

Global Zeolite Molecular Sieve Membrane Market Growth 2023-2029

<https://marketpublishers.com/r/G90ED8BD8C55EN.html>

Date: June 2023

Pages: 90

Price: US\$ 3,660.00 (Single User License)

ID: G90ED8BD8C55EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Zeolite Molecular Sieve Membrane market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

Zeolite is a crystal with a regular pore structure, and it is resistant to high temperature, chemical and biological corrosion, and has high mechanical strength, so it has good development prospects in separation and catalysis. The preparation of zeolite into a micron-scale film The separation of molecules can be achieved, that is, the separation can be achieved according to the difference in molecular size. For the separation of mixtures with boiling points close to or with azeotropic points, traditional rectification, extraction and other technologies consume a lot of energy and are complicated to operate. However, since the pore size of zeolites is close to the size of most molecules, the principle of molecular sieving can be used to separate the above-mentioned For example, some researchers synthesized Silicalite-1 zeolite membrane by using template-free method, and applied it to the separation of p-xylene and o-xylene mixture with a molar ratio of 1:1. At 50 °C, the separation coefficient up to 50-60. Japan's Mitsui Engineering and Shipbuilding Co. Ltd. applied NaA-type zeolite membranes to the separation of alcohol/water mixtures and realized industrial production.

Zeolite molecular sieve membrane is a complete membrane synthesized by controlling molecular sieve on the surface of the carrier. It can not only use the catalytic performance of zeolite molecular sieve itself to carry out catalytic reactions, but also use the separation performance of the membrane to separate part of the products in the system from the reaction system. The original reaction balance is broken, so that the

reaction proceeds in a specific direction, thereby improving the conversion rate of raw materials, the selectivity of products and inhibiting the occurrence of negative reactions. At the same time, the characteristics of zeolite membrane can also be used to control the reaction process and reaction stage, so that the reaction that is not easy to realize conventionally can be carried out. In short, the membrane catalytic reaction realizes the integration of reaction and separation, which can not only simplify the process, save equipment investment, reduce operating energy consumption, etc. Coupling enables the reaction products to be continuously and selectively separated from the reaction system, breaks the equilibrium limitation, and greatly increases the conversion rate. At the same time, the severity of the reaction can be reduced to improve selectivity and catalyst life.

LPI (LP Information)' newest research report, the "Zeolite Molecular Sieve Membrane Industry Forecast" looks at past sales and reviews total world Zeolite Molecular Sieve Membrane sales in 2022, providing a comprehensive analysis by region and market sector of projected Zeolite Molecular Sieve Membrane sales for 2023 through 2029. With Zeolite Molecular Sieve Membrane sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Zeolite Molecular Sieve Membrane industry.

This Insight Report provides a comprehensive analysis of the global Zeolite Molecular Sieve Membrane landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Zeolite Molecular Sieve Membrane portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Zeolite Molecular Sieve Membrane market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Zeolite Molecular Sieve Membrane and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Zeolite Molecular Sieve Membrane.

This report presents a comprehensive overview, market shares, and growth opportunities of Zeolite Molecular Sieve Membrane market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

NaA Type

CHA Type

Others

Segmentation by application

Bioethanol Industry

Solvent Dehydration

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Mitsubishi Chemical (Mitsui E&S Group)

Hitachi Zosen Corporation

Kiriyama Glass Works

Fraunhofer IKTS

Jiangsu Nine Heaven Hi-Tech

Dalian HST Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Zeolite Molecular Sieve Membrane market?

What factors are driving Zeolite Molecular Sieve Membrane market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Zeolite Molecular Sieve Membrane market opportunities vary by end market size?

