



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 ¹	42	99
Sodium cyanide NaCN (pH 11)	49	97
Sodium chloride NaCl	58	99
Silica SiO ₂ (50 ppm)	60	98
Sodium bicarbonate NaHCO ₃	84	99
Sodium nitrate NaNO ₃	85	97
Magnesium chloride MgCl ₂	95	99
Calcium chloride CaCl ₂	111	99
Magnesium sulfate MgSO ₄	120	> 99
Nickel sulfate NiSO ₄	155	> 99
Copper sulfate CuSO ₄	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 - 12

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