

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

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Abstracts

The global Molecular Sieve for Oxygen Purification 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).

Molecular sieves for oxygen purification are selective adsorption materials used to remove moisture, carbon dioxide, nitrogen oxides, light hydrocarbons, and trace impurities from oxygen or oxygen-enriched gas streams. Common types include 3A, 4A, 5A, 13X, and modified molecular sieves; they are primarily used to enhance oxygen purity, ensure dew point stability, and improve the safety of downstream processes.

The upstream sector comprises raw materials (silicon and aluminum sources), caustic soda, binders, forming aids, modifying salts, and adsorbent production equipment. Downstream applications span industrial gases, medical oxygen supply, electronic specialty gases, metallurgy, the chemical industry, and environmental protection.

The global market for oxygen purification molecular sieves features a unit price of \$16,000 per ton, with annual sales volume ranging from 9,000 to 13,000 tons and a total global production capacity of approximately 120,000 to 160,000 tons; the industry profit margin stands at 28%.

The global market is evolving toward higher purification efficiency, lower dew points, longer service life, reduced attrition (dusting), and greater product specialization. Demand for these molecular sieves is projected to grow steadily as requirements for gas purity rise across sectors such as electronics and semiconductors, medical oxygen, industrial oxygen production, hydrogen energy infrastructure, and high-end chemicals. Varying control requirements for moisture, carbon dioxide, hydrocarbons, and acidic

impurities across different application scenarios are driving the development of composite bed configurations, modified molecular sieves, and products with low regeneration energy consumption. Future competition will focus on adsorption capacity, selectivity, attrition resistance, cyclic stability, ultra-low dew point capabilities, and domestic substitution.

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

This report is a detailed and comprehensive analysis of the world market for Molecular Sieve for Oxygen Purification 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 Molecular Sieve for Oxygen Purification that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Molecular Sieve for Oxygen Purification 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^ostritz, 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 Molecular Sieve for Oxygen Purification 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 Molecular Sieve for Oxygen Purification Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Molecular Sieve for Oxygen Purification Market, Segmentation by Type:

3A

4A

5A

13X

Others

Global Molecular Sieve for Oxygen Purification 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 Molecular Sieve for Oxygen Purification Market, Segmentation by Product Form:

Bead Oxygen Molecular Sieve

Pellet Oxygen Molecular Sieve

Granular Oxygen Molecular Sieve

Powder Oxygen Molecular Sieve

Global Molecular Sieve for Oxygen Purification 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 Molecular Sieve for Oxygen Purification market?
2. What is the demand of the global Molecular Sieve for Oxygen Purification market?
3. What is the year over year growth of the global Molecular Sieve for Oxygen Purification market?
4. What is the production and production value of the global Molecular Sieve for Oxygen Purification market?

5. Who are the key producers in the global Molecular Sieve for Oxygen Purification market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

1.1 Molecular Sieve for Oxygen Purification Introduction

1.2 World Molecular Sieve for Oxygen Purification Supply & Forecast

1.2.1 World Molecular Sieve for Oxygen Purification Production Value (2021 & 2025 & 2032)

1.2.2 World Molecular Sieve for Oxygen Purification Production (2021-2032)

1.2.3 World Molecular Sieve for Oxygen Purification Pricing Trends (2021-2032)

1.3 World Molecular Sieve for Oxygen Purification Production by Region (Based on Production Site)

1.3.1 World Molecular Sieve for Oxygen Purification Production Value by Region (2021-2032)

1.3.2 World Molecular Sieve for Oxygen Purification Production by Region (2021-2032)

1.3.3 World Molecular Sieve for Oxygen Purification Average Price by Region (2021-2032)

1.3.4 North America Molecular Sieve for Oxygen Purification Production (2021-2032)

1.3.5 Europe Molecular Sieve for Oxygen Purification Production (2021-2032)

1.3.6 China Molecular Sieve for Oxygen Purification Production (2021-2032)

1.3.7 Japan Molecular Sieve for Oxygen Purification Production (2021-2032)

1.4 Market Drivers, Restraints and Trends

1.4.1 Molecular Sieve for Oxygen Purification Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 Molecular Sieve for Oxygen Purification Major Market Trends

