



## **IONOMR PRODUCT OFFERINGS:**

**AEM Catalyst Coated Membranes / Membrane Electrode Assemblies**

**2386 East Mall - Suite 111  
Vancouver, BC Canada  
V6T 1Z3**

# CCMs / MEAs

## AEM Catalyst Coated Membranes / Membrane Electrode Assemblies

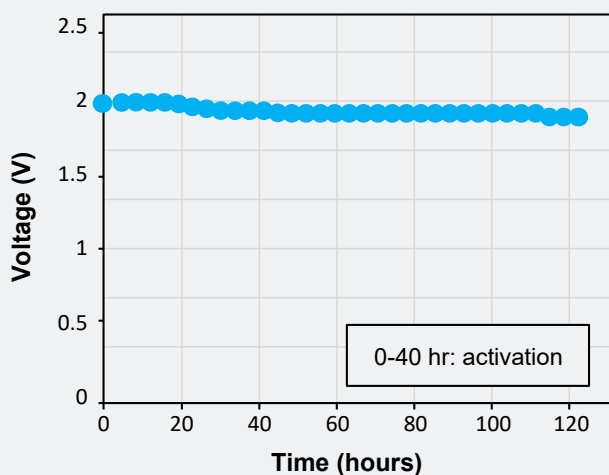
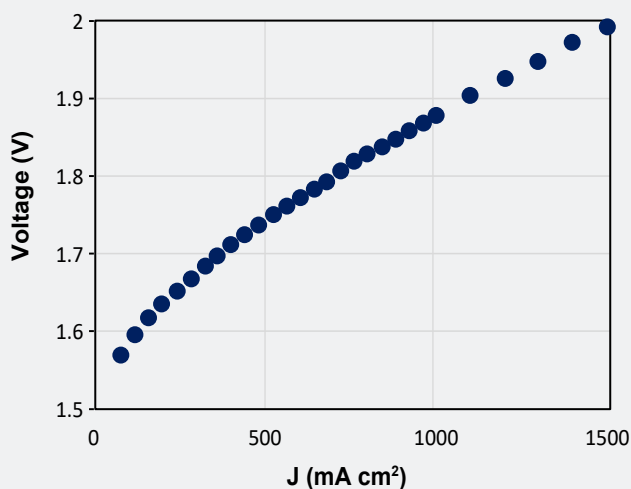
Ionomr Innovations, Inc., provides ion-exchange materials and core components for electrolyzers as a convenient assessment tool for evaluation and integration of its anion exchange membrane and ionomer + (Aemion+) technologies:

### 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/cm<sup>2</sup> for 120 hours (bottom)

### Water Electrolysis CCMs

<b>Active area:</b>	5, 50 cm <sup>2</sup> Custom configurations up to 450 cm <sup>2</sup>
<b>Membranes:</b>	AF2-HWP8-75 & AF3-HWK9-75
<b>Ionomer:</b>	Aemion® AP2-HNN8
<b>Catalysts:</b>	Anode: NiFeOx 0.5 – 1.5 mg/cm <sup>2</sup> ; 18 wt% AP2-HNN8  Cathode: Pt/C, 40% Pt; 0.3mg/cm <sup>2</sup> ; 16 wt% AP2-HNN8

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

### Water electrolysis MEAs

<b>Option 1:</b>	Aemion® membrane coated with standard anode and cathode catalyst layers (CCM)
<b>Option 2:</b>	CCM provided with frames & gas diffusion layer (GDL/PTL)
<b>Option 3:</b>	Gas diffusion electrodes coated with standard anode and cathode catalyst layers (GDE)