

Global MOF Porous Materials Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global MOF Porous Materials market size was valued at US\$ 145 million in 2025 and is forecast to a readjusted size of US\$ 278 million by 2032 with a CAGR of 8.3% during review period.

MOF porous materials, or Metal–Organic Framework porous materials, are crystalline porous materials constructed from metal ions or metal clusters coordinated with organic ligands. They feature high specific surface area, ordered pore structures, tunable pore sizes, designable frameworks, and abundant functional sites. Owing to their excellent adsorption, separation, catalytic, energy storage, and sensing properties, MOF porous materials are widely used in gas storage and separation, carbon capture, hydrogen storage, water purification, catalysis, drug delivery, battery materials, and environmental monitoring, making them one of the most important advanced materials in materials science and specialty chemicals. In 2025, global MOF Porous Materials production reached approximately 1172 tons, with an average global market price of around 120 USD/kg,. The production capacity for MOF Porous Materials in 2025 was approximately 1200 tons The typical gross profit margin for MOF Porous Materials between 20% and 40%.

The MOF porous materials market is moving rapidly from laboratory research toward scaled application and commercial validation. Market growth is mainly driven by carbon capture and carbon neutrality goals, upgrades in gas separation and storage technologies, hydrogen energy development, environmental treatment, and rising demand for high-performance adsorbents. MOF materials show strong potential in carbon capture, VOC removal, natural gas purification, hydrogen and methane storage, water treatment, catalyst supports, and electronic chemicals. However, large-scale

commercialization is still limited by manufacturing cost, batch consistency, long-term stability, shaping and processing challenges, and lengthy downstream qualification cycles. With advances in low-cost synthesis, continuous production, pelletization technologies, and pilot-scale demonstration projects, MOF porous materials are expected to gain wider adoption in high-value markets such as environmental protection, energy, chemicals, electronics, and life sciences.

This report is a detailed and comprehensive analysis for global MOF Porous Materials 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 2025, are provided.

Key Features:

Global MOF Porous Materials market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global MOF Porous Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global MOF Porous Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global MOF Porous Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for MOF Porous Materials

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 MOF Porous Materials market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Merck, Alfa Chemistry, BASF, American Elements, ACS Material, Framergy, Beijing Beike New Material Technology, XFNANO, SixCarbon Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

MOF Porous Materials market is split by Type and by Application. For the period 2021-2032, 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

Alkali Metal MOFs

Alkali Earth Metal MOFs

Transition Metal MOFs

Others

Market segment by Topology

1D Chain-like MOFs

2D Layered MOFs

3D Framework MOFs

Market segment by Application

Gas Storage & Separation

Environmental & Water Treatment

Catalysis & Chemical Processing

Energy Storage & Conversion

Others

Major players covered

Merck

Alfa Chemistry

BASF

American Elements

ACS Material

Framergy

Beijing Beike New Material Technology

XFNANO

SixCarbon 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 MOF Porous Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of MOF Porous Materials, with price, sales quantity, revenue, and global market share of MOF Porous Materials from 2021 to 2026.

Chapter 3, the MOF Porous Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the MOF Porous Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and MOF Porous Materials market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of MOF Porous Materials.

Chapter 14 and 15, to describe MOF Porous Materials sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global MOF Porous Materials Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Alkali Metal MOFs

