

Global PEM Porous Transport Layers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PEM Porous Transport Layers market size is expected to reach \$ 365 million by 2032, rising at a market growth of 10.5% CAGR during the forecast period (2026-2032).

In 2025, global Hydrogen Diaphragm Sensors production reached approximately 1.75 million units, with an average global market price of around USD 100 per unit.

The gross profit margin of major companies in the industry was approximately 32%–50%.

In 2025, global production capacity of Hydrogen Diaphragm Sensors was approximately 2.25 million units.

Hydrogen Diaphragm Sensors are sensing devices that use a hydrogen-responsive diaphragm or membrane structure to detect hydrogen concentration, permeation, pressure-related changes, or leakage conditions. Hydrogen interaction with the sensing membrane produces measurable mechanical, electrical, optical, or resistance changes that are converted into monitoring signals. Products are designed for hydrogen production, storage, transportation, fuel-cell systems, industrial process equipment, and hydrogen safety monitoring applications.

The industrial chain of Hydrogen Diaphragm Sensors includes upstream sensing membranes, catalytic and functional materials, semiconductor components, electrodes, housings, signal-processing circuits, and packaging materials; midstream covers sensing element design, membrane fabrication, packaging, calibration, assembly, and reliability testing; downstream applications mainly include hydrogen production, storage

tanks, pipelines, refueling stations, fuel-cell systems, industrial equipment, and hydrogen safety monitoring.

Report Scope

This report studies the global PEM Porous Transport Layers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PEM Porous Transport Layers and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of PEM Porous Transport Layers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PEM Porous Transport Layers total production and demand, 2021-2032, (K Units)

Global PEM Porous Transport Layers total production value, 2021-2032, (USD Million)

Global PEM Porous Transport Layers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global PEM Porous Transport Layers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: PEM Porous Transport Layers domestic production, consumption, key domestic manufacturers and share

Global PEM Porous Transport Layers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global PEM Porous Transport Layers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global PEM Porous Transport Layers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global PEM Porous Transport Layers market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bekaert SA, Mott Corporation, GKN Sinter Metals, Porvair Filtration Group, Toho Titanium Co., Ltd., Toray Industries, Inc., Freudenberg Performance Materials, SGL Carbon SE, Schunk Kohlenstofftechnik GmbH, TreadStone Technologies, Inc., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PEM Porous Transport Layers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global PEM Porous Transport Layers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global PEM Porous Transport Layers Market, Segmentation by Type:

Sintered Porous Transport Layers

Metal Fiber Felt Transport Layers

Expanded Metal Mesh Transport Layers

Global PEM Porous Transport Layers Market, Segmentation by Surface Treatment:

Uncoated Transport Layers

Precious Metal-coated Transport Layers

Conductive Ceramic-coated Transport Layers

Global PEM Porous Transport Layers Market, Segmentation by Layer Thickness:

Thin-layer(<0.3 mm)

Medium-layer(>0.3–1.0 mm)

Thick-layer(>1.0 mm)

Global PEM Porous Transport Layers Market, Segmentation by Application:

Water and Gas Distribution

Electrical and Thermal Conduction

Catalyst Layer Support and Interface Management

Other

Companies Profiled:

Bekaert SA

Mott Corporation

GKN Sinter Metals

Porvair Filtration Group

Toho Titanium Co., Ltd.

Toray Industries, Inc.

Freudenberg Performance Materials

SGL Carbon SE

Schunk Kohlenstofftechnik GmbH

TreadStone Technologies, Inc.

Filtra International

Shinsung C&T Co., Ltd.

Western Metal Materials Co., Ltd.

Xi'an Filter Metal Materials Co., Ltd.

Baoji Yinggao Metal Materials Co., Ltd.

Suzhou BoRui Anodes Industry Inc.

Hefei Momenta Energy Co., Ltd.

TiTime Technology Co., Ltd.

Hunan Huitong Advanced Materials Co., Ltd.

Zhejiang Jiali Hydrogen Energy Technology Co., Ltd.

Key Questions Answered

1. How big is the global PEM Porous Transport Layers market?
2. What is the demand of the global PEM Porous Transport Layers market?
3. What is the year over year growth of the global PEM Porous Transport Layers market?
4. What is the total value of the global PEM Porous Transport Layers market?
5. Who are the Major Players in the global PEM Porous Transport Layers market?
6. What are the growth factors driving the market demand?

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