

Global Phosphoric Acid-doped PBI Membrane Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phosphoric Acid-doped PBI Membrane market size is expected to reach \$ 1488 million by 2032, rising at a market growth of 24.4% CAGR during the forecast period (2026-2032).

Phosphoric acid-doped PBI membrane is a proton exchange membrane made by doping polybenzimidazole(PBI) with phosphoric acid. It exhibits high thermal and chemical stability, enables efficient proton conduction, and is mainly used in high-temperature fuel cells and other electrochemical devices. The global market size of phosphoric acid-doped PBI membranes reached USD 310 million in 2025.

Phosphoric acid-doped polybenzimidazole (PBI) membranes are important key materials in energy sectors including proton exchange membrane fuel cells. With growing global demand for clean energy, their application value in energy and electrochemical fields has become increasingly prominent. In terms of market share, fuel cells represent the main application market and account for most of the overall share; owing to their outstanding high-temperature stability and proton conductivity, phosphoric acid-doped PBI membranes are widely used in high-temperature proton exchange membrane fuel cells and their market proportion is expected to keep rising. The sensor and gas separation membrane markets take up a certain share, with increasing demand in moisture sensors, air purification, gas separation and other scenarios, while applications in fuel cell vehicles, portable energy devices and other fields account for a relatively small portion with slowly growing demand. Going forward, such membranes enjoy broad development prospects: technological breakthroughs in fuel cells and the maturity of dispersion and mass production technologies will help lower production costs and expand application scope to diversified areas such as seawater desalination and environmental pollution treatment, while the rapid expansion

of the high-temperature fuel cell market will further drive demand growth. Meanwhile, clean energy support policies worldwide and continuous upgrading of material technologies will provide strong impetus for industrial development, though the sector also faces competition from alternative materials such as fluoride-based membranes and solid oxide fuel cell membranes, requiring continuous optimization in cost and performance. Overall, phosphoric acid-doped PBI membranes boast huge application potential in the clean energy sector, and their market demand and industrial position will keep rising driven by technological progress and policy support.

This report studies the global Phosphoric Acid-doped PBI Membrane production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phosphoric Acid-doped PBI Membrane 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 Phosphoric Acid-doped PBI Membrane that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phosphoric Acid-doped PBI Membrane total production and demand, 2021-2032, (Sq m)

Global Phosphoric Acid-doped PBI Membrane total production value, 2021-2032, (USD Million)

Global Phosphoric Acid-doped PBI Membrane production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Phosphoric Acid-doped PBI Membrane consumption by region & country, CAGR, 2021-2032 & (Sq m)

U.S. VS China: Phosphoric Acid-doped PBI Membrane domestic production, consumption, key domestic manufacturers and share

Global Phosphoric Acid-doped PBI Membrane production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Phosphoric Acid-doped PBI Membrane production by Material, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Phosphoric Acid-doped PBI Membrane production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Phosphoric Acid-doped PBI Membrane 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 Celanese, BASF, DPS, China Ruilong Technology Co., Ltd., Suzhou Thinkre New Material Co., Ltd., Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd., Wuhan University of Technology New Energy Co., Ltd., Tianjin Jinlun New Materials Technology Co., Ltd., Blue World Technologies, Bosch, 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 Phosphoric Acid-doped PBI Membrane market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Sq m) and average price (US\$/Sq m) by manufacturer, by Material, 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 Phosphoric Acid-doped PBI Membrane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Phosphoric Acid-doped PBI Membrane Market, Segmentation by Material:

Pure PBI Membrane

Composite PBI Membrane

Others

Global Phosphoric Acid-doped PBI Membrane Market, Segmentation by Doping Method:

Uniformly Doped PBI Membrane

Staged Doped PBI Membrane

Others

Global Phosphoric Acid-doped PBI Membrane Market, Segmentation by Hydration Behavior:

Dry PBI Membrane

Hydrated PBI Membrane

Global Phosphoric Acid-doped PBI Membrane Market, Segmentation by Application:

High-temperature Fuel Cells

Distributed Energy And Storage Systems

Hydrogen Energy Applications

High-temperature Electrochemical Devices

Others

Companies Profiled:

Celanese

BASF

DPS

China Ruilong Technology Co., Ltd.

Suzhou Thinkre New Material Co., Ltd.

Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd.

Wuhan University of Technology New Energy Co., Ltd.

Tianjin Jinlun New Materials Technology Co., Ltd.

