

Global Aluminium Metal Organic Framework (AI-MOF) Market Growth 2026-2032

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Abstracts

The global Aluminium Metal Organic Framework (AI-MOF) market size is predicted to grow from US\$ 83.05 million in 2025 to US\$ 133 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 2032.

An Aluminum Metal-Organic Framework (AI-MOF) is a highly porous, crystalline material made from aluminum ions/clusters linked by organic molecules (ligands), offering excellent thermal/chemical stability, low toxicity, high surface area, and tunable pores, making them ideal for gas storage/separation, catalysis, and sensing. They are essentially hybrid materials, combining inorganic metal nodes with organic linkers, creating 3D structures with vast internal spaces for various applications, often synthesized using cost-effective aluminum, a naturally abundant element.

In 2025, the global production of aluminum metal-organic framework (AI-MOF) is estimated at 6,686 tons, with an average price of US\$12,700 per ton. Gross profit margin can reach 50% to 70%.

The upstream of the aluminum metal-organic framework (MOF) industry chain mainly includes aluminum sources such as aluminum salts or alumina, organic ligands such as terephthalic acid and its derivatives, solvents, and additives. The purity, batch stability, and cost of upstream raw materials directly affect the consistency of the material's pore structure and the feasibility of large-scale preparation. Downstream is key to unlocking the industry's value, with applications concentrated in gas adsorption and separation, chemical and petrochemical processes, environmental remediation, and energy storage and catalysis. Demand is gradually expanding in industrial gas drying, carbon dioxide capture, volatile organic compound adsorption, refrigeration and dehumidification, and novel catalyst supports. Downstream customers include gas separation equipment

manufacturers, chemical and energy companies, environmental engineering companies, and new materials and research and transformation institutions. Their procurement decisions focus on adsorption capacity, cycle stability, moisture and heat resistance, and unit cost. In industrial applications, scalability and long-term performance degradation are particularly important. As applications move from the laboratory to engineering, downstream users prefer aluminum-based MOF materials with stable performance and proven demonstration capabilities.

The industry trend is shifting from high specific surface area to high selectivity and high stability. Material design is placing greater emphasis on water resistance and recyclability, while preparation processes are evolving towards lower costs, continuous processes, and green solvents. Key driving factors include carbon reduction and environmental policies, increased demand for industrial gas separation and purification, rising demand for high-performance porous materials from new energy and energy storage systems, and the cost and safety advantages of aluminum-based MOFs compared to other metal MOFs. Obstacles include ongoing optimization of large-scale production processes, long commercial validation cycles for some application scenarios, and cost and market competition pressures from established materials such as traditional molecular sieves and activated carbon.

LP Information, Inc. (LPI) ' newest research report, the “Aluminium Metal Organic Framework (Al-MOF) Industry Forecast” looks at past sales and reviews total world Aluminium Metal Organic Framework (Al-MOF) sales in 2025, providing a comprehensive analysis by region and market sector of projected Aluminium Metal Organic Framework (Al-MOF) sales for 2026 through 2032. With Aluminium Metal Organic Framework (Al-MOF) sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Aluminium Metal Organic Framework (Al-MOF) industry.

This Insight Report provides a comprehensive analysis of the global Aluminium Metal Organic Framework (Al-MOF) landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Aluminium Metal Organic Framework (Al-MOF) portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Aluminium Metal Organic Framework (Al-MOF) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Aluminium Metal Organic Framework (Al-MOF) and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Aluminium Metal Organic Framework (Al-MOF).

This report presents a comprehensive overview, market shares, and growth opportunities of Aluminium Metal Organic Framework (Al-MOF) market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

MIL Series (Materials Institute Lavoisier)

CAU Series (Christian-Albrechts-University)

DUT Series (Dresden University of Technology)

PCN Series (Porous Coordination Network)

Novel Structures

Segmentation by Node:

AIO? Octahedral Single Node

Al?O(COO)? Trinuclear Cluster

Al??O?(OH)??(COO)?? Dodecenclear Cluster

Al?/Al? Mixed Node

AIO? Tetrahedral Node

Chain-Like AIO? Node

Segmentation by Structure:

3D Network Type

2D Layered Type

1D Chain Type

Segmentation by Aperture Range:

Less than 0.7 nm

0.7-2 nm

2-50 nm

Segmentation by Application:

Gas Adsorption and Separation

CO₂ Capture

Catalysis

Drug Delivery

Environmental Remediation

Energy Storage

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

BASF

Promethean Particles

Nuada

novoMOF

NuMat Technologies

Merck KGaA

Strem Chemicals

American Elements

CD Bioparticles

Nanoshel

HELIOS SciTech

NanoResearch Elements

Alfa Chemistry

ChemSoon

Jiangsu XFNANO Materials Tech

Shanghai Aladdin Biochemical Technology

Shanghai Macklin Biochemical

KARGEN

NanoChemazone

INSCX

HiYKA

Green Science Alliance

Key Questions Addressed in this Report

What is the 10-year outlook for the global Aluminium Metal Organic Framework (Al-MOF) market?

