Platinized Titanium Porous Transfer Layer

The porous titanium plate has a uniform and small pore size, so compared with the traditional electrode plate, the porous titanium plate in the electrolytic cell can better produce bubbling effect, increase the efficiency of hydrogen production and the electrolysis efficiency.

Item Name	Platinized Titanium Porous Transfer Layer
Material	Porous titanium plate, titanium plate, titanium fiber felt, nickel fiber felt
Grade	GR1, GR2
Specification	**Porous titanium plate, titanium plate** Thickness：0.5mm-50mm Width：Max. 1500mm Length：Max. 6000mm **Titanium fiber felt**T hickness：0.25mm,0.4mm,0.6mm,0.8mm, etc. All specifications can be customized.
Accuracy / Pore Size	0.2um-150um
The Thickness of coating	**Platinum coating:** Thickness：0.5-5microns **Ir-Ta coating:** 8-12microns **Ru-Ir coating:** 8-12microns All thickness of coating can be customized.
Technique	Brushing or Electroplating
Surface	Smooth, clean and metallic
Application	PEM electrolyzers, Fuel cells, Sensors, Catalysis, Biomedical applications, Water Treatment Industry, Food Industry, Electronic Industry

Platinized titanium porous transfer layer is one of the thinnest products on the market that can be used as the anode diffusion media in standard PEM electrolyzers. Metallic or titanium-based electrodes are primarily used in standard PEM electrolyzers as the flow field or diffusion material, particularly on the oxygen (anode) side and it is essential that such products have better mass transport and a smaller footprint. This porous transfer layer achieves that.

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Platinum coated titanium fiber felt

Platinum coated titanium porous plate

Ir-Ta coated titanium porous plate

After coating metal platinum on both sides of the porous titanium plate, it can effectively prevent the oxidation of the electrode plate in the process of hydrogen production by water electrolysis, improve the electrolysis efficiency, and make the service life of the electrode plate longer. It is a new electrode plate and a good substitute for the traditional electrode plate.

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