



## FILMTEC™ Membranes FT30 Reverse Osmosis Membrane Specifications

### Features

The FILMTEC™ FT30 reverse osmosis membrane gives excellent performance for a wide variety of applications including low-pressure tapwater purification, single-pass seawater desalination, chemical processing, and waste treatment. This membrane exhibits high rejection at low pressures with very stable long-term operation.

Solute	MW	Rejection (%)
Sodium fluoride NaF <sup>1</sup>	42	99
Sodium cyanide NaCN (pH 11)	49	97
Sodium chloride NaCl	58	99
Silica SiO <sub>2</sub> (50 ppm)	60	98
Sodium bicarbonate NaHCO <sub>3</sub>	84	99
Sodium nitrate NaNO <sub>3</sub>	85	97
Magnesium chloride MgCl <sub>2</sub>	95	99
Calcium chloride CaCl <sub>2</sub>	111	99
Magnesium sulfate MgSO <sub>4</sub>	120	> 99
Nickel sulfate NiSO <sub>4</sub>	155	> 99
Copper sulfate CuSO <sub>4</sub>	160	> 99
Formaldehyde	30	35
Methanol	32	25
Ethanol	46	70
Isopropanol	60	90
Urea	60	70
Lactic acid (pH 2)	90	94
Lactic acid (pH 5)	90	99
Glucose	180	98
Sucrose	342	99
Chlorinated pesticides (traces)	–	> 99

1. Solute rejection (approximate) 2,000 ppm solute, 225 psi (1.6 MPa), 77°F (25°C), pH 7 (unless otherwise noted).
2. Fluoride rejection is strongly pH dependent (about 75% at pH 5, 50% at pH 4, 30% at pH 3.5 and 0% below pH 3).
3. FT30 membrane is available in a wide variety of spiral-wound configurations.

### Operating Limits

- Membrane type Thin-film composite polyamide
- Maximum operating pressure 1,000 psi (6.9 MPa)
- Maximum operating temperature 113°F (45°C)
- Free chlorine tolerance < 0.1 ppm
- pH range, continuous operation 2 - 11
- pH range, short-term cleaning (30 min.) 1 - 13

**FILMTEC™ Membranes**  
For more information about FILMTEC  
membranes, call the Dow Liquid  
Separations business:

North America: 1-800-447-4369  
Latin America: (+55) 11-5188-9222  
Europe: (+32) 3-450-2240  
Pacific: +60 3 7958 3392  
Japan: +813 5460 2100  
China: +86 21 2301 9000  
<http://www.filmtec.com>

Notice: 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.

Notice: No freedom from any patent owned by Seller or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

