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Global Metal-containing EUV Hard Mask Materials Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/GD3C4B54F620EN.html
Date: September 2026
Pages: 76
Price: US$ 3,480.00 (Single User License)
ID: GD3C4B54F620EN

Abstracts

According to our (Global Info Research) latest study, the global Metal-containing EUV Hard Mask Materials market size was valued at US$ 87.46 million in 2025 and is forecast to a readjusted size of US$ 315 million by 2032 with a CAGR of 19.5% during review period.

Metal-containing EUV hard mask materials are metal-based thin films used in EUV multilayer patterning to provide high etch selectivity and dimensional fidelity. They can employ Hf-, Zr-, Ti-, or Sn-based oxides, nitrides, or metal-organic hybrid chemistries and can be deposited by spin coating or vapor-phase methods. Their value is the ability to deliver strong etch resistance at very low thickness while maintaining low defects and contamination, removability, and interface compatibility with ultrathin EUV photoresists. In 2025, global Metal-containing EUV Hard Mask Materials production reached approximately 200 metric tons.

Demand for metal-containing EUV hard mask materials is primarily driven by insufficient pattern-transfer capability of increasingly thin EUV resists and harder etch requirements for GAA-class structures. As advanced nodes tighten specifications for defects, trace metals, particles, film uniformity, and lot-to-lot consistency, qualification cycles become longer and supplier stickiness increases. Purification capability, formulation consistency, and joint qualification with leading fabs are therefore central competitive factors.

Future growth will also be supported by high-selectivity spin-on metal oxides, low-temperature vapor-deposited hard masks, and controlled wet-removal platforms. As logic, memory, and advanced packaging flows become more complex, both the number of material-intensive process steps and the required performance per wafer increase.

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Localization, supply-chain resilience, and environmental compliance will create openings for new suppliers, although scaled adoption will still depend on long-term reliability and high-volume manufacturing qualification.

Report Scope

This report is a detailed and comprehensive analysis for global Metal-containing EUV Hard Mask 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 Metal-containing EUV Hard Mask Materials market size and forecasts, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/kg), 2021-2032

Global Metal-containing EUV Hard Mask Materials market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/kg), 2021-2032

Global Metal-containing EUV Hard Mask Materials market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Kilotons), and average selling prices (US$/kg), 2021-2032

Global Metal-containing EUV Hard Mask Materials market shares of main players, shipments in revenue ($ Million), sales quantity (Kilotons), 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

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To assess the growth potential for Metal-containing EUV Hard Mask 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 Metal-containing EUV Hard Mask 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 Merck, Nissan Chemical, Brewer Science, JSR, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Metal-containing EUV Hard Mask 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 Segmentation

Market segment by Type

Hafnium-Based Hard Mask

Zirconium-Based Hard Mask

Titanium-Based Hard Mask

Tin-Based Hard Mask

Other Metal-Based Hard Mask

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Market segment by Chemical Matrix

Metal Oxide

Metal Nitride/Oxynitride

Metal-Organic Hybrid

Other

Market segment by Deposition Method

Spin-On

ALD/CVD

PVD

Other

Market segment by Application

High-NA EUV Logic Patterning

EUV DRAM Pattern Transfer

GAA/Nanosheet Pattern Transfer

High-Aspect-Ratio Memory Patterning

Other

Major players covered

Merck

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Nissan Chemical

Brewer Science

JSR

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)

Chapter Outline

Chapter 1, to describe Metal-containing EUV Hard Mask Materials product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of Metal-containing EUV Hard Mask Materials, with price, sales quantity, revenue, and global market share of Metal-containing EUV Hard Mask Materials from 2021 to 2026.
Chapter 3, the Metal-containing EUV Hard Mask Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the Metal-containing EUV Hard Mask 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

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quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Metal-containing EUV Hard Mask 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 Metal-containing EUV Hard Mask Materials.
Chapter 14 and 15, to describe Metal-containing EUV Hard Mask Materials sales channel, distributors, customers, research findings and conclusion.

