

# Global Zeolite Molecular Sieve Membrane Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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## Abstracts

According to our (Global Info Research) latest study, the global Zeolite Molecular Sieve Membrane market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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.

This report is a detailed and comprehensive analysis for global Zeolite Molecular Sieve Membrane market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

#### Key Features:

Global Zeolite Molecular Sieve Membrane market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Zeolite Molecular Sieve Membrane market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Zeolite Molecular Sieve Membrane market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Zeolite Molecular Sieve Membrane market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2018-2023

#### The Primary Objectives in This Report Are:

*Global Zeolite Molecular Sieve Membrane Market 2023 by Manufacturers, Regions, Type and Application, Forecast...*

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Zeolite Molecular Sieve Membrane

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Zeolite Molecular Sieve 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 Mitsubishi Chemical (Mitsui E&S Group), Hitachi Zosen Corporation, Kiriya Glass Works, Fraunhofer IKTS and Jiangsu Nine Heaven Hi-Tech and etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

### Market Segmentation

Zeolite Molecular Sieve Membrane market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

NaA Type

CHA Type

Others

#### Market segment by Application

Bioethanol Industry

Solvent Dehydration

Others

Major players covered

Mitsubishi Chemical (Mitsui E&S Group)

Hitachi Zosen Corporation

Kiryama Glass Works

Fraunhofer IKTS

Jiangsu Nine Heaven Hi-Tech

Dalian HST Technology

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Zeolite Molecular Sieve Membrane product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Zeolite Molecular Sieve Membrane, with price, sales, revenue and global market share of Zeolite Molecular Sieve Membrane from 2018 to 2023.

Chapter 3, the Zeolite Molecular Sieve Membrane competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Zeolite Molecular Sieve Membrane breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022. and Zeolite Molecular Sieve Membrane market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Zeolite Molecular Sieve Membrane.

Chapter 14 and 15, to describe Zeolite Molecular Sieve Membrane sales channel, distributors, customers, research findings and conclusion.

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