How does Zeolite Molecular Sieve Membrane break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Zeolite Molecular Sieve Membrane Annual Sales 2018-2029
 - 2.1.2 World Current & Future Analysis for Zeolite Molecular Sieve Membrane by Geographic Region, 2018, 2022 & 2029
 - 2.1.3 World Current & Future Analysis for Zeolite Molecular Sieve Membrane by Country/Region, 2018, 2022 & 2029
- 2.2 Zeolite Molecular Sieve Membrane Segment by Type
 - 2.2.1 NaA Type
 - 2.2.2 CHA Type
 - 2.2.3 Others
- 2.3 Zeolite Molecular Sieve Membrane Sales by Type
 - 2.3.1 Global Zeolite Molecular Sieve Membrane Sales Market Share by Type (2018-2023)
 - 2.3.2 Global Zeolite Molecular Sieve Membrane Revenue and Market Share by Type (2018-2023)
 - 2.3.3 Global Zeolite Molecular Sieve Membrane Sale Price by Type (2018-2023)
- 2.4 Zeolite Molecular Sieve Membrane Segment by Application
 - 2.4.1 Bioethanol Industry
 - 2.4.2 Solvent Dehydration
 - 2.4.3 Others
- 2.5 Zeolite Molecular Sieve Membrane Sales by Application
 - 2.5.1 Global Zeolite Molecular Sieve Membrane Sale Market Share by Application (2018-2023)
 - 2.5.2 Global Zeolite Molecular Sieve Membrane Revenue and Market Share by

Application (2018-2023)

2.5.3 Global Zeolite Molecular Sieve Membrane Sale Price by Application (2018-2023)

3 GLOBAL ZEOLITE MOLECULAR SIEVE MEMBRANE BY COMPANY

3.1 Global Zeolite Molecular Sieve Membrane Breakdown Data by Company

3.1.1 Global Zeolite Molecular Sieve Membrane Annual Sales by Company
(2018-2023)

3.1.2 Global Zeolite Molecular Sieve Membrane Sales Market Share by Company
(2018-2023)

3.2 Global Zeolite Molecular Sieve Membrane Annual Revenue by Company
(2018-2023)

3.2.1 Global Zeolite Molecular Sieve Membrane Revenue by Company (2018-2023)

3.2.2 Global Zeolite Molecular Sieve Membrane Revenue Market Share by Company
(2018-2023)

3.3 Global Zeolite Molecular Sieve Membrane Sale Price by Company

3.4 Key Manufacturers Zeolite Molecular Sieve Membrane Producing Area Distribution,
Sales Area, Product Type

3.4.1 Key Manufacturers Zeolite Molecular Sieve Membrane Product Location
Distribution

3.4.2 Players Zeolite Molecular Sieve Membrane Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR ZEOLITE MOLECULAR SIEVE MEMBRANE BY GEOGRAPHIC REGION

4.1 World Historic Zeolite Molecular Sieve Membrane Market Size by Geographic
Region (2018-2023)

4.1.1 Global Zeolite Molecular Sieve Membrane Annual Sales by Geographic Region
(2018-2023)

4.1.2 Global Zeolite Molecular Sieve Membrane Annual Revenue by Geographic
Region (2018-2023)

4.2 World Historic Zeolite Molecular Sieve Membrane Market Size by Country/Region
(2018-2023)

4.2.1 Global Zeolite Molecular Sieve Membrane Annual Sales by Country/Region

(2018-2023)

4.2.2 Global Zeolite Molecular Sieve Membrane Annual Revenue by Country/Region

(2018-2023)

4.3 Americas Zeolite Molecular Sieve Membrane Sales Growth

4.4 APAC Zeolite Molecular Sieve Membrane Sales Growth

4.5 Europe Zeolite Molecular Sieve Membrane Sales Growth

4.6 Middle East & Africa Zeolite Molecular Sieve Membrane Sales Growth

5 AMERICAS

5.1 Americas Zeolite Molecular Sieve Membrane Sales by Country

5.1.1 Americas Zeolite Molecular Sieve Membrane Sales by Country (2018-2023)

5.1.2 Americas Zeolite Molecular Sieve Membrane Revenue by Country (2018-2023)

5.2 Americas Zeolite Molecular Sieve Membrane Sales by Type

5.3 Americas Zeolite Molecular Sieve Membrane Sales by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Zeolite Molecular Sieve Membrane Sales by Region

