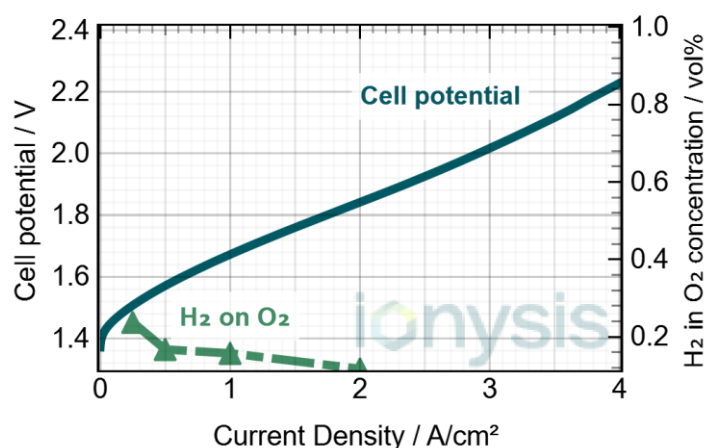
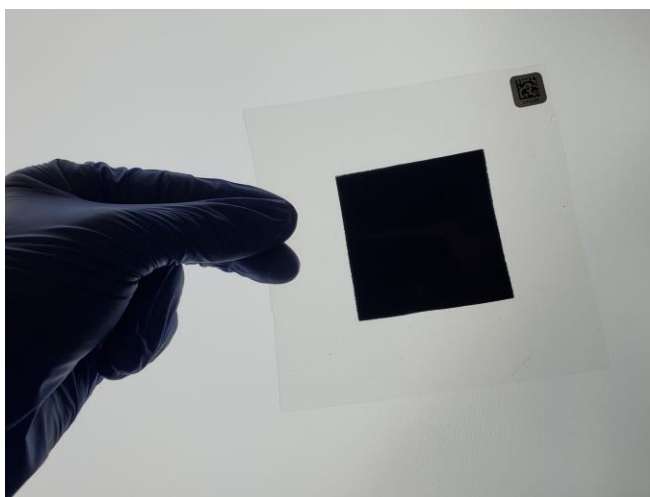


Catalyst Coated Membranes for AEM Water Electrolysis

These catalyst-coated membranes (CCMs) are designed to operate under both dry and wet cathode conditions. Its key features are high performance while maintaining mechanical robustness. The electrode design enables low hydrogen crossover maintaining low H₂ in O₂ concentrations even at low partial loads of the electrolyzer. The CCMs are available as cathode (PID0132), anode (PID0134) or double side coated (PID0133) membranes.



Tested at 80°C, ambient pressure, 1 M KOH in anode and cathode with 0.4 mg_{Pt}/cm² cathode, 1 mg/cm² NiFe-LDH, Ni-PTL and 75 µm membrane.

Specifications

Membrane	75 µm reinforced AEM
Anode	NiFe-LDH, 1.0 – 2.0 mg/cm ²
Cathode	Pt/C, 0.2 – 0.5 mg _{Pt} /cm ²
Geometry	Up to 100 mm x 100 mm standard > 100 cm ² custom on request
Variants	Custom coatings on various Membranes, 7-Layer MEA integration upon request

Performance

Performance (BOL)	< 1.7 V at 1 A/cm ²
H₂ in O₂	< 0.3 vol% at low partial loads of 0.25 A/cm ²
Electrolyte	Suitable for 0.5 – 1 M KOH

Request the product now:



Handling recommendations

The CCMs must be activated before use. The activation procedure can be conducted inside or outside the cell stack prior to assembly. We recommend handling the CCMs wearing gloves to prevent contamination. Store the CCMs in a sealed bag or container, out of direct sunlight, in a climate-controlled environment. For more information, please refer to the safety datasheet and instructions for use.

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