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global Metal-containing EUV Hard Mask Materials Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 Hafnium-Based Hard Mask
  1.3.3 Zirconium-Based Hard Mask
  1.3.4 Titanium-Based Hard Mask
  1.3.5 Tin-Based Hard Mask
  1.3.6 Other Metal-Based Hard Mask
1.4 Market Analysis by Chemical Matrix
  1.4.1 Overview: Global Metal-containing EUV Hard Mask Materials Consumption Value by Chemical Matrix: 2021 Versus 2025 Versus 2032
  1.4.2 Metal Oxide
  1.4.3 Metal Nitride/Oxynitride
  1.4.4 Metal-Organic Hybrid
  1.4.5 Other
1.5 Market Analysis by Deposition Method
  1.5.1 Overview: Global Metal-containing EUV Hard Mask Materials Consumption Value by Deposition Method: 2021 Versus 2025 Versus 2032
  1.5.2 Spin-On
  1.5.3 ALD/CVD
  1.5.4 PVD
  1.5.5 Other
1.6 Market Analysis by Application
  1.6.1 Overview: Global Metal-containing EUV Hard Mask Materials Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.6.2 High-NA EUV Logic Patterning
  1.6.3 EUV DRAM Pattern Transfer
  1.6.4 GAA/Nanosheet Pattern Transfer
  1.6.5 High-Aspect-Ratio Memory Patterning
  1.6.6 Other
1.7 Global Metal-containing EUV Hard Mask Materials Market Size & Forecast
  1.7.1 Global Metal-containing EUV Hard Mask Materials Consumption Value (2021 & 2025 & 2032)

+357 96 030922
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1.7.2 Global Metal-containing EUV Hard Mask Materials Sales Quantity (2021-2032)
1.7.3 Global Metal-containing EUV Hard Mask Materials Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Merck
2.1.1 Merck Details
2.1.2 Merck Major Business
2.1.3 Merck Metal-containing EUV Hard Mask Materials Product and Services
2.1.4 Merck Metal-containing EUV Hard Mask Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Merck Recent Developments/Updates
2.2 Nissan Chemical
2.2.1 Nissan Chemical Details
2.2.2 Nissan Chemical Major Business
2.2.3 Nissan Chemical Metal-containing EUV Hard Mask Materials Product and Services
2.2.4 Nissan Chemical Metal-containing EUV Hard Mask Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Nissan Chemical Recent Developments/Updates
2.3 Brewer Science
2.3.1 Brewer Science Details
2.3.2 Brewer Science Major Business
2.3.3 Brewer Science Metal-containing EUV Hard Mask Materials Product and Services
2.3.4 Brewer Science Metal-containing EUV Hard Mask Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Brewer Science Recent Developments/Updates
2.4 JSR
2.4.1 JSR Details
2.4.2 JSR Major Business
2.4.3 JSR Metal-containing EUV Hard Mask Materials Product and Services
2.4.4 JSR Metal-containing EUV Hard Mask Materials Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 JSR Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: METAL-CONTAINING EUV HARD MASK MATERIALS BY MANUFACTURER

