



Bringing AEM Electrolysis to Scale

Robust electrodes and MEAs for durable, high-performance AEM electrolysis stacks

One platform. Multiple options.

From drop-in components to fully integrated 7-layer MEAs, we support you at every stage of your AEM electrolysis scale-up journey.

1 Cathode Gas Diffusion Electrodes

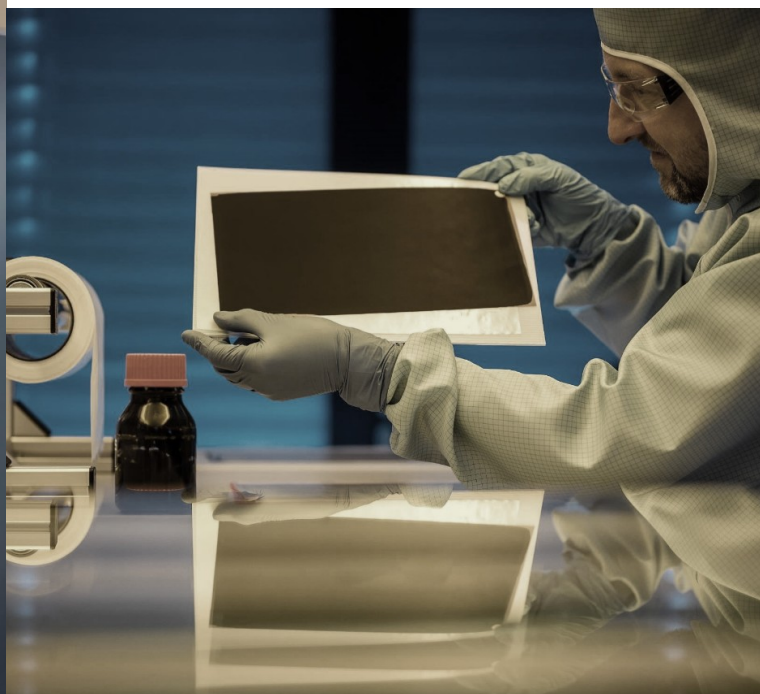
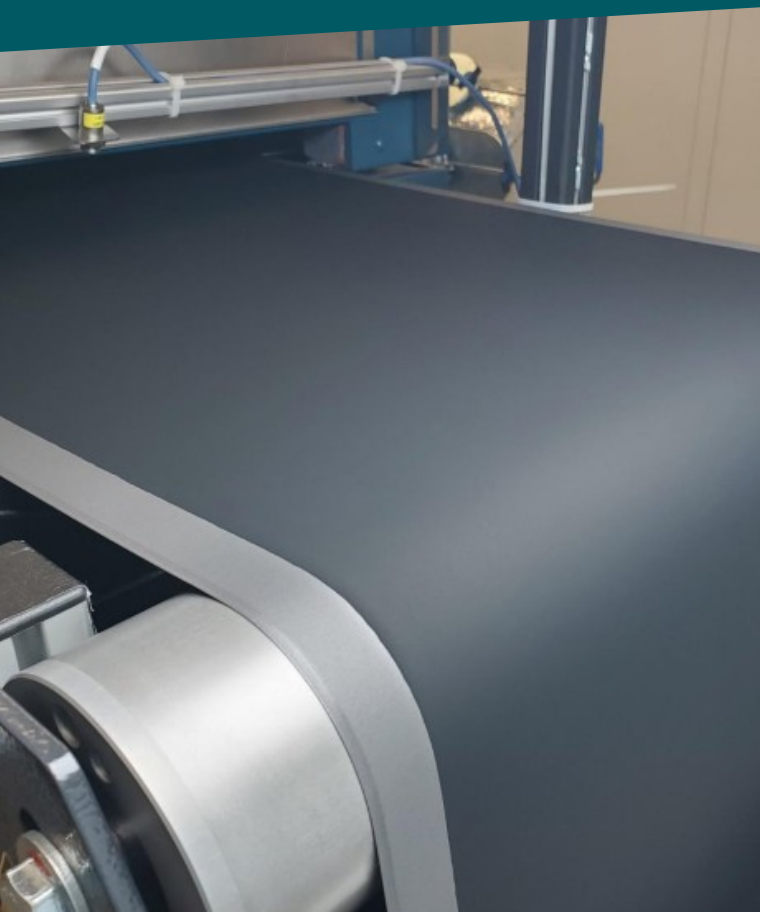
Flexible integration into your own stack and membrane concept.

