

Global Monolayer Molybdenum Disulfide Market Growth 2026-2032

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Abstracts

The global Monolayer Molybdenum Disulfide market size is predicted to grow from US\$ 29.35 million in 2025 to US\$ 55.15 million in 2032; it is expected to grow at a CAGR of 9.3% from 2026 to 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.

United States market for Monolayer Molybdenum Disulfide is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Monolayer Molybdenum Disulfide is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Monolayer Molybdenum Disulfide is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Monolayer Molybdenum Disulfide players cover American Elements, Skyspring Nanomaterials, ALB Materials, ACS Material, MSE Supplies, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Monolayer Molybdenum Disulfide 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 Monolayer Molybdenum Disulfide portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Monolayer Molybdenum Disulfide market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Monolayer Molybdenum Disulfide 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 Monolayer Molybdenum Disulfide.

This report presents a comprehensive overview, market shares, and growth opportunities of Monolayer Molybdenum Disulfide market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Mechanical Exfoliation

CVD

Others

Segmentation by Molecular Structure:

2H-MoS?

1T-MoS?

1T'-MoS?

Segmentation by Application:

Electronics and Semiconductors

Optoelectronic Devices

Energy and Catalysis

Others

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.

American Elements

Skyspring Nanomaterials

ALB Materials

ACS Material

MSE Supplies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Monolayer Molybdenum Disulfide market?

What factors are driving Monolayer Molybdenum Disulfide market growth, globally and by region?

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

How do Monolayer Molybdenum Disulfide market opportunities vary by end market size?

How does Monolayer Molybdenum Disulfide break out by Type, by Application?

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