

Global Proton Exchange Membrane (PEM) Market Research Report 2024(Status and Outlook)

<https://marketpublishers.com/r/G1F05B4CA5D9EN.html>

Date: June 2024

Pages: 149

Price: US\$ 3,200.00 (Single User License)

ID: G1F05B4CA5D9EN

Abstracts

Report Overview:

Proton-exchange membrane fuel cells, also known as polymer electrolyte membrane (PEM) fuel cells (PEMFC), are a type of fuel cell being developed mainly for transport applications, as well as for stationary fuel-cell applications and portable fuel-cell applications. Their distinguishing features include lower temperature/pressure ranges (50 to 100 °C) and a special proton-conducting polymer electrolyte membrane. PEMFCs generate electricity and operate on the opposite principle to PEM electrolysis, which consumes electricity. They are a leading candidate to replace the aging alkaline fuel-cell technology, which was used in the Space Shuttle.

The Global Proton Exchange Membrane (PEM) Market Size was estimated at USD 1016.69 million in 2023 and is projected to reach USD 1206.93 million by 2029, exhibiting a CAGR of 2.90% during the forecast period.

This report provides a deep insight into the global Proton Exchange Membrane (PEM) market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Proton Exchange Membrane (PEM) Market, this report introduces in detail the

market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Proton Exchange Membrane (PEM) market in any manner.

Global Proton Exchange Membrane (PEM) Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Demirdokum

Electrochem

ReliOn

Ballard Power Systems

UTC Power (UTC Fuel Cells)

PEMEAS USA

E-TEK Inc

DuPont Fuel Cells

3M

Johnson Matthey

WL Gore

Hydrogenics

Lynntech

NedStack

Giner

Plug Power

Atlantic Fuel Cell

NuVant Systems

Vestel Elektronik

Market Segmentation (by Type)

Polyaromatic Polymers Membrane

Partially Fluorinated Polymers Membrane

Market Segmentation (by Application)

Portable Power Supply

Power of the Vehicles

Decentralized Power Station

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Proton Exchange Membrane (PEM) Market

Overview of the regional outlook of the Proton Exchange Membrane (PEM) Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Note: this report may need to undergo a final check or review and this could take about 48 hours.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Proton Exchange Membrane (PEM) Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the Market's Competitive Landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Proton Exchange Membrane (PEM)
- 1.2 Key Market Segments
 - 1.2.1 Proton Exchange Membrane (PEM) Segment by Type
 - 1.2.2 Proton Exchange Membrane (PEM) Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 PROTON EXCHANGE MEMBRANE (PEM) MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Proton Exchange Membrane (PEM) Market Size (M USD) Estimates and Forecasts (2019-2030)
 - 2.1.2 Global Proton Exchange Membrane (PEM) Sales Estimates and Forecasts (2019-2030)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 PROTON EXCHANGE MEMBRANE (PEM) MARKET COMPETITIVE LANDSCAPE

- 3.1 Global Proton Exchange Membrane (PEM) Sales by Manufacturers (2019-2024)
- 3.2 Global Proton Exchange Membrane (PEM) Revenue Market Share by Manufacturers (2019-2024)
- 3.3 Proton Exchange Membrane (PEM) Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.4 Global Proton Exchange Membrane (PEM) Average Price by Manufacturers (2019-2024)
- 3.5 Manufacturers Proton Exchange Membrane (PEM) Sales Sites, Area Served, Product Type
- 3.6 Proton Exchange Membrane (PEM) Market Competitive Situation and Trends
 - 3.6.1 Proton Exchange Membrane (PEM) Market Concentration Rate
 - 3.6.2 Global 5 and 10 Largest Proton Exchange Membrane (PEM) Players Market

Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 PROTON EXCHANGE MEMBRANE (PEM) INDUSTRY CHAIN ANALYSIS

4.1 Proton Exchange Membrane (PEM) Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF PROTON EXCHANGE MEMBRANE (PEM) MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

