Nominal Rejection Characteristics of Thin Film Composite Reverse Osmosis Membranes

Ion	% Rejection
Calcium	93-98
Sodium	92-98
Magnesium	93-98
Potassium	92-96
Manganese	96-98
Iron	96-98
Aluminum	96-98
Copper	96-98
Nickel	96-98
Cadmium	93-97
Silver	93-96
Zinc	96-98
Mercury	94-97
Hardness Ca & Mg	93-97
Radioactivity	93-97
Chloride	92-95
Ammonium	80-90

Ion	% Rejection
Bromide	90-95
Phosphate	95-98
Chromate	85-95
Cyanide	85-95
Sulfate	96-98
Thiosulfate	96-98
Silicate	92-95
Silica	80-90
Nitrate	90-95
Boron	50-70
Borate	30-50
Fluoride	92-95
Polyphosphate	96-98
Orthophosphate	96-98
Chromate	85-95
Bacteria	99 +
Lead	95-98

Nominal Rejection Characteristics of Cellulose Triacetate Reverse Osmosis Membranes

Ion	% Rejection
Sodium	90-95
Calcium	92-95
Magnesium	94-97
Potassium	85-95
Iron	92-96
Manganese	92-96
Aluminum	95-98
Ammonium	85-90
Copper	96-98
Nickel	96-98
Zinc	96-98
Strontium	95-97
Cadmium	95-97
Silver	90-95
Mercury	94-96
Barium	94-96
Chromium	94-96

Ion	% Rejection
Lead	94-96
Chloride	90-95
Bicarbonate	85-95
Nitrate	50-70
Fluoride	85-90
Silicate	80-90
Phosphate	95-97
Chromate	80-90
Cyanide	80-90
Sulfite	94-96
Thiosulfate	94-97
Ferrocyanide	96-98
Bromide	85-90
Borate	25-50
Sulfate	96-98
Arsenic	90-95
Selenium	90-95

The above percent rejection is for reference only. Actual rejection will depend heavily on the exact chemistry, temperature, pressure, and TDS content of the feed water.