6.1.1 APAC Zeolite Molecular Sieve Membrane Sales by Region (2018-2023)

6.1.2 APAC Zeolite Molecular Sieve Membrane Revenue by Region (2018-2023)

6.2 APAC Zeolite Molecular Sieve Membrane Sales by Type

6.3 APAC Zeolite Molecular Sieve Membrane Sales by Application

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Zeolite Molecular Sieve Membrane by Country

7.1.1 Europe Zeolite Molecular Sieve Membrane Sales by Country (2018-2023)

- 7.1.2 Europe Zeolite Molecular Sieve Membrane Revenue by Country (2018-2023)
- 7.2 Europe Zeolite Molecular Sieve Membrane Sales by Type
- 7.3 Europe Zeolite Molecular Sieve Membrane Sales by Application
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Zeolite Molecular Sieve Membrane by Country
 - 8.1.1 Middle East & Africa Zeolite Molecular Sieve Membrane Sales by Country (2018-2023)
 - 8.1.2 Middle East & Africa Zeolite Molecular Sieve Membrane Revenue by Country (2018-2023)
- 8.2 Middle East & Africa Zeolite Molecular Sieve Membrane Sales by Type
- 8.3 Middle East & Africa Zeolite Molecular Sieve Membrane Sales by Application
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Zeolite Molecular Sieve Membrane
- 10.3 Manufacturing Process Analysis of Zeolite Molecular Sieve Membrane
- 10.4 Industry Chain Structure of Zeolite Molecular Sieve Membrane

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Zeolite Molecular Sieve Membrane Distributors

11.3 Zeolite Molecular Sieve Membrane Customer

12 WORLD FORECAST REVIEW FOR ZEOLITE MOLECULAR SIEVE MEMBRANE BY GEOGRAPHIC REGION

12.1 Global Zeolite Molecular Sieve Membrane Market Size Forecast by Region

12.1.1 Global Zeolite Molecular Sieve Membrane Forecast by Region (2024-2029)

12.1.2 Global Zeolite Molecular Sieve Membrane Annual Revenue Forecast by Region (2024-2029)

12.2 Americas Forecast by Country

12.3 APAC Forecast by Region

12.4 Europe Forecast by Country

12.5 Middle East & Africa Forecast by Country

12.6 Global Zeolite Molecular Sieve Membrane Forecast by Type

12.7 Global Zeolite Molecular Sieve Membrane Forecast by Application

13 KEY PLAYERS ANALYSIS

13.1 Mitsubishi Chemical (Mitsui E&S Group)

13.1.1 Mitsubishi Chemical (Mitsui E&S Group) Company Information

13.1.2 Mitsubishi Chemical (Mitsui E&S Group) Zeolite Molecular Sieve Membrane Product Portfolios and Specifications

13.1.3 Mitsubishi Chemical (Mitsui E&S Group) Zeolite Molecular Sieve Membrane Sales, Revenue, Price and Gross Margin (2018-2023)