1.3.3 Alkali Earth Metal MOFs

1.3.4 Transition Metal MOFs

1.3.5 Others

1.4 Market Analysis by Topology

1.4.1 Overview: Global MOF Porous Materials Consumption Value by Topology: 2021 Versus 2025 Versus 2032

1.4.2 1D Chain-like MOFs

1.4.3 2D Layered MOFs

1.4.4 3D Framework MOFs

1.5 Market Analysis by Application

1.5.1 Overview: Global MOF Porous Materials Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Gas Storage & Separation

1.5.3 Environmental & Water Treatment

1.5.4 Catalysis & Chemical Processing

1.5.5 Energy Storage & Conversion

1.5.6 Others

1.6 Global MOF Porous Materials Market Size & Forecast

1.6.1 Global MOF Porous Materials Consumption Value (2021 & 2025 & 2032)

1.6.2 Global MOF Porous Materials Sales Quantity (2021-2032)

1.6.3 Global MOF Porous Materials Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Merck

2.1.1 Merck Details

2.1.2 Merck Major Business

2.1.3 Merck MOF Porous Materials Product and Services

2.1.4 Merck MOF Porous Materials Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2021-2026)

2.1.5 Merck Recent Developments/Updates

2.2 Alfa Chemistry

2.2.1 Alfa Chemistry Details

2.2.2 Alfa Chemistry Major Business

2.2.3 Alfa Chemistry MOF Porous Materials Product and Services

2.2.4 Alfa Chemistry MOF Porous Materials Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.2.5 Alfa Chemistry Recent Developments/Updates

2.3 BASF

2.3.1 BASF Details

2.3.2 BASF Major Business

2.3.3 BASF MOF Porous Materials Product and Services

2.3.4 BASF MOF Porous Materials Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2021-2026)

2.3.5 BASF Recent Developments/Updates

2.4 American Elements

2.4.1 American Elements Details

2.4.2 American Elements Major Business

2.4.3 American Elements MOF Porous Materials Product and Services

2.4.4 American Elements MOF Porous Materials Sales Quantity, Average Price,

Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 American Elements Recent Developments/Updates

2.5 ACS Material

2.5.1 ACS Material Details

2.5.2 ACS Material Major Business

2.5.3 ACS Material MOF Porous Materials Product and Services

2.5.4 ACS Material MOF Porous Materials Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.5.5 ACS Material Recent Developments/Updates

2.6 Framergy

2.6.1 Framergy Details

2.6.2 Framergy Major Business

2.6.3 Framergy MOF Porous Materials Product and Services

2.6.4 Framergy MOF Porous Materials Sales Quantity, Average Price, Revenue,

Gross Margin and Market Share (2021-2026)

2.6.5 Framergy Recent Developments/Updates

2.7 Beijing Beike New Material Technology

2.7.1 Beijing Beike New Material Technology Details

- 2.7.2 Beijing Beike New Material Technology Major Business
- 2.7.3 Beijing Beike New Material Technology MOF Porous Materials Product and Services
- 2.7.4 Beijing Beike New Material Technology MOF Porous Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 Beijing Beike New Material Technology Recent Developments/Updates
- 2.8 XFNANO
 - 2.8.1 XFNANO Details
 - 2.8.2 XFNANO Major Business
 - 2.8.3 XFNANO MOF Porous Materials Product and Services
 - 2.8.4 XFNANO MOF Porous Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 XFNANO Recent Developments/Updates
- 2.9 SixCarbon Technology
 - 2.9.1 SixCarbon Technology Details
 - 2.9.2 SixCarbon Technology Major Business
 - 2.9.3 SixCarbon Technology MOF Porous Materials Product and Services
 - 2.9.4 SixCarbon Technology MOF Porous Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 SixCarbon Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: MOF POROUS MATERIALS BY MANUFACTURER

- 3.1 Global MOF Porous Materials Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global MOF Porous Materials Revenue by Manufacturer (2021-2026)
- 3.3 Global MOF Porous Materials Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of MOF Porous Materials by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 MOF Porous Materials Manufacturer Market Share in 2025
 - 3.4.3 Top 6 MOF Porous Materials Manufacturer Market Share in 2025
- 3.5 MOF Porous Materials Market: Overall Company Footprint Analysis
 - 3.5.1 MOF Porous Materials Market: Region Footprint
 - 3.5.2 MOF Porous Materials Market: Company Product Type Footprint
 - 3.5.3 MOF Porous Materials Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global MOF Porous Materials Market Size by Region