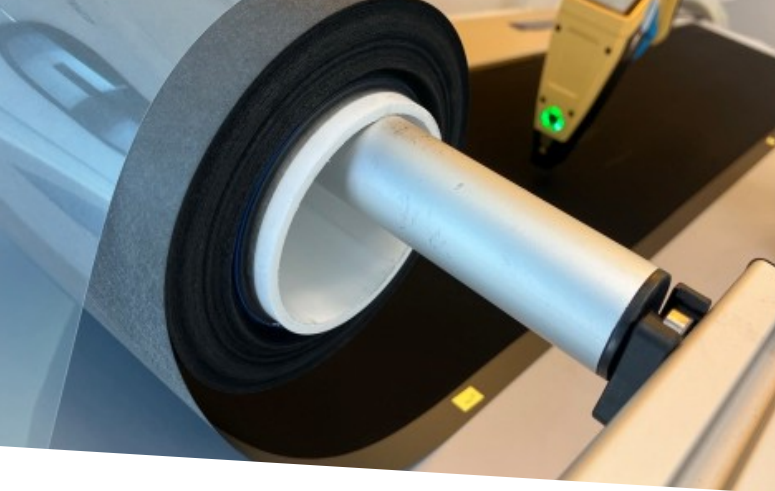
2 CCMs & MEAs

Unlock full performance potential while reducing integration effort on your side.

3 Customized products

Our platform is built to adapt to your materials, your architecture, your process.





Gas Diffusion Cathode / Cathode GDE

High-performance electrodes for fast integration and scalable stack development

Technical specifications

- Performance (BOL): 1.68 V at 1 A/cm²
- Durability: < 10 μ V/h at 1 A/cm²
- H₂ in O₂: < 0.3 vol% @ 0.25 A/cm²
- Suitable for 0 – 3 M KOH electrolyte

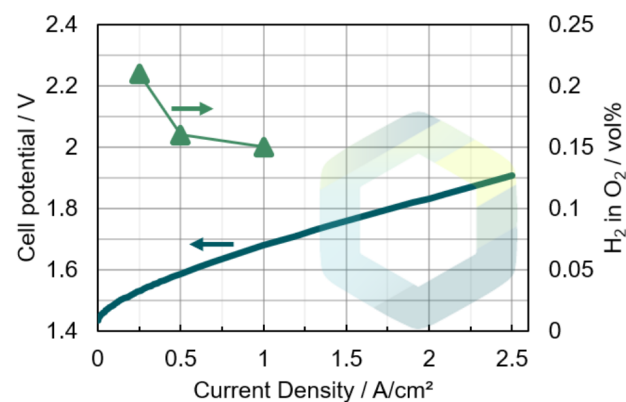
Standard configuration

Substrate: Gas diffusion layer with MPL
Thickness: 220 μ m (@ 1 MPa)
Cathode: 0.2 - 0.5 mgPt/cm² Pt/C
Maximum width: 700 mm

Variants

Custom catalyst
PFAS-free electrode
Custom substrate

- Produced via roll-to-roll coating
- Validated in full-size stack
- Various geometries and industry-standard formats
- Scalable supply from first samples to pilot series
- >1000 h durability demonstrated



Tested at 80°C, ambient pressure, 1M KOH in anode and cathode with 0.5 mgPt/cm² cathode, stainless-steel PTL anode, ~70 μ m membrane.

CCMs & MEAs

- Anode/Cathode half-CCMs
- CCMs
- 5-Layer MEAs with alkaline stable framing
- 7-Layer MEAs



Customized products

Customized CCMs, GDEs and 7-layer MEAs, incl. validation

Let's talk about your AEM challenge.

Whether you are developing stacks, catalysts, membranes, or related services, we support you in translating material and component innovation into reliable AEM electrolysis products.

- We have supported AEM stack developers from proof of concept to successful pilot projects with tailored components.
- We work with component manufacturers and service providers to adapt their technologies to the requirements of the AEM electrolysis market.

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