13.1.4 Mitsubishi Chemical (Mitsui E&S Group) Main Business Overview

13.1.5 Mitsubishi Chemical (Mitsui E&S Group) Latest Developments

13.2 Hitachi Zosen Corporation

13.2.1 Hitachi Zosen Corporation Company Information

13.2.2 Hitachi Zosen Corporation Zeolite Molecular Sieve Membrane Product Portfolios and Specifications

13.2.3 Hitachi Zosen Corporation Zeolite Molecular Sieve Membrane Sales, Revenue, Price and Gross Margin (2018-2023)

13.2.4 Hitachi Zosen Corporation Main Business Overview

13.2.5 Hitachi Zosen Corporation Latest Developments

13.3 Kiriya Glass Works

- 13.3.1 Kiriya Glass Works Company Information
- 13.3.2 Kiriya Glass Works Zeolite Molecular Sieve Membrane Product Portfolios and Specifications
- 13.3.3 Kiriya Glass Works Zeolite Molecular Sieve Membrane Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.3.4 Kiriya Glass Works Main Business Overview
- 13.3.5 Kiriya Glass Works Latest Developments
- 13.4 Fraunhofer IKTS
 - 13.4.1 Fraunhofer IKTS Company Information
 - 13.4.2 Fraunhofer IKTS Zeolite Molecular Sieve Membrane Product Portfolios and Specifications
 - 13.4.3 Fraunhofer IKTS Zeolite Molecular Sieve Membrane Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.4.4 Fraunhofer IKTS Main Business Overview
 - 13.4.5 Fraunhofer IKTS Latest Developments
- 13.5 Jiangsu Nine Heaven Hi-Tech
 - 13.5.1 Jiangsu Nine Heaven Hi-Tech Company Information
 - 13.5.2 Jiangsu Nine Heaven Hi-Tech Zeolite Molecular Sieve Membrane Product Portfolios and Specifications
 - 13.5.3 Jiangsu Nine Heaven Hi-Tech Zeolite Molecular Sieve Membrane Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.5.4 Jiangsu Nine Heaven Hi-Tech Main Business Overview
 - 13.5.5 Jiangsu Nine Heaven Hi-Tech Latest Developments
- 13.6 Dalian HST Technology
 - 13.6.1 Dalian HST Technology Company Information
 - 13.6.2 Dalian HST Technology Zeolite Molecular Sieve Membrane Product Portfolios and Specifications
 - 13.6.3 Dalian HST Technology Zeolite Molecular Sieve Membrane Sales, Revenue, Price and Gross Margin (2018-2023)
 - 13.6.4 Dalian HST Technology Main Business Overview
 - 13.6.5 Dalian HST Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Zeolite Molecular Sieve Membrane Annual Sales CAGR by Geographic Region (2018, 2022 & 2029) & (\$ millions)

Table 2. Zeolite Molecular Sieve Membrane Annual Sales CAGR by Country/Region (2018, 2022 & 2029) & (\$ millions)

Table 3. Major Players of NaA Type

Table 4. Major Players of CHA Type

Table 5. Major Players of Others

Table 6. Global Zeolite Molecular Sieve Membrane Sales by Type (2018-2023) & (Tons)

Table 7. Global Zeolite Molecular Sieve Membrane Sales Market Share by Type (2018-2023)

Table 8. Global Zeolite Molecular Sieve Membrane Revenue by Type (2018-2023) & (\$ million)

Table 9. Global Zeolite Molecular Sieve Membrane Revenue Market Share by Type (2018-2023)

Table 10. Global Zeolite Molecular Sieve Membrane Sale Price by Type (2018-2023) & (US\$/Ton)

Table 11. Global Zeolite Molecular Sieve Membrane Sales by Application (2018-2023) & (Tons)

Table 12. Global Zeolite Molecular Sieve Membrane Sales Market Share by Application (2018-2023)

Table 13. Global Zeolite Molecular Sieve Membrane Revenue by Application (2018-2023)

Table 14. Global Zeolite Molecular Sieve Membrane Revenue Market Share by Application (2018-2023)

Table 15. Global Zeolite Molecular Sieve Membrane Sale Price by Application (2018-2023) & (US\$/Ton)

Table 16. Global Zeolite Molecular Sieve Membrane Sales by Company (2018-2023) & (Tons)

Table 17. Global Zeolite Molecular Sieve Membrane Sales Market Share by Company (2018-2023)

Table 18. Global Zeolite Molecular Sieve Membrane Revenue by Company (2018-2023) (\$ Millions)

Table 19. Global Zeolite Molecular Sieve Membrane Revenue Market Share by Company (2018-2023)

Table 20. Global Zeolite Molecular Sieve Membrane Sale Price by Company

(2018-2023) & (US\$/Ton)

Table 21. Key Manufacturers Zeolite Molecular Sieve Membrane Producing Area Distribution and Sales Area