6 PROTON EXCHANGE MEMBRANE (PEM) MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Proton Exchange Membrane (PEM) Sales Market Share by Type (2019-2024)

6.3 Global Proton Exchange Membrane (PEM) Market Size Market Share by Type (2019-2024)

6.4 Global Proton Exchange Membrane (PEM) Price by Type (2019-2024)

7 PROTON EXCHANGE MEMBRANE (PEM) MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Proton Exchange Membrane (PEM) Market Sales by Application (2019-2024)

7.3 Global Proton Exchange Membrane (PEM) Market Size (M USD) by Application (2019-2024)

7.4 Global Proton Exchange Membrane (PEM) Sales Growth Rate by Application (2019-2024)

8 PROTON EXCHANGE MEMBRANE (PEM) MARKET SEGMENTATION BY REGION

8.1 Global Proton Exchange Membrane (PEM) Sales by Region

8.1.1 Global Proton Exchange Membrane (PEM) Sales by Region

8.1.2 Global Proton Exchange Membrane (PEM) Sales Market Share by Region

8.2 North America

8.2.1 North America Proton Exchange Membrane (PEM) Sales by Country

8.2.2 U.S.

8.2.3 Canada

8.2.4 Mexico

8.3 Europe

8.3.1 Europe Proton Exchange Membrane (PEM) Sales by Country

8.3.2 Germany

8.3.3 France

8.3.4 U.K.

8.3.5 Italy

8.3.6 Russia

8.4 Asia Pacific

8.4.1 Asia Pacific Proton Exchange Membrane (PEM) Sales by Region

8.4.2 China

8.4.3 Japan

8.4.4 South Korea

8.4.5 India

8.4.6 Southeast Asia

8.5 South America

8.5.1 South America Proton Exchange Membrane (PEM) Sales by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa Proton Exchange Membrane (PEM) Sales by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

