

# Global Aluminium Metal Organic Framework (AI-MOF) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Aluminium Metal Organic Framework (AI-MOF) market size is expected to reach \$ 137 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

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.

This report studies the global Aluminium Metal Organic Framework (Al-MOF) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aluminium Metal Organic Framework (Al-MOF) 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 Aluminium Metal Organic Framework (Al-MOF) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Aluminium Metal Organic Framework (Al-MOF) total production and demand, 2021-2032, (Tons)

Global Aluminium Metal Organic Framework (Al-MOF) total production value, 2021-2032, (USD Million)

Global Aluminium Metal Organic Framework (Al-MOF) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Aluminium Metal Organic Framework (Al-MOF) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Aluminium Metal Organic Framework (Al-MOF) domestic production, consumption, key domestic manufacturers and share

Global Aluminium Metal Organic Framework (Al-MOF) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Aluminium Metal Organic Framework (Al-MOF) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Aluminium Metal Organic Framework (AI-MOF) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Aluminium Metal Organic Framework (AI-MOF) 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 BASF, Promethean Particles, Nuada, novoMOF, NuMat Technologies, Merck KGaA, Strem Chemicals, American Elements, CD Bioparticles, Nanoshel, 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 Aluminium Metal Organic Framework (AI-MOF) 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 Aluminium Metal Organic Framework (AI-MOF) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aluminium Metal Organic Framework (AI-MOF) Market, 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

Global Aluminium Metal Organic Framework (Al-MOF) Market, Segmentation by Node:

AlO<sub>4</sub> Octahedral Single Node

Al<sub>3</sub>O(COO)<sub>6</sub> Trinuclear Cluster

Al<sub>12</sub>O<sub>4</sub>(OH)<sub>4</sub>(COO)<sub>12</sub> Dodecuclear Cluster

Al<sub>2</sub>/Al<sub>3</sub> Mixed Node

AlO<sub>4</sub> Tetrahedral Node

Chain-Like AlO<sub>4</sub> Node

Global Aluminium Metal Organic Framework (Al-MOF) Market, Segmentation by Structure:

3D Network Type

2D Layered Type

1D Chain Type

Global Aluminium Metal Organic Framework (Al-MOF) Market, Segmentation by Aperture Range:

Less than 0.7 nm

0.7-2 nm

2-50 nm

Global Aluminium Metal Organic Framework (Al-MOF) Market, Segmentation by Application:

Gas Adsorption and Separation

CO<sub>2</sub> Capture

Catalysis

Drug Delivery

Environmental Remediation

Energy Storage

### **Companies Profiled:**

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 Answered:**

1. How big is the global Aluminium Metal Organic Framework (Al-MOF) market?
2. What is the demand of the global Aluminium Metal Organic Framework (Al-MOF) market?
3. What is the year over year growth of the global Aluminium Metal Organic Framework (Al-MOF) market?
4. What is the production and production value of the global Aluminium Metal Organic Framework (Al-MOF) market?

5. Who are the key producers in the global Aluminium Metal Organic Framework (Al-MOF) market?
6. What are the growth factors driving the market demand?

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