Blue World Technologies

Bosch

Toray

Key Questions Answered:

1. How big is the global Phosphoric Acid-doped PBI Membrane market?
2. What is the demand of the global Phosphoric Acid-doped PBI Membrane market?
3. What is the year over year growth of the global Phosphoric Acid-doped PBI Membrane market?
4. What is the production and production value of the global Phosphoric Acid-doped PBI Membrane market?
5. Who are the key producers in the global Phosphoric Acid-doped PBI Membrane market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Phosphoric Acid-doped PBI Membrane Introduction
- 1.2 World Phosphoric Acid-doped PBI Membrane Supply & Forecast
 - 1.2.1 World Phosphoric Acid-doped PBI Membrane Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Phosphoric Acid-doped PBI Membrane Production (2021-2032)
 - 1.2.3 World Phosphoric Acid-doped PBI Membrane Pricing Trends (2021-2032)
- 1.3 World Phosphoric Acid-doped PBI Membrane Production by Region (Based on Production Site)
 - 1.3.1 World Phosphoric Acid-doped PBI Membrane Production Value by Region (2021-2032)
 - 1.3.2 World Phosphoric Acid-doped PBI Membrane Production by Region (2021-2032)
 - 1.3.3 World Phosphoric Acid-doped PBI Membrane Average Price by Region (2021-2032)
 - 1.3.4 North America Phosphoric Acid-doped PBI Membrane Production (2021-2032)
 - 1.3.5 Europe Phosphoric Acid-doped PBI Membrane Production (2021-2032)
 - 1.3.6 China Phosphoric Acid-doped PBI Membrane Production (2021-2032)
 - 1.3.7 Japan Phosphoric Acid-doped PBI Membrane Production (2021-2032)
 - 1.3.8 India Phosphoric Acid-doped PBI Membrane Production (2021-2032)
 - 1.3.9 Southeast Asia Phosphoric Acid-doped PBI Membrane Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Phosphoric Acid-doped PBI Membrane Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Phosphoric Acid-doped PBI Membrane Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Phosphoric Acid-doped PBI Membrane Demand (2021-2032)
- 2.2 World Phosphoric Acid-doped PBI Membrane Consumption by Region
 - 2.2.1 World Phosphoric Acid-doped PBI Membrane Consumption by Region (2021-2026)
 - 2.2.2 World Phosphoric Acid-doped PBI Membrane Consumption Forecast by Region (2027-2032)
- 2.3 United States Phosphoric Acid-doped PBI Membrane Consumption (2021-2032)
- 2.4 China Phosphoric Acid-doped PBI Membrane Consumption (2021-2032)
- 2.5 Europe Phosphoric Acid-doped PBI Membrane Consumption (2021-2032)

- 2.6 Japan Phosphoric Acid-doped PBI Membrane Consumption (2021-2032)
- 2.7 South Korea Phosphoric Acid-doped PBI Membrane Consumption (2021-2032)
- 2.8 ASEAN Phosphoric Acid-doped PBI Membrane Consumption (2021-2032)
- 2.9 India Phosphoric Acid-doped PBI Membrane Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Phosphoric Acid-doped PBI Membrane Production Value by Manufacturer (2021-2026)
- 3.2 World Phosphoric Acid-doped PBI Membrane Production by Manufacturer (2021-2026)
- 3.3 World Phosphoric Acid-doped PBI Membrane Average Price by Manufacturer (2021-2026)
- 3.4 Phosphoric Acid-doped PBI Membrane Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Phosphoric Acid-doped PBI Membrane Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Phosphoric Acid-doped PBI Membrane in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Phosphoric Acid-doped PBI Membrane in 2025
- 3.6 Phosphoric Acid-doped PBI Membrane Market: Overall Company Footprint Analysis
 - 3.6.1 Phosphoric Acid-doped PBI Membrane Market: Region Footprint
 - 3.6.2 Phosphoric Acid-doped PBI Membrane Market: Company Product Type Footprint
 - 3.6.3 Phosphoric Acid-doped PBI Membrane Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Phosphoric Acid-doped PBI Membrane Production Value Comparison
 - 4.1.1 United States VS China: Phosphoric Acid-doped PBI Membrane Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Phosphoric Acid-doped PBI Membrane Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Phosphoric Acid-doped PBI Membrane Production Comparison

4.2.1 United States VS China: Phosphoric Acid-doped PBI Membrane Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Phosphoric Acid-doped PBI Membrane Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Phosphoric Acid-doped PBI Membrane Consumption Comparison

4.3.1 United States VS China: Phosphoric Acid-doped PBI Membrane Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Phosphoric Acid-doped PBI Membrane Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Phosphoric Acid-doped PBI Membrane Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Phosphoric Acid-doped PBI Membrane Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Value (2021-2026)