2 DEMAND SUMMARY

2.1 World Molecular Sieve for Oxygen Purification Demand (2021-2032)

2.2 World Molecular Sieve for Oxygen Purification Consumption by Region

2.2.1 World Molecular Sieve for Oxygen Purification Consumption by Region (2021-2026)

2.2.2 World Molecular Sieve for Oxygen Purification Consumption Forecast by Region (2027-2032)

2.3 United States Molecular Sieve for Oxygen Purification Consumption (2021-2032)

2.4 China Molecular Sieve for Oxygen Purification Consumption (2021-2032)

2.5 Europe Molecular Sieve for Oxygen Purification Consumption (2021-2032)

2.6 Japan Molecular Sieve for Oxygen Purification Consumption (2021-2032)

- 2.7 South Korea Molecular Sieve for Oxygen Purification Consumption (2021-2032)
- 2.8 ASEAN Molecular Sieve for Oxygen Purification Consumption (2021-2032)
- 2.9 India Molecular Sieve for Oxygen Purification Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Molecular Sieve for Oxygen Purification Production Value by Manufacturer (2021-2026)
- 3.2 World Molecular Sieve for Oxygen Purification Production by Manufacturer (2021-2026)
- 3.3 World Molecular Sieve for Oxygen Purification Average Price by Manufacturer (2021-2026)
- 3.4 Molecular Sieve for Oxygen Purification Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Molecular Sieve for Oxygen Purification Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Molecular Sieve for Oxygen Purification in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Molecular Sieve for Oxygen Purification in 2025
- 3.6 Molecular Sieve for Oxygen Purification Market: Overall Company Footprint Analysis
 - 3.6.1 Molecular Sieve for Oxygen Purification Market: Region Footprint
 - 3.6.2 Molecular Sieve for Oxygen Purification Market: Company Product Type Footprint
 - 3.6.3 Molecular Sieve for Oxygen Purification Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Molecular Sieve for Oxygen Purification Production Value Comparison
 - 4.1.1 United States VS China: Molecular Sieve for Oxygen Purification Production

Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Molecular Sieve for Oxygen Purification Production

Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Molecular Sieve for Oxygen Purification Production Comparison

4.2.1 United States VS China: Molecular Sieve for Oxygen Purification Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Molecular Sieve for Oxygen Purification Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Molecular Sieve for Oxygen Purification Consumption Comparison

4.3.1 United States VS China: Molecular Sieve for Oxygen Purification Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Molecular Sieve for Oxygen Purification Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Molecular Sieve for Oxygen Purification Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Molecular Sieve for Oxygen Purification Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Molecular Sieve for Oxygen Purification Production Value (2021-2026)

4.4.3 United States Based Manufacturers Molecular Sieve for Oxygen Purification Production (2021-2026)

4.5 China Based Molecular Sieve for Oxygen Purification Manufacturers and Market Share

4.5.1 China Based Molecular Sieve for Oxygen Purification Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Molecular Sieve for Oxygen Purification Production Value (2021-2026)

4.5.3 China Based Manufacturers Molecular Sieve for Oxygen Purification Production (2021-2026)

4.6 Rest of World Based Molecular Sieve for Oxygen Purification Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Molecular Sieve for Oxygen Purification Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Molecular Sieve for Oxygen Purification Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Molecular Sieve for Oxygen Purification Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Molecular Sieve for Oxygen Purification Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 3A

5.2.2 4A

5.2.3 5A

5.2.4 13X

5.2.5 Others

5.3 Market Segment by Type

5.3.1 World Molecular Sieve for Oxygen Purification Production by Type (2021-2032)

5.3.2 World Molecular Sieve for Oxygen Purification Production Value by Type (2021-2032)

5.3.3 World Molecular Sieve for Oxygen Purification Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY EXCHANGE CATION

6.1 World Molecular Sieve for Oxygen Purification Market Size Overview by Exchange Cation: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Exchange Cation

