

**Product Data Sheet** 



### FilmTec<sup>™</sup> Fortilife<sup>™</sup> CR50 Element

Durable, Contaminant Resistant Brackish Water RO Element

**Description** The FilmTec<sup>™</sup> Fortilife<sup>™</sup> product family offers solutions for industrial-users to improve water efficiency by incorporating membrane and element design innovations that enable systems to clean-less, recover-more, and waste-less.

The FilmTec<sup>™</sup> Fortilife<sup>™</sup> CR50 reverse osmosis element is contaminant resistant and offers long element lifetimes and reliable system performance when treating biological and organic fouling prone waters.



#### Advantages

- Durable membrane for consistent, long-lasting lifetime.
- Contaminant resistant element design provides reliable system performance
- Durable membrane with a cleaning tolerance over a wide pH range (pH 1-13) for consistent, long-lasting lifetime.
- 13) for consistent, long-lasting metime.

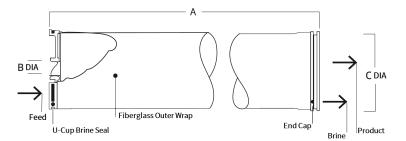
#### **Product Type**

Spiral-wound element with polyamide thin-film composite membrane

#### **Typical Properties**

	Active Area		Feed Spacer	Permeate Flow Rate		Typical Stabilized Salt	Minimum Salt				
FilmTec™ Element	(ft <sup>2</sup> )	(m <sup>2</sup> )	Thickness (mil)	(GPD)	(m <sup>3</sup> /d)	Rejection (%)	Rejection (%)				
Fortilife™ CR50	400	37	34-LDP	11,000	42	99.6	99.4				
		1.	Permeate flow and salt (	NaCI) rejection	is based on	the following standard test cond	ditions: 2,000 ppm				
			NaCl, 225 psi (15.5 bar)	, ,		•	· · · ·				
		2.	Flow rates for individual	elements may	vary but will b	be no more than ± 15%.					
		3.	Stabilized salt rejection i	s generally ach	ieved within 2	a 24-48 hours of continuous use; depending					
			upon feedwater characte	eristics and ope	rating conditi	ng conditions.					
<ol> <li>Sales specifications may vary as design revisions take place.</li> </ol>						ke place.					
		5.	Active area guaranteed	± 3%. Active ar	ea as stated	by DuPont Water Solutions is n	ot comparable to				
nominal membrane area often stated by some manufacturers.											

# Element Dimensions





	Dimensions			<u>1 i</u>	nch = 25.4 mm			
		Α	E	3		C		
FilmTec™ Element	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		
Fortilife™ CR50	40.0	1,016	1.125 ID	29 ID	7.9	201		
	elements (For	<mark>Fec™ Design Guidelir</mark> rm No. 45-D01695-en nominal 8-inch (203-r	).		-inch			
Operating and	Maximum Operating Temperature <sup>a</sup> 113°F (45°C)							
Cleaning Limits	Maximum Operati			600 psig (41 bar)				
	Maximum Elemen			15 psig (1.0 ba	ar)			
	pH Range							
	Continuous Ope	eration a			2–11			
	Short-Term Cle	aning (30 min.) <sup>b</sup>		1–13				
	Maximum Feed Si	It Density Index (SD	I)	SDI 5				
	Free Chlorine Tole	erance <sup>c</sup>		< 0.1 ppm				
Additional Important Information	to <u>Dechlorinating Feedwater</u> (Form No. 45-D01569-en) for more information. Before use or storage, review these additional resources for important information: I <u>Usage Guidelines for FilmTec™ 8" Elements</u> (Form No. 45-D01706-en) I <u>Start-Up Sequence</u> (Form No. 45-D01609-en)							
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## **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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