+357 96 030922
info@marketpublishers.com

3.1 Global Metal-containing EUV Hard Mask Materials Sales Quantity by Manufacturer (2021-2026)
3.2 Global Metal-containing EUV Hard Mask Materials Revenue by Manufacturer (2021-2026)
3.3 Global Metal-containing EUV Hard Mask Materials Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
3.4.1 Producer Shipments of Metal-containing EUV Hard Mask Materials by Manufacturer Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 Metal-containing EUV Hard Mask Materials Manufacturer Market Share in 2025
3.4.3 Top 6 Metal-containing EUV Hard Mask Materials Manufacturer Market Share in 2025
3.5 Metal-containing EUV Hard Mask Materials Market: Overall Company Footprint Analysis
3.5.1 Metal-containing EUV Hard Mask Materials Market: Region Footprint
3.5.2 Metal-containing EUV Hard Mask Materials Market: Company Product Type Footprint
3.5.3 Metal-containing EUV Hard Mask Materials Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Metal-containing EUV Hard Mask Materials Market Size by Region
4.1.1 Global Metal-containing EUV Hard Mask Materials Sales Quantity by Region (2021-2032)
4.1.2 Global Metal-containing EUV Hard Mask Materials Consumption Value by Region (2021-2032)
4.1.3 Global Metal-containing EUV Hard Mask Materials Average Price by Region (2021-2032)
4.2 North America Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032)
4.3 Europe Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032)
4.4 Asia-Pacific Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032)
4.5 South America Metal-containing EUV Hard Mask Materials Consumption Value

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(2021-2032)
4.6 Middle East & Africa Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2032)
5.2 Global Metal-containing EUV Hard Mask Materials Consumption Value by Type (2021-2032)
5.3 Global Metal-containing EUV Hard Mask Materials Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2032)
6.2 Global Metal-containing EUV Hard Mask Materials Consumption Value by Application (2021-2032)
6.3 Global Metal-containing EUV Hard Mask Materials Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2032)
7.2 North America Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2032)
7.3 North America Metal-containing EUV Hard Mask Materials Market Size by Country
  7.3.1 North America Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2021-2032)
  7.3.2 North America Metal-containing EUV Hard Mask Materials Consumption Value by Country (2021-2032)
  7.3.3 United States Market Size and Forecast (2021-2032)
  7.3.4 Canada Market Size and Forecast (2021-2032)
  7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

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8.1 Europe Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2032)
8.2 Europe Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2032)
8.3 Europe Metal-containing EUV Hard Mask Materials Market Size by Country
8.3.1 Europe Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2021-2032)
8.3.2 Europe Metal-containing EUV Hard Mask Materials Consumption Value by Country (2021-2032)
8.3.3 Germany Market Size and Forecast (2021-2032)
8.3.4 France Market Size and Forecast (2021-2032)
8.3.5 United Kingdom Market Size and Forecast (2021-2032)
8.3.6 Russia Market Size and Forecast (2021-2032)
8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific Metal-containing EUV Hard Mask Materials Market Size by Region
9.3.1 Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity by Region (2021-2032)
9.3.2 Asia-Pacific Metal-containing EUV Hard Mask Materials Consumption Value by Region (2021-2032)
9.3.3 China Market Size and Forecast (2021-2032)
9.3.4 Japan Market Size and Forecast (2021-2032)
9.3.5 South Korea Market Size and Forecast (2021-2032)
9.3.6 India Market Size and Forecast (2021-2032)
9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2032)
10.2 South America Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2032)

+357 96 030922
info@marketpublishers.com

10.3 South America Metal-containing EUV Hard Mask Materials Market Size by Country
10.3.1 South America Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2021-2032)
10.3.2 South America Metal-containing EUV Hard Mask Materials Consumption Value by Country (2021-2032)
10.3.3 Brazil Market Size and Forecast (2021-2032)
10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa Metal-containing EUV Hard Mask Materials Market Size by Country
11.3.1 Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2021-2032)
11.3.2 Middle East & Africa Metal-containing EUV Hard Mask Materials Consumption Value by Country (2021-2032)
11.3.3 Turkey Market Size and Forecast (2021-2032)
11.3.4 Egypt Market Size and Forecast (2021-2032)
11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Metal-containing EUV Hard Mask Materials Market Drivers
12.2 Metal-containing EUV Hard Mask Materials Market Restraints
12.3 Metal-containing EUV Hard Mask Materials Trends Analysis
12.4 Porters Five Forces Analysis
12.4.1 Threat of New Entrants
12.4.2 Bargaining Power of Suppliers
12.4.3 Bargaining Power of Buyers
12.4.4 Threat of Substitutes
12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

