

**Product Data Sheet** 

# FilmTec<sup>™</sup> BW30HRLE-440i Element

Description	Ideal for: reverse osmosis plant managers and operators dealing with controlled-pre-treatment waters and seeking advanced membrane treatment with good water purity and low energy consumption.				
	<ul> <li>FilmTec<sup>™</sup> BW30HRLE-440i:</li> <li>Offers good salt-rejection with 33% lower pressures</li> <li>Delivers excellent silica, boron, nitrate, IPA and ammonium rejection</li> </ul>				
	<ul> <li>Provides increased active area with the most effective cleaning performance, robustness and durability due to its widest cleaning pH range (1-13) and chemical tolerance and the support of DuPont technical representatives</li> </ul>				
	<ul> <li>Includes iLEC<sup>™</sup> interlocking end caps, reducing system operating costs and the risk of o-ring leaks that can cause poor water quality</li> </ul>				
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#### Spiral-wound element with polyamide thin-film composite membrane **Product Type**

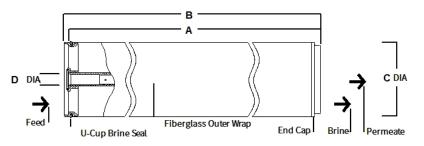
# **Typical Properties**

	Active Area		Feed Spacer	Permeate Flow Rate		Typical Stabilized Salt	Minimum Salt	
FilmTec™ Element	(ft <sup>2</sup> )	(m²)	Thickness (mil)	(GPD)	(m <sup>3</sup> /d)	Rejection (%)	Rejection (%)	
BW30HRLE-440i	440 41	41	28	12,650	48	99.3	99.1	
		a. Pe	rmeate flow and salt (Na	ICI) rejection ba	sed on the fo	bllowing standard test condition	ns: 2,000 ppm NaCl,	
			0 psi (10.3 bar), 77°F (25 ow rates for individual ele			no more than + 15%		

c. Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.
d. Sales specifications may vary as design revisions take place.
e. Active area guaranteed ± 3%. Active area as stated by DuPont Water Solutions is not comparable to nominal

membrane area often stated by some manufacturers.

### Element Dimensions



	Dimensions	– inches (mm	)				1 inc	h = 25.4 mm
		۹.		В		С	D	1
FilmTec™ Element	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
BW30HRLE-440i	40.0	1,016	40.5	1,029	7.9	201	1.125 ID	29 ID

1. Refer to FilmTec<sup>™</sup> Design Guidelines for multiple-element systems of 8-inch elements

(Form No. 45-D01695-en).

2. Element to fit nominal 8-inch (203-mm) I.D. pressure vessel.

3. Individual elements with iLEC<sup>™</sup> endcaps measure 40.5 inches (1,029 mm) in length (B). The net length (A) of the elements when connected is 40.0 inches (1,016 mm).

Operating	and
<b>Cleaning L</b>	.imits

Maximum Operating Temperature <sup>a</sup>	113°F (45°C)
Maximum Operating Pressure	600 psig (41 bar)
Maximum Element 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

a. Maximum temperature for continuous operation above pH 10 is 95°F (35°C).

b. Refer to FilmTec<sup>™</sup> Cleaning Guidelines (Form No. 45-D01696-en).

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, DuPont Water Solutions recommends removing residual free chlorine by pretreatment prior to membrane exposure. Please refer to Dechlorinating Feedwater (Form No. 45-D01569-en) for more information.

Before use or storage, review these additional resources for important information:

• Usage Guidelines for FilmTec<sup>™</sup> 8" Elements (Form No. 45-D01706-en)

### • Start-Up Sequence (Form No. 45-D01609-en)

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### Additional Important Information

### Product Stewardship

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> </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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