9 KEY COMPANIES PROFILE

9.1 Demirdokum

9.1.1 Demirdokum Proton Exchange Membrane (PEM) Basic Information

9.1.2 Demirdokum Proton Exchange Membrane (PEM) Product Overview

9.1.3 Demirdokum Proton Exchange Membrane (PEM) Product Market Performance

9.1.4 Demirdokum Business Overview

9.1.5 Demirdokum Proton Exchange Membrane (PEM) SWOT Analysis

9.1.6 Demirdokum Recent Developments

9.2 Electrochem

9.2.1 Electrochem Proton Exchange Membrane (PEM) Basic Information

9.2.2 Electrochem Proton Exchange Membrane (PEM) Product Overview

9.2.3 Electrochem Proton Exchange Membrane (PEM) Product Market Performance

9.2.4 Electrochem Business Overview

9.2.5 Electrochem Proton Exchange Membrane (PEM) SWOT Analysis

9.2.6 Electrochem Recent Developments

9.3 ReliOn

9.3.1 ReliOn Proton Exchange Membrane (PEM) Basic Information

9.3.2 ReliOn Proton Exchange Membrane (PEM) Product Overview

9.3.3 ReliOn Proton Exchange Membrane (PEM) Product Market Performance

9.3.4 ReliOn Proton Exchange Membrane (PEM) SWOT Analysis

9.3.5 ReliOn Business Overview

9.3.6 ReliOn Recent Developments

9.4 Ballard Power Systems

9.4.1 Ballard Power Systems Proton Exchange Membrane (PEM) Basic Information

9.4.2 Ballard Power Systems Proton Exchange Membrane (PEM) Product Overview

9.4.3 Ballard Power Systems Proton Exchange Membrane (PEM) Product Market

Performance

9.4.4 Ballard Power Systems Business Overview

9.4.5 Ballard Power Systems Recent Developments

9.5 UTC Power (UTC Fuel Cells)

9.5.1 UTC Power (UTC Fuel Cells) Proton Exchange Membrane (PEM) Basic Information

9.5.2 UTC Power (UTC Fuel Cells) Proton Exchange Membrane (PEM) Product Overview

9.5.3 UTC Power (UTC Fuel Cells) Proton Exchange Membrane (PEM) Product Market Performance

9.5.4 UTC Power (UTC Fuel Cells) Business Overview

9.5.5 UTC Power (UTC Fuel Cells) Recent Developments

9.6 PEMEAS USA

9.6.1 PEMEAS USA Proton Exchange Membrane (PEM) Basic Information

9.6.2 PEMEAS USA Proton Exchange Membrane (PEM) Product Overview

9.6.3 PEMEAS USA Proton Exchange Membrane (PEM) Product Market Performance

9.6.4 PEMEAS USA Business Overview

9.6.5 PEMEAS USA Recent Developments

9.7 E-TEK Inc

9.7.1 E-TEK Inc Proton Exchange Membrane (PEM) Basic Information

9.7.2 E-TEK Inc Proton Exchange Membrane (PEM) Product Overview

9.7.3 E-TEK Inc Proton Exchange Membrane (PEM) Product Market Performance

9.7.4 E-TEK Inc Business Overview

9.7.5 E-TEK Inc Recent Developments

9.8 DuPont Fuel Cells

9.8.1 DuPont Fuel Cells Proton Exchange Membrane (PEM) Basic Information

9.8.2 DuPont Fuel Cells Proton Exchange Membrane (PEM) Product Overview

9.8.3 DuPont Fuel Cells Proton Exchange Membrane (PEM) Product Market Performance

9.8.4 DuPont Fuel Cells Business Overview

9.8.5 DuPont Fuel Cells Recent Developments

9.9 3M

9.9.1 3M Proton Exchange Membrane (PEM) Basic Information

9.9.2 3M Proton Exchange Membrane (PEM) Product Overview

9.9.3 3M Proton Exchange Membrane (PEM) Product Market Performance

9.9.4 3M Business Overview

9.9.5 3M Recent Developments

9.10 Johnson Matthey

9.10.1 Johnson Matthey Proton Exchange Membrane (PEM) Basic Information

9.10.2 Johnson Matthey Proton Exchange Membrane (PEM) Product Overview

9.10.3 Johnson Matthey Proton Exchange Membrane (PEM) Product Market Performance

9.10.4 Johnson Matthey Business Overview

9.10.5 Johnson Matthey Recent Developments

9.11 WL Gore

9.11.1 WL Gore Proton Exchange Membrane (PEM) Basic Information

9.11.2 WL Gore Proton Exchange Membrane (PEM) Product Overview

- 9.11.3 WL Gore Proton Exchange Membrane (PEM) Product Market Performance
- 9.11.4 WL Gore Business Overview
- 9.11.5 WL Gore Recent Developments
- 9.12 Hydrogenics
 - 9.12.1 Hydrogenics Proton Exchange Membrane (PEM) Basic Information
 - 9.12.2 Hydrogenics Proton Exchange Membrane (PEM) Product Overview
 - 9.12.3 Hydrogenics Proton Exchange Membrane (PEM) Product Market Performance
 - 9.12.4 Hydrogenics Business Overview
 - 9.12.5 Hydrogenics Recent Developments
- 9.13 Lynntech
 - 9.13.1 Lynntech Proton Exchange Membrane (PEM) Basic Information
 - 9.13.2 Lynntech Proton Exchange Membrane (PEM) Product Overview
 - 9.13.3 Lynntech Proton Exchange Membrane (PEM) Product Market Performance
 - 9.13.4 Lynntech Business Overview
 - 9.13.5 Lynntech Recent Developments
- 9.14 NedStack
 - 9.14.1 NedStack Proton Exchange Membrane (PEM) Basic Information
 - 9.14.2 NedStack Proton Exchange Membrane (PEM) Product Overview
 - 9.14.3 NedStack Proton Exchange Membrane (PEM) Product Market Performance
 - 9.14.4 NedStack Business Overview
 - 9.14.5 NedStack Recent Developments
- 9.15 Giner
 - 9.15.1 Giner Proton Exchange Membrane (PEM) Basic Information
 - 9.15.2 Giner Proton Exchange Membrane (PEM) Product Overview
 - 9.15.3 Giner Proton Exchange Membrane (PEM) Product Market Performance
 - 9.15.4 Giner Business Overview
 - 9.15.5 Giner Recent Developments
- 9.16 Plug Power
 - 9.16.1 Plug Power Proton Exchange Membrane (PEM) Basic Information
 - 9.16.2 Plug Power Proton Exchange Membrane (PEM) Product Overview
 - 9.16.3 Plug Power Proton Exchange Membrane (PEM) Product Market Performance
 - 9.16.4 Plug Power Business Overview
 - 9.16.5 Plug Power Recent Developments
- 9.17 Atlantic Fuel Cell
 - 9.17.1 Atlantic Fuel Cell Proton Exchange Membrane (PEM) Basic Information
 - 9.17.2 Atlantic Fuel Cell Proton Exchange Membrane (PEM) Product Overview
 - 9.17.3 Atlantic Fuel Cell Proton Exchange Membrane (PEM) Product Market Performance
 - 9.17.4 Atlantic Fuel Cell Business Overview