What factors are driving Aluminium Metal Organic Framework (Al-MOF) market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Aluminium Metal Organic Framework (Al-MOF) market opportunities vary by end market size?

How does Aluminium Metal Organic Framework (Al-MOF) break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Aluminium Metal Organic Framework (AI-MOF) Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Aluminium Metal Organic Framework (AI-MOF) by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Aluminium Metal Organic Framework (AI-MOF) by Country/Region, 2021, 2025 & 2032

2.2 Aluminium Metal Organic Framework (AI-MOF) Segment by Type

- 2.2.1 MIL Series (Materials Institute Lavoisier)
- 2.2.2 CAU Series (Christian-Albrechts-University)
- 2.2.3 DUT Series (Dresden University of Technology)
- 2.2.4 PCN Series (Porous Coordination Network)
- 2.2.5 Novel Structures
- 2.2.6 Aluminium Metal Organic Framework (AI-MOF) Sales by Type
 - 2.2.6.1 Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global Aluminium Metal Organic Framework (AI-MOF) Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Type (2021-2026)

2.3 Aluminium Metal Organic Framework (AI-MOF) Segment by Node

- 2.3.1 AIO? Octahedral Single Node
- 2.3.2 AI?O(COO)? Trinuclear Cluster
- 2.3.3 AI??O?(OH)??(COO)?? Dodecenclear Cluster
- 2.3.4 AI?/AI? Mixed Node

- 2.3.5 AIO? Tetrahedral Node
- 2.3.6 Chain-Like AIO? Node
- 2.3.7 Aluminium Metal Organic Framework (AI-MOF) Sales by Node
 - 2.3.7.1 Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Node (2021-2026)
 - 2.3.7.2 Global Aluminium Metal Organic Framework (AI-MOF) Revenue and Market Share by Node (2021-2026)
 - 2.3.7.3 Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Node (2021-2026)
- 2.4 Aluminium Metal Organic Framework (AI-MOF) Segment by Structure
 - 2.4.1 3D Network Type
 - 2.4.2 2D Layered Type
 - 2.4.3 1D Chain Type
 - 2.4.4 Aluminium Metal Organic Framework (AI-MOF) Sales by Structure
 - 2.4.4.1 Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Structure (2021-2026)
 - 2.4.4.2 Global Aluminium Metal Organic Framework (AI-MOF) Revenue and Market Share by Structure (2021-2026)
 - 2.4.4.3 Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Structure (2021-2026)
- 2.5 Aluminium Metal Organic Framework (AI-MOF) Segment by Aperture Range
 - 2.5.1 Less than 0.7 nm
 - 2.5.2 0.7-2 nm
 - 2.5.3 2-50 nm
 - 2.5.4 Aluminium Metal Organic Framework (AI-MOF) Sales by Aperture Range
 - 2.5.4.1 Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Aperture Range (2021-2026)
 - 2.5.4.2 Global Aluminium Metal Organic Framework (AI-MOF) Revenue and Market Share by Aperture Range (2021-2026)
 - 2.5.4.3 Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Aperture Range (2021-2026)
- 2.6 Aluminium Metal Organic Framework (AI-MOF) Segment by Application
 - 2.6.1 Gas Adsorption and Separation
 - 2.6.2 CO₂ Capture
 - 2.6.3 Catalysis
 - 2.6.4 Drug Delivery
 - 2.6.5 Environmental Remediation
 - 2.6.6 Energy Storage
 - 2.6.7 Aluminium Metal Organic Framework (AI-MOF) Sales by Application

2.6.7.1 Global Aluminium Metal Organic Framework (AI-MOF) Sale Market Share by Application (2021-2026)

2.6.7.2 Global Aluminium Metal Organic Framework (AI-MOF) Revenue and Market Share by Application (2021-2026)

2.6.7.3 Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Aluminium Metal Organic Framework (AI-MOF) Breakdown Data by Company

3.1.1 Global Aluminium Metal Organic Framework (AI-MOF) Annual Sales by Company (2021-2026)

3.1.2 Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Company (2021-2026)

3.2 Global Aluminium Metal Organic Framework (AI-MOF) Annual Revenue by Company (2021-2026)

3.2.1 Global Aluminium Metal Organic Framework (AI-MOF) Revenue by Company (2021-2026)

3.2.2 Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Company (2021-2026)

3.3 Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Company

3.4 Key Manufacturers Aluminium Metal Organic Framework (AI-MOF) Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Aluminium Metal Organic Framework (AI-MOF) Product Location Distribution

3.4.2 Players Aluminium Metal Organic Framework (AI-MOF) Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR ALUMINIUM METAL ORGANIC FRAMEWORK (AL-MOF) BY GEOGRAPHIC REGION

4.1 World Historic Aluminium Metal Organic Framework (AI-MOF) Market Size by Geographic Region (2021-2026)

4.1.1 Global Aluminium Metal Organic Framework (AI-MOF) Annual Sales by

Geographic Region (2021-2026)