- 4.1.1 Global MOF Porous Materials Sales Quantity by Region (2021-2032)
- 4.1.2 Global MOF Porous Materials Consumption Value by Region (2021-2032)
- 4.1.3 Global MOF Porous Materials Average Price by Region (2021-2032)

4.2 North America MOF Porous Materials Consumption Value (2021-2032)

4.3 Europe MOF Porous Materials Consumption Value (2021-2032)

4.4 Asia-Pacific MOF Porous Materials Consumption Value (2021-2032)

4.5 South America MOF Porous Materials Consumption Value (2021-2032)

4.6 Middle East & Africa MOF Porous Materials Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global MOF Porous Materials Sales Quantity by Type (2021-2032)

5.2 Global MOF Porous Materials Consumption Value by Type (2021-2032)

5.3 Global MOF Porous Materials Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global MOF Porous Materials Sales Quantity by Application (2021-2032)

6.2 Global MOF Porous Materials Consumption Value by Application (2021-2032)

6.3 Global MOF Porous Materials Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America MOF Porous Materials Sales Quantity by Type (2021-2032)

7.2 North America MOF Porous Materials Sales Quantity by Application (2021-2032)

7.3 North America MOF Porous Materials Market Size by Country

7.3.1 North America MOF Porous Materials Sales Quantity by Country (2021-2032)

7.3.2 North America MOF Porous Materials Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe MOF Porous Materials Sales Quantity by Type (2021-2032)

- 8.2 Europe MOF Porous Materials Sales Quantity by Application (2021-2032)
- 8.3 Europe MOF Porous Materials Market Size by Country
 - 8.3.1 Europe MOF Porous Materials Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe MOF Porous Materials Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)
 - 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific MOF Porous Materials Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific MOF Porous Materials Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific MOF Porous Materials Market Size by Region
 - 9.3.1 Asia-Pacific MOF Porous Materials Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific MOF Porous Materials Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America MOF Porous Materials Sales Quantity by Type (2021-2032)
- 10.2 South America MOF Porous Materials Sales Quantity by Application (2021-2032)
- 10.3 South America MOF Porous Materials Market Size by Country
 - 10.3.1 South America MOF Porous Materials Sales Quantity by Country (2021-2032)
 - 10.3.2 South America MOF Porous Materials Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa MOF Porous Materials Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa MOF Porous Materials Sales Quantity by Application

(2021-2032)

11.3 Middle East & Africa MOF Porous Materials Market Size by Country

11.3.1 Middle East & Africa MOF Porous Materials Sales Quantity by Country

(2021-2032)

11.3.2 Middle East & Africa MOF Porous Materials Consumption Value by Country

(2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 MOF Porous Materials Market Drivers

12.2 MOF Porous Materials Market Restraints

12.3 MOF Porous Materials Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of MOF Porous Materials and Key Manufacturers

13.2 Manufacturing Costs Percentage of MOF Porous Materials

13.3 MOF Porous Materials Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 MOF Porous Materials Typical Distributors

14.3 MOF Porous Materials Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global MOF Porous Materials Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global MOF Porous Materials Consumption Value by Topology, (USD Million), 2021 & 2025 & 2032

Table 3. Global MOF Porous Materials Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Merck Basic Information, Manufacturing Base and Competitors

Table 5. Merck Major Business

Table 6. Merck MOF Porous Materials Product and Services

Table 7. Merck MOF Porous Materials Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Merck Recent Developments/Updates

Table 9. Alfa Chemistry Basic Information, Manufacturing Base and Competitors

Table 10. Alfa Chemistry Major Business

Table 11. Alfa Chemistry MOF Porous Materials Product and Services

Table 12. Alfa Chemistry MOF Porous Materials Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. Alfa Chemistry Recent Developments/Updates

