

# Application Green Hydrogen

## Technical information

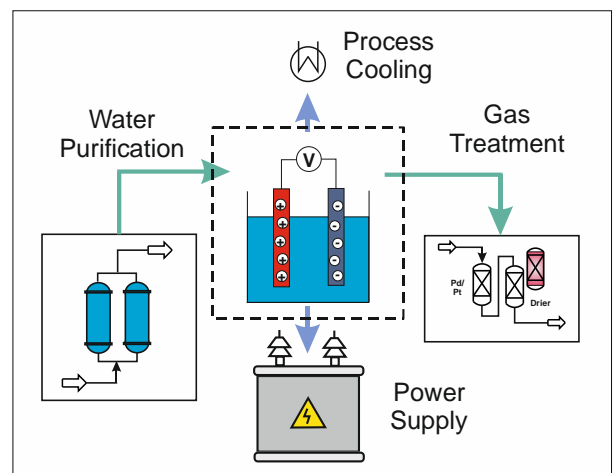
Green Hydrogen refers to hydrogen generated by electrolysis with electrical energy generated by regenerative sources (wind, solar, water, geothermal).

Depending on the application, any oxygen still present in the hydrogen needs to be removed and the hydrogen needs to be dried. In certain cases, any hydrogen still present in oxygen might need to be removed and the oxygen dried.

BASF offers

- Pd or Pt based catalysts for removal of O<sub>2</sub>
- Pd or Pt based catalysts for removal of H<sub>2</sub>
- Sorbead® Air for the drying of the stream

All materials are in use for these applications since many years and all materials show a long lifetime. Sorbead® Air excels in drying by its low energy consumption (up to 25% less than other materials).



Pd and Pt based catalysts are offered with 0.1 (Pd only), 0.3 and 0.5% (by weight) noble metal.

Carriers of these catalysts are tablets with 3x3 mm or spheres with 2 – 4 mm diameter.

Sorbead® Air is offered in the form of spheres and is also available in water resistant form.

## 3 reasons to buy our product / benefits



Market leading Adsorbent solutions qualified by different users



Optimal and reliable removal efficiency backed by on-going R&D activities



Lowest energy consumption for drying



We create chemistry

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## About us

BASF's Catalysts division is the world's leading supplier of environmental and process catalysts. The division offers exceptional expertise in the development of technologies that protect the air we breathe, produce the fuels that power our world and ensure efficient production of a wide variety of chemicals, plastics and other products, including advanced battery materials. By leveraging our industry-leading R&D platforms, passion for innovation and deep knowledge of precious and base metals, BASF's Catalysts division develops unique, proprietary solutions that drive customer success.

## BASF – We create chemistry

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