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Molybdenum Powder Market Size, Share & Trend Analysis Report, By Grade, By Application (Aerospace & Defense, Powder Metallurgy, Chemical/ Catalysts), By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global molybdenum powder market size was valued at USD 921.0 million in 2025 and is projected to grow from USD 969.0 million in 2026 to USD 1,382.0 million by 2033, at a CAGR of 5.2% from 2026 to 2033. Asia Pacific dominated the market, accounting for the revenue share of 33.4% in 2025. The growing demand for high-performance alloys and specialty steels is a major driver of the market.

Molybdenum improves strength, hardness, corrosion resistance, and high-temperature performance, making it valuable in applications such as aerospace components, industrial machinery, oil and gas equipment, and automotive parts. The increasing use of advanced steels in demanding operating environments is therefore driving market demand.

The expansion of additive manufacturing and metal 3D printing is creating new market opportunities. Molybdenum's high melting point, thermal conductivity, and ability to withstand extreme temperatures make it suitable for producing specialized components through powder-based manufacturing processes. The growing adoption of metal additive manufacturing in aerospace, defense, medical, and high-temperature industrial applications is expected to drive demand for high-purity, precisely sized molybdenum powders.

The growth of electronics and semiconductor manufacturing is another important market driver. Molybdenum offers excellent thermal stability, electrical conductivity, and resistance to high-temperature environments, supporting its use in electronic

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components, thin films, semiconductor processing equipment, and specialized electrodes. Continued investment in semiconductor fabrication capacity, particularly in Asia-Pacific and North America, is increasing demand for high-purity molybdenum materials and powders.

The increasing demand for energy, aerospace, and high-temperature industrial applications is further supporting market growth. Molybdenum is used in components that operate under extreme temperatures and corrosive conditions, including furnace components, heating elements, rocket and aerospace parts, and energy-related equipment. Expansion of nuclear power, renewable energy manufacturing, hydrogen technologies, and aerospace programs is creating additional applications for molybdenum-based materials, thereby contributing to long-term demand for molybdenum powder.

Global Molybdenum Powder Market Report Segmentation

This report forecasts revenue and volume growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the global molybdenum powder market report on the basis of grade, application, and region.

Grade Outlook (Volume, Kilotons; Revenue, USD Million, 2021-2033)

Standard Grade

High Purity

Ultra-High Purity

Application Outlook (Volume, Kilotons; Revenue, USD Million, 2021-2033)

Aerospace & Defense

Powder Metallurgy

Chemical/ Catalysts

Additive Manufacturing

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Others

Regional Outlook (Volume, Kilotons; Revenue, USD Million, 2021-2033)

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Spain

Asia Pacific

China

India

Japan

Australia

Latin America

Middle East & Africa

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