Table 22. Players Zeolite Molecular Sieve Membrane Products Offered

Table 23. Zeolite Molecular Sieve Membrane Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)

Table 24. New Products and Potential Entrants

Table 25. Mergers & Acquisitions, Expansion

Table 26. Global Zeolite Molecular Sieve Membrane Sales by Geographic Region (2018-2023) & (Tons)

Table 27. Global Zeolite Molecular Sieve Membrane Sales Market Share Geographic Region (2018-2023)

Table 28. Global Zeolite Molecular Sieve Membrane Revenue by Geographic Region (2018-2023) & (\$ millions)

Table 29. Global Zeolite Molecular Sieve Membrane Revenue Market Share by Geographic Region (2018-2023)

Table 30. Global Zeolite Molecular Sieve Membrane Sales by Country/Region (2018-2023) & (Tons)

Table 31. Global Zeolite Molecular Sieve Membrane Sales Market Share by Country/Region (2018-2023)

Table 32. Global Zeolite Molecular Sieve Membrane Revenue by Country/Region (2018-2023) & (\$ millions)

Table 33. Global Zeolite Molecular Sieve Membrane Revenue Market Share by Country/Region (2018-2023)

Table 34. Americas Zeolite Molecular Sieve Membrane Sales by Country (2018-2023) & (Tons)

Table 35. Americas Zeolite Molecular Sieve Membrane Sales Market Share by Country (2018-2023)

Table 36. Americas Zeolite Molecular Sieve Membrane Revenue by Country (2018-2023) & (\$ Millions)

Table 37. Americas Zeolite Molecular Sieve Membrane Revenue Market Share by Country (2018-2023)

Table 38. Americas Zeolite Molecular Sieve Membrane Sales by Type (2018-2023) & (Tons)

Table 39. Americas Zeolite Molecular Sieve Membrane Sales by Application (2018-2023) & (Tons)

Table 40. APAC Zeolite Molecular Sieve Membrane Sales by Region (2018-2023) & (Tons)

Table 41. APAC Zeolite Molecular Sieve Membrane Sales Market Share by Region

(2018-2023)

Table 42. APAC Zeolite Molecular Sieve Membrane Revenue by Region (2018-2023) & (\$ Millions)

Table 43. APAC Zeolite Molecular Sieve Membrane Revenue Market Share by Region (2018-2023)

Table 44. APAC Zeolite Molecular Sieve Membrane Sales by Type (2018-2023) & (Tons)

Table 45. APAC Zeolite Molecular Sieve Membrane Sales by Application (2018-2023) & (Tons)

Table 46. Europe Zeolite Molecular Sieve Membrane Sales by Country (2018-2023) & (Tons)

Table 47. Europe Zeolite Molecular Sieve Membrane Sales Market Share by Country (2018-2023)

Table 48. Europe Zeolite Molecular Sieve Membrane Revenue by Country (2018-2023) & (\$ Millions)

Table 49. Europe Zeolite Molecular Sieve Membrane Revenue Market Share by Country (2018-2023)

Table 50. Europe Zeolite Molecular Sieve Membrane Sales by Type (2018-2023) & (Tons)

Table 51. Europe Zeolite Molecular Sieve Membrane Sales by Application (2018-2023) & (Tons)

Table 52. Middle East & Africa Zeolite Molecular Sieve Membrane Sales by Country (2018-2023) & (Tons)

Table 53. Middle East & Africa Zeolite Molecular Sieve Membrane Sales Market Share by Country (2018-2023)

Table 54. Middle East & Africa Zeolite Molecular Sieve Membrane Revenue by Country (2018-2023) & (\$ Millions)

Table 55. Middle East & Africa Zeolite Molecular Sieve Membrane Revenue Market Share by Country (2018-2023)

Table 56. Middle East & Africa Zeolite Molecular Sieve Membrane Sales by Type (2018-2023) & (Tons)

Table 57. Middle East & Africa Zeolite Molecular Sieve Membrane Sales by Application (2018-2023) & (Tons)