4.1.2 Global Aluminium Metal Organic Framework (AI-MOF) Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Aluminium Metal Organic Framework (AI-MOF) Market Size by Country/Region (2021-2026)

4.2.1 Global Aluminium Metal Organic Framework (AI-MOF) Annual Sales by Country/Region (2021-2026)

4.2.2 Global Aluminium Metal Organic Framework (AI-MOF) Annual Revenue by Country/Region (2021-2026)

4.3 Americas Aluminium Metal Organic Framework (AI-MOF) Sales Growth

4.4 APAC Aluminium Metal Organic Framework (AI-MOF) Sales Growth

4.5 Europe Aluminium Metal Organic Framework (AI-MOF) Sales Growth

4.6 Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales Growth

5 AMERICAS

5.1 Americas Aluminium Metal Organic Framework (AI-MOF) Sales by Country

5.1.1 Americas Aluminium Metal Organic Framework (AI-MOF) Sales by Country (2021-2026)

5.1.2 Americas Aluminium Metal Organic Framework (AI-MOF) Revenue by Country (2021-2026)

5.2 Americas Aluminium Metal Organic Framework (AI-MOF) Sales by Type (2021-2026)

5.3 Americas Aluminium Metal Organic Framework (AI-MOF) Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Aluminium Metal Organic Framework (AI-MOF) Sales by Region

6.1.1 APAC Aluminium Metal Organic Framework (AI-MOF) Sales by Region (2021-2026)

6.1.2 APAC Aluminium Metal Organic Framework (AI-MOF) Revenue by Region (2021-2026)

6.2 APAC Aluminium Metal Organic Framework (AI-MOF) Sales by Type (2021-2026)

6.3 APAC Aluminium Metal Organic Framework (AI-MOF) Sales by Application

(2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Aluminium Metal Organic Framework (AI-MOF) by Country

7.1.1 Europe Aluminium Metal Organic Framework (AI-MOF) Sales by Country
(2021-2026)

7.1.2 Europe Aluminium Metal Organic Framework (AI-MOF) Revenue by Country
(2021-2026)

7.2 Europe Aluminium Metal Organic Framework (AI-MOF) Sales by Type (2021-2026)

7.3 Europe Aluminium Metal Organic Framework (AI-MOF) Sales by Application
(2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) by Country

8.1.1 Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales by
Country (2021-2026)

8.1.2 Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Revenue by
Country (2021-2026)

8.2 Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales by Type
(2021-2026)

8.3 Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales by
Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Aluminium Metal Organic Framework (Al-MOF)

10.3 Manufacturing Process Analysis of Aluminium Metal Organic Framework (Al-MOF)

10.4 Industry Chain Structure of Aluminium Metal Organic Framework (Al-MOF)

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Aluminium Metal Organic Framework (Al-MOF) Distributors

11.3 Aluminium Metal Organic Framework (Al-MOF) Customer

12 WORLD FORECAST REVIEW FOR ALUMINIUM METAL ORGANIC FRAMEWORK (AL-MOF) BY GEOGRAPHIC REGION

12.1 Global Aluminium Metal Organic Framework (Al-MOF) Market Size Forecast by Region

12.1.1 Global Aluminium Metal Organic Framework (Al-MOF) Forecast by Region (2027-2032)

12.1.2 Global Aluminium Metal Organic Framework (Al-MOF) Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Aluminium Metal Organic Framework (Al-MOF) Forecast by Type

(2027-2032)

12.7 Global Aluminium Metal Organic Framework (AI-MOF) Forecast by Application
(2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 BASF

13.1.1 BASF Company Information

13.1.2 BASF Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.1.3 BASF Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 BASF Main Business Overview

13.1.5 BASF Latest Developments

13.2 Promethean Particles

13.2.1 Promethean Particles Company Information

13.2.2 Promethean Particles Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.2.3 Promethean Particles Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Promethean Particles Main Business Overview

13.2.5 Promethean Particles Latest Developments

13.3 Nuada

13.3.1 Nuada Company Information

13.3.2 Nuada Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.3.3 Nuada Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Nuada Main Business Overview

13.3.5 Nuada Latest Developments

13.4 novoMOF

13.4.1 novoMOF Company Information

13.4.2 novoMOF Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.4.3 novoMOF Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 novoMOF Main Business Overview

