

Currento®

Bringing new energy to hydrogen production

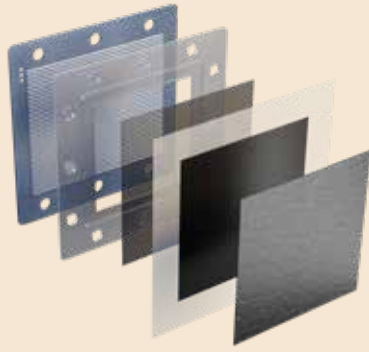
Bekaert has a long history in Porous Transport Layer (PTL) development, based on our sintered metal fiber structures. By modifying the key characteristics of PTL porous structures - such as fiber diameter and porosity - we have **enhanced fluid dynamic performance and realized best-in-class properties for more efficient fluid and gas pathways** through your PEM electrolyzer.



Available in titanium, nickel and stainless steel

Exceptional fluid dynamic performance

Interfaces tuned to membrane, electrode and BPP



Co-developed and customized PTLs

Build your water electrolysis stacks with Bekaert Porous Transport Layers

The mechanical strength, ductility and flexible compression characteristics of Bekaert's PTLs facilitate smooth stack assembly. Their corrosion resistance keeps degradation of conductivity to the minimum. Moreover, our PTLs can be provided in large dimensions, while platinum coatings are available on demand.

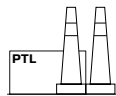
Currento® range

- Thickness: 0.1 – 5 mm
- Porosities from 45% to 85%
- Fiber diameter range: 12 – 50 µm
- Produced in very tight dimensional tolerances
- Pore size: 20 - 100 µm



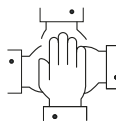
Experience

Bekaert is the pioneer in designing, developing and producing metal fiber products for a wide range of applications. Our experience of more than 20 years in PEM WE has given us the flexibility and technical expertise to provide you with a solution that perfectly matches your quality and performance requirements.



GW-scale PTL production footprint

We have industrial production capacities for our PTLs in place and we anticipate significant growth. We have initiated the required investment plans to scale our production footprint and to capture future volume demands.



Industrial quality system

Bekaert has produced and supplied PTLs to the electrolyzer world for over 20 years. Our operations are guided by a strict industrial quality system to ensure a high degree of consistency. Our current production capacity for sintered titanium fiber structures is sufficient for 1 GW of PEM water electrolyzers.

bekaert.com/currento

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Partner for next-generation PTLs

To keep up with industries' evolving needs, we are strongly committed to innovation. Together with customers, independent research partners and in-house research facilities we are constantly creating new solutions.

At Bekaert we build on our design and product experience with our partners and customers. Preparing

for the future involves further scaling our footprint as well as developing a novel product portfolio for high-performing PEM and AEM water electrolysis.