6.2.1 Lithium-based Oxygen Molecular Sieve

6.2.2 Sodium-based Oxygen Molecular Sieve

6.2.3 Calcium-based Oxygen Molecular Sieve

6.2.4 Lithium-Sodium Composite Molecular Sieve

6.2.5 Lithium-Calcium Composite Molecular Sieve

6.3 Market Segment by Exchange Cation

6.3.1 World Molecular Sieve for Oxygen Purification Production by Exchange Cation (2021-2032)

6.3.2 World Molecular Sieve for Oxygen Purification Production Value by Exchange Cation (2021-2032)

6.3.3 World Molecular Sieve for Oxygen Purification Average Price by Exchange Cation (2021-2032)

7 MARKET ANALYSIS BY PRODUCT FORM

7.1 World Molecular Sieve for Oxygen Purification Market Size Overview by Product

Form: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Product Form

7.2.1 Bead Oxygen Molecular Sieve

7.2.2 Pellet Oxygen Molecular Sieve

7.2.3 Granular Oxygen Molecular Sieve

7.2.4 Powder Oxygen Molecular Sieve

7.3 Market Segment by Product Form

7.3.1 World Molecular Sieve for Oxygen Purification Production by Product Form (2021-2032)

7.3.2 World Molecular Sieve for Oxygen Purification Production Value by Product Form (2021-2032)

7.3.3 World Molecular Sieve for Oxygen Purification Average Price by Product Form (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Molecular Sieve for Oxygen Purification Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Medical

8.2.2 Industrial

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Molecular Sieve for Oxygen Purification Production by Application (2021-2032)

8.3.2 World Molecular Sieve for Oxygen Purification Production Value by Application (2021-2032)

8.3.3 World Molecular Sieve for Oxygen Purification Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Honeywell

9.1.1 Honeywell Details

9.1.2 Honeywell Major Business

9.1.3 Honeywell Molecular Sieve for Oxygen Purification Product and Services

9.1.4 Honeywell Molecular Sieve for Oxygen Purification Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Honeywell Recent Developments/Updates

9.1.6 Honeywell Competitive Strengths & Weaknesses

9.2 Arkema

9.2.1 Arkema Details

9.2.2 Arkema Major Business

9.2.3 Arkema Molecular Sieve for Oxygen Purification Product and Services

9.2.4 Arkema Molecular Sieve for Oxygen Purification Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Arkema Recent Developments/Updates

9.2.6 Arkema Competitive Strengths & Weaknesses

9.3 Zeochem

9.3.1 Zeochem Details

9.3.2 Zeochem Major Business

9.3.3 Zeochem Molecular Sieve for Oxygen Purification Product and Services

9.3.4 Zeochem Molecular Sieve for Oxygen Purification Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Zeochem Recent Developments/Updates

9.3.6 Zeochem Competitive Strengths & Weaknesses

9.4 Tosoh

9.4.1 Tosoh Details

9.4.2 Tosoh Major Business

9.4.3 Tosoh Molecular Sieve for Oxygen Purification Product and Services

9.4.4 Tosoh Molecular Sieve for Oxygen Purification Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Tosoh Recent Developments/Updates

9.4.6 Tosoh Competitive Strengths & Weaknesses

9.5 W.R. Grace

9.5.1 W.R. Grace Details

9.5.2 W.R. Grace Major Business

9.5.3 W.R. Grace Molecular Sieve for Oxygen Purification Product and Services

9.5.4 W.R. Grace Molecular Sieve for Oxygen Purification Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 W.R. Grace Recent Developments/Updates

9.5.6 W.R. Grace Competitive Strengths & Weaknesses

9.6 CWK Chemiewerk Bad K[?]stritz

9.6.1 CWK Chemiewerk Bad K[?]stritz Details

9.6.2 CWK Chemiewerk Bad K[?]stritz Major Business

9.6.3 CWK Chemiewerk Bad K[?]stritz Molecular Sieve for Oxygen Purification Product and Services

9.6.4 CWK Chemiewerk Bad K[?]stritz Molecular Sieve for Oxygen Purification

Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 CWK Chemiewerk Bad K?stritz Recent Developments/Updates

9.6.6 CWK Chemiewerk Bad K?stritz Competitive Strengths & Weaknesses

9.7 Axens

9.7.1 Axens Details

9.7.2 Axens Major Business

9.7.3 Axens Molecular Sieve for Oxygen Purification Product and Services

9.7.4 Axens Molecular Sieve for Oxygen Purification Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Axens Recent Developments/Updates