Table 58. Key Market Drivers & Growth Opportunities of Zeolite Molecular Sieve Membrane

Table 59. Key Market Challenges & Risks of Zeolite Molecular Sieve Membrane

Table 60. Key Industry Trends of Zeolite Molecular Sieve Membrane

Table 61. Zeolite Molecular Sieve Membrane Raw Material

Table 62. Key Suppliers of Raw Materials

Table 63. Zeolite Molecular Sieve Membrane Distributors List
Table 64. Zeolite Molecular Sieve Membrane Customer List
Table 65. Global Zeolite Molecular Sieve Membrane Sales Forecast by Region (2024-2029) & (Tons)
Table 66. Global Zeolite Molecular Sieve Membrane Revenue Forecast by Region (2024-2029) & (\$ millions)
Table 67. Americas Zeolite Molecular Sieve Membrane Sales Forecast by Country (2024-2029) & (Tons)
Table 68. Americas Zeolite Molecular Sieve Membrane Revenue Forecast by Country (2024-2029) & (\$ millions)
Table 69. APAC Zeolite Molecular Sieve Membrane Sales Forecast by Region (2024-2029) & (Tons)
Table 70. APAC Zeolite Molecular Sieve Membrane Revenue Forecast by Region (2024-2029) & (\$ millions)
Table 71. Europe Zeolite Molecular Sieve Membrane Sales Forecast by Country (2024-2029) & (Tons)
Table 72. Europe Zeolite Molecular Sieve Membrane Revenue Forecast by Country (2024-2029) & (\$ millions)
Table 73. Middle East & Africa Zeolite Molecular Sieve Membrane Sales Forecast by Country (2024-2029) & (Tons)
Table 74. Middle East & Africa Zeolite Molecular Sieve Membrane Revenue Forecast by Country (2024-2029) & (\$ millions)
Table 75. Global Zeolite Molecular Sieve Membrane Sales Forecast by Type (2024-2029) & (Tons)
Table 76. Global Zeolite Molecular Sieve Membrane Revenue Forecast by Type (2024-2029) & (\$ Millions)
Table 77. Global Zeolite Molecular Sieve Membrane Sales Forecast by Application (2024-2029) & (Tons)
Table 78. Global Zeolite Molecular Sieve Membrane Revenue Forecast by Application (2024-2029) & (\$ Millions)
Table 79. Mitsubishi Chemical (Mitsui E&S Group) Basic Information, Zeolite Molecular Sieve Membrane Manufacturing Base, Sales Area and Its Competitors
Table 80. Mitsubishi Chemical (Mitsui E&S Group) Zeolite Molecular Sieve Membrane Product Portfolios and Specifications
Table 81. Mitsubishi Chemical (Mitsui E&S Group) Zeolite Molecular Sieve Membrane Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)
Table 82. Mitsubishi Chemical (Mitsui E&S Group) Main Business
Table 83. Mitsubishi Chemical (Mitsui E&S Group) Latest Developments
Table 84. Hitachi Zosen Corporation Basic Information, Zeolite Molecular Sieve

Membrane Manufacturing Base, Sales Area and Its Competitors

Table 85. Hitachi Zosen Corporation Zeolite Molecular Sieve Membrane Product Portfolios and Specifications

Table 86. Hitachi Zosen Corporation Zeolite Molecular Sieve Membrane Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 87. Hitachi Zosen Corporation Main Business

Table 88. Hitachi Zosen Corporation Latest Developments

Table 89. Kiriya Glass Works Basic Information, Zeolite Molecular Sieve Membrane Manufacturing Base, Sales Area and Its Competitors

Table 90. Kiriya Glass Works Zeolite Molecular Sieve Membrane Product Portfolios and Specifications

Table 91. Kiriya Glass Works Zeolite Molecular Sieve Membrane Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 92. Kiriya Glass Works Main Business

Table 93. Kiriya Glass Works Latest Developments

Table 94. Fraunhofer IKTS Basic Information, Zeolite Molecular Sieve Membrane Manufacturing Base, Sales Area and Its Competitors