9.17.5 Atlantic Fuel Cell Recent Developments

9.18 NuVant Systems

9.18.1 NuVant Systems Proton Exchange Membrane (PEM) Basic Information

9.18.2 NuVant Systems Proton Exchange Membrane (PEM) Product Overview

9.18.3 NuVant Systems Proton Exchange Membrane (PEM) Product Market

Performance

9.18.4 NuVant Systems Business Overview

9.18.5 NuVant Systems Recent Developments

9.19 Vestel Elektronik

9.19.1 Vestel Elektronik Proton Exchange Membrane (PEM) Basic Information

9.19.2 Vestel Elektronik Proton Exchange Membrane (PEM) Product Overview

9.19.3 Vestel Elektronik Proton Exchange Membrane (PEM) Product Market

Performance

9.19.4 Vestel Elektronik Business Overview

9.19.5 Vestel Elektronik Recent Developments

10 PROTON EXCHANGE MEMBRANE (PEM) MARKET FORECAST BY REGION

10.1 Global Proton Exchange Membrane (PEM) Market Size Forecast

10.2 Global Proton Exchange Membrane (PEM) Market Forecast by Region

10.2.1 North America Market Size Forecast by Country

10.2.2 Europe Proton Exchange Membrane (PEM) Market Size Forecast by Country

10.2.3 Asia Pacific Proton Exchange Membrane (PEM) Market Size Forecast by

Region

10.2.4 South America Proton Exchange Membrane (PEM) Market Size Forecast by Country

10.2.5 Middle East and Africa Forecasted Consumption of Proton Exchange Membrane (PEM) by Country

11 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2030)

11.1 Global Proton Exchange Membrane (PEM) Market Forecast by Type (2025-2030)

11.1.1 Global Forecasted Sales of Proton Exchange Membrane (PEM) by Type (2025-2030)

11.1.2 Global Proton Exchange Membrane (PEM) Market Size Forecast by Type (2025-2030)

11.1.3 Global Forecasted Price of Proton Exchange Membrane (PEM) by Type (2025-2030)

11.2 Global Proton Exchange Membrane (PEM) Market Forecast by Application

(2025-2030)

11.2.1 Global Proton Exchange Membrane (PEM) Sales (Kilotons) Forecast by Application

11.2.2 Global Proton Exchange Membrane (PEM) Market Size (M USD) Forecast by Application (2025-2030)

12 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Proton Exchange Membrane (PEM) Market Size Comparison by Region (M USD)

Table 5. Global Proton Exchange Membrane (PEM) Sales (Kilotons) by Manufacturers (2019-2024)

Table 6. Global Proton Exchange Membrane (PEM) Sales Market Share by Manufacturers (2019-2024)

