



IONOMR PRODUCT OFFERINGS:

AEM Catalyst Coated Membranes / Membrane Electrode Assemblies

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CCMs / MEAs

AEM Catalyst Coated Membranes / Membrane Electrode Assemblies

Ionomr Innovations, Inc., provides ion-exchange materials and core components for electrolyzers as a convenient assessment tool for evaluation and integration of its anion exchange membrane and ionomer + (Aemion+) technologies:

Catalyst coated membranes

in standard and custom sizes, coated with standardized catalyst layers

Membrane electrode assemblies

in standard and custom sizes in multi-layer configurations comprising standardized catalyst layers, framing materials, and gas diffusion layers.

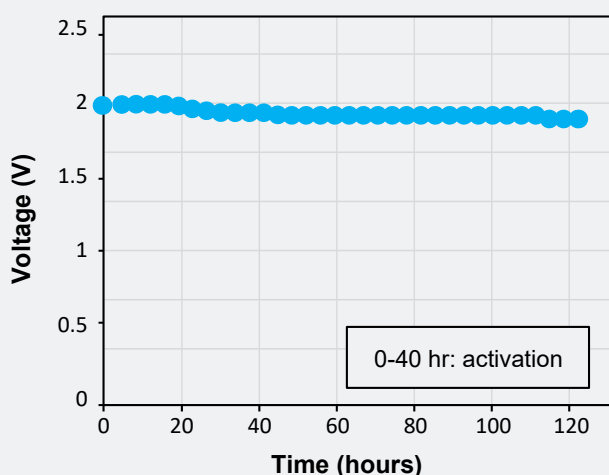
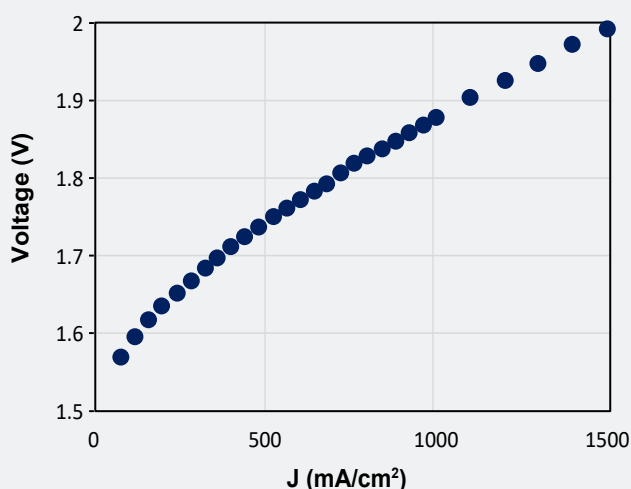


Figure 1. Performance of AF2-HWP8-75 in 1M KOH and 80 °C: polarization curve (top) and voltage at constant 1A/cm² for 120 hours (bottom)

Water Electrolysis CCMs

Active area: 5, 50 cm²
Custom configurations up to 450 cm²

Membranes: AF2-HWP8-75 & AF3-HWK9-75

Ionomer: Aemion® AP2-HNN8
16wt% Ionomers on cathode and 18wt% on anode in total solids

Catalysts:
Anode: NiFeOx, 72.7 % NiFe in parent compound; 0.5-1.9 mg/cm²
Cathode: Pt/C, 36.9 % Pt in parent compound; 0.3-0.9 mg/cm²

*Do not contact the membrane or CCM with DI water (dip/rinse included) after exchange

Water electrolysis MEAs

Option 1: Aemion® membrane coated with standard anode and cathode catalyst layers (CCM)

Option 2: Gas diffusion electrodes coated with standard anode and cathode catalyst layers (GDE)

Option 3: CCM provided with frames & gas diffusion layer (GDL/PTL)