

Product Data Sheet



FilmTec[™] Eco Pro-440 Element

Description	Ideal for: reverse osmosis plant managers and operators dealing with controlled pre-treatment waters and seeking advanced membrane treatment with high water purity and low energy consumption.					
	 FilmTec[™] Eco Pro-440: Offers high salt-rejection at low pressure Delivers excellent silica, boron, nitrate, TOC and ammonium rejection 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 					
Product Type	Spiral-wound element with polyamide thin-film composite membrane					

Typical Properties

FilmTec™	Active	e Area	Feed Spacer	Permeate	Flow Rate	Typical Stabilized Salt	Minimum Salt
Element	(ft ²)	(m²)	Thickness (mil)	(GPD)	(m ³ /d)	Rejection (%)	Rejection (%)
Eco Pro-440	440	41	28	12,650	48	99.7	99.4
			1 Democrate flammen				iti

 Permeate flow and salt (NaCl) rejection based on the following standard test conditions: 2,000 ppm NaCl, 150 psi (10.3 bar), 77°F (25°C), pH 8, 15% recovery.

2. Flow rates for individual elements may vary but will be no more than ±15%.

3. Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.

4. Sales specifications may vary as design revisions take place.

5. Active area guaranteed ± 3%. Active area as stated by DuPont Water Solutions is not comparable to nominal membrane area often stated by some manufacturers.

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U-Cup Brine Seal

End Cap

Product

Brine



	Dimensions – ir	nches (mm)			1	inch = 25.4 mm	
		Α		}	C		
FilmTec™ Element	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	
Eco Pro-440	40.0	1,016	1.125 ID	29 ID	7.9	201	
	 Refer to Film (Form No. 4) Element to film 	<mark>Tec™ Design Guid</mark> 5-D01695-en). t nominal 8-inch (20	elines for multiple-ele)3-mm) I.D. pressure v	ment systems of 8 /essel.	-inch elements		
Operating and	Maximum Operating Temperature ^a				113°F (45°C)		
Cleaning Limits	Maximum Operat	Maximum Operating Pressure			600 psig (41 bar)		
j	Maximum Eleme	Maximum Element Pressure Drop				15 psig (1.0 bar)	
	pH Range						
	Continuous Operation ^a				2-11		
	Short-Term Cleaning (30 min.) ^b				1 – 13		
	Maximum Feed Silt Density Index (SDI)				SDI 5		
	Free Chlorine Tolerance ^c				< 0.1 ppm		
Additional Important Information	 a. Maximum temperature for continuous operation above pH 10 is 95°F (35°C). b. Refer to FilmTec[™] Cleaning Guidelines (Form No. 45-D01696-en). c. Under certain conditions, the presence of free chlorine and other oxidizing agents will cause membrane failure. Since oxidation damage is not covered under warranty, DuPont Water S recommends removing residual free chlorine by pretreatment prior to membrane exposure. Dechlorinating Feedwater (Form No. 45-D01569-en) for more information. ditional portant or storage, review these additional resources for important inf • Usage Guidelines for FilmTec[™] 8" Elements (Form No. 45-D0170 • Start-Up Sequence (Form No. 45-D01609-en) 				se premature Solutions e. Please refer to formation: 06-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.						

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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.
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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