4.4.3 United States Based Manufacturers Phosphoric Acid-doped PBI Membrane Production (2021-2026)

4.5 China Based Phosphoric Acid-doped PBI Membrane Manufacturers and Market Share

4.5.1 China Based Phosphoric Acid-doped PBI Membrane Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Value (2021-2026)

4.5.3 China Based Manufacturers Phosphoric Acid-doped PBI Membrane Production (2021-2026)

4.6 Rest of World Based Phosphoric Acid-doped PBI Membrane Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Phosphoric Acid-doped PBI Membrane Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Phosphoric Acid-doped PBI Membrane Production (2021-2026)

5 MARKET ANALYSIS BY MATERIAL

5.1 World Phosphoric Acid-doped PBI Membrane Market Size Overview by Material:
2021 VS 2025 VS 2032

5.2 Segment Introduction by Material

5.2.1 Pure PBI Membrane

5.2.2 Composite PBI Membrane

5.2.3 Others

5.3 Market Segment by Material

5.3.1 World Phosphoric Acid-doped PBI Membrane Production by Material
(2021-2032)

5.3.2 World Phosphoric Acid-doped PBI Membrane Production Value by Material
(2021-2032)

5.3.3 World Phosphoric Acid-doped PBI Membrane Average Price by Material
(2021-2032)

6 MARKET ANALYSIS BY DOPING METHOD

6.1 World Phosphoric Acid-doped PBI Membrane Market Size Overview by Doping
Method: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Doping Method

6.2.1 Uniformly Doped PBI Membrane

6.2.2 Staged Doped PBI Membrane

6.2.3 Others

6.3 Market Segment by Doping Method

6.3.1 World Phosphoric Acid-doped PBI Membrane Production by Doping Method
(2021-2032)

6.3.2 World Phosphoric Acid-doped PBI Membrane Production Value by Doping
Method (2021-2032)

6.3.3 World Phosphoric Acid-doped PBI Membrane Average Price by Doping Method
(2021-2032)

7 MARKET ANALYSIS BY HYDRATION BEHAVIOR

7.1 World Phosphoric Acid-doped PBI Membrane Market Size Overview by Hydration
Behavior: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Hydration Behavior

7.2.1 Dry PBI Membrane

7.2.2 Hydrated PBI Membrane

7.3 Market Segment by Hydration Behavior

7.3.1 World Phosphoric Acid-doped PBI Membrane Production by Hydration Behavior (2021-2032)

7.3.2 World Phosphoric Acid-doped PBI Membrane Production Value by Hydration Behavior (2021-2032)

7.3.3 World Phosphoric Acid-doped PBI Membrane Average Price by Hydration Behavior (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Phosphoric Acid-doped PBI Membrane Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 High-temperature Fuel Cells

8.2.2 Distributed Energy And Storage Systems

8.2.3 Hydrogen Energy Applications

8.2.4 High-temperature Electrochemical Devices

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Phosphoric Acid-doped PBI Membrane Production by Application (2021-2032)

8.3.2 World Phosphoric Acid-doped PBI Membrane Production Value by Application (2021-2032)

8.3.3 World Phosphoric Acid-doped PBI Membrane Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Celanese

9.1.1 Celanese Details

9.1.2 Celanese Major Business

9.1.3 Celanese Phosphoric Acid-doped PBI Membrane Product and Services

9.1.4 Celanese Phosphoric Acid-doped PBI Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Celanese Recent Developments/Updates