Table 7. Global Proton Exchange Membrane (PEM) Revenue (M USD) by Manufacturers (2019-2024)

Table 8. Global Proton Exchange Membrane (PEM) Revenue Share by Manufacturers (2019-2024)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Proton Exchange Membrane (PEM) as of 2022)

Table 10. Global Market Proton Exchange Membrane (PEM) Average Price (USD/Ton) of Key Manufacturers (2019-2024)

Table 11. Manufacturers Proton Exchange Membrane (PEM) Sales Sites and Area Served

Table 12. Manufacturers Proton Exchange Membrane (PEM) Product Type

Table 13. Global Proton Exchange Membrane (PEM) Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of Proton Exchange Membrane (PEM)

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Proton Exchange Membrane (PEM) Market Challenges

Table 22. Global Proton Exchange Membrane (PEM) Sales by Type (Kilotons)

Table 23. Global Proton Exchange Membrane (PEM) Market Size by Type (M USD)

Table 24. Global Proton Exchange Membrane (PEM) Sales (Kilotons) by Type (2019-2024)

Table 25. Global Proton Exchange Membrane (PEM) Sales Market Share by Type

(2019-2024)

Table 26. Global Proton Exchange Membrane (PEM) Market Size (M USD) by Type (2019-2024)

Table 27. Global Proton Exchange Membrane (PEM) Market Size Share by Type (2019-2024)

Table 28. Global Proton Exchange Membrane (PEM) Price (USD/Ton) by Type (2019-2024)

Table 29. Global Proton Exchange Membrane (PEM) Sales (Kilotons) by Application

Table 30. Global Proton Exchange Membrane (PEM) Market Size by Application

Table 31. Global Proton Exchange Membrane (PEM) Sales by Application (2019-2024) & (Kilotons)

Table 32. Global Proton Exchange Membrane (PEM) Sales Market Share by Application (2019-2024)

Table 33. Global Proton Exchange Membrane (PEM) Sales by Application (2019-2024) & (M USD)

Table 34. Global Proton Exchange Membrane (PEM) Market Share by Application (2019-2024)

Table 35. Global Proton Exchange Membrane (PEM) Sales Growth Rate by Application (2019-2024)

Table 36. Global Proton Exchange Membrane (PEM) Sales by Region (2019-2024) & (Kilotons)

Table 37. Global Proton Exchange Membrane (PEM) Sales Market Share by Region (2019-2024)

Table 38. North America Proton Exchange Membrane (PEM) Sales by Country (2019-2024) & (Kilotons)

Table 39. Europe Proton Exchange Membrane (PEM) Sales by Country (2019-2024) & (Kilotons)

Table 40. Asia Pacific Proton Exchange Membrane (PEM) Sales by Region (2019-2024) & (Kilotons)

Table 41. South America Proton Exchange Membrane (PEM) Sales by Country (2019-2024) & (Kilotons)

Table 42. Middle East and Africa Proton Exchange Membrane (PEM) Sales by Region (2019-2024) & (Kilotons)

Table 43. Demirdokum Proton Exchange Membrane (PEM) Basic Information

Table 44. Demirdokum Proton Exchange Membrane (PEM) Product Overview

Table 45. Demirdokum Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 46. Demirdokum Business Overview