Table 14. BASF Basic Information, Manufacturing Base and Competitors

Table 15. BASF Major Business

Table 16. BASF MOF Porous Materials Product and Services

Table 17. BASF MOF Porous Materials Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. BASF Recent Developments/Updates

Table 19. American Elements Basic Information, Manufacturing Base and Competitors

Table 20. American Elements Major Business

Table 21. American Elements MOF Porous Materials Product and Services

Table 22. American Elements MOF Porous Materials Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. American Elements Recent Developments/Updates

Table 24. ACS Material Basic Information, Manufacturing Base and Competitors

Table 25. ACS Material Major Business

Table 26. ACS Material MOF Porous Materials Product and Services

Table 27. ACS Material MOF Porous Materials Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

- Table 28. ACS Material Recent Developments/Updates
- Table 29. Framergy Basic Information, Manufacturing Base and Competitors
- Table 30. Framergy Major Business
- Table 31. Framergy MOF Porous Materials Product and Services
- Table 32. Framergy MOF Porous Materials Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 33. Framergy Recent Developments/Updates
- Table 34. Beijing Beike New Material Technology Basic Information, Manufacturing Base and Competitors
- Table 35. Beijing Beike New Material Technology Major Business
- Table 36. Beijing Beike New Material Technology MOF Porous Materials Product and Services
- Table 37. Beijing Beike New Material Technology MOF Porous Materials Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 38. Beijing Beike New Material Technology Recent Developments/Updates
- Table 39. XFNANO Basic Information, Manufacturing Base and Competitors
- Table 40. XFNANO Major Business
- Table 41. XFNANO MOF Porous Materials Product and Services
- Table 42. XFNANO MOF Porous Materials Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 43. XFNANO Recent Developments/Updates
- Table 44. SixCarbon Technology Basic Information, Manufacturing Base and Competitors
- Table 45. SixCarbon Technology Major Business
- Table 46. SixCarbon Technology MOF Porous Materials Product and Services
- Table 47. SixCarbon Technology MOF Porous Materials Sales Quantity (Tons), Average Price (US\$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 48. SixCarbon Technology Recent Developments/Updates
- Table 49. Global MOF Porous Materials Sales Quantity by Manufacturer (2021-2026) & (Tons)
- Table 50. Global MOF Porous Materials Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 51. Global MOF Porous Materials Average Price by Manufacturer (2021-2026) & (US\$/kg)
- Table 52. Market Position of Manufacturers in MOF Porous Materials, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 53. Head Office and MOF Porous Materials Production Site of Key Manufacturer

- Table 54. MOF Porous Materials Market: Company Product Type Footprint
- Table 55. MOF Porous Materials Market: Company Product Application Footprint
- Table 56. MOF Porous Materials New Market Entrants and Barriers to Market Entry
- Table 57. MOF Porous Materials Mergers, Acquisition, Agreements, and Collaborations
- Table 58. Global MOF Porous Materials Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 59. Global MOF Porous Materials Sales Quantity by Region (2021-2026) & (Tons)
- Table 60. Global MOF Porous Materials Sales Quantity by Region (2027-2032) & (Tons)
- Table 61. Global MOF Porous Materials Consumption Value by Region (2021-2026) & (USD Million)
- Table 62. Global MOF Porous Materials Consumption Value by Region (2027-2032) & (USD Million)
- Table 63. Global MOF Porous Materials Average Price by Region (2021-2026) & (US\$/kg)
- Table 64. Global MOF Porous Materials Average Price by Region (2027-2032) & (US\$/kg)
- Table 65. Global MOF Porous Materials Sales Quantity by Type (2021-2026) & (Tons)
- Table 66. Global MOF Porous Materials Sales Quantity by Type (2027-2032) & (Tons)
- Table 67. Global MOF Porous Materials Consumption Value by Type (2021-2026) & (USD Million)
- Table 68. Global MOF Porous Materials Consumption Value by Type (2027-2032) & (USD Million)
- Table 69. Global MOF Porous Materials Average Price by Type (2021-2026) & (US\$/kg)
- Table 70. Global MOF Porous Materials Average Price by Type (2027-2032) & (US\$/kg)
- Table 71. Global MOF Porous Materials Sales Quantity by Application (2021-2026) & (Tons)
- Table 72. Global MOF Porous Materials Sales Quantity by Application (2027-2032) & (Tons)
- Table 73. Global MOF Porous Materials Consumption Value by Application (2021-2026) & (USD Million)
- Table 74. Global MOF Porous Materials Consumption Value by Application (2027-2032) & (USD Million)
- Table 75. Global MOF Porous Materials Average Price by Application (2021-2026) & (US\$/kg)
- Table 76. Global MOF Porous Materials Average Price by Application (2027-2032) & (US\$/kg)
- Table 77. North America MOF Porous Materials Sales Quantity by Type (2021-2026) &

