



Product Data Sheet

FilmTec™ SW30HR-380 Element

High Rejection, Seawater Reverse Osmosis Membranes

Description

FilmTec™ SW30HR-380 Elements are a premium-grade seawater reverse osmosis element featuring both high active area and high salt rejection to offer the best long-term economics for seawater desalination systems.

- FilmTec™ SW30HR-380 delivers high boron rejection to help customers meet World Health Organization (WHO) and other drinking water standards.
- FilmTec™ SW30HR-380 Elements deliver high performance over their operating lifetime without the use of oxidative posttreatments like many competitive products. This is one reason why FilmTec™ Elements are more durable and may be cleaned more effectively over a wider pH range than other RO elements.
- Automated, precision fabrication with a greater number of shorter membrane leaves, reduces the overall effect of fouling and maximizes membrane efficiency.

Product Type

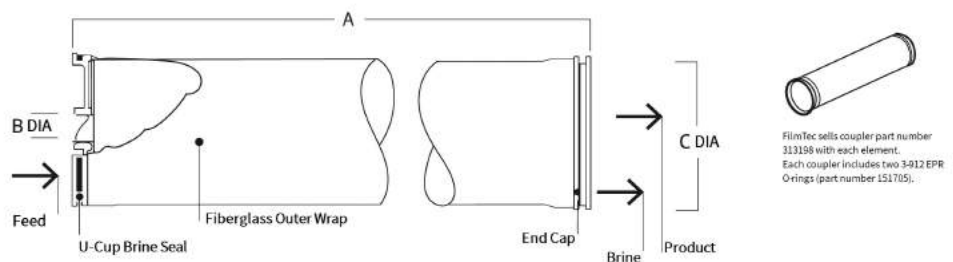
Spiral-wound element with polyamide thin-film composite membrane

Typical Properties

FilmTec™ Element	Active Area		Feed Spacer Thickness	Permeate Flowrate		Typical Stabilized Salt Rejection
	(ft ²)	(m ²)	(mil)	(gpd)	(m ³ /d)	(%)
SW30HR-380	380	35	28	6,900	24.6	99.7

1. Permeate flow and salt rejection based on the following test conditions: 32,000 ppm NaCl, 800 psi (5.5 MPa), 77°F (25°C), pH 8, 8% recovery.
2. Permeate flows for individual elements may vary ± 15%.
3. Minimum Salt Rejection is 99.65%.
4. Stabilized salt rejection is generally achieved within 24 – 48 hours of continuous use, depending upon feedwater characteristics and operating conditions.
5. Product specifications may vary slightly as improvements are implemented.

Element Dimensions



FilmTec™ Element	Dimensions – inches (mm)					
	A		B		C	
	(in)	(mm)	(in)	(mm)	(in)	(mm)
SW30HR-380	40.0	1,016	1.125 ID	29 ID	7.9	201

1. Refer to [FilmTec™ 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.

Operating and Cleaning Limits

Maximum Operating Temperature ^{a, b}	113°F (45°C)
Maximum Operating Pressure ^b	1,000 psig (69 bar)
Maximum Element Pressure Drop	15 psig (1.0 bar)
pH Range	
Continuous Operation ^a	2 – 11
Short-term Cleaning (30 min) ^c	1 – 13
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance ^d	< 0.1 ppm

- Maximum temperature for continuous operation above pH 10 is 95°F (35°C).
- Consult your DuPont representative for advice on applications above 95°F (35°C). Refer to [FilmTec™ Elements Operating Limits](#) (Form No. 45-D00691) for warranty-voiding conditions and additional information.
- Refer to guidelines in [Cleaning Guidelines](#) (Form No. 45-D01696-en) for more information.
- 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)
- [Start-Up Sequence](#) (Form No. 45-D01609-en)
- [Storage and Shipping of New FilmTec™ Elements](#) (Form No. 45-D01633-en)

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

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