+357 96 030922
info@marketpublishers.com

13.1 Raw Material of Metal-containing EUV Hard Mask Materials and Key Manufacturers
13.2 Manufacturing Costs Percentage of Metal-containing EUV Hard Mask Materials
13.3 Metal-containing EUV Hard Mask Materials Production Process
13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
  14.1.1 Direct to End-User
  14.1.2 Distributors
14.2 Metal-containing EUV Hard Mask Materials Typical Distributors
14.3 Metal-containing EUV Hard Mask Materials Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Global Metal-containing EUV Hard Mask Materials Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global Metal-containing EUV Hard Mask Materials Consumption Value by Chemical Matrix, (USD Million), 2021 & 2025 & 2032
Table 3. Global Metal-containing EUV Hard Mask Materials Consumption Value by Deposition Method, (USD Million), 2021 & 2025 & 2032
Table 4. Global Metal-containing EUV Hard Mask Materials Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 5. Merck Basic Information, Manufacturing Base and Competitors
Table 6. Merck Major Business
Table 7. Merck Metal-containing EUV Hard Mask Materials Product and Services
Table 8. Merck Metal-containing EUV Hard Mask Materials Sales Quantity (Kilotons), Average Price (US$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 9. Merck Recent Developments/Updates
Table 10. Nissan Chemical Basic Information, Manufacturing Base and Competitors
Table 11. Nissan Chemical Major Business
Table 12. Nissan Chemical Metal-containing EUV Hard Mask Materials Product and Services
Table 13. Nissan Chemical Metal-containing EUV Hard Mask Materials Sales Quantity (Kilotons), Average Price (US$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 14. Nissan Chemical Recent Developments/Updates
Table 15. Brewer Science Basic Information, Manufacturing Base and Competitors
Table 16. Brewer Science Major Business
Table 17. Brewer Science Metal-containing EUV Hard Mask Materials Product and Services
Table 18. Brewer Science Metal-containing EUV Hard Mask Materials Sales Quantity (Kilotons), Average Price (US$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 19. Brewer Science Recent Developments/Updates
Table 20. JSR Basic Information, Manufacturing Base and Competitors
Table 21. JSR Major Business
Table 22. JSR Metal-containing EUV Hard Mask Materials Product and Services
Table 23. JSR Metal-containing EUV Hard Mask Materials Sales Quantity (Kilotons),

+357 96 030922
info@marketpublishers.com

Average Price (US$/kg), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 24. JSR Recent Developments/Updates
Table 25. Global Metal-containing EUV Hard Mask Materials Sales Quantity by Manufacturer (2021-2026) & (Kilotons)
Table 26. Global Metal-containing EUV Hard Mask Materials Revenue by Manufacturer (2021-2026) & (USD Million)
Table 27. Global Metal-containing EUV Hard Mask Materials Average Price by Manufacturer (2021-2026) & (US$/kg)
Table 28. Market Position of Manufacturers in Metal-containing EUV Hard Mask Materials, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 29. Head Office and Metal-containing EUV Hard Mask Materials Production Site of Key Manufacturer
Table 30. Metal-containing EUV Hard Mask Materials Market: Company Product Type Footprint
Table 31. Metal-containing EUV Hard Mask Materials Market: Company Product Application Footprint
Table 32. Metal-containing EUV Hard Mask Materials New Market Entrants and Barriers to Market Entry
Table 33. Metal-containing EUV Hard Mask Materials Mergers, Acquisition, Agreements, and Collaborations
Table 34. Global Metal-containing EUV Hard Mask Materials Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 35. Global Metal-containing EUV Hard Mask Materials Sales Quantity by Region (2021-2026) & (Kilotons)
Table 36. Global Metal-containing EUV Hard Mask Materials Sales Quantity by Region (2027-2032) & (Kilotons)
Table 37. Global Metal-containing EUV Hard Mask Materials Consumption Value by Region (2021-2026) & (USD Million)
Table 38. Global Metal-containing EUV Hard Mask Materials Consumption Value by Region (2027-2032) & (USD Million)
Table 39. Global Metal-containing EUV Hard Mask Materials Average Price by Region (2021-2026) & (US$/kg)
Table 40. Global Metal-containing EUV Hard Mask Materials Average Price by Region (2027-2032) & (US$/kg)
Table 41. Global Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2026) & (Kilotons)
Table 42. Global Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2027-2032) & (Kilotons)

