

# Molecular Sieves Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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# **Abstracts**

#### Market Overview:

The global molecular sieves market size reached US\$ 4.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 5.2 Billion by 2028, exhibiting a growth rate (CAGR) of 4.6% during 2023-2028.

Molecular sieves are various materials with small pores of uniform structure and size. They are produced in powdered/beaded/pelleted form by the dehydration of synthetic or naturally occurring materials like zeolite, silica, clay, etc. They adsorb gas or liquid molecules, which are smaller than the effective diameter of the pores while excluding molecules that are larger than the openings. Known for their drying capabilities, crushing strength, contamination resistant property, and a high number of utilization cycles that offer a prolonged product life, molecular sieves find widespread application across numerous industries, including detergent, water treatment and oil and gas.

Molecular sieves are primarily utilized across industries for the separation of permanent gases (hydrogen, oxygen, nitrogen, carbon monoxide, and inert gases) and low molecular weight linear and branched-chain hydrocarbons. This represents one of the key factors driving the market growth. These sieves also find extensive application as a catalyst in the petroleum and petrochemical industries. Apart from this, increasing environmental consciousness, coupled with the implementation of stringent governmental regulations favoring the use of molecular sieves as they are environment-friendly, is also contributing to the market growth. Furthermore, the projected applications of biocompatible molecular sieves in the healthcare sector, including use for controlled drug release in the human body, are expected to act as another major



growth-inducing factor. Besides this, the rising water treatment activities for the purification of water and gas streams, along with the removal of nuclear waste with the use of molecular sieves, are anticipated to further increase the product demand across the globe.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global molecular sieves market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, material type, application, shape, size and end-use industry.

# Breakup by Type:

Type 3A

Type 4A

Type 5A

Type 13X

Type Y

Pentacil

Others

Breakup by Material Type:

Carbon

Clay

Porous Glass

Silica Gel

Zeolite

Others

Breakup by Application:

Catalyst

Adsorbent

**Desiccants** 



Breakup by Shape:
Pelleted Beaded Powdered
Breakup by Size:
Microporous Mesoporous Macroporous
Breakup by End-Use Industry:
Oil and Gas Industry Agricultural Industry Chemical Industry Pharmaceutical Industry Water Treatment Industry Construction Industry Others
Breakup by Region:
North America
United States Canada
Asia Pacific
China Japan

India

South Korea



Australia



What is the breakup of the market based on the shape?

What is the breakup of the market based on the size?

What is the breakup of the market based on the end-use industry?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global molecular sieves market and who are the key players?

What is the degree of competition in the industry?



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