

Ion Exchange Membrane Selector Guide

Membrane Type		PTOC™	PTIC™	PTAN™	PTCA™	PTAR
Ion Selectivity		Neutral	Neutral	Anion	Cation	Anion
Acid Removal Rate		5 - 6 μmol/C	5 - 6 μmol/C	8 - 9 μmol/C	--	7.5 – 8.5 μmol/C
Amine Removal Rate		4 - 5 μmol/C	4 - 5 μmol/C	--	8 - 9 μmol/C	
Water Permeability (cc/amp)	Initial	5 – 10 Min	0.2 – 1 Min	0.1Min	0.1 Min	0.2 Min
	After 1 Year	0.2 – 2 Min	0.2 Min.	0.1 Min	0.1 Min	0.2 Min
Applications		Simple acid removal; Sludge Prevention	Acid Removal Amine Removal	Acid Removal	Amine Removal	Acid Removal
Life		2 - 5 years	2 - 5 years	2 - 10 years	2 - 10 years	2 – 3 years
Electrical	Initial	10 - 100 Ω - cm ²	10 - 100 Ω - cm ²	0 - 30 Ω - cm ²	0 - 30 Ω - cm ²	0 - 30 Ω - cm ²
Resistance	After 1 Year	1 - 3 kΩ - cm ²	1 - 3 kΩ - cm ²	0.1 - 3 kΩ - cm ²	0.1 - 3 kΩ - cm ²	0.1 - 3 kΩ - cm ²
Solvent	Initial	High in first 3 months	Minimal	Nearly 0	Nearly 0	About 0
Loss	After 1 Year	Minimal	Minimal	Nearly 0	Nearly 0	About 0

NOTE: To extend membrane life and achieve highest performance, the average anode current density should not exceed 55 amps/m² (~5 amps/SF). Membranes may deteriorate more rapidly if used at higher current densities. In areas where current densities are higher, such as the tank entrance section, mounting the Cells closely together can reduce the current densities of individual Membrane Electrode Cells.

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