9.7.6 Axens Competitive Strengths & Weaknesses

9.8 Luoyang Jalon Micro-nano New Materials

9.8.1 Luoyang Jalon Micro-nano New Materials Details

9.8.2 Luoyang Jalon Micro-nano New Materials Major Business

9.8.3 Luoyang Jalon Micro-nano New Materials Molecular Sieve for Oxygen Purification Product and Services

9.8.4 Luoyang Jalon Micro-nano New Materials Molecular Sieve for Oxygen Purification Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Luoyang Jalon Micro-nano New Materials Recent Developments/Updates

9.8.6 Luoyang Jalon Micro-nano New Materials Competitive Strengths & Weaknesses

9.9 Shanghai Hengye Microcrystalline Materials

9.9.1 Shanghai Hengye Microcrystalline Materials Details

9.9.2 Shanghai Hengye Microcrystalline Materials Major Business

9.9.3 Shanghai Hengye Microcrystalline Materials Molecular Sieve for Oxygen Purification Product and Services

9.9.4 Shanghai Hengye Microcrystalline Materials Molecular Sieve for Oxygen Purification Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Shanghai Hengye Microcrystalline Materials Recent Developments/Updates

9.9.6 Shanghai Hengye Microcrystalline Materials Competitive Strengths & Weaknesses

9.10 China Catalyst Holding

9.10.1 China Catalyst Holding Details

9.10.2 China Catalyst Holding Major Business

9.10.3 China Catalyst Holding Molecular Sieve for Oxygen Purification Product and Services

9.10.4 China Catalyst Holding Molecular Sieve for Oxygen Purification Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 China Catalyst Holding Recent Developments/Updates

9.10.6 China Catalyst Holding Competitive Strengths & Weaknesses

9.11 Dalian Haixin Chemical

9.11.1 Dalian Haixin Chemical Details

9.11.2 Dalian Haixin Chemical Major Business

9.11.3 Dalian Haixin Chemical Molecular Sieve for Oxygen Purification Product and Services

9.11.4 Dalian Haixin Chemical Molecular Sieve for Oxygen Purification Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Dalian Haixin Chemical Recent Developments/Updates

9.11.6 Dalian Haixin Chemical Competitive Strengths & Weaknesses

9.12 Zhengzhou SnowMountain Industrial

9.12.1 Zhengzhou SnowMountain Industrial Details

9.12.2 Zhengzhou SnowMountain Industrial Major Business

9.12.3 Zhengzhou SnowMountain Industrial Molecular Sieve for Oxygen Purification Product and Services

9.12.4 Zhengzhou SnowMountain Industrial Molecular Sieve for Oxygen Purification Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Zhengzhou SnowMountain Industrial Recent Developments/Updates

9.12.6 Zhengzhou SnowMountain Industrial Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Molecular Sieve for Oxygen Purification Industry Chain

10.2 Molecular Sieve for Oxygen Purification Upstream Analysis

10.2.1 Molecular Sieve for Oxygen Purification Core Raw Materials

10.2.2 Main Manufacturers of Molecular Sieve for Oxygen Purification Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Molecular Sieve for Oxygen Purification Production Mode

10.6 Molecular Sieve for Oxygen Purification Procurement Model

10.7 Molecular Sieve for Oxygen Purification Industry Sales Model and Sales Channels

10.7.1 Molecular Sieve for Oxygen Purification Sales Model

10.7.2 Molecular Sieve for Oxygen Purification Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Molecular Sieve for Oxygen Purification Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Molecular Sieve for Oxygen Purification Production Value by Region (2021-2026) & (USD Million)

Table 3. World Molecular Sieve for Oxygen Purification Production Value by Region (2027-2032) & (USD Million)

Table 4. World Molecular Sieve for Oxygen Purification Production Value Market Share by Region (2021-2026)

Table 5. World Molecular Sieve for Oxygen Purification Production Value Market Share by Region (2027-2032)

Table 6. World Molecular Sieve for Oxygen Purification Production by Region (2021-2026) & (Tons)

Table 7. World Molecular Sieve for Oxygen Purification Production by Region (2027-2032) & (Tons)

Table 8. World Molecular Sieve for Oxygen Purification Production Market Share by Region (2021-2026)