(Tons)

Table 78. North America MOF Porous Materials Sales Quantity by Type (2027-2032) & (Tons)

Table 79. North America MOF Porous Materials Sales Quantity by Application (2021-2026) & (Tons)

Table 80. North America MOF Porous Materials Sales Quantity by Application (2027-2032) & (Tons)

Table 81. North America MOF Porous Materials Sales Quantity by Country (2021-2026) & (Tons)

Table 82. North America MOF Porous Materials Sales Quantity by Country (2027-2032) & (Tons)

Table 83. North America MOF Porous Materials Consumption Value by Country (2021-2026) & (USD Million)

Table 84. North America MOF Porous Materials Consumption Value by Country (2027-2032) & (USD Million)

Table 85. Europe MOF Porous Materials Sales Quantity by Type (2021-2026) & (Tons)

Table 86. Europe MOF Porous Materials Sales Quantity by Type (2027-2032) & (Tons)

Table 87. Europe MOF Porous Materials Sales Quantity by Application (2021-2026) & (Tons)

Table 88. Europe MOF Porous Materials Sales Quantity by Application (2027-2032) & (Tons)

Table 89. Europe MOF Porous Materials Sales Quantity by Country (2021-2026) & (Tons)

Table 90. Europe MOF Porous Materials Sales Quantity by Country (2027-2032) & (Tons)

Table 91. Europe MOF Porous Materials Consumption Value by Country (2021-2026) & (USD Million)

Table 92. Europe MOF Porous Materials Consumption Value by Country (2027-2032) & (USD Million)

Table 93. Asia-Pacific MOF Porous Materials Sales Quantity by Type (2021-2026) & (Tons)

Table 94. Asia-Pacific MOF Porous Materials Sales Quantity by Type (2027-2032) & (Tons)

Table 95. Asia-Pacific MOF Porous Materials Sales Quantity by Application (2021-2026) & (Tons)

Table 96. Asia-Pacific MOF Porous Materials Sales Quantity by Application (2027-2032) & (Tons)

Table 97. Asia-Pacific MOF Porous Materials Sales Quantity by Region (2021-2026) & (Tons)

Table 98. Asia-Pacific MOF Porous Materials Sales Quantity by Region (2027-2032) & (Tons)

Table 99. Asia-Pacific MOF Porous Materials Consumption Value by Region (2021-2026) & (USD Million)

Table 100. Asia-Pacific MOF Porous Materials Consumption Value by Region (2027-2032) & (USD Million)

Table 101. South America MOF Porous Materials Sales Quantity by Type (2021-2026) & (Tons)

Table 102. South America MOF Porous Materials Sales Quantity by Type (2027-2032) & (Tons)

Table 103. South America MOF Porous Materials Sales Quantity by Application (2021-2026) & (Tons)

Table 104. South America MOF Porous Materials Sales Quantity by Application (2027-2032) & (Tons)

Table 105. South America MOF Porous Materials Sales Quantity by Country (2021-2026) & (Tons)