+357 96 030922
info@marketpublishers.com

Table 43. Global Metal-containing EUV Hard Mask Materials Consumption Value by Type (2021-2026) & (USD Million)
Table 44. Global Metal-containing EUV Hard Mask Materials Consumption Value by Type (2027-2032) & (USD Million)
Table 45. Global Metal-containing EUV Hard Mask Materials Average Price by Type (2021-2026) & (US$/kg)
Table 46. Global Metal-containing EUV Hard Mask Materials Average Price by Type (2027-2032) & (US$/kg)
Table 47. Global Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2026) & (Kilotons)
Table 48. Global Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2027-2032) & (Kilotons)
Table 49. Global Metal-containing EUV Hard Mask Materials Consumption Value by Application (2021-2026) & (USD Million)
Table 50. Global Metal-containing EUV Hard Mask Materials Consumption Value by Application (2027-2032) & (USD Million)
Table 51. Global Metal-containing EUV Hard Mask Materials Average Price by Application (2021-2026) & (US$/kg)
Table 52. Global Metal-containing EUV Hard Mask Materials Average Price by Application (2027-2032) & (US$/kg)
Table 53. North America Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2026) & (Kilotons)
Table 54. North America Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2027-2032) & (Kilotons)
Table 55. North America Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2026) & (Kilotons)
Table 56. North America Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2027-2032) & (Kilotons)
Table 57. North America Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2021-2026) & (Kilotons)
Table 58. North America Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2027-2032) & (Kilotons)
Table 59. North America Metal-containing EUV Hard Mask Materials Consumption Value by Country (2021-2026) & (USD Million)
Table 60. North America Metal-containing EUV Hard Mask Materials Consumption Value by Country (2027-2032) & (USD Million)
Table 61. Europe Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2026) & (Kilotons)
Table 62. Europe Metal-containing EUV Hard Mask Materials Sales Quantity by Type

+357 96 030922
info@marketpublishers.com

(2027-2032) & (Kilotons)
Table 63. Europe Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2026) & (Kilotons)
Table 64. Europe Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2027-2032) & (Kilotons)
Table 65. Europe Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2021-2026) & (Kilotons)
Table 66. Europe Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2027-2032) & (Kilotons)
Table 67. Europe Metal-containing EUV Hard Mask Materials Consumption Value by Country (2021-2026) & (USD Million)
Table 68. Europe Metal-containing EUV Hard Mask Materials Consumption Value by Country (2027-2032) & (USD Million)
Table 69. Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2026) & (Kilotons)
Table 70. Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2027-2032) & (Kilotons)
Table 71. Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2026) & (Kilotons)
Table 72. Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2027-2032) & (Kilotons)
Table 73. Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity by Region (2021-2026) & (Kilotons)
Table 74. Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity by Region (2027-2032) & (Kilotons)
Table 75. Asia-Pacific Metal-containing EUV Hard Mask Materials Consumption Value by Region (2021-2026) & (USD Million)
Table 76. Asia-Pacific Metal-containing EUV Hard Mask Materials Consumption Value by Region (2027-2032) & (USD Million)
Table 77. South America Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2026) & (Kilotons)
Table 78. South America Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2027-2032) & (Kilotons)
Table 79. South America Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2026) & (Kilotons)
Table 80. South America Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2027-2032) & (Kilotons)
Table 81. South America Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2021-2026) & (Kilotons)