Table 9. World Molecular Sieve for Oxygen Purification Production Market Share by Region (2027-2032)

Table 10. World Molecular Sieve for Oxygen Purification Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Molecular Sieve for Oxygen Purification Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Molecular Sieve for Oxygen Purification Major Market Trends

Table 13. World Molecular Sieve for Oxygen Purification Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Molecular Sieve for Oxygen Purification Consumption by Region (2021-2026) & (Tons)

Table 15. World Molecular Sieve for Oxygen Purification Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Molecular Sieve for Oxygen Purification Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Molecular Sieve for Oxygen Purification Producers in 2025

Table 18. World Molecular Sieve for Oxygen Purification Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Molecular Sieve for Oxygen Purification Producers in 2025

Table 20. World Molecular Sieve for Oxygen Purification Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Molecular Sieve for Oxygen Purification Company Evaluation Quadrant

Table 22. World Molecular Sieve for Oxygen Purification Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Molecular Sieve for Oxygen Purification Production Site of Key Manufacturer

Table 24. Molecular Sieve for Oxygen Purification Market: Company Product Type Footprint

Table 25. Molecular Sieve for Oxygen Purification Market: Company Product Application Footprint

Table 26. Molecular Sieve for Oxygen Purification Competitive Factors

Table 27. Molecular Sieve for Oxygen Purification New Entrant and Capacity Expansion Plans

Table 28. Molecular Sieve for Oxygen Purification Mergers & Acquisitions Activity

Table 29. United States VS China Molecular Sieve for Oxygen Purification Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Molecular Sieve for Oxygen Purification Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Molecular Sieve for Oxygen Purification Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Molecular Sieve for Oxygen Purification Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Molecular Sieve for Oxygen Purification Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Molecular Sieve for Oxygen Purification Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Molecular Sieve for Oxygen Purification Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Molecular Sieve for Oxygen Purification Production Market Share (2021-2026)

Table 37. China Based Molecular Sieve for Oxygen Purification Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Molecular Sieve for Oxygen Purification Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Molecular Sieve for Oxygen Purification

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Molecular Sieve for Oxygen Purification Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Molecular Sieve for Oxygen Purification Production Market Share (2021-2026)

Table 42. Rest of World Based Molecular Sieve for Oxygen Purification Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Molecular Sieve for Oxygen Purification Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Molecular Sieve for Oxygen Purification Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Molecular Sieve for Oxygen Purification Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Molecular Sieve for Oxygen Purification Production Market Share (2021-2026)

Table 47. World Molecular Sieve for Oxygen Purification Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Molecular Sieve for Oxygen Purification Production by Type (2021-2026) & (Tons)

Table 49. World Molecular Sieve for Oxygen Purification Production by Type (2027-2032) & (Tons)

Table 50. World Molecular Sieve for Oxygen Purification Production Value by Type (2021-2026) & (USD Million)

Table 51. World Molecular Sieve for Oxygen Purification Production Value by Type (2027-2032) & (USD Million)

Table 52. World Molecular Sieve for Oxygen Purification Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Molecular Sieve for Oxygen Purification Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Molecular Sieve for Oxygen Purification Production Value by Exchange Cation, (USD Million), 2021 & 2025 & 2032

Table 55. World Molecular Sieve for Oxygen Purification Production by Exchange Cation (2021-2026) & (Tons)

Table 56. World Molecular Sieve for Oxygen Purification Production by Exchange Cation (2027-2032) & (Tons)

Table 57. World Molecular Sieve for Oxygen Purification Production Value by Exchange Cation (2021-2026) & (USD Million)

Table 58. World Molecular Sieve for Oxygen Purification Production Value by Exchange Cation (2027-2032) & (USD Million)

Table 59. World Molecular Sieve for Oxygen Purification Average Price by Exchange Cation (2021-2026) & (US\$/Ton)

Table 60. World Molecular Sieve for Oxygen Purification Average Price by Exchange Cation (2027-2032) & (US\$/Ton)

Table 61. World Molecular Sieve for Oxygen Purification Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 62. World Molecular Sieve for Oxygen Purification Production by Product Form (2021-2026) & (Tons)

Table 63. World Molecular Sieve for Oxygen Purification Production by Product Form (2027-2032) & (Tons)

