

Global Molybdenum-Based Advanced Contact and Via Fill Materials 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 Molybdenum-Based Advanced Contact and Via Fill Materials market size was valued at US\$ 161 million in 2025 and is forecast to a readjusted size of US\$ 604 million by 2032 with a CAGR of 20.8% during review period.

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 is a detailed and comprehensive analysis for global Molybdenum-Based Advanced Contact and Via Fill Materials 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 Molybdenum-Based Advanced Contact and Via Fill Materials market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Molybdenum-Based Advanced Contact and Via Fill Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Molybdenum-Based Advanced Contact and Via Fill Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Molybdenum-Based Advanced Contact and Via Fill Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Molybdenum-Based Advanced Contact and Via Fill Materials

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 Molybdenum-Based Advanced Contact and Via Fill Materials 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 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.

Market Segmentation

Molybdenum-Based Advanced Contact and Via Fill Materials 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

Molybdenum PVD Target

Molybdenum ALD/CVD Precursor

Mo Gap-Fill Process Material

Market segment by Purity

Purity 4N

Purity 5N

Market segment by Functional Category

Contact Plug Metallization

Local Interconnect Fill

Buried Power Rail Metallization

Market segment by Application

Logic Contacts

Local Interconnects

DRAM / NAND Metallization

Others

Major players covered

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

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 Molybdenum-Based Advanced Contact and Via Fill Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Molybdenum-Based Advanced Contact and Via Fill Materials, with price, sales quantity, revenue, and global market share of Molybdenum-Based Advanced Contact and Via Fill Materials from 2021 to 2026.

Chapter 3, the Molybdenum-Based Advanced Contact and Via Fill Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Molybdenum-Based Advanced Contact and Via Fill Materials 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 Molybdenum-Based Advanced Contact and Via

Fill Materials 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 Molybdenum-Based Advanced Contact and Via Fill Materials.

Chapter 14 and 15, to describe Molybdenum-Based Advanced Contact and Via Fill Materials sales channel, distributors, customers, research findings and conclusion.

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