™ Reverse Osmo</u> (Form No. 45-D01504-en).	<u>sis Membranes Technical Manua</u> l		

General Information	<ul> <li>Keep elements moist at all times after initial wetting</li> <li>For successful operation of Reverse Osmosis (RO) and Nanofiltration (NF) membrane systems, the operation must follow the guidelines provided in the FilmTec™ Reverse Osmosis / Nanofiltration Elements Operation Excellence and Limiting Conditions Tech Fact (Form No. 45-D04388-en).</li> <li>To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution</li> <li>The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements</li> <li>Maximum pressure drop across an entire pressure vessel (housing) is 50 psi (3.4 bar)</li> <li>Avoid static permeate-side backpressure at all times</li> </ul>
Storage	Refer to <u>Storage and Shipping of New FilmTec™ Elements</u> (Form No. 45-D01633-en) for further information.
Product Stewardship	DuPont has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with DuPont products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.
Customer Notice	DuPont strongly encourages its customers to review both their manufacturing processes and their applications of DuPont products from the standpoint of human health and environmental quality to ensure that DuPont products are not used in ways for which they are not intended or tested. DuPont personnel are available to answer your questions and to provide reasonable technical support. DuPont product literature, including safety data sheets, should be consulted prior to use of DuPont products. Current safety data sheets are available from DuPont.
	<ul> <li>Please be aware of the following:</li> <li>The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.</li> <li>Permeate obtained from the first hour of operation should be discarded.</li> </ul>
Regulatory Note	This product may be subject to drinking water application restrictions in some countries; please check the application status before use and sale.

## Have a question? Contact us at:

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