Table 47. Demirdokum Proton Exchange Membrane (PEM) SWOT Analysis

- Table 48. Demirdokum Recent Developments
- Table 49. Electrochem Proton Exchange Membrane (PEM) Basic Information
- Table 50. Electrochem Proton Exchange Membrane (PEM) Product Overview
- Table 51. Electrochem Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 52. Electrochem Business Overview
- Table 53. Electrochem Proton Exchange Membrane (PEM) SWOT Analysis
- Table 54. Electrochem Recent Developments
- Table 55. ReliOn Proton Exchange Membrane (PEM) Basic Information
- Table 56. ReliOn Proton Exchange Membrane (PEM) Product Overview
- Table 57. ReliOn Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 58. ReliOn Proton Exchange Membrane (PEM) SWOT Analysis
- Table 59. ReliOn Business Overview
- Table 60. ReliOn Recent Developments
- Table 61. Ballard Power Systems Proton Exchange Membrane (PEM) Basic Information
- Table 62. Ballard Power Systems Proton Exchange Membrane (PEM) Product Overview
- Table 63. Ballard Power Systems Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 64. Ballard Power Systems Business Overview
- Table 65. Ballard Power Systems Recent Developments
- Table 66. UTC Power (UTC Fuel Cells) Proton Exchange Membrane (PEM) Basic Information
- Table 67. UTC Power (UTC Fuel Cells) Proton Exchange Membrane (PEM) Product Overview
- Table 68. UTC Power (UTC Fuel Cells) Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 69. UTC Power (UTC Fuel Cells) Business Overview
- Table 70. UTC Power (UTC Fuel Cells) Recent Developments
- Table 71. PEMEAS USA Proton Exchange Membrane (PEM) Basic Information
- Table 72. PEMEAS USA Proton Exchange Membrane (PEM) Product Overview
- Table 73. PEMEAS USA Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 74. PEMEAS USA Business Overview
- Table 75. PEMEAS USA Recent Developments
- Table 76. E-TEK Inc Proton Exchange Membrane (PEM) Basic Information
- Table 77. E-TEK Inc Proton Exchange Membrane (PEM) Product Overview
- Table 78. E-TEK Inc Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M

USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 79. E-TEK Inc Business Overview

Table 80. E-TEK Inc Recent Developments

Table 81. DuPont Fuel Cells Proton Exchange Membrane (PEM) Basic Information

Table 82. DuPont Fuel Cells Proton Exchange Membrane (PEM) Product Overview

Table 83. DuPont Fuel Cells Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 84. DuPont Fuel Cells Business Overview

Table 85. DuPont Fuel Cells Recent Developments

Table 86. 3M Proton Exchange Membrane (PEM) Basic Information

Table 87. 3M Proton Exchange Membrane (PEM) Product Overview

Table 88. 3M Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 89. 3M Business Overview

Table 90. 3M Recent Developments

Table 91. Johnson Matthey Proton Exchange Membrane (PEM) Basic Information

Table 92. Johnson Matthey Proton Exchange Membrane (PEM) Product Overview

Table 93. Johnson Matthey Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 94. Johnson Matthey Business Overview

Table 95. Johnson Matthey Recent Developments

Table 96. WL Gore Proton Exchange Membrane (PEM) Basic Information

Table 97. WL Gore Proton Exchange Membrane (PEM) Product Overview

Table 98. WL Gore Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 99. WL Gore Business Overview

Table 100. WL Gore Recent Developments

Table 101. Hydrogenics Proton Exchange Membrane (PEM) Basic Information

Table 102. Hydrogenics Proton Exchange Membrane (PEM) Product Overview

Table 103. Hydrogenics Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 104. Hydrogenics Business Overview

Table 105. Hydrogenics Recent Developments

Table 106. Lynntech Proton Exchange Membrane (PEM) Basic Information

Table 107. Lynntech Proton Exchange Membrane (PEM) Product Overview

Table 108. Lynntech Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)

