



Product Data Sheet

**FILMTEC™ TW30-1812-24 Element**

**Description**

FILMTEC™ reverse osmosis (RO) membranes for home drinking water treatment units are some of the most reliable and consistent elements in the industry. Advanced membrane technology and precision manufacturing allow DuPont to precisely produce each and every element to tight, pre-defined specifications. DuPont’s advanced and consistent RO element quality helps customers develop, and maintain brand recognition along with a reputation for building systems that can reliably provide low impurity drinking water. FILMTEC™ elements are shipped dry for convenient handling and long shelf-life.

**Product Type**

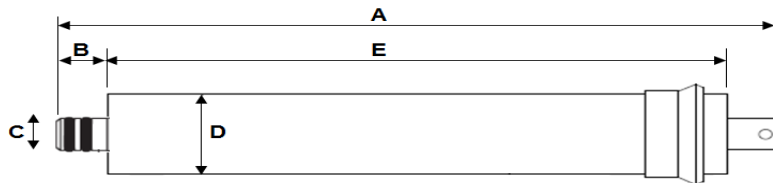
Spiral-wound element with polyamide thin-film composite membrane

**Typical Properties**

FILMTEC™ Element	Applied Pressure		Permeate Flow Rate		Typical Stabilized Salt Rejection (%)
	(psig)	(bar)	(GPD)	(L/h)	
TW30-1812-24	50	3.4	24	3.8	98

1. Permeate flow and salt rejection based on the following test conditions: 250 ppm softened tap water, 77°F (25°C), 15% recovery and the specified applied pressure.
2. Minimum salt rejection is 96.0%.
3. Permeate flows for individual elements may vary ±20%.

**Element Dimensions**



FILMTEC™ Element	A		B		C		D		E	
	(in.)	(mm.)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)
TW30-1812-24	11.74	298	0.875	22.2	0.68	17	1.75	44.5	9.98	253.5

TW30-1812 Home Drinking Water elements seal at a standard 2.0 inch – 2.05 inch I.D. within pressure vessels

## Operating and Cleaning Limits

Maximum Operating Temperature	113°F (45°C)
Maximum Operating Pressure	150 psig (10 bar)
Maximum Feed Flow Rate	2.0 gpm (7.6 lpm)
pH Range, Continuous Operation	2 – 11
Maximum Feed Silt Density Index (SDI)	SDI 5
Free Chlorine Tolerance <sup>a</sup>	< 0.1 ppm

- a. 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 technical bulletin ["Dechlorinating Feedwater"](#) for more information.

## Additional Important Information

- It is recommended that systems using these elements rinse the elements for 24 hours, prior to first use, to meet NSF/ANSI 58 Standard.
- Permeate water obtained from the first hour of use should be discarded to the drain.
- Keep elements moist at all times after initial wetting.
- To control the spread of biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution. Rinse out the preservative before use.
- The membrane shows some resistance to short-term attack by chlorine (hypochlorite). Continuous exposure, however, may damage the membrane and should be avoided.
- FILMTEC™ Home Drinking Water Reverse Osmosis Elements may be covered under the FILMTEC™ Reverse Osmosis and Nanofiltration Element Three-Year Prorated Limited Warranty, 609-35010-1006 extended to OEMs. Such Limited Warranty is non-transferable. Contact a DuPont representative for more information.

If operating limits and guidelines given in this Product Information Bulletin are not strictly followed, the Limited Warranty will be null and void. The OEM is fully responsible for the effects of incompatible chemicals and lubricants on elements. Use of any such chemicals or lubricants will void the Limited Warranty.

## 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 (or in a few cases: Any concentrate or permeate obtained from the first hour of operation should be discarded).

## Regulatory Note

These products 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](http://www.dupont.com/water/contact-us)

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