Table 64. World Molecular Sieve for Oxygen Purification Production Value by Product Form (2021-2026) & (USD Million)

Table 65. World Molecular Sieve for Oxygen Purification Production Value by Product Form (2027-2032) & (USD Million)

Table 66. World Molecular Sieve for Oxygen Purification Average Price by Product Form (2021-2026) & (US\$/Ton)

Table 67. World Molecular Sieve for Oxygen Purification Average Price by Product Form (2027-2032) & (US\$/Ton)

Table 68. World Molecular Sieve for Oxygen Purification Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Molecular Sieve for Oxygen Purification Production by Application (2021-2026) & (Tons)

Table 70. World Molecular Sieve for Oxygen Purification Production by Application (2027-2032) & (Tons)

Table 71. World Molecular Sieve for Oxygen Purification Production Value by Application (2021-2026) & (USD Million)

Table 72. World Molecular Sieve for Oxygen Purification Production Value by Application (2027-2032) & (USD Million)

Table 73. World Molecular Sieve for Oxygen Purification Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Molecular Sieve for Oxygen Purification Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Honeywell Basic Information, Manufacturing Base and Competitors

Table 76. Honeywell Major Business

Table 77. Honeywell Molecular Sieve for Oxygen Purification Product and Services

Table 78. Honeywell Molecular Sieve for Oxygen Purification Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Honeywell Recent Developments/Updates

Table 80. Honeywell Competitive Strengths & Weaknesses
Table 81. Arkema Basic Information, Manufacturing Base and Competitors
Table 82. Arkema Major Business
Table 83. Arkema Molecular Sieve for Oxygen Purification Product and Services
Table 84. Arkema Molecular Sieve for Oxygen Purification Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Arkema Recent Developments/Updates
Table 86. Arkema Competitive Strengths & Weaknesses
Table 87. Zeochem Basic Information, Manufacturing Base and Competitors
Table 88. Zeochem Major Business
Table 89. Zeochem Molecular Sieve for Oxygen Purification Product and Services
Table 90. Zeochem Molecular Sieve for Oxygen Purification Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Zeochem Recent Developments/Updates
Table 92. Zeochem Competitive Strengths & Weaknesses
Table 93. Tosoh Basic Information, Manufacturing Base and Competitors
Table 94. Tosoh Major Business
Table 95. Tosoh Molecular Sieve for Oxygen Purification Product and Services
Table 96. Tosoh Molecular Sieve for Oxygen Purification Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Tosoh Recent Developments/Updates
Table 98. Tosoh Competitive Strengths & Weaknesses
Table 99. W.R. Grace Basic Information, Manufacturing Base and Competitors
Table 100. W.R. Grace Major Business
Table 101. W.R. Grace Molecular Sieve for Oxygen Purification Product and Services
Table 102. W.R. Grace Molecular Sieve for Oxygen Purification Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. W.R. Grace Recent Developments/Updates
Table 104. W.R. Grace Competitive Strengths & Weaknesses
Table 105. CWK Chemiewerk Bad K?stritz Basic Information, Manufacturing Base and Competitors
Table 106. CWK Chemiewerk Bad K?stritz Major Business
Table 107. CWK Chemiewerk Bad K?stritz Molecular Sieve for Oxygen Purification Product and Services
Table 108. CWK Chemiewerk Bad K?stritz Molecular Sieve for Oxygen Purification

Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. CWK Chemiewerk Bad K?stritz Recent Developments/Updates

Table 110. CWK Chemiewerk Bad K?stritz Competitive Strengths & Weaknesses

Table 111. Axens Basic Information, Manufacturing Base and Competitors

Table 112. Axens Major Business

Table 113. Axens Molecular Sieve for Oxygen Purification Product and Services

Table 114. Axens Molecular Sieve for Oxygen Purification Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Axens Recent Developments/Updates

Table 116. Axens Competitive Strengths & Weaknesses

Table 117. Luoyang Jalon Micro-nano New Materials Basic Information, Manufacturing Base and Competitors

Table 118. Luoyang Jalon Micro-nano New Materials Major Business

Table 119. Luoyang Jalon Micro-nano New Materials Molecular Sieve for Oxygen Purification Product and Services