Table 106. South America MOF Porous Materials Sales Quantity by Country (2027-2032) & (Tons)

Table 107. South America MOF Porous Materials Consumption Value by Country (2021-2026) & (USD Million)

Table 108. South America MOF Porous Materials Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Middle East & Africa MOF Porous Materials Sales Quantity by Type (2021-2026) & (Tons)

Table 110. Middle East & Africa MOF Porous Materials Sales Quantity by Type (2027-2032) & (Tons)

Table 111. Middle East & Africa MOF Porous Materials Sales Quantity by Application (2021-2026) & (Tons)

Table 112. Middle East & Africa MOF Porous Materials Sales Quantity by Application (2027-2032) & (Tons)

Table 113. Middle East & Africa MOF Porous Materials Sales Quantity by Country (2021-2026) & (Tons)

Table 114. Middle East & Africa MOF Porous Materials Sales Quantity by Country (2027-2032) & (Tons)

Table 115. Middle East & Africa MOF Porous Materials Consumption Value by Country (2021-2026) & (USD Million)

Table 116. Middle East & Africa MOF Porous Materials Consumption Value by Country (2027-2032) & (USD Million)

Table 117. MOF Porous Materials Raw Material

Table 118. Key Manufacturers of MOF Porous Materials Raw Materials

Table 119. MOF Porous Materials Typical Distributors

Table 120. MOF Porous Materials Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. MOF Porous Materials Picture

Figure 2. Global MOF Porous Materials Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global MOF Porous Materials Revenue Market Share by Type in 2025

Figure 4. Alkali Metal MOFs Examples

Figure 5. Alkali Earth Metal MOFs Examples

Figure 6. Transition Metal MOFs Examples

Figure 7. Others Examples

Figure 8. Global MOF Porous Materials Revenue by Topology, (USD Million), 2021 & 2025 & 2032

Figure 9. Global MOF Porous Materials Revenue Market Share by Topology in 2025

Figure 10. 1D Chain-like MOFs Examples

Figure 11. 2D Layered MOFs Examples

Figure 12. 3D Framework MOFs Examples

Figure 13. Global MOF Porous Materials Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 14. Global MOF Porous Materials Revenue Market Share by Application in 2025

Figure 15. Gas Storage & Separation Examples

Figure 16. Environmental & Water Treatment Examples

Figure 17. Catalysis & Chemical Processing Examples

Figure 18. Energy Storage & Conversion Examples

Figure 19. Others Examples

Figure 20. Global MOF Porous Materials Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 21. Global MOF Porous Materials Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 22. Global MOF Porous Materials Sales Quantity (2021-2032) & (Tons)

Figure 23. Global MOF Porous Materials Price (2021-2032) & (US\$/kg)

Figure 24. Global MOF Porous Materials Sales Quantity Market Share by Manufacturer in 2025

Figure 25. Global MOF Porous Materials Revenue Market Share by Manufacturer in 2025

Figure 26. Producer Shipments of MOF Porous Materials by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 27. Top 3 MOF Porous Materials Manufacturer (Revenue) Market Share in 2025

Figure 28. Top 6 MOF Porous Materials Manufacturer (Revenue) Market Share in 2025

Figure 29. Global MOF Porous Materials Sales Quantity Market Share by Region (2021-2032)

Figure 30. Global MOF Porous Materials Consumption Value Market Share by Region (2021-2032)

Figure 31. North America MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 32. Europe MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 33. Asia-Pacific MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 34. South America MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 35. Middle East & Africa MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 36. Global MOF Porous Materials Sales Quantity Market Share by Type (2021-2032)

Figure 37. Global MOF Porous Materials Consumption Value Market Share by Type (2021-2032)

Figure 38. Global MOF Porous Materials Average Price by Type (2021-2032) & (US\$/kg)

Figure 39. Global MOF Porous Materials Sales Quantity Market Share by Application (2021-2032)