13.4.5 novoMOF Latest Developments

13.5 NuMat Technologies

- 13.5.1 NuMat Technologies Company Information
- 13.5.2 NuMat Technologies Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications
- 13.5.3 NuMat Technologies Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 NuMat Technologies Main Business Overview
- 13.5.5 NuMat Technologies Latest Developments
- 13.6 Merck KGaA
 - 13.6.1 Merck KGaA Company Information
 - 13.6.2 Merck KGaA Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications
 - 13.6.3 Merck KGaA Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Merck KGaA Main Business Overview
 - 13.6.5 Merck KGaA Latest Developments
- 13.7 Strem Chemicals
 - 13.7.1 Strem Chemicals Company Information
 - 13.7.2 Strem Chemicals Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications
 - 13.7.3 Strem Chemicals Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Strem Chemicals Main Business Overview
 - 13.7.5 Strem Chemicals Latest Developments
- 13.8 American Elements
 - 13.8.1 American Elements Company Information
 - 13.8.2 American Elements Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications
 - 13.8.3 American Elements Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 American Elements Main Business Overview
 - 13.8.5 American Elements Latest Developments
- 13.9 CD Bioparticles
 - 13.9.1 CD Bioparticles Company Information
 - 13.9.2 CD Bioparticles Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications
 - 13.9.3 CD Bioparticles Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 CD Bioparticles Main Business Overview
 - 13.9.5 CD Bioparticles Latest Developments

13.10 Nanoshel

13.10.1 Nanoshel Company Information

13.10.2 Nanoshel Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.10.3 Nanoshel Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Nanoshel Main Business Overview

13.10.5 Nanoshel Latest Developments

13.11 HELIOS SciTech

13.11.1 HELIOS SciTech Company Information

13.11.2 HELIOS SciTech Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.11.3 HELIOS SciTech Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 HELIOS SciTech Main Business Overview

13.11.5 HELIOS SciTech Latest Developments

13.12 NanoResearch Elements

13.12.1 NanoResearch Elements Company Information

13.12.2 NanoResearch Elements Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.12.3 NanoResearch Elements Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 NanoResearch Elements Main Business Overview

13.12.5 NanoResearch Elements Latest Developments

13.13 Alfa Chemistry

13.13.1 Alfa Chemistry Company Information

13.13.2 Alfa Chemistry Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.13.3 Alfa Chemistry Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Alfa Chemistry Main Business Overview

13.13.5 Alfa Chemistry Latest Developments

13.14 ChemSoon

13.14.1 ChemSoon Company Information

13.14.2 ChemSoon Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.14.3 ChemSoon Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 ChemSoon Main Business Overview

- 13.14.5 ChemSoon Latest Developments
- 13.15 Jiangsu XFNANO Materials Tech
 - 13.15.1 Jiangsu XFNANO Materials Tech Company Information
 - 13.15.2 Jiangsu XFNANO Materials Tech Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications
 - 13.15.3 Jiangsu XFNANO Materials Tech Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Jiangsu XFNANO Materials Tech Main Business Overview
 - 13.15.5 Jiangsu XFNANO Materials Tech Latest Developments
- 13.16 Shanghai Aladdin Biochemical Technology
 - 13.16.1 Shanghai Aladdin Biochemical Technology Company Information
 - 13.16.2 Shanghai Aladdin Biochemical Technology Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications
 - 13.16.3 Shanghai Aladdin Biochemical Technology Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 Shanghai Aladdin Biochemical Technology Main Business Overview
 - 13.16.5 Shanghai Aladdin Biochemical Technology Latest Developments
- 13.17 Shanghai Macklin Biochemical
 - 13.17.1 Shanghai Macklin Biochemical Company Information
 - 13.17.2 Shanghai Macklin Biochemical Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications
 - 13.17.3 Shanghai Macklin Biochemical Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.17.4 Shanghai Macklin Biochemical Main Business Overview
 - 13.17.5 Shanghai Macklin Biochemical Latest Developments
- 13.18 KARGEN
 - 13.18.1 KARGEN Company Information
 - 13.18.2 KARGEN Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications
 - 13.18.3 KARGEN Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.18.4 KARGEN Main Business Overview
 - 13.18.5 KARGEN Latest Developments
- 13.19 NanoChemazone
 - 13.19.1 NanoChemazone Company Information
 - 13.19.2 NanoChemazone Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications
 - 13.19.3 NanoChemazone Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 NanoChemazone Main Business Overview

13.19.5 NanoChemazone Latest Developments

13.20 INSCX

13.20.1 INSCX Company Information

13.20.2 INSCX Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.20.3 INSCX Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 INSCX Main Business Overview

13.20.5 INSCX Latest Developments

13.21 HiYKA

13.21.1 HiYKA Company Information

13.21.2 HiYKA Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.21.3 HiYKA Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.21.4 HiYKA Main Business Overview

13.21.5 HiYKA Latest Developments

13.22 Green Science Alliance

13.22.1 Green Science Alliance Company Information

13.22.2 Green Science Alliance Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

13.22.3 Green Science Alliance Aluminium Metal Organic Framework (AI-MOF) Sales, Revenue, Price and Gross Margin (2021-2026)

