

Global Monolayer Molybdenum Disulfide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Monolayer Molybdenum Disulfide market size is expected to reach \$ 56.29 million by 2032, rising at a market growth of 8.8% CAGR during the forecast period (2026-2032).

Global production of monolayer molybdenum disulfide is projected to reach 12,000 cm² by 2025, with a unit price of USD 2,500/cm² and a gross profit margin of 60%.

Monolayer Molybdenum Disulfide (Monolayer MoS₂) is an atomically thin, two-dimensional (2D) transition metal dichalcogenide (TMDC) semiconductor. Geometrically, rather than existing as a single flat atomic sheet, a monolayer of MoS₂ is structurally formulated as a crystalline, sandwich-like S-Mo-S triatomic layer, where a central plane of molybdenum (Mo) atoms is covalently bonded between two outer planes of sulfur (S) atoms, yielding a physical thickness of approximately 0.65 nanometers. In bulk form, these discrete monolayer sheets are loosely held together via weak interlayer Van der Waals forces. The defining physical marvel of Monolayer MoS₂ lies in its abrupt electronic bandgap transformation. As the material is thinned down from its multi-layer bulk state to a pristine monolayer, severe quantum confinement triggers a radical shift from a 1.2 eV indirect bandgap to a prominent 1.8 to 1.9 eV direct bandgap. This transition enables highly efficient, direct photon-electron conversion without momentum-conserving phonon assistance. Emerging as a disruptive vanguard to replace conventional silicon in post-Moore scaling eras, Monolayer MoS₂ exhibits an exceptional room-temperature current on/off ratio exceeding 10¹⁰, substantial mechanical flexibility, excellent immunity to short-channel leakages at sub-nanometer nodes, and robust excitonic photoluminescence. Consequently, it commands a vital strategic position in the scalable deployment of next-generation low-power field-effect transistors (FETs), flexible optoelectronics, valleytronics, and highly sensitive photodetectors.

This report studies the global Monolayer Molybdenum Disulfide production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Monolayer Molybdenum Disulfide total production and demand, 2021-2032, (cm?)

Global Monolayer Molybdenum Disulfide total production value, 2021-2032, (USD Million)

Global Monolayer Molybdenum Disulfide production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (cm?), (based on production site)

Global Monolayer Molybdenum Disulfide consumption by region & country, CAGR, 2021-2032 & (cm?)

U.S. VS China: Monolayer Molybdenum Disulfide domestic production, consumption, key domestic manufacturers and share

Global Monolayer Molybdenum Disulfide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (cm?)

Global Monolayer Molybdenum Disulfide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (cm?)

Global Monolayer Molybdenum Disulfide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (cm?)

This report profiles key players in the global Monolayer Molybdenum Disulfide 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, Skyspring Nanomaterials, ALB Materials, ACS Material, MSE Supplies, 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 Monolayer Molybdenum Disulfide market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (cm?) and average price (US\$/cm?) 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 Monolayer Molybdenum Disulfide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Monolayer Molybdenum Disulfide Market, Segmentation by Type:

Mechanical Exfoliation

CVD

Others

Global Monolayer Molybdenum Disulfide Market, Segmentation by Molecular Structure:

2H-MoS?

1T-MoS?

1T'-MoS?

Global Monolayer Molybdenum Disulfide Market, Segmentation by Application:

Electronics and Semiconductors

Optoelectronic Devices

Energy and Catalysis

Others

Companies Profiled:

American Elements

Skyspring Nanomaterials

ALB Materials

ACS Material

MSE Supplies

Key Questions Answered:

1. How big is the global Monolayer Molybdenum Disulfide market?
2. What is the demand of the global Monolayer Molybdenum Disulfide market?
3. What is the year over year growth of the global Monolayer Molybdenum Disulfide market?
4. What is the production and production value of the global Monolayer Molybdenum Disulfide market?
5. Who are the key producers in the global Monolayer Molybdenum Disulfide market?

6. What are the growth factors driving the market demand?

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