Table 95. Fraunhofer IKTS Zeolite Molecular Sieve Membrane Product Portfolios and Specifications

Table 96. Fraunhofer IKTS Zeolite Molecular Sieve Membrane Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 97. Fraunhofer IKTS Main Business

Table 98. Fraunhofer IKTS Latest Developments

Table 99. Jiangsu Nine Heaven Hi-Tech Basic Information, Zeolite Molecular Sieve Membrane Manufacturing Base, Sales Area and Its Competitors

Table 100. Jiangsu Nine Heaven Hi-Tech Zeolite Molecular Sieve Membrane Product Portfolios and Specifications

Table 101. Jiangsu Nine Heaven Hi-Tech Zeolite Molecular Sieve Membrane Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 102. Jiangsu Nine Heaven Hi-Tech Main Business

Table 103. Jiangsu Nine Heaven Hi-Tech Latest Developments

Table 104. Dalian HST Technology Basic Information, Zeolite Molecular Sieve Membrane Manufacturing Base, Sales Area and Its Competitors

Table 105. Dalian HST Technology Zeolite Molecular Sieve Membrane Product Portfolios and Specifications

Table 106. Dalian HST Technology Zeolite Molecular Sieve Membrane Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 107. Dalian HST Technology Main Business

Table 108. Dalian HST Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Zeolite Molecular Sieve Membrane
- Figure 2. Zeolite Molecular Sieve Membrane Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Zeolite Molecular Sieve Membrane Sales Growth Rate 2018-2029 (Tons)
- Figure 7. Global Zeolite Molecular Sieve Membrane Revenue Growth Rate 2018-2029 (\$ Millions)
- Figure 8. Zeolite Molecular Sieve Membrane Sales by Region (2018, 2022 & 2029) & (\$ Millions)
- Figure 9. Product Picture of NaA Type
- Figure 10. Product Picture of CHA Type
- Figure 11. Product Picture of Others
- Figure 12. Global Zeolite Molecular Sieve Membrane Sales Market Share by Type in 2022
- Figure 13. Global Zeolite Molecular Sieve Membrane Revenue Market Share by Type (2018-2023)
- Figure 14. Zeolite Molecular Sieve Membrane Consumed in Bioethanol Industry
- Figure 15. Global Zeolite Molecular Sieve Membrane Market: Bioethanol Industry (2018-2023) & (Tons)
- Figure 16. Zeolite Molecular Sieve Membrane Consumed in Solvent Dehydration
- Figure 17. Global Zeolite Molecular Sieve Membrane Market: Solvent Dehydration (2018-2023) & (Tons)
- Figure 18. Zeolite Molecular Sieve Membrane Consumed in Others
- Figure 19. Global Zeolite Molecular Sieve Membrane Market: Others (2018-2023) & (Tons)
- Figure 20. Global Zeolite Molecular Sieve Membrane Sales Market Share by Application (2022)
- Figure 21. Global Zeolite Molecular Sieve Membrane Revenue Market Share by Application in 2022
- Figure 22. Zeolite Molecular Sieve Membrane Sales Market by Company in 2022 (Tons)
- Figure 23. Global Zeolite Molecular Sieve Membrane Sales Market Share by Company in 2022
- Figure 24. Zeolite Molecular Sieve Membrane Revenue Market by Company in 2022 (\$

Million)

Figure 25. Global Zeolite Molecular Sieve Membrane Revenue Market Share by Company in 2022

Figure 26. Global Zeolite Molecular Sieve Membrane Sales Market Share by Geographic Region (2018-2023)

Figure 27. Global Zeolite Molecular Sieve Membrane Revenue Market Share by Geographic Region in 2022

Figure 28. Americas Zeolite Molecular Sieve Membrane Sales 2018-2023 (Tons)

Figure 29. Americas Zeolite Molecular Sieve Membrane Revenue 2018-2023 (\$ Millions)