13.22.4 Green Science Alliance Main Business Overview

13.22.5 Green Science Alliance Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Aluminium Metal Organic Framework (AI-MOF) Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Aluminium Metal Organic Framework (AI-MOF) Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of MIL Series (Materials Institute Lavoisier)
- Table 4. Major Players of CAU Series (Christian-Albrechts-University)
- Table 5. Major Players of DUT Series (Dresden University of Technology)
- Table 6. Major Players of PCN Series (Porous Coordination Network)
- Table 7. Major Players of Novel Structures
- Table 8. Global Aluminium Metal Organic Framework (AI-MOF) Sales by Type (2021-2026) & (Tons)
- Table 9. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Type (2021-2026)
- Table 10. Global Aluminium Metal Organic Framework (AI-MOF) Revenue by Type (2021-2026) & (\$ million)
- Table 11. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Type (2021-2026)
- Table 12. Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Type (2021-2026) & (US\$/Ton)
- Table 13. Major Players of AIO? Octahedral Single Node
- Table 14. Major Players of AI?O(COO)? Trinuclear Cluster
- Table 15. Major Players of AI??O?(OH)??(COO)?? Dodecenclear Cluster
- Table 16. Major Players of AI?/AI? Mixed Node
- Table 17. Major Players of AIO? Tetrahedral Node
- Table 18. Major Players of Chain-Like AIO? Node
- Table 19. Global Aluminium Metal Organic Framework (AI-MOF) Sales by Node (2021-2026) & (Tons)
- Table 20. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Node (2021-2026)
- Table 21. Global Aluminium Metal Organic Framework (AI-MOF) Revenue by Node (2021-2026) & (\$ million)
- Table 22. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Node (2021-2026)
- Table 23. Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Node (2021-2026) & (US\$/Ton)

Table 24. Major Players of 3D Network Type

Table 25. Major Players of 2D Layered Type

Table 26. Major Players of 1D Chain Type

Table 27. Global Aluminium Metal Organic Framework (AI-MOF) Sales by Structure (2021-2026) & (Tons)

Table 28. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Structure (2021-2026)

Table 29. Global Aluminium Metal Organic Framework (AI-MOF) Revenue by Structure (2021-2026) & (\$ million)

Table 30. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Structure (2021-2026)

Table 31. Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Structure (2021-2026) & (US\$/Ton)

Table 32. Major Players of Less than 0.7 nm

Table 33. Major Players of 0.7-2 nm

Table 34. Major Players of 2-50 nm

Table 35. Global Aluminium Metal Organic Framework (AI-MOF) Sales by Aperture Range (2021-2026) & (Tons)

Table 36. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Aperture Range (2021-2026)

Table 37. Global Aluminium Metal Organic Framework (AI-MOF) Revenue by Aperture Range (2021-2026) & (\$ million)

Table 38. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Aperture Range (2021-2026)

Table 39. Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Aperture Range (2021-2026) & (US\$/Ton)

Table 40. Global Aluminium Metal Organic Framework (AI-MOF) Sale by Application (2021-2026) & (Tons)

Table 41. Global Aluminium Metal Organic Framework (AI-MOF) Sale Market Share by Application (2021-2026)

Table 42. Global Aluminium Metal Organic Framework (AI-MOF) Revenue by Application (2021-2026) & (\$ million)

Table 43. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Application (2021-2026)

Table 44. Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Application (2021-2026) & (US\$/Ton)

Table 45. Global Aluminium Metal Organic Framework (AI-MOF) Sales by Company (2021-2026) & (Tons)

Table 46. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by

Company (2021-2026)

Table 47. Global Aluminium Metal Organic Framework (AI-MOF) Revenue by Company (2021-2026) & (\$ millions)

Table 48. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Company (2021-2026)

Table 49. Global Aluminium Metal Organic Framework (AI-MOF) Sale Price by Company (2021-2026) & (US\$/Ton)

Table 50. Key Manufacturers Aluminium Metal Organic Framework (AI-MOF) Producing Area Distribution and Sales Area

Table 51. Players Aluminium Metal Organic Framework (AI-MOF) Products Offered

Table 52. Aluminium Metal Organic Framework (AI-MOF) Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 53. New Products and Potential Entrants

Table 54. Market M&A Activity & Strategy

Table 55. Global Aluminium Metal Organic Framework (AI-MOF) Sales by Geographic Region (2021-2026) & (Tons)

Table 56. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share Geographic Region (2021-2026)

Table 57. Global Aluminium Metal Organic Framework (AI-MOF) Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 58. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Geographic Region (2021-2026)

Table 59. Global Aluminium Metal Organic Framework (AI-MOF) Sales by Country/Region (2021-2026) & (Tons)

Table 60. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Country/Region (2021-2026)

Table 61. Global Aluminium Metal Organic Framework (AI-MOF) Revenue by Country/Region (2021-2026) & (\$ millions)

Table 62. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Country/Region (2021-2026)

Table 63. Americas Aluminium Metal Organic Framework (AI-MOF) Sales by Country (2021-2026) & (Tons)

Table 64. Americas Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Country (2021-2026)

Table 65. Americas Aluminium Metal Organic Framework (AI-MOF) Revenue by Country (2021-2026) & (\$ millions)

Table 66. Americas Aluminium Metal Organic Framework (AI-MOF) Sales by Type (2021-2026) & (Tons)

Table 67. Americas Aluminium Metal Organic Framework (AI-MOF) Sales by

Application (2021-2026) & (Tons)