9.1.6 Celanese Competitive Strengths & Weaknesses

9.2 BASF

9.2.1 BASF Details

9.2.2 BASF Major Business

- 9.2.3 BASF Phosphoric Acid-doped PBI Membrane Product and Services
- 9.2.4 BASF Phosphoric Acid-doped PBI Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 BASF Recent Developments/Updates
- 9.2.6 BASF Competitive Strengths & Weaknesses
- 9.3 DPS
 - 9.3.1 DPS Details
 - 9.3.2 DPS Major Business
 - 9.3.3 DPS Phosphoric Acid-doped PBI Membrane Product and Services
 - 9.3.4 DPS Phosphoric Acid-doped PBI Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 DPS Recent Developments/Updates
 - 9.3.6 DPS Competitive Strengths & Weaknesses
- 9.4 China Ruilong Technology Co., Ltd.
 - 9.4.1 China Ruilong Technology Co., Ltd. Details
 - 9.4.2 China Ruilong Technology Co., Ltd. Major Business
 - 9.4.3 China Ruilong Technology Co., Ltd. Phosphoric Acid-doped PBI Membrane Product and Services
 - 9.4.4 China Ruilong Technology Co., Ltd. Phosphoric Acid-doped PBI Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 China Ruilong Technology Co., Ltd. Recent Developments/Updates
 - 9.4.6 China Ruilong Technology Co., Ltd. Competitive Strengths & Weaknesses
- 9.5 Suzhou Thinkre New Material Co., Ltd.
 - 9.5.1 Suzhou Thinkre New Material Co., Ltd. Details
 - 9.5.2 Suzhou Thinkre New Material Co., Ltd. Major Business
 - 9.5.3 Suzhou Thinkre New Material Co., Ltd. Phosphoric Acid-doped PBI Membrane Product and Services
 - 9.5.4 Suzhou Thinkre New Material Co., Ltd. Phosphoric Acid-doped PBI Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Suzhou Thinkre New Material Co., Ltd. Recent Developments/Updates
 - 9.5.6 Suzhou Thinkre New Material Co., Ltd. Competitive Strengths & Weaknesses
- 9.6 Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd.
 - 9.6.1 Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Details
 - 9.6.2 Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Major Business
 - 9.6.3 Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Phosphoric Acid-doped PBI Membrane Product and Services
 - 9.6.4 Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Phosphoric Acid-doped PBI Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Recent Developments/Updates

9.6.6 Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Competitive Strengths & Weaknesses

9.7 Wuhan University of Technology New Energy Co., Ltd.

9.7.1 Wuhan University of Technology New Energy Co., Ltd. Details

9.7.2 Wuhan University of Technology New Energy Co., Ltd. Major Business

9.7.3 Wuhan University of Technology New Energy Co., Ltd. Phosphoric Acid-doped PBI Membrane Product and Services

9.7.4 Wuhan University of Technology New Energy Co., Ltd. Phosphoric Acid-doped PBI Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Wuhan University of Technology New Energy Co., Ltd. Recent Developments/Updates

9.7.6 Wuhan University of Technology New Energy Co., Ltd. Competitive Strengths & Weaknesses

9.8 Tianjin Jinlun New Materials Technology Co., Ltd.

9.8.1 Tianjin Jinlun New Materials Technology Co., Ltd. Details

9.8.2 Tianjin Jinlun New Materials Technology Co., Ltd. Major Business

9.8.3 Tianjin Jinlun New Materials Technology Co., Ltd. Phosphoric Acid-doped PBI Membrane Product and Services

9.8.4 Tianjin Jinlun New Materials Technology Co., Ltd. Phosphoric Acid-doped PBI Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Tianjin Jinlun New Materials Technology Co., Ltd. Recent Developments/Updates

9.8.6 Tianjin Jinlun New Materials Technology Co., Ltd. Competitive Strengths & Weaknesses

9.9 Blue World Technologies

9.9.1 Blue World Technologies Details

9.9.2 Blue World Technologies Major Business

9.9.3 Blue World Technologies Phosphoric Acid-doped PBI Membrane Product and Services

9.9.4 Blue World Technologies Phosphoric Acid-doped PBI Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Blue World Technologies Recent Developments/Updates

9.9.6 Blue World Technologies Competitive Strengths & Weaknesses

9.10 Bosch

9.10.1 Bosch Details

9.10.2 Bosch Major Business

9.10.3 Bosch Phosphoric Acid-doped PBI Membrane Product and Services

9.10.4 Bosch Phosphoric Acid-doped PBI Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Bosch Recent Developments/Updates

9.10.6 Bosch Competitive Strengths & Weaknesses

9.11 Toray

9.11.1 Toray Details

9.11.2 Toray Major Business

9.11.3 Toray Phosphoric Acid-doped PBI Membrane Product and Services

9.11.4 Toray Phosphoric Acid-doped PBI Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Toray Recent Developments/Updates

9.11.6 Toray Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Phosphoric Acid-doped PBI Membrane Industry Chain

10.2 Phosphoric Acid-doped PBI Membrane Upstream Analysis

10.2.1 Phosphoric Acid-doped PBI Membrane Core Raw Materials

10.2.2 Main Manufacturers of Phosphoric Acid-doped PBI Membrane Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Phosphoric Acid-doped PBI Membrane Production Mode

10.6 Phosphoric Acid-doped PBI Membrane Procurement Model

10.7 Phosphoric Acid-doped PBI Membrane Industry Sales Model and Sales Channels

10.7.1 Phosphoric Acid-doped PBI Membrane Sales Model

10.7.2 Phosphoric Acid-doped PBI Membrane Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Phosphoric Acid-doped PBI Membrane Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Phosphoric Acid-doped PBI Membrane Production Value by Region (2021-2026) & (USD Million)

