

Global Molybdenum-Based Advanced Contact and Via Fill Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Molybdenum-Based Advanced Contact and Via Fill Materials market size is expected to reach \$ 604 million by 2032, rising at a market growth of 20.8% CAGR during the forecast period (2026-2032).

In 2025, the global sales volume of molybdenum-based advanced contact-hole fill materials is approximately 52,000 kg, with an average price of around \$3,000 per kilogram.

Ruthenium-based barrier-free interconnect materials?comprising high-purity ruthenium PVD targets, ALD/CVD ruthenium precursors, and associated CMP/etching materials?are primarily used for BEOL/MOL semi-damascene interconnects, contact holes, and local interconnects in sub-3nm and sub-2nm logic chips. Compared to traditional copper interconnects, ruthenium allows for the reduction or elimination of diffusion barrier layers at extremely narrow linewidths, thereby increasing the effective conductive cross-sectional area and improving interconnect resistance and reliability; it is a key candidate material for back-end-of-line (BEOL) metallization in advanced process nodes. The upstream sector involves platinum-group metal refining, high-purity ruthenium production, and organometallic synthesis, while the downstream sector encompasses advanced logic foundries, AI accelerators, HBM interfaces, and high-performance memory interconnect processes.

This report studies the global Molybdenum-Based Advanced Contact and Via Fill Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for

Molybdenum-Based Advanced Contact and Via Fill Materials 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 Molybdenum-Based Advanced Contact and Via Fill Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Molybdenum-Based Advanced Contact and Via Fill Materials total production and demand, 2021-2032, (kg)

Global Molybdenum-Based Advanced Contact and Via Fill Materials total production value, 2021-2032, (USD Million)

Global Molybdenum-Based Advanced Contact and Via Fill Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Molybdenum-Based Advanced Contact and Via Fill Materials consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Molybdenum-Based Advanced Contact and Via Fill Materials domestic production, consumption, key domestic manufacturers and share

Global Molybdenum-Based Advanced Contact and Via Fill Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Molybdenum-Based Advanced Contact and Via Fill Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Molybdenum-Based Advanced Contact and Via Fill Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Molybdenum-Based Advanced Contact and Via Fill Materials 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 Plansee Group, H.C. Starck Solutions, JX Advanced Metals, Materion, Tosoh SMD, Honeywell Electronic Materials, Entegris, Merck KGaA, Air Liquide Electronics, Linde Electronics, 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 Molybdenum-Based Advanced Contact and Via Fill

Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) 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 Molybdenum-Based Advanced Contact and Via Fill Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Molybdenum-Based Advanced Contact and Via Fill Materials Market, Segmentation by Type:

Molybdenum PVD Target

Molybdenum ALD/CVD Precursor

Mo Gap-Fill Process Material

Global Molybdenum-Based Advanced Contact and Via Fill Materials Market,
Segmentation by Purity:

Purity 4N

Purity 5N

Global Molybdenum-Based Advanced Contact and Via Fill Materials Market,
Segmentation by Functional Category:

Contact Plug Metallization

Local Interconnect Fill

Buried Power Rail Metallization

Global Molybdenum-Based Advanced Contact and Via Fill Materials Market,
Segmentation by Application:

Logic Contacts

Local Interconnects

DRAM / NAND Metallization

Others

Companies Profiled:

Plansee Group

H.C. Starck Solutions

JX Advanced Metals

Materion

Tosoh SMD

Honeywell Electronic Materials

Entegris

Merck KGaA

Air Liquide Electronics

Linde Electronics

Jiangfeng Electronics

Vital Thin Film Materials

Key Questions Answered:

1. How big is the global Molybdenum-Based Advanced Contact and Via Fill Materials market?
2. What is the demand of the global Molybdenum-Based Advanced Contact and Via Fill Materials market?
3. What is the year over year growth of the global Molybdenum-Based Advanced Contact and Via Fill Materials market?
4. What is the production and production value of the global Molybdenum-Based Advanced Contact and Via Fill Materials market?
5. Who are the key producers in the global Molybdenum-Based Advanced Contact and Via Fill Materials market?
6. What are the growth factors driving the market demand?

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