

Global Zeolite Molecular Sieve Membrane Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Zeolite Molecular Sieve Membrane market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

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.

This report studies the global Zeolite Molecular Sieve Membrane production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Zeolite Molecular Sieve Membrane, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Zeolite Molecular Sieve Membrane that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Zeolite Molecular Sieve Membrane total production and demand, 2018-2029, (Tons)

Global Zeolite Molecular Sieve Membrane total production value, 2018-2029, (USD Million)

Global Zeolite Molecular Sieve Membrane production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Zeolite Molecular Sieve Membrane consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Zeolite Molecular Sieve Membrane domestic production, consumption, key domestic manufacturers and share

Global Zeolite Molecular Sieve Membrane production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Zeolite Molecular Sieve Membrane production by Type, production, value,

CAGR, 2018-2029, (USD Million) & (Tons)

Global Zeolite Molecular Sieve Membrane production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports 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, Kiriyama Glass Works, Fraunhofer IKTS, Jiangsu Nine Heaven Hi-Tech and Dalian HST Technology, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Zeolite Molecular Sieve Membrane market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Zeolite Molecular Sieve Membrane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Zeolite Molecular Sieve Membrane Market, Segmentation by Type

NaA Type

CHA Type

Others

Global Zeolite Molecular Sieve Membrane Market, Segmentation by Application

Bioethanol Industry

Solvent Dehydration

Others

Companies Profiled:

Mitsubishi Chemical (Mitsui E&S Group)

Hitachi Zosen Corporation

Kiriyama Glass Works

Fraunhofer IKTS

Jiangsu Nine Heaven Hi-Tech

Dalian HST Technology

Key Questions Answered

1. How big is the global Zeolite Molecular Sieve Membrane market?
2. What is the demand of the global Zeolite Molecular Sieve Membrane market?
3. What is the year over year growth of the global Zeolite Molecular Sieve Membrane market?
4. What is the production and production value of the global Zeolite Molecular Sieve Membrane market?
5. Who are the key producers in the global Zeolite Molecular Sieve Membrane market?
6. What are the growth factors driving the market demand?

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