Table 109. Lynntech Business Overview

Table 110. Lynntech Recent Developments

- Table 111. NedStack Proton Exchange Membrane (PEM) Basic Information
- Table 112. NedStack Proton Exchange Membrane (PEM) Product Overview
- Table 113. NedStack Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 114. NedStack Business Overview
- Table 115. NedStack Recent Developments
- Table 116. Giner Proton Exchange Membrane (PEM) Basic Information
- Table 117. Giner Proton Exchange Membrane (PEM) Product Overview
- Table 118. Giner Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 119. Giner Business Overview
- Table 120. Giner Recent Developments
- Table 121. Plug Power Proton Exchange Membrane (PEM) Basic Information
- Table 122. Plug Power Proton Exchange Membrane (PEM) Product Overview
- Table 123. Plug Power Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 124. Plug Power Business Overview
- Table 125. Plug Power Recent Developments
- Table 126. Atlantic Fuel Cell Proton Exchange Membrane (PEM) Basic Information
- Table 127. Atlantic Fuel Cell Proton Exchange Membrane (PEM) Product Overview
- Table 128. Atlantic Fuel Cell Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 129. Atlantic Fuel Cell Business Overview
- Table 130. Atlantic Fuel Cell Recent Developments
- Table 131. NuVant Systems Proton Exchange Membrane (PEM) Basic Information
- Table 132. NuVant Systems Proton Exchange Membrane (PEM) Product Overview
- Table 133. NuVant Systems Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 134. NuVant Systems Business Overview
- Table 135. NuVant Systems Recent Developments
- Table 136. Vestel Elektronik Proton Exchange Membrane (PEM) Basic Information
- Table 137. Vestel Elektronik Proton Exchange Membrane (PEM) Product Overview
- Table 138. Vestel Elektronik Proton Exchange Membrane (PEM) Sales (Kilotons), Revenue (M USD), Price (USD/Ton) and Gross Margin (2019-2024)
- Table 139. Vestel Elektronik Business Overview
- Table 140. Vestel Elektronik Recent Developments
- Table 141. Global Proton Exchange Membrane (PEM) Sales Forecast by Region (2025-2030) & (Kilotons)
- Table 142. Global Proton Exchange Membrane (PEM) Market Size Forecast by Region

(2025-2030) & (M USD)

Table 143. North America Proton Exchange Membrane (PEM) Sales Forecast by Country (2025-2030) & (Kilotons)

Table 144. North America Proton Exchange Membrane (PEM) Market Size Forecast by Country (2025-2030) & (M USD)

Table 145. Europe Proton Exchange Membrane (PEM) Sales Forecast by Country (2025-2030) & (Kilotons)

Table 146. Europe Proton Exchange Membrane (PEM) Market Size Forecast by Country (2025-2030) & (M USD)

Table 147. Asia Pacific Proton Exchange Membrane (PEM) Sales Forecast by Region (2025-2030) & (Kilotons)

Table 148. Asia Pacific Proton Exchange Membrane (PEM) Market Size Forecast by Region (2025-2030) & (M USD)

Table 149. South America Proton Exchange Membrane (PEM) Sales Forecast by Country (2025-2030) & (Kilotons)

Table 150. South America Proton Exchange Membrane (PEM) Market Size Forecast by Country (2025-2030) & (M USD)

Table 151. Middle East and Africa Proton Exchange Membrane (PEM) Consumption Forecast by Country (2025-2030) & (Units)

Table 152. Middle East and Africa Proton Exchange Membrane (PEM) Market Size Forecast by Country (2025-2030) & (M USD)

Table 153. Global Proton Exchange Membrane (PEM) Sales Forecast by Type (2025-2030) & (Kilotons)

Table 154. Global Proton Exchange Membrane (PEM) Market Size Forecast by Type (2025-2030) & (M USD)

Table 155. Global Proton Exchange Membrane (PEM) Price Forecast by Type (2025-2030) & (USD/Ton)

Table 156. Global Proton Exchange Membrane (PEM) Sales (Kilotons) Forecast by Application (2025-2030)