Table 3. World Phosphoric Acid-doped PBI Membrane Production Value by Region (2027-2032) & (USD Million)

Table 4. World Phosphoric Acid-doped PBI Membrane Production Value Market Share by Region (2021-2026)

Table 5. World Phosphoric Acid-doped PBI Membrane Production Value Market Share by Region (2027-2032)

Table 6. World Phosphoric Acid-doped PBI Membrane Production by Region (2021-2026) & (Sq m)

Table 7. World Phosphoric Acid-doped PBI Membrane Production by Region (2027-2032) & (Sq m)

Table 8. World Phosphoric Acid-doped PBI Membrane Production Market Share by Region (2021-2026)

Table 9. World Phosphoric Acid-doped PBI Membrane Production Market Share by Region (2027-2032)

Table 10. World Phosphoric Acid-doped PBI Membrane Average Price by Region (2021-2026) & (US\$/Sq m)

Table 11. World Phosphoric Acid-doped PBI Membrane Average Price by Region (2027-2032) & (US\$/Sq m)

Table 12. Phosphoric Acid-doped PBI Membrane Major Market Trends

Table 13. World Phosphoric Acid-doped PBI Membrane Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Sq m)

Table 14. World Phosphoric Acid-doped PBI Membrane Consumption by Region (2021-2026) & (Sq m)

Table 15. World Phosphoric Acid-doped PBI Membrane Consumption Forecast by Region (2027-2032) & (Sq m)

Table 16. World Phosphoric Acid-doped PBI Membrane Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Phosphoric Acid-doped PBI Membrane Producers in 2025

Table 18. World Phosphoric Acid-doped PBI Membrane Production by Manufacturer (2021-2026) & (Sq m)

Table 19. Production Market Share of Key Phosphoric Acid-doped PBI Membrane Producers in 2025

Table 20. World Phosphoric Acid-doped PBI Membrane Average Price by Manufacturer (2021-2026) & (US\$/Sq m)

Table 21. Global Phosphoric Acid-doped PBI Membrane Company Evaluation Quadrant

Table 22. World Phosphoric Acid-doped PBI Membrane Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Phosphoric Acid-doped PBI Membrane Production Site of Key Manufacturer

Table 24. Phosphoric Acid-doped PBI Membrane Market: Company Product Type Footprint

Table 25. Phosphoric Acid-doped PBI Membrane Market: Company Product Application Footprint

Table 26. Phosphoric Acid-doped PBI Membrane Competitive Factors

Table 27. Phosphoric Acid-doped PBI Membrane New Entrant and Capacity Expansion Plans

Table 28. Phosphoric Acid-doped PBI Membrane Mergers & Acquisitions Activity

Table 29. United States VS China Phosphoric Acid-doped PBI Membrane Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Phosphoric Acid-doped PBI Membrane Production Comparison, (2021 & 2025 & 2032) & (Sq m)

Table 31. United States VS China Phosphoric Acid-doped PBI Membrane Consumption Comparison, (2021 & 2025 & 2032) & (Sq m)

Table 32. United States Based Phosphoric Acid-doped PBI Membrane Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Phosphoric Acid-doped PBI Membrane Production (2021-2026) & (Sq m)

Table 36. United States Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Market Share (2021-2026)

Table 37. China Based Phosphoric Acid-doped PBI Membrane Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Phosphoric Acid-doped PBI Membrane Production, (2021-2026) & (Sq m)

Table 41. China Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Market Share (2021-2026)

Table 42. Rest of World Based Phosphoric Acid-doped PBI Membrane Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Phosphoric Acid-doped PBI Membrane Production, (2021-2026) & (Sq m)

Table 46. Rest of World Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Market Share (2021-2026)

Table 47. World Phosphoric Acid-doped PBI Membrane Production Value by Material, (USD Million), 2021 & 2025 & 2032

Table 48. World Phosphoric Acid-doped PBI Membrane Production by Material (2021-2026) & (Sq m)

Table 49. World Phosphoric Acid-doped PBI Membrane Production by Material (2027-2032) & (Sq m)

Table 50. World Phosphoric Acid-doped PBI Membrane Production Value by Material (2021-2026) & (USD Million)

Table 51. World Phosphoric Acid-doped PBI Membrane Production Value by Material (2027-2032) & (USD Million)

Table 52. World Phosphoric Acid-doped PBI Membrane Average Price by Material (2021-2026) & (US\$/Sq m)

Table 53. World Phosphoric Acid-doped PBI Membrane Average Price by Material (2027-2032) & (US\$/Sq m)

