

Product Data Sheet



FilmTec[™] SW30HRLE-370/34i Element

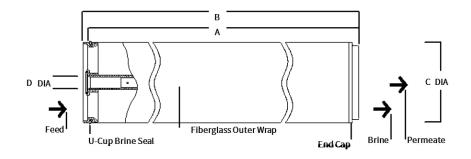
Seawater Reverse Osmosis Element with iLEC[™] Interlocking Endcaps

Description	DuPont Water Solutions offers various premium seawater reverse osmosis (RO)						
	elements designed to produce high quality water and reduce capital and operation cost of seawater RO systems. These products combine premium membrane performance with automated precision fabrication to provide reliable and consistent performance.						
	FilmTec [™] SW30HRLE-370/34i Elements are durable, high-rejection, high-productivity seawater elements for use in high-fouling or challenging feedwater conditions, helping to support smooth operations and low cost of water.						
	 Benefits of the FilmTec[™] SW30HRLE-370/34i Element include: A wide 34-mil feed spacer to lessen the impact of fouling on pressure drop across a vessel and enhance cleaning effectiveness. An active area of 370 ft², maximizing productivity and enabling accurate and predictable system design and operating flux. Utilization of the distinct iLEC[™] Interlocking Endcaps that help to reduce system operating costs and reduce the risk of O-ring leaks that cause poor water quality. Effective use in permeate-staged seawater desalination systems without impairing the performance of the downstream stage. High performance over the operating lifetime without the use of oxidative posttreatments. FilmTec[™] Elements are more durable and may be cleaned over a wider pH range (1 – 13). Automated, precision fabrication with a greater number of shorter membrane leaves reducing the effect of overall fouling and maximizing element efficiency. 						
Product Type	Spiral-wound element with polyamide thin-film composite membrane						

Typical Properties

	Permeate								
	Active Area		Feed Spacer	Flowrate		Stabilized Boron	Stabilized Salt		
FilmTec™ Element	(ft ²)	(m ²)	Thickness (mil)	(gpd) (m ³ /d)		Rejection (%)	Rejection (%)		
SW30HRLE-370/34i	370	34.4	34	6,700	25	92	99.80		
		1. The	e above values are norm	alized to the f	following con	ditions: 32,000 ppm NaCl, 5	5 ppm boron, 800		
		psi	(5.5 MPa), 77°F (25°C),	pH 8, 8% rec	overy.				
		2. Pei	Permeate flows for individual elements may vary ± 15%.						
		3. Mir	Minimum Salt Rejection is 99.65%.						
		4. Sta	Stabilized salt rejection is generally achieved within 24 – 48 hours of continuous use, depending						
		upo	on feedwater characterist	ics and operation	ating conditio	ons.			
		5. Pro	Product specifications may vary slightly as improvements are implemented.						
		6. Act	Active area guaranteed ± 5%. Active area as stated by DuPont Water Solutions is not comparable to						
		the	nominal membrane area	a figure often	stated by so	me element suppliers	-		

Element Dimensions



	Dimensions	s – inches							
	(mm)						1 inch = 25.4 mm		
		Α		В		C	D		
FilmTec™ Element	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SW30HRLE-370/34i	40.0	1,016	40.5	1,029	7.9	201	1.125 ID	29 ID	
		Refer to <u>FilmTec</u> <u>elements</u> (Form Element to fit no Individual element net length (A) of	No. 45-D0169 minal 8-inch (2 nts with iLEC™	5-en). 203-mm) I.D. pr ™ Interlocking E	essure vesse indcaps mea	el. sure 40.5 inches	_	ength (B). The	
Operating and	Max	Maximum Operating Temperature ^{a, b}				11	113°F (45°C)		
Cleaning Limits	Max	kimum Operating	Pressure ^b			1,2	200 psig (83 bar)	
•		kimum Element P	ressure Drop			15	psig (1.0 bar)		
		Range							
	Continuous Operation ^a					2–			
		Short-term Cleaning (30 min) ^c					13		
		Maximum Feed Silt Density Index (SDI)				SDI 5			
	Free	Free Chlorine Tolerance ^d < 0.1 ppm							
	 b. Consult your DuPont representative for advice on applications above 95°F (35°C). Refer to FilmTec[™] Seawater Elements Operating Limits (Form No. 45-D00691-en) for warranty-voiding conditions and additional_information. c. Refer to guidelines in FilmTec[™] Cleaning Guidelines (Form No. 45-D01696-en) for more information. d. 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. 								
Additional Important Information	 Before use or storage, review these additional resources for important information: Usage Guidelines for FilmTec[™] 8" Elements (Form No. 45-D01706-en) <u>Start-Up Sequence</u> (Form No. 45-D01609-en) <u>Storage and Shipping of New FilmTec[™] Elements</u> (Form No. 45-D01633-en) 					δ-en)			
Product	DuF	ont has a fund	lamental co	ncern for all	who make	, distribute, a	and use its pro	oducts, and	
Stewardship	for the environment in which we live. This concern is the basis for our product stew philosophy by which we assess the safety, health, and environmental informatic our products and then take appropriate steps to protect employee and public he and our environment. The success of our product stewardship program rests wi and every individual involved with DuPont products—from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.				ition on health with each				

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	 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.					

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