

Product Data Sheet

FilmTec[™] BW30-400 Membranes

High Rejection, High Surface Area Brackish Water RO Element

Description	 The FilmTec[™] BW30-400 is the product of choice when the highest quality permeate is required. It was the first 400 square foot membrane element on the market and continues to be widely used in new equipment and retrofits where system capital and productivity are factors. DuPont's superior automated manufacturing technology results in the most consistent performance element-to-element and year-after-year. FilmTec[™] BW30-400 Elements deliver high flow and high rejection without being chlorinated during the manufacturing process. This is one reason why FilmTec[™] Elements are more durable and may be cleaned over a wider pH range (pH 1-13) than other RO elements. With more than a decade of proven performance, FilmTec[™] BW30-400 is the product you can rely on for years of trouble-free operation
	product you can rely on for years of trouble-free operation.

Product Type Spiral-w

Typical Properties

Spiral-wound element with polyamide thin-film composite membrane

			Permeate flow		
FilmTec™	Active area	Feed spacer thickness	rate	Stabilized salt rejection	Minimum salt rejection
Element	ft ² (m ²)	(mil)	gpd (m³/d)	(%)	(%)
BW30-400	400 (37)	28	10,500 (40)	99.5	99.0

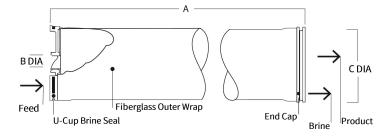
1. Permeate flow and salt rejection based on the following standard conditions: 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH 8 and 15% recovery.

2. Flow rates for individual elements may vary but will be no more than 15% below the value shown.

3. Sales specifications may vary as design revisions take place.

4. Active area guaranteed +/-3%. Active area as stated by DuPont is not comparable to nominal membrane area often stated by some manufacturers.

Element Dimensions





FilmTec sells coupler part number 313198 with each element. Each coupler includes two 3-912 EPR O-rings (part number 151705).

	Dimensions – inches (mm)		1 inch = 25.4 mm
FilmTec™ Element	Α	В	C
BW30-400	40.0 (1,016)	1.125 ID (29)	7.9 (201)

1. Refer to FilmTec[™] Design Guidelines for multiple-element systems of 8-inch elements

(Form No. 45-D01695-en) and recommended element recovery rates for various feed sources.

2. Element to fit nominal 8.0-inch (203 mm) I.D. pressure vessel.

		
Suggested	Membrane Type	Polyamide Thin-Film Composite
Operating	Maximum Operating Temperature ^a	113°F (45°C)
Conditions	Maximum Operating Pressure	600 psig (41 bar)
	Maximum Pressure Drop pH Range	15 psig (1.0 bar)
	Continuous Operation ^a	2-11
	Short-Term Cleaning (30 min.) ^b	1 - 13
	Maximum Feed Flow	70 gpm (15.9 m ³ /hr)
	Maximum Feed Silt Density Index	SDI5
	Free Chlorine Tolerance ^c	<0.1 ppm
	membrane failure. Since oxidation damage is no	96-en). Ilorine and other oxidizing agents will cause premature ot covered under warranty, DuPont recommends removing mbrane exposure. Please refer to <u>Dechlorinating</u>
Important Information		esign specifications so that system water
	Before initiating system start-up procedures membrane elements, instrument calibratior completed.	
	Please refer to the application information li (Form No. 45-D01609-en) for more informat	
Operation Guidelines		riations on the spiral elements during start-up, prevent possible membrane damage. During to operating state is recommended as
		gradually over a 30-60 second time frame. point should be achieved gradually over 15-
General Information	that membrane elements be immersed inThe customer is fully responsible for the lubricants on elements.	a this bulletin are not strictly followed, the filtration Three-Year Prorated Limited be null and void. onged system shutdowns, it is recommended in a preservative solution. effects of incompatible chemicals and e pressure vessel (housing) is 50 psi (3.4 bar).

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.
	 Please be aware of the following: 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. Permeate obtained from the first hour of operation should be discarded.
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:

www.dupont.com/water/contact-us

All information set forth herein is for informational purposes only. This information is general information and may differ from that based on actual conditions. Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where DuPont is represented. The claims made may not have been approved for use in all countries. Please note that physical properties may vary depending on certain conditions and while operating conditions stated in this document are intended to lengthen product lifespan and/or improve product performance, it will ultimately depend on actual circumstances and is in no event a guarantee of achieving any specific results. DuPont assumes no obligation or liability for the information in this document. References to "DuPont" or the "Company" mean the DuPont legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. No freedom from infringement of any patent or trademark owned by DuPont or others is to be inferred.

© 2020 DuPont. DuPont[™], the DuPont Oval Logo, and all trademarks and service marks denoted with [™], sM or [®] are owned by affiliates of DuPont de Nemours Inc., unless otherwise noted.