Table 68. APAC Aluminium Metal Organic Framework (AI-MOF) Sales by Region (2021-2026) & (Tons)

Table 69. APAC Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Region (2021-2026)

Table 70. APAC Aluminium Metal Organic Framework (AI-MOF) Revenue by Region (2021-2026) & (\$ millions)

Table 71. APAC Aluminium Metal Organic Framework (AI-MOF) Sales by Type (2021-2026) & (Tons)

Table 72. APAC Aluminium Metal Organic Framework (AI-MOF) Sales by Application (2021-2026) & (Tons)

Table 73. Europe Aluminium Metal Organic Framework (AI-MOF) Sales by Country (2021-2026) & (Tons)

Table 74. Europe Aluminium Metal Organic Framework (AI-MOF) Revenue by Country (2021-2026) & (\$ millions)

Table 75. Europe Aluminium Metal Organic Framework (AI-MOF) Sales by Type (2021-2026) & (Tons)

Table 76. Europe Aluminium Metal Organic Framework (AI-MOF) Sales by Application (2021-2026) & (Tons)

Table 77. Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales by Country (2021-2026) & (Tons)

Table 78. Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Country (2021-2026)

Table 79. Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales by Type (2021-2026) & (Tons)

Table 80. Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales by Application (2021-2026) & (Tons)

Table 81. Key Market Drivers & Growth Opportunities of Aluminium Metal Organic Framework (AI-MOF)

Table 82. Key Market Challenges & Risks of Aluminium Metal Organic Framework (AI-MOF)

Table 83. Key Industry Trends of Aluminium Metal Organic Framework (AI-MOF)

Table 84. Aluminium Metal Organic Framework (AI-MOF) Raw Material

Table 85. Key Suppliers of Raw Materials

Table 86. Aluminium Metal Organic Framework (AI-MOF) Distributors List

Table 87. Aluminium Metal Organic Framework (AI-MOF) Customer List

Table 88. Global Aluminium Metal Organic Framework (AI-MOF) Sales Forecast by Region (2027-2032) & (Tons)

Table 89. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Forecast by

Region (2027-2032) & (\$ millions)

Table 90. Americas Aluminium Metal Organic Framework (AI-MOF) Sales Forecast by Country (2027-2032) & (Tons)

Table 91. Americas Aluminium Metal Organic Framework (AI-MOF) Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 92. APAC Aluminium Metal Organic Framework (AI-MOF) Sales Forecast by Region (2027-2032) & (Tons)

Table 93. APAC Aluminium Metal Organic Framework (AI-MOF) Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 94. Europe Aluminium Metal Organic Framework (AI-MOF) Sales Forecast by Country (2027-2032) & (Tons)

Table 95. Europe Aluminium Metal Organic Framework (AI-MOF) Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 96. Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales Forecast by Country (2027-2032) & (Tons)

Table 97. Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 98. Global Aluminium Metal Organic Framework (AI-MOF) Sales Forecast by Type (2027-2032) & (Tons)

Table 99. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 100. Global Aluminium Metal Organic Framework (AI-MOF) Sales Forecast by Application (2027-2032) & (Tons)

Table 101. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 102. BASF Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 103. BASF Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 104. BASF Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 105. BASF Main Business

Table 106. BASF Latest Developments

Table 107. Promethean Particles Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 108. Promethean Particles Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 109. Promethean Particles Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 110. Promethean Particles Main Business

Table 111. Promethean Particles Latest Developments

Table 112. Nuada Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 113. Nuada Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 114. Nuada Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 115. Nuada Main Business

Table 116. Nuada Latest Developments

Table 117. novoMOF Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 118. novoMOF Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 119. novoMOF Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 120. novoMOF Main Business

Table 121. novoMOF Latest Developments

Table 122. NuMat Technologies Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 123. NuMat Technologies Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 124. NuMat Technologies Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 125. NuMat Technologies Main Business

Table 126. NuMat Technologies Latest Developments

Table 127. Merck KGaA Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 128. Merck KGaA Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 129. Merck KGaA Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 130. Merck KGaA Main Business

Table 131. Merck KGaA Latest Developments

Table 132. Strem Chemicals Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 133. Strem Chemicals Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 134. Strem Chemicals Aluminium Metal Organic Framework (AI-MOF) Sales

(Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 135. Strem Chemicals Main Business

Table 136. Strem Chemicals Latest Developments

Table 137. American Elements Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 138. American Elements Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 139. American Elements Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 140. American Elements Main Business

Table 141. American Elements Latest Developments

Table 142. CD Bioparticles Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 143. CD Bioparticles Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 144. CD Bioparticles Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 145. CD Bioparticles Main Business

Table 146. CD Bioparticles Latest Developments

Table 147. Nanoshel Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 148. Nanoshel Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 149. Nanoshel Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 150. Nanoshel Main Business

Table 151. Nanoshel Latest Developments

Table 152. HELIOS SciTech Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 153. HELIOS SciTech Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 154. HELIOS SciTech Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 155. HELIOS SciTech Main Business