Table 120. Luoyang Jalon Micro-nano New Materials Molecular Sieve for Oxygen Purification Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Luoyang Jalon Micro-nano New Materials Recent Developments/Updates

Table 122. Luoyang Jalon Micro-nano New Materials Competitive Strengths & Weaknesses

Table 123. Shanghai Hengye Microcrystalline Materials Basic Information, Manufacturing Base and Competitors

Table 124. Shanghai Hengye Microcrystalline Materials Major Business

Table 125. Shanghai Hengye Microcrystalline Materials Molecular Sieve for Oxygen Purification Product and Services

Table 126. Shanghai Hengye Microcrystalline Materials Molecular Sieve for Oxygen Purification Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Shanghai Hengye Microcrystalline Materials Recent Developments/Updates

Table 128. Shanghai Hengye Microcrystalline Materials Competitive Strengths & Weaknesses

Table 129. China Catalyst Holding Basic Information, Manufacturing Base and Competitors

Table 130. China Catalyst Holding Major Business

Table 131. China Catalyst Holding Molecular Sieve for Oxygen Purification Product and Services

Table 132. China Catalyst Holding Molecular Sieve for Oxygen Purification Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. China Catalyst Holding Recent Developments/Updates

Table 134. China Catalyst Holding Competitive Strengths & Weaknesses

Table 135. Dalian Haixin Chemical Basic Information, Manufacturing Base and Competitors

Table 136. Dalian Haixin Chemical Major Business

Table 137. Dalian Haixin Chemical Molecular Sieve for Oxygen Purification Product and Services

Table 138. Dalian Haixin Chemical Molecular Sieve for Oxygen Purification Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Dalian Haixin Chemical Recent Developments/Updates

Table 140. Dalian Haixin Chemical Competitive Strengths & Weaknesses

Table 141. Zhengzhou SnowMountain Industrial Basic Information, Manufacturing Base and Competitors

Table 142. Zhengzhou SnowMountain Industrial Major Business

Table 143. Zhengzhou SnowMountain Industrial Molecular Sieve for Oxygen Purification Product and Services

Table 144. Zhengzhou SnowMountain Industrial Molecular Sieve for Oxygen Purification Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Zhengzhou SnowMountain Industrial Recent Developments/Updates

Table 146. Zhengzhou SnowMountain Industrial Competitive Strengths & Weaknesses

Table 147. Global Key Players of Molecular Sieve for Oxygen Purification Upstream (Raw Materials)

Table 148. Global Molecular Sieve for Oxygen Purification Typical Customers

Table 149. Molecular Sieve for Oxygen Purification Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Molecular Sieve for Oxygen Purification Picture

Figure 2. World Molecular Sieve for Oxygen Purification Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Molecular Sieve for Oxygen Purification Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Molecular Sieve for Oxygen Purification Production (2021-2032) & (Tons)

Figure 5. World Molecular Sieve for Oxygen Purification Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Molecular Sieve for Oxygen Purification Production Value Market Share by Region (2021-2032)

Figure 7. World Molecular Sieve for Oxygen Purification Production Market Share by Region (2021-2032)

Figure 8. North America Molecular Sieve for Oxygen Purification Production (2021-2032) & (Tons)

Figure 9. Europe Molecular Sieve for Oxygen Purification Production (2021-2032) & (Tons)

Figure 10. China Molecular Sieve for Oxygen Purification Production (2021-2032) & (Tons)

Figure 11. Japan Molecular Sieve for Oxygen Purification Production (2021-2032) & (Tons)

Figure 12. Molecular Sieve for Oxygen Purification Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Molecular Sieve for Oxygen Purification Consumption (2021-2032) & (Tons)

Figure 15. World Molecular Sieve for Oxygen Purification Consumption Market Share by Region (2021-2032)

Figure 16. United States Molecular Sieve for Oxygen Purification Consumption (2021-2032) & (Tons)

Figure 17. China Molecular Sieve for Oxygen Purification Consumption (2021-2032) & (Tons)

Figure 18. Europe Molecular Sieve for Oxygen Purification Consumption (2021-2032) & (Tons)

Figure 19. Japan Molecular Sieve for Oxygen Purification Consumption (2021-2032) & (Tons)

