Comparison table for detailed specification of Cation/Anion Exchange Membrane

		Cation Exchange Membrane			Anion Exchange Membrane				
Title		Standard grade Special grade		l grade	Standard grade	tandard grade Special grade			
		CSE	CMB	CIMS	ASE	AHA	ACS	AFX	ACM
Characte- ristics	Туре	Strong Acid(Na type)			Strong Base (CI type)				Weak Base (CI type)
	Characteristics	High mechanical strength	High mechanical strength / Alkali resistance	Monovalent cation permselectivity	High mechanical strength	High mechanical strength / Alkali resistance	Monovalent anion permselectivity	High acid diffusion	Proton blocking
	Electric resistance $(\Omega \cdot cm^2)$	1.8	4.5	1.8	2.6	4.1	3.8	1.0	2.6
	Burst strength (MPa)	≧0.35	≧0.40	≧0.10	≧0.35	≧0.90	≧0.15	≧0.25	≧0.15
	Thickness (mm)	0.16	0.21	0.15	0.15	0.22	0.13	0.17	0.11
	Application	Desalination of foods Desalination / concentration of inorganic salt Removal of hardness and nitrogen from underground water	Alkali recovery Acid and alkali production (BPED) Diaphragm	Acid recovery Separation of metals Salt production	Desalination of foods Desalination / concentration of inorganic salt Removal of hardness and nitrogen from underground water	Alkali recovery Diaphragm	Desalination of foods Salt production Nitrogen removal from underground water	•Acid recovery (DD)	*Acid recovery (DD) *Production of acids and alkalis (BPED)
Recommended field of application	Temperature (°C)	≦40	≦60	≦40	≦40	≦60	≦40	≦ 40	≦ 40
	рН	0~14	0~14	0~10	0~14	0~14	0~8	0~8	0~8

Electric resistance : Measured on alternative current after equilibration with a 0.5N-NaCl solution at 25°C Burst Strength : Mullen Bursting strength CSE and ASE membranes are new products, so the above specifications are subject to change without any notice for product improvement