

Aemion™ Anion Exchange Membranes: Handling, Storage and Pre-treatment Instructions

General:

Ionomr Anion Exchange membranes are significantly tougher than their reinforced counterparts in industry, leading to thinner membranes, a longer service life and reduced costs. They have very low ionic resistance, very high electrical resistance, and offer high chemical stability across the full range of pH, including concentrated alkaline solutions.

Handling and Storage:

Store, handle and process the membrane in a clean, dust-free environment. Only use new and sharp blades when cutting the membrane for best results. Wear protective gloves when handling the membrane, and please handle the membrane with care: do no puncture, crease or tear the membrane. All surfaces in contact with the membrane during handling, inspection, treatment, storage and installation should be smooth and free of sharp projections.

Long term storage in the dry form is best done in a sealed container with minimum exposure to heat and light. Wet storage may be done in containers containing water or aqueous electrolytes (e.g. NaCl, KOH).

Pre-treatment:

Membranes are typically delivered dry and in the iodide form. Depending on specific applications and cell designs, assembly may be possible in the dry form (without pre-treatment), or in the wet form (with pre-treatment). For optimal results, it is recommended to pre-treat the membranes by soaking them in the electrolyte that will be employed for a period of at least 12 hours at room temperature. It is preferable that the membrane then be mounted wet, as differential stresses may occur on drying due to dimensional changes.

If there are any concerns about storage, chemical stability, or pre-treatment, please contact us for further information.