



#### 2-5. Solute Rejection Property of CSM RO Membranes

##### 2-5-1. Solute Rejection of BE and BN Grade of CSM

NO	Solute	Rejection (%)	Molecular Weight
1	NaF	99	42
2	NaCN	98	49
3	NaCl	99	58
4	SiO <sub>2</sub>	99	60
5	NaHCO <sub>3</sub>	99	84
6	NaNO <sub>3</sub>	97	85
7	MgCl <sub>2</sub>	99	95
8	CaCl <sub>2</sub>	99	111
9	MgSO <sub>4</sub>	99	120
10	NiSO <sub>4</sub>	99	155
11	CuSO <sub>4</sub>	99	160
12	Formaldehyde	35	30
13	Methanol	25	32
14	Ethanol	70	46
15	Isopropanol	92	60
16	Urea	70	60
17	Lactic acid (pH2)	94	90
18	Lactic acid (pH5)	99	90
19	Glucose	98	180
20	Sucrose	99	342
21	Chlorinated Pesticides	99	-
22	BOD	95	-
23	COD	97	-



### 2-5-1. Ion Rejection of BE and BN Grade of CSM

NO	Ion	Rejection (%)
1	Sodium (Na)	97
2	Calcium (Ca)	99
3	Magnesium (Mg)	99
4	Potassium (K)	98
5	Iron (Fe)	99
6	Manganese (Mn)	99
7	Aluminum (Al)	99
8	Ammonia (NH <sub>4</sub> )	99
9	Copper (Cu)	99
10	Nickel (Ni)	99
11	Zinc (Zn)	99
12	Strontium (Sr)	98
13	Cadmium (Cd)	99
14	Silver (Ag)	99
15	Mercury (Hg)	99
16	Chloride (Cl)	99
17	Bicarbonate (HCO <sub>3</sub> )	98
18	Sulfate (SO <sub>4</sub> )	99
19	Nitrate (NO <sub>3</sub> )	96
20	Fluoride (F)	98
21	Silica (SiO <sub>2</sub> )	99
22	Phosphate (PO <sub>4</sub> )	99
23	Barium (Br)	98