

Product Data Sheet

FilmTec[™] NF270-400/34i Element

Description	 Ideal for: utility managers and operators dealing with surface and groundwater and seeking a technology that removes a high percentage of total organic carbon (TOC) and trihalomethan (THM) precursors while having a medium to high salt passage and medium hardness passage. The FilmTec[™] NF270-400/34i Element: Provides organic removal with partial softening in order to maintain a minimum level of hardness for organoleptic properties and preservation of distribution networks Delivers high productivity, cleanability and low energy consumption due to its high active area and wide cleaning pH range (1-12) tolerance Includes iLEC[™] interlocking end caps, reducing system operating costs and the risk of o-ring leaks that can cause poor water quality
Product Type	Spiral-wound element with polypiperazine thin-film composite membrane
Typical Properties	

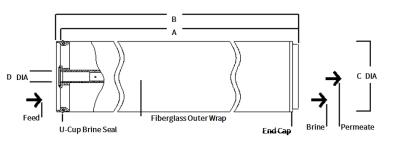
Typical Properties

	Active Area	Feed Spacer	Permeate F	low Rate	Typical Stabilized	Minimum Salt	
FilmTec™ Element	(ft ²) (m ²)	Thickness (mil)	(GPD)	(m ³ /d)	Salt Rejection (%)	Rejection (%)	
NF270-400/34i	400 37	34-LDP	12,500	47	>97.0	97.0	

Permeate flow and salt passage based on the following test conditions: 2,000 mg/l MgSO₄, 70 psi (4.8 bar), 77°F (25°C) and 15% recovery.
 Flow rates for individual elements may vary but will be no more than ± 15%.
 Stabilized salt rejection is generally achieved within 24-48 hours of continuous use; depending upon feedwater characteristics and operating conditions.
 Sales specifications may vary as design revisions take place.
 Active area guaranteed ± 3%. Active area as stated by DuPont Water Solutions is not comparable to nominal membrane area often stated by some manufacturers.



Element Dimensions



	Dimensions -	- inches (mm)					1 inc	:h = 25.4 mm
	Α		В		C		D	
FilmTec™ Element	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
NF270-400/34i	40.0	1,016	40.5	1,029	7.9	201	1.125 ID	29 ID

2. Element to fit nominal 8-inch (203-mm) I.D. pressure vessel.

3. Individual elements with iLEC[™] endcaps measure 40.5 inches (1,029 mm) in length (B). The net length (A) of the elements when connected is 40.0 inches (1,016 mm).

Operating and Cleaning Limits

Maximum Operating Temperature ^a	113°F (45°C)
Maximum Operating Pressure	600 psig (41 bar)
Maximum Element Pressure Drop	15 psig (1.0 bar)
pH Range	
Continuous Operation ^a	3 - 10
Short-Term Cleaning (30 min.) ^b	1 - 12
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance °	< 0.1 ppm

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 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.

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)

Product Stewardship

Additional

Important

Information

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.

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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