Table 54. World Phosphoric Acid-doped PBI Membrane Production Value by Doping Method, (USD Million), 2021 & 2025 & 2032

Table 55. World Phosphoric Acid-doped PBI Membrane Production by Doping Method (2021-2026) & (Sq m)

Table 56. World Phosphoric Acid-doped PBI Membrane Production by Doping Method (2027-2032) & (Sq m)

Table 57. World Phosphoric Acid-doped PBI Membrane Production Value by Doping Method (2021-2026) & (USD Million)

Table 58. World Phosphoric Acid-doped PBI Membrane Production Value by Doping Method (2027-2032) & (USD Million)

Table 59. World Phosphoric Acid-doped PBI Membrane Average Price by Doping

Method (2021-2026) & (US\$/Sq m)

Table 60. World Phosphoric Acid-doped PBI Membrane Average Price by Doping Method (2027-2032) & (US\$/Sq m)

Table 61. World Phosphoric Acid-doped PBI Membrane Production Value by Hydration Behavior, (USD Million), 2021 & 2025 & 2032

Table 62. World Phosphoric Acid-doped PBI Membrane Production by Hydration Behavior (2021-2026) & (Sq m)

Table 63. World Phosphoric Acid-doped PBI Membrane Production by Hydration Behavior (2027-2032) & (Sq m)

Table 64. World Phosphoric Acid-doped PBI Membrane Production Value by Hydration Behavior (2021-2026) & (USD Million)

Table 65. World Phosphoric Acid-doped PBI Membrane Production Value by Hydration Behavior (2027-2032) & (USD Million)

Table 66. World Phosphoric Acid-doped PBI Membrane Average Price by Hydration Behavior (2021-2026) & (US\$/Sq m)

Table 67. World Phosphoric Acid-doped PBI Membrane Average Price by Hydration Behavior (2027-2032) & (US\$/Sq m)

Table 68. World Phosphoric Acid-doped PBI Membrane Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Phosphoric Acid-doped PBI Membrane Production by Application (2021-2026) & (Sq m)

Table 70. World Phosphoric Acid-doped PBI Membrane Production by Application (2027-2032) & (Sq m)

Table 71. World Phosphoric Acid-doped PBI Membrane Production Value by Application (2021-2026) & (USD Million)

Table 72. World Phosphoric Acid-doped PBI Membrane Production Value by Application (2027-2032) & (USD Million)

Table 73. World Phosphoric Acid-doped PBI Membrane Average Price by Application (2021-2026) & (US\$/Sq m)

Table 74. World Phosphoric Acid-doped PBI Membrane Average Price by Application (2027-2032) & (US\$/Sq m)

Table 75. Celanese Basic Information, Manufacturing Base and Competitors

Table 76. Celanese Major Business

Table 77. Celanese Phosphoric Acid-doped PBI Membrane Product and Services

Table 78. Celanese Phosphoric Acid-doped PBI Membrane Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Celanese Recent Developments/Updates

Table 80. Celanese Competitive Strengths & Weaknesses

Table 81. BASF Basic Information, Manufacturing Base and Competitors

Table 82. BASF Major Business

Table 83. BASF Phosphoric Acid-doped PBI Membrane Product and Services

Table 84. BASF Phosphoric Acid-doped PBI Membrane Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. BASF Recent Developments/Updates

Table 86. BASF Competitive Strengths & Weaknesses

Table 87. DPS Basic Information, Manufacturing Base and Competitors

Table 88. DPS Major Business

Table 89. DPS Phosphoric Acid-doped PBI Membrane Product and Services

Table 90. DPS Phosphoric Acid-doped PBI Membrane Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. DPS Recent Developments/Updates

Table 92. DPS Competitive Strengths & Weaknesses

Table 93. China Ruilong Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 94. China Ruilong Technology Co., Ltd. Major Business

Table 95. China Ruilong Technology Co., Ltd. Phosphoric Acid-doped PBI Membrane Product and Services

Table 96. China Ruilong Technology Co., Ltd. Phosphoric Acid-doped PBI Membrane Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. China Ruilong Technology Co., Ltd. Recent Developments/Updates

Table 98. China Ruilong Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 99. Suzhou Thinkre New Material Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 100. Suzhou Thinkre New Material Co., Ltd. Major Business

Table 101. Suzhou Thinkre New Material Co., Ltd. Phosphoric Acid-doped PBI Membrane Product and Services

Table 102. Suzhou Thinkre New Material Co., Ltd. Phosphoric Acid-doped PBI Membrane Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Suzhou Thinkre New Material Co., Ltd. Recent Developments/Updates

