

## NOMINAL REJECTION CHARACTERISTICS OF REVERSE OSMOSIS MEMBRANES

<u>COMPONENT</u>	<u>SYMBOL</u>	<u>% REJECTION</u>
Sodium	Na <sup>+</sup>	98
Calcium	Ca <sup>+2</sup>	99.5
Magnesium	Mg <sup>+2</sup>	99.5
Potassium	K <sup>+</sup>	97
Iron	Fe <sup>+2</sup>	95 - 98
Manganese	Mn <sup>+2</sup>	95 - 98
Aluminum	Al <sup>+3</sup>	98 - 99
*Ammonium	NH <sub>4</sub> <sup>+</sup>	86 - 92
Copper	Cu <sup>+2</sup>	98 - 99
Nickel	Ni <sup>+2</sup>	98 - 99
Zinc	Zn <sup>+2</sup>	98 - 99
Strontium	Sr <sup>+2</sup>	96 - 98
Cadmium	Cd <sup>+2</sup>	96 - 98
Silver	Ag <sup>+</sup>	93 - 96
Mercury	Hg <sup>+2</sup>	96 - 98
Barium	Ba <sup>+2</sup>	96 - 98
Chromium	Cr <sup>+3</sup>	96 - 98
Lead	Pb <sup>+2</sup>	96 - 98
Chloride	Cl <sup>-1</sup>	98.8
Bicarbonate	HCO <sub>3</sub> <sup>-</sup>	60 - 75
*Nitrate	NO <sub>3</sub> <sup>-</sup>	60 - 75
Fluoride	F <sup>-</sup>	87 - 93
*Silicate	SiO <sub>2</sub> <sup>-2</sup>	85 - 90
Phosphate	PO <sub>4</sub> <sup>-3</sup>	98 - 99
*Chromate	CrO <sub>4</sub> <sup>-2</sup>	86 - 92
*Cyanide	CN <sup>-</sup>	86 - 92
Sulfite	SO <sub>3</sub> <sup>-2</sup>	96 - 98
Thiosulfate	S <sub>2</sub> O <sub>3</sub> <sup>-2</sup>	98 - 99
Ferrocyanide	Fe(CN) <sub>6</sub> <sup>-3</sup>	98 - 99
Bromide	Br <sup>+</sup>	87 - 93
*Borate	B <sub>4</sub> O <sub>2</sub> <sup>-2</sup>	30 - 50
Sulfate	SO <sub>4</sub> <sup>-2</sup>	99.5
Arsenic	As	94 - 96
Selenium	Se <sup>-2</sup>	94 - 96
Bacteria and virus		99.9
Pyrogen		99.9

\* % rejection dependent on pH.