Figure 30. APAC Zeolite Molecular Sieve Membrane Sales 2018-2023 (Tons)

Figure 31. APAC Zeolite Molecular Sieve Membrane Revenue 2018-2023 (\$ Millions)

Figure 32. Europe Zeolite Molecular Sieve Membrane Sales 2018-2023 (Tons)

Figure 33. Europe Zeolite Molecular Sieve Membrane Revenue 2018-2023 (\$ Millions)

Figure 34. Middle East & Africa Zeolite Molecular Sieve Membrane Sales 2018-2023 (Tons)

Figure 35. Middle East & Africa Zeolite Molecular Sieve Membrane Revenue 2018-2023 (\$ Millions)

Figure 36. Americas Zeolite Molecular Sieve Membrane Sales Market Share by Country in 2022

Figure 37. Americas Zeolite Molecular Sieve Membrane Revenue Market Share by Country in 2022

Figure 38. Americas Zeolite Molecular Sieve Membrane Sales Market Share by Type (2018-2023)

Figure 39. Americas Zeolite Molecular Sieve Membrane Sales Market Share by Application (2018-2023)

Figure 40. United States Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 41. Canada Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 42. Mexico Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 43. Brazil Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 44. APAC Zeolite Molecular Sieve Membrane Sales Market Share by Region in 2022

Figure 45. APAC Zeolite Molecular Sieve Membrane Revenue Market Share by Regions in 2022

Figure 46. APAC Zeolite Molecular Sieve Membrane Sales Market Share by Type

(2018-2023)

Figure 47. APAC Zeolite Molecular Sieve Membrane Sales Market Share by Application (2018-2023)

Figure 48. China Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 49. Japan Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 50. South Korea Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 51. Southeast Asia Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 52. India Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 53. Australia Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 54. China Taiwan Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 55. Europe Zeolite Molecular Sieve Membrane Sales Market Share by Country in 2022

Figure 56. Europe Zeolite Molecular Sieve Membrane Revenue Market Share by Country in 2022

Figure 57. Europe Zeolite Molecular Sieve Membrane Sales Market Share by Type (2018-2023)

Figure 58. Europe Zeolite Molecular Sieve Membrane Sales Market Share by Application (2018-2023)

Figure 59. Germany Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 60. France Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 61. UK Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 62. Italy Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 63. Russia Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 64. Middle East & Africa Zeolite Molecular Sieve Membrane Sales Market Share by Country in 2022

Figure 65. Middle East & Africa Zeolite Molecular Sieve Membrane Revenue Market Share by Country in 2022

Figure 66. Middle East & Africa Zeolite Molecular Sieve Membrane Sales Market Share by Type (2018-2023)

Figure 67. Middle East & Africa Zeolite Molecular Sieve Membrane Sales Market Share by Application (2018-2023)

Figure 68. Egypt Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 69. South Africa Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 70. Israel Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 71. Turkey Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 72. GCC Country Zeolite Molecular Sieve Membrane Revenue Growth 2018-2023 (\$ Millions)

Figure 73. Manufacturing Cost Structure Analysis of Zeolite Molecular Sieve Membrane in 2022

Figure 74. Manufacturing Process Analysis of Zeolite Molecular Sieve Membrane

Figure 75. Industry Chain Structure of Zeolite Molecular Sieve Membrane

Figure 76. Channels of Distribution

Figure 77. Global Zeolite Molecular Sieve Membrane Sales Market Forecast by Region (2024-2029)

Figure 78. Global Zeolite Molecular Sieve Membrane Revenue Market Share Forecast by Region (2024-2029)

Figure 79. Global Zeolite Molecular Sieve Membrane Sales Market Share Forecast by Type (2024-2029)

Figure 80. Global Zeolite Molecular Sieve Membrane Revenue Market Share Forecast by Type (2024-2029)

Figure 81. Global Zeolite Molecular Sieve Membrane Sales Market Share Forecast by Application (2024-2029)

Figure 82. Global Zeolite Molecular Sieve Membrane Revenue Market Share Forecast by Application (2024-2029)

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