Table 157. Global Proton Exchange Membrane (PEM) Market Size Forecast by Application (2025-2030) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Proton Exchange Membrane (PEM)
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Proton Exchange Membrane (PEM) Market Size (M USD), 2019-2030
- Figure 5. Global Proton Exchange Membrane (PEM) Market Size (M USD) (2019-2030)
- Figure 6. Global Proton Exchange Membrane (PEM) Sales (Kilotons) & (2019-2030)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Proton Exchange Membrane (PEM) Market Size by Country (M USD)
- Figure 11. Proton Exchange Membrane (PEM) Sales Share by Manufacturers in 2023
- Figure 12. Global Proton Exchange Membrane (PEM) Revenue Share by Manufacturers in 2023
- Figure 13. Proton Exchange Membrane (PEM) Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market Proton Exchange Membrane (PEM) Average Price (USD/Ton) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by Proton Exchange Membrane (PEM) Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global Proton Exchange Membrane (PEM) Market Share by Type
- Figure 18. Sales Market Share of Proton Exchange Membrane (PEM) by Type (2019-2024)
- Figure 19. Sales Market Share of Proton Exchange Membrane (PEM) by Type in 2023
- Figure 20. Market Size Share of Proton Exchange Membrane (PEM) by Type (2019-2024)
- Figure 21. Market Size Market Share of Proton Exchange Membrane (PEM) by Type in 2023
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global Proton Exchange Membrane (PEM) Market Share by Application
- Figure 24. Global Proton Exchange Membrane (PEM) Sales Market Share by Application (2019-2024)
- Figure 25. Global Proton Exchange Membrane (PEM) Sales Market Share by Application in 2023
- Figure 26. Global Proton Exchange Membrane (PEM) Market Share by Application

(2019-2024)

Figure 27. Global Proton Exchange Membrane (PEM) Market Share by Application in 2023

Figure 28. Global Proton Exchange Membrane (PEM) Sales Growth Rate by Application (2019-2024)

Figure 29. Global Proton Exchange Membrane (PEM) Sales Market Share by Region (2019-2024)

Figure 30. North America Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 31. North America Proton Exchange Membrane (PEM) Sales Market Share by Country in 2023

Figure 32. U.S. Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 33. Canada Proton Exchange Membrane (PEM) Sales (Kilotons) and Growth Rate (2019-2024)

Figure 34. Mexico Proton Exchange Membrane (PEM) Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 36. Europe Proton Exchange Membrane (PEM) Sales Market Share by Country in 2023

Figure 37. Germany Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 38. France Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 39. U.K. Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 40. Italy Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 41. Russia Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 42. Asia Pacific Proton Exchange Membrane (PEM) Sales and Growth Rate (Kilotons)

Figure 43. Asia Pacific Proton Exchange Membrane (PEM) Sales Market Share by Region in 2023

Figure 44. China Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 45. Japan Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 46. South Korea Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 47. India Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 48. Southeast Asia Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 49. South America Proton Exchange Membrane (PEM) Sales and Growth Rate (Kilotons)

Figure 50. South America Proton Exchange Membrane (PEM) Sales Market Share by Country in 2023

Figure 51. Brazil Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 52. Argentina Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 53. Columbia Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 54. Middle East and Africa Proton Exchange Membrane (PEM) Sales and Growth Rate (Kilotons)

Figure 55. Middle East and Africa Proton Exchange Membrane (PEM) Sales Market Share by Region in 2023

Figure 56. Saudi Arabia Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 57. UAE Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 58. Egypt Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 59. Nigeria Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 60. South Africa Proton Exchange Membrane (PEM) Sales and Growth Rate (2019-2024) & (Kilotons)

Figure 61. Global Proton Exchange Membrane (PEM) Sales Forecast by Volume (2019-2030) & (Kilotons)

Figure 62. Global Proton Exchange Membrane (PEM) Market Size Forecast by Value (2019-2030) & (M USD)

Figure 63. Global Proton Exchange Membrane (PEM) Sales Market Share Forecast by Type (2025-2030)

Figure 64. Global Proton Exchange Membrane (PEM) Market Share Forecast by Type (2025-2030)

Figure 65. Global Proton Exchange Membrane (PEM) Sales Forecast by Application

(2025-2030)

Figure 66. Global Proton Exchange Membrane (PEM) Market Share Forecast by Application (2025-2030)

I would like to order

Product name: Global Proton Exchange Membrane (PEM) Market Research Report 2024(Status and Outlook)

Product link: <https://marketpublishers.com/r/G1F05B4CA5D9EN.html>

Price: US\$ 3,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G1F05B4CA5D9EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

