CMI-7000 Cation Exchange Membranes | Technical Specifications

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Technical Specification	CMI-7000S Single Sheet
Functionality	Strong Acid Cation Exchange Membrane
Polymer Structure	Gel polystyrene cross linked with divinylbenzene
Functional Group	Sulphonic Acid
Ionic Form as Shipped	Sodium
Color	Beige/Brown
Standard Size **US** **Metric**	48in x 120in 1.22m x 3.05m
Standard Thickness **(mils)** **(mm)**	18±1 0.45±0.025
Electrical Resistance ($Ohm.cm^2$) **0.5 mol/L NaCl**	<30
Maximum Current Density ($Ampere/m^2$)	<500
Permselectivity (%) **0.1 mol KCl/kg / 0.5 mol KCl/kg**	94
Total Exchange Capacity (meq/g)	1.6±0.1
Water Permeability **($ml/hr/ft^2$) @5psi**	<3
Mullen Burst Test strength (psi)	>80
Thermal Stability (°C)	90
Chemical Stability Range (pH)	1-10
Preconditioning Procedure	Immerse the membrane in either the application solution or a 5% NaCl solution for 12 hours to allow for membrane hydration and expansion.

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Storage	Store at room temperature and low humidity in sealed air tight container. Storage period not to exceed one year.

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