Table 156. HELIOS SciTech Latest Developments

Table 157. NanoResearch Elements Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 158. NanoResearch Elements Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 159. NanoResearch Elements Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 160. NanoResearch Elements Main Business

Table 161. NanoResearch Elements Latest Developments

Table 162. Alfa Chemistry Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 163. Alfa Chemistry Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 164. Alfa Chemistry Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 165. Alfa Chemistry Main Business

Table 166. Alfa Chemistry Latest Developments

Table 167. ChemSoon Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 168. ChemSoon Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 169. ChemSoon Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 170. ChemSoon Main Business

Table 171. ChemSoon Latest Developments

Table 172. Jiangsu XFNANO Materials Tech Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 173. Jiangsu XFNANO Materials Tech Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 174. Jiangsu XFNANO Materials Tech Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 175. Jiangsu XFNANO Materials Tech Main Business

Table 176. Jiangsu XFNANO Materials Tech Latest Developments

Table 177. Shanghai Aladdin Biochemical Technology Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 178. Shanghai Aladdin Biochemical Technology Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 179. Shanghai Aladdin Biochemical Technology Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 180. Shanghai Aladdin Biochemical Technology Main Business

Table 181. Shanghai Aladdin Biochemical Technology Latest Developments

Table 182. Shanghai Macklin Biochemical Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 183. Shanghai Macklin Biochemical Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 184. Shanghai Macklin Biochemical Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 185. Shanghai Macklin Biochemical Main Business

Table 186. Shanghai Macklin Biochemical Latest Developments

Table 187. KARGEN Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 188. KARGEN Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 189. KARGEN Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 190. KARGEN Main Business

Table 191. KARGEN Latest Developments

Table 192. NanoChemazone Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 193. NanoChemazone Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 194. NanoChemazone Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 195. NanoChemazone Main Business

Table 196. NanoChemazone Latest Developments

Table 197. INSCX Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 198. INSCX Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 199. INSCX Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 200. INSCX Main Business

Table 201. INSCX Latest Developments

Table 202. HiYKA Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 203. HiYKA Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 204. HiYKA Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 205. HiYKA Main Business

Table 206. HiYKA Latest Developments

Table 207. Green Science Alliance Basic Information, Aluminium Metal Organic Framework (AI-MOF) Manufacturing Base, Sales Area and Its Competitors

Table 208. Green Science Alliance Aluminium Metal Organic Framework (AI-MOF) Product Portfolios and Specifications

Table 209. Green Science Alliance Aluminium Metal Organic Framework (AI-MOF) Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 210. Green Science Alliance Main Business

Table 211. Green Science Alliance Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Aluminium Metal Organic Framework (AI-MOF)
- Figure 2. Aluminium Metal Organic Framework (AI-MOF) Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Aluminium Metal Organic Framework (AI-MOF) Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Aluminium Metal Organic Framework (AI-MOF) Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Country/Region (2025)
- Figure 10. Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of MIL Series (Materials Institute Lavoisier)
- Figure 12. Product Picture of CAU Series (Christian-Albrechts-University)
- Figure 13. Product Picture of DUT Series (Dresden University of Technology)
- Figure 14. Product Picture of PCN Series (Porous Coordination Network)
- Figure 15. Product Picture of Novel Structures
- Figure 16. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Type in 2026
- Figure 17. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Type (2021-2026)
- Figure 18. Product Picture of AIO? Octahedral Single Node
- Figure 19. Product Picture of Al?O(COO)? Trinuclear Cluster
- Figure 20. Product Picture of Al??O?(OH)??(COO)?? Dodecenclear Cluster
- Figure 21. Product Picture of Al?/Al? Mixed Node
- Figure 22. Product Picture of AIO? Tetrahedral Node
- Figure 23. Product Picture of Chain-Like AIO? Node
- Figure 24. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Node in 2026
- Figure 25. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Node (2021-2026)
- Figure 26. Product Picture of 3D Network Type

Figure 27. Product Picture of 2D Layered Type

Figure 28. Product Picture of 1D Chain Type

Figure 29. Global Aluminium Metal Organic Framework (Al-MOF) Sales Market Share by Structure in 2026

Figure 30. Global Aluminium Metal Organic Framework (Al-MOF) Revenue Market Share by Structure (2021-2026)

Figure 31. Product Picture of Less than 0.7 nm

Figure 32. Product Picture of 0.7-2 nm

Figure 33. Product Picture of 2-50 nm

Figure 34. Global Aluminium Metal Organic Framework (Al-MOF) Sales Market Share by Aperture Range in 2026

Figure 35. Global Aluminium Metal Organic Framework (Al-MOF) Revenue Market Share by Aperture Range (2021-2026)

Figure 36. Aluminium Metal Organic Framework (Al-MOF) Consumed in Gas Adsorption and Separation

Figure 37. Global Aluminium Metal Organic Framework (Al-MOF) Market: Gas Adsorption and Separation (2021-2026) & (Tons)

Figure 38. Aluminium Metal Organic Framework (Al-MOF) Consumed in CO₂ Capture

Figure 39. Global Aluminium Metal Organic Framework (Al-MOF) Market: CO₂ Capture (2021-2026) & (Tons)