+357 96 030922
info@marketpublishers.com

Table 82. South America Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2027-2032) & (Kilotons)
Table 83. South America Metal-containing EUV Hard Mask Materials Consumption Value by Country (2021-2026) & (USD Million)
Table 84. South America Metal-containing EUV Hard Mask Materials Consumption Value by Country (2027-2032) & (USD Million)
Table 85. Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2021-2026) & (Kilotons)
Table 86. Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity by Type (2027-2032) & (Kilotons)
Table 87. Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2021-2026) & (Kilotons)
Table 88. Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity by Application (2027-2032) & (Kilotons)
Table 89. Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2021-2026) & (Kilotons)
Table 90. Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity by Country (2027-2032) & (Kilotons)
Table 91. Middle East & Africa Metal-containing EUV Hard Mask Materials Consumption Value by Country (2021-2026) & (USD Million)
Table 92. Middle East & Africa Metal-containing EUV Hard Mask Materials Consumption Value by Country (2027-2032) & (USD Million)
Table 93. Metal-containing EUV Hard Mask Materials Raw Material
Table 94. Key Manufacturers of Metal-containing EUV Hard Mask Materials Raw Materials
Table 95. Metal-containing EUV Hard Mask Materials Typical Distributors
Table 96. Metal-containing EUV Hard Mask Materials Typical Customers

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1. Metal-containing EUV Hard Mask Materials Picture
Figure 2. Global Metal-containing EUV Hard Mask Materials Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Metal-containing EUV Hard Mask Materials Revenue Market Share by Type in 2025
Figure 4. Hafnium-Based Hard Mask Examples
Figure 5. Zirconium-Based Hard Mask Examples
Figure 6. Titanium-Based Hard Mask Examples
Figure 7. Tin-Based Hard Mask Examples
Figure 8. Other Metal-Based Hard Mask Examples
Figure 9. Global Metal-containing EUV Hard Mask Materials Revenue by Chemical Matrix, (USD Million), 2021 & 2025 & 2032
Figure 10. Global Metal-containing EUV Hard Mask Materials Revenue Market Share by Chemical Matrix in 2025
Figure 11. Metal Oxide Examples
Figure 12. Metal Nitride/Oxynitride Examples
Figure 13. Metal-Organic Hybrid Examples
Figure 14. Other Examples
Figure 15. Global Metal-containing EUV Hard Mask Materials Revenue by Deposition Method, (USD Million), 2021 & 2025 & 2032
Figure 16. Global Metal-containing EUV Hard Mask Materials Revenue Market Share by Deposition Method in 2025
Figure 17. Spin-On Examples
Figure 18. ALD/CVD Examples
Figure 19. PVD Examples
Figure 20. Other Examples
Figure 21. Global Metal-containing EUV Hard Mask Materials Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 22. Global Metal-containing EUV Hard Mask Materials Revenue Market Share by Application in 2025
Figure 23. High-NA EUV Logic Patterning Examples
Figure 24. EUV DRAM Pattern Transfer Examples
Figure 25. GAA/Nanosheet Pattern Transfer Examples
Figure 26. High-Aspect-Ratio Memory Patterning Examples
Figure 27. Other Examples