Figure 20. South Korea Molecular Sieve for Oxygen Purification Consumption (2021-2032) & (Tons)

Figure 21. ASEAN Molecular Sieve for Oxygen Purification Consumption (2021-2032) & (Tons)

Figure 22. India Molecular Sieve for Oxygen Purification Consumption (2021-2032) & (Tons)

Figure 23. Producer Shipments of Molecular Sieve for Oxygen Purification by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Molecular Sieve for Oxygen Purification Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Molecular Sieve for Oxygen Purification Markets in 2025

Figure 26. United States VS China: Molecular Sieve for Oxygen Purification Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Molecular Sieve for Oxygen Purification Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Molecular Sieve for Oxygen Purification Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Molecular Sieve for Oxygen Purification Production Market Share 2025

Figure 30. China Based Manufacturers Molecular Sieve for Oxygen Purification Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Molecular Sieve for Oxygen Purification Production Market Share 2025

Figure 32. World Molecular Sieve for Oxygen Purification Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Molecular Sieve for Oxygen Purification Production Value Market Share by Type in 2025

Figure 34. 3A

Figure 35. 4A

Figure 36. 5A

Figure 37. 13X

Figure 38. Others

Figure 39. World Molecular Sieve for Oxygen Purification Production Market Share by Type (2021-2032)

Figure 40. World Molecular Sieve for Oxygen Purification Production Value Market Share by Type (2021-2032)

Figure 41. World Molecular Sieve for Oxygen Purification Average Price by Type (2021-2032) & (US\$/Ton)

Figure 42. World Molecular Sieve for Oxygen Purification Production Value by Exchange Cation, (USD Million), 2021 & 2025 & 2032

Figure 43. World Molecular Sieve for Oxygen Purification Production Value Market Share by Exchange Cation in 2025

Figure 44. Lithium-based Oxygen Molecular Sieve

Figure 45. Sodium-based Oxygen Molecular Sieve

Figure 46. Calcium-based Oxygen Molecular Sieve

Figure 47. Lithium-Sodium Composite Molecular Sieve

Figure 48. Lithium-Calcium Composite Molecular Sieve

Figure 49. World Molecular Sieve for Oxygen Purification Production Market Share by Exchange Cation (2021-2032)

Figure 50. World Molecular Sieve for Oxygen Purification Production Value Market Share by Exchange Cation (2021-2032)

Figure 51. World Molecular Sieve for Oxygen Purification Average Price by Exchange Cation (2021-2032) & (US\$/Ton)

Figure 52. World Molecular Sieve for Oxygen Purification Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 53. World Molecular Sieve for Oxygen Purification Production Value Market Share by Product Form in 2025

Figure 54. Bead Oxygen Molecular Sieve

Figure 55. Pellet Oxygen Molecular Sieve

Figure 56. Granular Oxygen Molecular Sieve

Figure 57. Powder Oxygen Molecular Sieve

Figure 58. World Molecular Sieve for Oxygen Purification Production Market Share by Product Form (2021-2032)

Figure 59. World Molecular Sieve for Oxygen Purification Production Value Market Share by Product Form (2021-2032)

Figure 60. World Molecular Sieve for Oxygen Purification Average Price by Product Form (2021-2032) & (US\$/Ton)

Figure 61. World Molecular Sieve for Oxygen Purification Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 62. World Molecular Sieve for Oxygen Purification Production Value Market Share by Application in 2025

Figure 63. Medical

Figure 64. Industrial

Figure 65. Others

Figure 66. World Molecular Sieve for Oxygen Purification Production Market Share by Application (2021-2032)

Figure 67. World Molecular Sieve for Oxygen Purification Production Value Market

Share by Application (2021-2032)

Figure 68. World Molecular Sieve for Oxygen Purification Average Price by Application (2021-2032) & (US\$/Ton)

Figure 69. Molecular Sieve for Oxygen Purification Industry Chain

Figure 70. Molecular Sieve for Oxygen Purification Procurement Model

Figure 71. Molecular Sieve for Oxygen Purification Sales Model

Figure 72. Molecular Sieve for Oxygen Purification Sales Channels, Direct Sales, and Distribution

Figure 73. Methodology

Figure 74. Research Process and Data Source

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