

Global Nano Molybdenum Trioxide Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GAB6BEAE8D9CEN.html>

Date: June 2026

Pages: 121

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

ID: GAB6BEAE8D9CEN

Abstracts

The global Nano Molybdenum Trioxide market size is expected to reach \$ 752 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

Nano-molybdenum trioxide (MoO_3) is an inorganic functional material with a particle size typically ranging from 1 to 100 nanometers. It possesses high specific surface area, excellent catalytic performance, good photoelectric properties, and strong oxidizing ability. Its chemical formula is MoO_3 , belonging to transition metal oxide materials, and common forms include nanoparticles, nanorods, nanosheets, and nanowires. Due to the significantly enhanced surface activity after nano-sizing, nano-molybdenum trioxide has wide applications in catalysis, energy storage, electrochromism, sensors, optoelectronics, and new energy fields.

In catalysis, nano-molybdenum trioxide is widely used in petrochemicals, desulfurization catalysts, and organic oxidation reactions, improving catalytic efficiency and reducing reaction temperatures. In the new energy field, its excellent layered structure and electron transport capabilities make it an important electrode material for lithium-ion batteries, sodium-ion batteries, and supercapacitors. Simultaneously, MoO_3 possesses good electrochromic properties and can be used in smart glasses and display devices. Furthermore, in the field of gas sensors, nano-molybdenum trioxide exhibits high sensitivity to gases such as NO_x and NH_3 .

In 2025, global sales of nano molybdenum trioxide will reach 2,100 tons, with a production capacity of approximately 3,000 tons, an average selling price of US\$255 per kilogram, and an average gross profit margin of 35%-42%.

The upstream of the industry chain mainly includes raw materials such as molybdenum ore, molybdenum concentrate, ammonium molybdate, and industrial molybdenum oxide, as well as suppliers of high-temperature reactors, vapor deposition equipment, dispersants, and surface modification materials. High-purity molybdenum sources and refined preparation equipment have a significant impact on the purity, particle size, and crystal structure of nano-molybdenum trioxide. The midstream involves the preparation and processing of nano-molybdenum trioxide, primarily employing processes such as hydrothermal methods, sol-gel methods, vapor deposition, spray pyrolysis, and chemical precipitation. Companies focus on improving particle size uniformity, specific surface area, dispersion stability, and electrochemical performance. Downstream applications are wide-ranging, including lithium-ion batteries, electrochromic materials, gas sensors, catalysts, flame-retardant materials, optoelectronic devices, supercapacitors, and environmental catalysis. Among these, new energy batteries, smart windows, and gas sensors are currently the fastest-growing application areas.

The demand for nano-molybdenum trioxide (MoO_3) primarily stems from its applications in catalysts, electrochemical energy storage, gas sensors, electrochromic materials, and semiconductor thin films. Lithium-ion batteries, sodium-ion batteries, and supercapacitors are among the fastest-growing sectors in recent years. Due to its layered structure and excellent electron transport capabilities, MoO_3 has attracted widespread attention in high-capacity anode materials and electrocatalysis. Simultaneously, the growing demand for environmental catalysis, desulfurization and denitrification, hydrogen energy, and optoelectronic devices has also driven the expansion of the nano-molybdenum trioxide market. The Asia-Pacific region, particularly China, South Korea, and Japan, has become a major global consumer market.

Currently, nano-molybdenum trioxide products mainly include nanopowders, nanosheets, nanowires, and composite functional materials. Technological approaches are gradually shifting from traditional precipitation methods to hydrothermal methods, sol-gel methods, vapor deposition, and template methods to improve material purity, particle size uniformity, and electrochemical performance. In recent years, two-dimensional layered MoO_3 , graphene composites, and doped MoO_3 have become research hotspots, with a focus on improving conductivity, rate performance, and catalytic activity. Future technological directions will place greater emphasis on low-cost green preparation, high specific surface area structural design, and multifunctional composites.

This report studies the global Nano Molybdenum Trioxide production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nano Molybdenum Trioxide 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 Nano Molybdenum Trioxide that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nano Molybdenum Trioxide total production and demand, 2021-2032, (Tons)

Global Nano Molybdenum Trioxide total production value, 2021-2032, (USD Million)

Global Nano Molybdenum Trioxide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Nano Molybdenum Trioxide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Nano Molybdenum Trioxide domestic production, consumption, key domestic manufacturers and share

Global Nano Molybdenum Trioxide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Nano Molybdenum Trioxide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Nano Molybdenum Trioxide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nano Molybdenum Trioxide 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 American Elements, Stanford Advanced Materials, US Research Nanomaterials, SkySpring Nanomaterials, Nanografi, Sigma-Aldrich, Nanoshel, Dongguan SAT Nano Technology Material, Jiupeng New Materials, Hangzhou Jikang New Materials, 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 Nano Molybdenum Trioxide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Nano Molybdenum Trioxide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nano Molybdenum Trioxide Market, Segmentation by Type:

Orthorhombic Phase

Hexagonal Phase

Monoclinic Phase

Global Nano Molybdenum Trioxide Market, Segmentation by Morphology and Structure:

Nanoparticles

Nanorods

Nanosheets

Nanowires

Global Nano Molybdenum Trioxide Market, Segmentation by Particle Size:

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