

Global Oxygen Molecular Sieve Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GB133824770EEN.html>

Date: August 2026

Pages: 120

Price: US\$ 4,480.00 (Single User License)

ID: GB133824770EEN

Abstracts

The global Oxygen Molecular Sieve market size is expected to reach \$ 196 million by 2032, rising at a market growth of 4.1% CAGR during the forecast period (2026-2032).

Oxygen molecular sieves are selective adsorption materials used in oxygen generation processes such as Pressure Swing Adsorption (PSA) and Vacuum Pressure Swing Adsorption (VPSA). Typically based on lithium, sodium, or calcium zeolites, they leverage their strong nitrogen adsorption capacity and relatively weak oxygen adsorption to separate oxygen from nitrogen in the air; they are widely used in medical, industrial, and portable oxygen generation equipment.

Upstream components include aluminosilicate raw materials, caustic soda, lithium salts, sodium salts, binders, forming aids, and adsorbent production equipment; downstream applications span medical oxygen concentrators, industrial oxygen generation, wastewater treatment, metallurgy, the chemical industry, and aquaculture.

The global market for oxygen molecular sieves has a unit price of \$16,000 per ton and an annual sales volume of approximately 9,000?13,000 tons; global annual production capacity is around 120,000?160,000 tons, and the industry profit margin is 28%.

The global market is evolving toward high adsorption capacity, low energy consumption, long service life, and miniaturization. Driven by rising demand in healthcare, home oxygen therapy, on-site industrial oxygen generation, and high-altitude oxygen supply, the application of oxygen molecular sieves in medical oxygen concentrators and PSA/VPSA systems will continue to expand. Lithium-type molecular sieves are expected to increase their share of the mid-to-high-end market due to their high oxygen generation efficiency and compact equipment size; however, fluctuations in lithium

resource prices will also drive the development of technologies involving reduced lithium content, composite ion exchange, and domestic substitution. Future competition among enterprises will focus on nitrogen-oxygen selectivity, resistance to attrition (anti-dusting strength), cyclic stability, low dew-point adaptability, and cost control through economies of scale.

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

This report is a detailed and comprehensive analysis of the world market for Oxygen Molecular Sieve and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Oxygen Molecular Sieve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Oxygen Molecular Sieve total production and demand, 2021-2032, (Tons)

Global Oxygen Molecular Sieve total production value, 2021-2032, (USD Million)

Global Oxygen Molecular Sieve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Oxygen Molecular Sieve consumption by region & country, CAGR, 2021-2032 & (Tons)

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

Global Oxygen Molecular Sieve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Oxygen Molecular Sieve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Oxygen Molecular Sieve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Oxygen Molecular Sieve 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 Honeywell, Arkema, Zeochem, Tosoh, W.R. Grace, CWK Chemiewerk Bad K[?]stritz, Axens, Luoyang Jalon Micro-nano New Materials, Shanghai Hengye Microcrystalline Materials, China Catalyst Holding, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Oxygen Molecular Sieve 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Oxygen Molecular Sieve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Oxygen Molecular Sieve Market, Segmentation by Type:

3A

4A

5A

13X

Global Oxygen Molecular Sieve Market, Segmentation by Exchange Cation:

Lithium-based Oxygen Molecular Sieve

Sodium-based Oxygen Molecular Sieve

Calcium-based Oxygen Molecular Sieve

Lithium-Sodium Composite Molecular Sieve

Lithium-Calcium Composite Molecular Sieve

Global Oxygen Molecular Sieve Market, Segmentation by Product Form:

Bead Oxygen Molecular Sieve

Pellet Oxygen Molecular Sieve

Granular Oxygen Molecular Sieve

Powder Oxygen Molecular Sieve

Global Oxygen Molecular Sieve Market, Segmentation by Application:

Medical

Industrial

Others

Companies Profiled:

Honeywell

Arkema

Zeochem

Tosoh

W.R. Grace

CWK Chemiewerk Bad K[?]stritz

Axens

Luoyang Jalon Micro-nano New Materials

Shanghai Hengye Microcrystalline Materials

China Catalyst Holding

Dalian Haixin Chemical

Zhengzhou SnowMountain Industrial

Key Questions Answered:

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

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