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Figure 28. Global Metal-containing EUV Hard Mask Materials Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 29. Global Metal-containing EUV Hard Mask Materials Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 30. Global Metal-containing EUV Hard Mask Materials Sales Quantity (2021-2032) & (Kilotons)
Figure 31. Global Metal-containing EUV Hard Mask Materials Price (2021-2032) & (US$/kg)
Figure 32. Global Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Manufacturer in 2025
Figure 33. Global Metal-containing EUV Hard Mask Materials Revenue Market Share by Manufacturer in 2025
Figure 34. Producer Shipments of Metal-containing EUV Hard Mask Materials by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 35. Top 3 Metal-containing EUV Hard Mask Materials Manufacturer (Revenue) Market Share in 2025
Figure 36. Top 6 Metal-containing EUV Hard Mask Materials Manufacturer (Revenue) Market Share in 2025
Figure 37. Global Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Region (2021-2032)
Figure 38. Global Metal-containing EUV Hard Mask Materials Consumption Value Market Share by Region (2021-2032)
Figure 39. North America Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 40. Europe Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 41. Asia-Pacific Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 42. South America Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 43. Middle East & Africa Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 44. Global Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Type (2021-2032)
Figure 45. Global Metal-containing EUV Hard Mask Materials Consumption Value Market Share by Type (2021-2032)
Figure 46. Global Metal-containing EUV Hard Mask Materials Average Price by Type (2021-2032) & (US$/kg)
Figure 47. Global Metal-containing EUV Hard Mask Materials Sales Quantity Market

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Share by Application (2021-2032)
Figure 48. Global Metal-containing EUV Hard Mask Materials Revenue Market Share by Application (2021-2032)
Figure 49. Global Metal-containing EUV Hard Mask Materials Average Price by Application (2021-2032) & (US$/kg)
Figure 50. North America Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Type (2021-2032)
Figure 51. North America Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Application (2021-2032)
Figure 52. North America Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Country (2021-2032)
Figure 53. North America Metal-containing EUV Hard Mask Materials Consumption Value Market Share by Country (2021-2032)
Figure 54. United States Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 55. Canada Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 56. Mexico Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 57. Europe Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Type (2021-2032)
Figure 58. Europe Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Application (2021-2032)
Figure 59. Europe Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Country (2021-2032)
Figure 60. Europe Metal-containing EUV Hard Mask Materials Consumption Value Market Share by Country (2021-2032)
Figure 61. Germany Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 62. France Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 63. United Kingdom Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 64. Russia Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 65. Italy Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 66. Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Type (2021-2032)

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Figure 67. Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Application (2021-2032)
Figure 68. Asia-Pacific Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Region (2021-2032)
Figure 69. Asia-Pacific Metal-containing EUV Hard Mask Materials Consumption Value Market Share by Region (2021-2032)
Figure 70. China Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 71. Japan Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 72. South Korea Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 73. India Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 74. Southeast Asia Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 75. Australia Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 76. South America Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Type (2021-2032)
Figure 77. South America Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Application (2021-2032)
Figure 78. South America Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Country (2021-2032)
Figure 79. South America Metal-containing EUV Hard Mask Materials Consumption Value Market Share by Country (2021-2032)
Figure 80. Brazil Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 81. Argentina Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 82. Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Type (2021-2032)
Figure 83. Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Application (2021-2032)
Figure 84. Middle East & Africa Metal-containing EUV Hard Mask Materials Sales Quantity Market Share by Country (2021-2032)
Figure 85. Middle East & Africa Metal-containing EUV Hard Mask Materials Consumption Value Market Share by Country (2021-2032)
Figure 86. Turkey Metal-containing EUV Hard Mask Materials Consumption Value

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(2021-2032) & (USD Million)
Figure 87. Egypt Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 88. Saudi Arabia Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 89. South Africa Metal-containing EUV Hard Mask Materials Consumption Value (2021-2032) & (USD Million)
Figure 90. Metal-containing EUV Hard Mask Materials Market Drivers
Figure 91. Metal-containing EUV Hard Mask Materials Market Restraints
Figure 92. Metal-containing EUV Hard Mask Materials Market Trends
Figure 93. Porters Five Forces Analysis
Figure 94. Manufacturing Cost Structure Analysis of Metal-containing EUV Hard Mask Materials in 2025
Figure 95. Manufacturing Process Analysis of Metal-containing EUV Hard Mask Materials
Figure 96. Metal-containing EUV Hard Mask Materials Industrial Chain
Figure 97. Sales Channel: Direct to End-User vs Distributors
Figure 98. Direct Channel Pros & Cons
Figure 99. Indirect Channel Pros & Cons
Figure 100. Methodology
Figure 101. Research Process and Data Source

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