

Global Monolayer Molybdenum Disulfide Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Monolayer Molybdenum Disulfide market size was valued at US\$ 30.87 million in 2025 and is forecast to a readjusted size of US\$ 56.29 million by 2032 with a CAGR of 8.8% during review period.

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 is a detailed and comprehensive analysis for global Monolayer Molybdenum Disulfide market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Monolayer Molybdenum Disulfide market size and forecasts, in consumption value (\$ Million), sales quantity (cm²), and average selling prices (US\$/cm²), 2021-2032

Global Monolayer Molybdenum Disulfide market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (cm²), and average selling prices (US\$/cm²), 2021-2032

Global Monolayer Molybdenum Disulfide market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (cm²), and average selling prices (US\$/cm²), 2021-2032

Global Monolayer Molybdenum Disulfide market shares of main players, shipments in revenue (\$ Million), sales quantity (cm²), and ASP (US\$/cm²), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Monolayer Molybdenum Disulfide

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Monolayer Molybdenum Disulfide market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Monolayer Molybdenum Disulfide market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Mechanical Exfoliation

CVD

Others

Market segment by Molecular Structure

2H-MoS₂

1T-MoS₂

1T'-MoS₂

Market segment by Application

Electronics and Semiconductors

Optoelectronic Devices

Energy and Catalysis

Others

Major players covered

American Elements

Skyspring Nanomaterials

ALB Materials

ACS Material

MSE Supplies

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Monolayer Molybdenum Disulfide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Monolayer Molybdenum Disulfide, with price, sales quantity, revenue, and global market share of Monolayer Molybdenum Disulfide from 2021 to 2026.

Chapter 3, the Monolayer Molybdenum Disulfide competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Monolayer Molybdenum Disulfide breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Monolayer Molybdenum Disulfide market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Monolayer Molybdenum Disulfide.

Chapter 14 and 15, to describe Monolayer Molybdenum Disulfide sales channel, distributors, customers, research findings and conclusion.

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