Figure 40. Aluminium Metal Organic Framework (Al-MOF) Consumed in Catalysis

Figure 41. Global Aluminium Metal Organic Framework (Al-MOF) Market: Catalysis (2021-2026) & (Tons)

Figure 42. Aluminium Metal Organic Framework (Al-MOF) Consumed in Drug Delivery

Figure 43. Global Aluminium Metal Organic Framework (Al-MOF) Market: Drug Delivery (2021-2026) & (Tons)

Figure 44. Aluminium Metal Organic Framework (Al-MOF) Consumed in Environmental Remediation

Figure 45. Global Aluminium Metal Organic Framework (Al-MOF) Market: Environmental Remediation (2021-2026) & (Tons)

Figure 46. Aluminium Metal Organic Framework (Al-MOF) Consumed in Energy Storage

Figure 47. Global Aluminium Metal Organic Framework (Al-MOF) Market: Energy Storage (2021-2026) & (Tons)

Figure 48. Global Aluminium Metal Organic Framework (Al-MOF) Sale Market Share by Application (2025)

Figure 49. Global Aluminium Metal Organic Framework (Al-MOF) Revenue Market Share by Application in 2026

Figure 50. Aluminium Metal Organic Framework (Al-MOF) Sales by Company in 2026

(Tons)

Figure 51. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Company in 2026

Figure 52. Aluminium Metal Organic Framework (AI-MOF) Revenue by Company in 2026 (\$ millions)

Figure 53. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Company in 2026

Figure 54. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Geographic Region (2021-2026)

Figure 55. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Geographic Region in 2026

Figure 56. Americas Aluminium Metal Organic Framework (AI-MOF) Sales 2021-2026 (Tons)

Figure 57. Americas Aluminium Metal Organic Framework (AI-MOF) Revenue 2021-2026 (\$ millions)

Figure 58. APAC Aluminium Metal Organic Framework (AI-MOF) Sales 2021-2026 (Tons)

Figure 59. APAC Aluminium Metal Organic Framework (AI-MOF) Revenue 2021-2026 (\$ millions)

Figure 60. Europe Aluminium Metal Organic Framework (AI-MOF) Sales 2021-2026 (Tons)

Figure 61. Europe Aluminium Metal Organic Framework (AI-MOF) Revenue 2021-2026 (\$ millions)

Figure 62. Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales 2021-2026 (Tons)

Figure 63. Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Revenue 2021-2026 (\$ millions)

Figure 64. Americas Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Country in 2026

Figure 65. Americas Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Country (2021-2026)

Figure 66. Americas Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Type (2021-2026)

Figure 67. Americas Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Application (2021-2026)

Figure 68. United States Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 69. Canada Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 70. Mexico Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 71. Brazil Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 72. APAC Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Region in 2026

Figure 73. APAC Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Region (2021-2026)

Figure 74. APAC Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Type (2021-2026)

Figure 75. APAC Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Application (2021-2026)

Figure 76. China Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 77. Japan Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 78. South Korea Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 79. Southeast Asia Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 80. India Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 81. Australia Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 82. China Taiwan Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 83. Europe Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Country in 2026

Figure 84. Europe Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share by Country (2021-2026)

Figure 85. Europe Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Type (2021-2026)

Figure 86. Europe Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Application (2021-2026)

Figure 87. Germany Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 88. France Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 89. UK Aluminium Metal Organic Framework (AI-MOF) Revenue Growth

2021-2026 (\$ millions)

Figure 90. Italy Aluminium Metal Organic Framework (AI-MOF) Revenue Growth

2021-2026 (\$ millions)

Figure 91. Russia Aluminium Metal Organic Framework (AI-MOF) Revenue Growth

2021-2026 (\$ millions)

Figure 92. Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Country (2021-2026)

Figure 93. Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Type (2021-2026)

Figure 94. Middle East & Africa Aluminium Metal Organic Framework (AI-MOF) Sales Market Share by Application (2021-2026)

Figure 95. Egypt Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 96. South Africa Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 97. Israel Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 98. Turkey Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 99. GCC Countries Aluminium Metal Organic Framework (AI-MOF) Revenue Growth 2021-2026 (\$ millions)

Figure 100. Manufacturing Cost Structure Analysis of Aluminium Metal Organic Framework (AI-MOF) in 2026

Figure 101. Manufacturing Process Analysis of Aluminium Metal Organic Framework (AI-MOF)

Figure 102. Industry Chain Structure of Aluminium Metal Organic Framework (AI-MOF)

Figure 103. Channels of Distribution

Figure 104. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Forecast by Region (2027-2032)

Figure 105. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share Forecast by Region (2027-2032)

Figure 106. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share Forecast by Type (2027-2032)

Figure 107. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share Forecast by Type (2027-2032)

Figure 108. Global Aluminium Metal Organic Framework (AI-MOF) Sales Market Share Forecast by Application (2027-2032)

Figure 109. Global Aluminium Metal Organic Framework (AI-MOF) Revenue Market Share Forecast by Application (2027-2032)

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