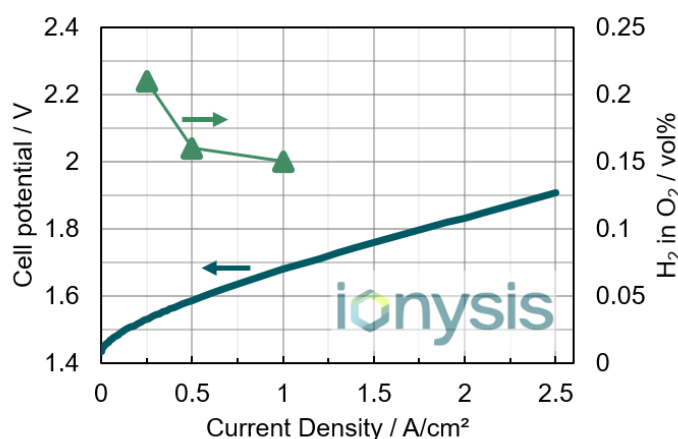


Cathode Gas Diffusion (GDE) Electrode for AEM Electrolysis

Cathode gas diffusion electrode (GDE) for AEM water electrolysis suited for dry and wet cathode operation. Manufactured using a scalable production process and validated in full-stack operation. Designed for stable operation under alkaline conditions with low Hydrogen crossover and compatible with a wide range of AEMWE stack configurations. Catalyst loadings and geometries can be adapted within the ranges specified below.



Tested at 80°C, ambient pressure, 1M KOH in anode and cathode with 0.5 mg_{Pt}/cm² cathode, stainless-steel PTL anode, ~70 µm membrane.

Specifications

Substrate	Carbon-based gas diffusion layer with microporous layer (MPL)
Catalysts	0.2 - 0.5 mg _{Pt} /cm² Pt/C
Thickness	280 µm uncompressed 220 µm (@ 1 MPa)
Max width	700 mm
Electrolyte	Suitable for 0 – 3M KOH

Performance

Performance (BOL)	1.68 V at 1 A/cm²
Durability	< 10 µV/h at 1 A/cm²
H ₂ in O ₂	< 0.3 vol% at low partial loads of 0.25 A/cm²
Electrolyte	1 M KOH

Handling recommendations

The GDE can be used as received. No washing steps or conditioning required. We recommend handling the GDE wearing gloves to prevent contamination. Store the GDE in a sealed bag, out of direct sunlight, in a climate-controlled environment. For more information, please refer to the safety datasheet and instructions for use.

Request the product now:



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