Figure 40. Global MOF Porous Materials Revenue Market Share by Application (2021-2032)

Figure 41. Global MOF Porous Materials Average Price by Application (2021-2032) & (US\$/kg)

Figure 42. North America MOF Porous Materials Sales Quantity Market Share by Type (2021-2032)

Figure 43. North America MOF Porous Materials Sales Quantity Market Share by Application (2021-2032)

Figure 44. North America MOF Porous Materials Sales Quantity Market Share by Country (2021-2032)

Figure 45. North America MOF Porous Materials Consumption Value Market Share by Country (2021-2032)

Figure 46. United States MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 47. Canada MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 48. Mexico MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 49. Europe MOF Porous Materials Sales Quantity Market Share by Type (2021-2032)

Figure 50. Europe MOF Porous Materials Sales Quantity Market Share by Application (2021-2032)

Figure 51. Europe MOF Porous Materials Sales Quantity Market Share by Country (2021-2032)

Figure 52. Europe MOF Porous Materials Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 54. France MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific MOF Porous Materials Sales Quantity Market Share by Type (2021-2032)

Figure 59. Asia-Pacific MOF Porous Materials Sales Quantity Market Share by Application (2021-2032)

Figure 60. Asia-Pacific MOF Porous Materials Sales Quantity Market Share by Region (2021-2032)

Figure 61. Asia-Pacific MOF Porous Materials Consumption Value Market Share by Region (2021-2032)

Figure 62. China MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 63. Japan MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 64. South Korea MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 65. India MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 66. Southeast Asia MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

Figure 67. Australia MOF Porous Materials Consumption Value (2021-2032) & (USD Million)

- Figure 68. South America MOF Porous Materials Sales Quantity Market Share by Type (2021-2032)
- Figure 69. South America MOF Porous Materials Sales Quantity Market Share by Application (2021-2032)
- Figure 70. South America MOF Porous Materials Sales Quantity Market Share by Country (2021-2032)
- Figure 71. South America MOF Porous Materials Consumption Value Market Share by Country (2021-2032)
- Figure 72. Brazil MOF Porous Materials Consumption Value (2021-2032) & (USD Million)
- Figure 73. Argentina MOF Porous Materials Consumption Value (2021-2032) & (USD Million)
- Figure 74. Middle East & Africa MOF Porous Materials Sales Quantity Market Share by Type (2021-2032)
- Figure 75. Middle East & Africa MOF Porous Materials Sales Quantity Market Share by Application (2021-2032)
- Figure 76. Middle East & Africa MOF Porous Materials Sales Quantity Market Share by Country (2021-2032)
- Figure 77. Middle East & Africa MOF Porous Materials Consumption Value Market Share by Country (2021-2032)
- Figure 78. Turkey MOF Porous Materials Consumption Value (2021-2032) & (USD Million)
- Figure 79. Egypt MOF Porous Materials Consumption Value (2021-2032) & (USD Million)
- Figure 80. Saudi Arabia MOF Porous Materials Consumption Value (2021-2032) & (USD Million)
- Figure 81. South Africa MOF Porous Materials Consumption Value (2021-2032) & (USD Million)
- Figure 82. MOF Porous Materials Market Drivers
- Figure 83. MOF Porous Materials Market Restraints
- Figure 84. MOF Porous Materials Market Trends
- Figure 85. Porters Five Forces Analysis
- Figure 86. Manufacturing Cost Structure Analysis of MOF Porous Materials in 2025
- Figure 87. Manufacturing Process Analysis of MOF Porous Materials
- Figure 88. MOF Porous Materials Industrial Chain
- Figure 89. Sales Channel: Direct to End-User vs Distributors
- Figure 90. Direct Channel Pros & Cons
- Figure 91. Indirect Channel Pros & Cons
- Figure 92. Methodology

Figure 93. Research Process and Data Source

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