

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.

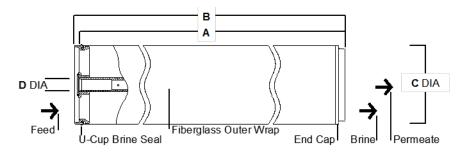
Product Type

Spiral-wound element with polyamide thin-film composite membrane

Typical Properties

	Permeate Flow								
FILMTEC™ Element SW30HRLE–370/34i	Active Area		Feed Spacer	Rate		Stabilized Boron	Stabilized Salt		
	(ft ²)	(m²)	Thickness (mil)	(GPD)	(m³/d)	Rejection (%)	Rejection (%)		
	370	34.4	34	6,700	25	92	99.80		
		1.			0	conditions: 32,000 ppm NaC	Cl, 5 ppm boron, 800 psi		
		•	(5.5 MPa), 77°F (25°C), p	,	,				
		2.	Permeate flows for indivi	dual element	s may vary ±	15%.			
		3.	Minimum Salt Rejection is	s 99.65%					
		4.	Stabilized salt rejection is	s generally ad	chieved withir	n 24 – 48 hours of continuou	us use; depending upon		
			feedwater characteristics	• •					
		5.			0				
		6.	•			d by DuPont Water Solution	a is not comparable to the		
		0.	0			ne element suppliers. Measi			

Element Dimensions



	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	
	2. Eler 3. Indi	ment to fit nom vidual elemen	ninal 8-inch (2 ts with iLEC™	03-mm) I.D. pr 1 Interlocking B	essure vessel Endcaps mea		pplications. 1 inch s (1,029 mm) in ler		
Operating and	Maximum	Operating To	emperature ^a	b		113°F	= (45°C)		
Cleaning Limits	Maximum Operating Pressure ^b			1,200 psig (83 bar)					
Cleaning Linits	Maximum	Element Pre	ssure Drop			15 ps	ig (1 bar)		
	pH Range	Э				-			
	Contin	uous Operatio	on ^a			2-11	I		
	Short-	Term Cleanin	g (30 min.) ^c			1 – 13	3		
	Maximum	Feed Silt De	nsity Index (S	iDI)		SDI 5			
	Free Chlo	orine Toleran	ce ^d			< 0.1	ppm		
	d. Und mer reco	ler certain con nbrane failure ommends rem	ditions, the p . Since oxidat oving residua	tion damage is	e chlorine and not covered by pretreatme	l other oxidizing under warranty, ent prior to memb	agents will cause DuPont Water So orane exposure. P	Iutions	
Additional Important Information	 Usaç Syst Hano 	ge Guidelin em Operati dling, Prese	es for FILM on: Initial ervation an	ITEC™ 8" Start-Up d Storage	<u>Elements</u>		portant informa	tion:	
	* Permeate obtained from first hour of operation should be discarded DuPont has a fundamental concern for all who make, distribute, and use its products, and								
Product Stewardship	for the e philosop products	nvironment by by which and then t	t in which w n we asses ake approp	ve live. This s the safety priate steps	concern is , health, ar to protect e	the basis for d environme employee and	and use its proc our product ste ntal informatio d public health sts with each a	ewardship n on our and our	

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 (or in a few cases: Any concentrate or permeate obtained from the first hour of operation should be discarded). 					
Regulatory Note	These membranes may be subject to drinking water application restrictions in some countries: please check the application status before use and sale.					

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