

Product Data Sheet

# FilmTec™ NF90-400/34i Element

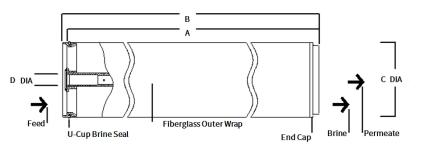
Description	<ul> <li>Ideal for: utility managers and operators looking for a technology that delivers high quality permeate water while removing specific contaminants such as salts, nitrates, iron, and organic compounds.</li> <li>The FilmTec<sup>™</sup> NF90-400/34i Element: <ul> <li>Delivers high productivity and cleanability due to its high active area and widest cleaning pH range (1-13) tolerance</li> <li>Offers a nanofiltration technology that selectively removes these components, removes color, and operates at low operating pressures</li> <li>Including iLEC<sup>™</sup> interlocking end caps, reducing system operating costs and</li> </ul> </li> </ul>
	the risk of o-ring leaks that can cause poor water quality
Product Type	Spiral-wound element with polyamide thin-film composite membrane

## **Typical Properties**

Active Area				Permeate Flow Rate				
FilmTec™ Element	(ft <sup>2</sup> )	(m²)	Feed Spacer Thickness (mil)	(GPD)	(m³/d)	Minimum Salt Rejection (%)		
NF90-400/34i	400	37	34-LDP	10,000	38	98.7		
	3	2.   3. 9 4. 5.	Permeate flow and salt passage based or 77°F (25°C) and 15% recovery. Flow rates for individual elements may van Stabilized salt rejection is generally achier feedwater characteristics and operating or Sales specifications may vary as design re Active area guaranteed ± 3%. Active area membrane area often stated by some man	ry but will be n ved within 24-4 onditions. evisions take p as stated by	o more than ±1 48 hours of con blace.	5%. tinuous use; depending upon		



## Element **Dimensions**



	Dimensions -	- inches (mm)					1 inc	ch = 25.4 mm
	Α		В		С		D	
FilmTec™ Element	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
NF90-400/34i	40.0	1,016	40.5	1,029	7.9	201	1.125 ID	29 ID
		(Form No. 45	-D01695-en).	<mark>uidelines for mu</mark> (203-mm) I.D. pi			h elements	

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

<b>Operating and</b>	Maximum Operating Temperature <sup>a</sup>	113°F (45°C)
Cleaning Limits	Maximum Operating Pressure	600 psig (41 bar)
	Maximum Element Pressure Drop	15 psig (1.0 bar)
	pH Range	
	Continuous Operation <sup>a</sup>	2-11
	Short-Term Cleaning (30 min.) <sup>b</sup>	1 – 13
	Maximum Feed Silt Density Index (SDI)	SDI 5
	Free Chlorine Tolerance °	< 0.1 ppm

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Maximum temperature for continuous operation above pH 10 is 95°F (35°C). a.

Refer to FilmTec<sup>™</sup> Cleaning Guidelines (Form No. 45-D01696-en). b

Under certain conditions, the presence of free chlorine and other oxidizing agents will cause premature c. 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<sup>™</sup> 8" Elements (Form No. 45-D01706-en)
- Start-Up Sequence (Form No. 45-D01609-en) •

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Additional Important Information

### Product Stewardship

# **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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