Table 104. Suzhou Thinkre New Material Co., Ltd. Competitive Strengths & Weaknesses

Table 105. Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 106. Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Major Business

Table 107. Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Phosphoric Acid-doped PBI Membrane Product and Services

Table 108. Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Phosphoric Acid-doped PBI Membrane Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Recent Developments/Updates

Table 110. Shandong Dongyue Future Hydrogen Energy Materials Co., Ltd. Competitive Strengths & Weaknesses

Table 111. Wuhan University of Technology New Energy Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 112. Wuhan University of Technology New Energy Co., Ltd. Major Business

Table 113. Wuhan University of Technology New Energy Co., Ltd. Phosphoric Acid-doped PBI Membrane Product and Services

Table 114. Wuhan University of Technology New Energy Co., Ltd. Phosphoric Acid-doped PBI Membrane Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Wuhan University of Technology New Energy Co., Ltd. Recent Developments/Updates

Table 116. Wuhan University of Technology New Energy Co., Ltd. Competitive Strengths & Weaknesses

Table 117. Tianjin Jinlun New Materials Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 118. Tianjin Jinlun New Materials Technology Co., Ltd. Major Business

Table 119. Tianjin Jinlun New Materials Technology Co., Ltd. Phosphoric Acid-doped PBI Membrane Product and Services

Table 120. Tianjin Jinlun New Materials Technology Co., Ltd. Phosphoric Acid-doped PBI Membrane Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Tianjin Jinlun New Materials Technology Co., Ltd. Recent Developments/Updates

Table 122. Tianjin Jinlun New Materials Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 123. Blue World Technologies Basic Information, Manufacturing Base and Competitors

Table 124. Blue World Technologies Major Business

Table 125. Blue World Technologies Phosphoric Acid-doped PBI Membrane Product

and Services

Table 126. Blue World Technologies Phosphoric Acid-doped PBI Membrane Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Blue World Technologies Recent Developments/Updates

Table 128. Blue World Technologies Competitive Strengths & Weaknesses

Table 129. Bosch Basic Information, Manufacturing Base and Competitors

Table 130. Bosch Major Business

Table 131. Bosch Phosphoric Acid-doped PBI Membrane Product and Services

Table 132. Bosch Phosphoric Acid-doped PBI Membrane Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Bosch Recent Developments/Updates

Table 134. Bosch Competitive Strengths & Weaknesses

Table 135. Toray Basic Information, Manufacturing Base and Competitors

Table 136. Toray Major Business

Table 137. Toray Phosphoric Acid-doped PBI Membrane Product and Services

Table 138. Toray Phosphoric Acid-doped PBI Membrane Production (Sq m), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Toray Recent Developments/Updates

Table 140. Toray Competitive Strengths & Weaknesses

Table 141. Global Key Players of Phosphoric Acid-doped PBI Membrane Upstream (Raw Materials)

Table 142. Global Phosphoric Acid-doped PBI Membrane Typical Customers

Table 143. Phosphoric Acid-doped PBI Membrane Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Phosphoric Acid-doped PBI Membrane Picture
- Figure 2. World Phosphoric Acid-doped PBI Membrane Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Phosphoric Acid-doped PBI Membrane Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Phosphoric Acid-doped PBI Membrane Production (2021-2032) & (Sq m)
- Figure 5. World Phosphoric Acid-doped PBI Membrane Average Price (2021-2032) & (US\$/Sq m)
- Figure 6. World Phosphoric Acid-doped PBI Membrane Production Value Market Share by Region (2021-2032)
- Figure 7. World Phosphoric Acid-doped PBI Membrane Production Market Share by Region (2021-2032)
- Figure 8. North America Phosphoric Acid-doped PBI Membrane Production (2021-2032) & (Sq m)
- Figure 9. Europe Phosphoric Acid-doped PBI Membrane Production (2021-2032) & (Sq m)
- Figure 10. China Phosphoric Acid-doped PBI Membrane Production (2021-2032) & (Sq m)
- Figure 11. Japan Phosphoric Acid-doped PBI Membrane Production (2021-2032) & (Sq m)
- Figure 12. India Phosphoric Acid-doped PBI Membrane Production (2021-2032) & (Sq m)
- Figure 13. Southeast Asia Phosphoric Acid-doped PBI Membrane Production (2021-2032) & (Sq m)
- Figure 14. Phosphoric Acid-doped PBI Membrane Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World Phosphoric Acid-doped PBI Membrane Consumption (2021-2032) & (Sq m)
- Figure 17. World Phosphoric Acid-doped PBI Membrane Consumption Market Share by Region (2021-2032)
- Figure 18. United States Phosphoric Acid-doped PBI Membrane Consumption (2021-2032) & (Sq m)
- Figure 19. China Phosphoric Acid-doped PBI Membrane Consumption (2021-2032) & (Sq m)

Figure 20. Europe Phosphoric Acid-doped PBI Membrane Consumption (2021-2032) & (Sq m)

Figure 21. Japan Phosphoric Acid-doped PBI Membrane Consumption (2021-2032) & (Sq m)

Figure 22. South Korea Phosphoric Acid-doped PBI Membrane Consumption (2021-2032) & (Sq m)

Figure 23. ASEAN Phosphoric Acid-doped PBI Membrane Consumption (2021-2032) & (Sq m)

Figure 24. India Phosphoric Acid-doped PBI Membrane Consumption (2021-2032) & (Sq m)

Figure 25. Producer Shipments of Phosphoric Acid-doped PBI Membrane by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Phosphoric Acid-doped PBI Membrane Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Phosphoric Acid-doped PBI Membrane Markets in 2025

Figure 28. United States VS China: Phosphoric Acid-doped PBI Membrane Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Phosphoric Acid-doped PBI Membrane Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Phosphoric Acid-doped PBI Membrane Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Market Share 2025

Figure 32. China Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Phosphoric Acid-doped PBI Membrane Production Market Share 2025

Figure 34. World Phosphoric Acid-doped PBI Membrane Production Value by Material, (USD Million), 2021 & 2025 & 2032

Figure 35. World Phosphoric Acid-doped PBI Membrane Production Value Market Share by Material in 2025

Figure 36. Pure PBI Membrane

Figure 37. Composite PBI Membrane

Figure 38. Others

Figure 39. World Phosphoric Acid-doped PBI Membrane Production Market Share by Material (2021-2032)

Figure 40. World Phosphoric Acid-doped PBI Membrane Production Value Market Share by Material (2021-2032)

Figure 41. World Phosphoric Acid-doped PBI Membrane Average Price by Material (2021-2032) & (US\$/Sq m)

Figure 42. World Phosphoric Acid-doped PBI Membrane Production Value by Doping Method, (USD Million), 2021 & 2025 & 2032

Figure 43. World Phosphoric Acid-doped PBI Membrane Production Value Market Share by Doping Method in 2025

Figure 44. Uniformly Doped PBI Membrane

Figure 45. Staged Doped PBI Membrane

Figure 46. Others

Figure 47. World Phosphoric Acid-doped PBI Membrane Production Market Share by Doping Method (2021-2032)

Figure 48. World Phosphoric Acid-doped PBI Membrane Production Value Market Share by Doping Method (2021-2032)

Figure 49. World Phosphoric Acid-doped PBI Membrane Average Price by Doping Method (2021-2032) & (US\$/Sq m)

Figure 50. World Phosphoric Acid-doped PBI Membrane Production Value by Hydration Behavior, (USD Million), 2021 & 2025 & 2032

Figure 51. World Phosphoric Acid-doped PBI Membrane Production Value Market Share by Hydration Behavior in 2025

Figure 52. Dry PBI Membrane

Figure 53. Hydrated PBI Membrane

Figure 54. World Phosphoric Acid-doped PBI Membrane Production Market Share by Hydration Behavior (2021-2032)

Figure 55. World Phosphoric Acid-doped PBI Membrane Production Value Market Share by Hydration Behavior (2021-2032)

Figure 56. World Phosphoric Acid-doped PBI Membrane Average Price by Hydration Behavior (2021-2032) & (US\$/Sq m)

Figure 57. World Phosphoric Acid-doped PBI Membrane Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Phosphoric Acid-doped PBI Membrane Production Value Market Share by Application in 2025

Figure 59. High-temperature Fuel Cells

Figure 60. Distributed Energy And Storage Systems

Figure 61. Hydrogen Energy Applications

Figure 62. High-temperature Electrochemical Devices

Figure 63. Others

Figure 64. World Phosphoric Acid-doped PBI Membrane Production Market Share by Application (2021-2032)

Figure 65. World Phosphoric Acid-doped PBI Membrane Production Value Market

Share by Application (2021-2032)

Figure 66. World Phosphoric Acid-doped PBI Membrane Average Price by Application (2021-2032) & (US\$/Sq m)

Figure 67. Phosphoric Acid-doped PBI Membrane Industry Chain

Figure 68. Phosphoric Acid-doped PBI Membrane Procurement Model

Figure 69. Phosphoric Acid-doped PBI Membrane Sales Model

Figure 70. Phosphoric Acid-doped PBI Membrane Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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