

Global Semiconductor EUV Pellicles Market Research Report 2026(Status and Outlook)

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Abstracts

Semiconductor EUV Pellicles are thin, transparent films that are used in the fabrication of semiconductor chips. They are made of materials that can withstand the high temperatures and harsh chemicals used in the semiconductor manufacturing process. EUV stands for extreme ultraviolet, which is a type of radiation used in the lithography process to pattern and etch the semiconductor materials. Pellicles play a crucial role in this process as they help to transfer the pattern from a photomask to the semiconductor substrate, enabling the production of complex electronic circuits. Initially, the pellicle was a single-layer structure with a core layer made of polysilicon. Since 2021, EUV pellicle have adopted composite materials. Its key components now consist of alternating molybdenum disilicide (MoSi₂) and silicon (Si) layers to form a multi-layer structure. EUV transmittance (EUVT) is a key performance indicator of EUV pellicle. The transition from a single-layer structure to a multi-layer structure has increased EUVT from about 82% to about 90%. The next generation of film technology will go beyond structural changes (from single-layer to multi-layer) and introduce material advances, leading to the emergence of CNT pellicle. Driven by advances in artificial intelligence (AI) and computing technology, the semiconductor industry's demand for advanced chips continues to grow, with the fastest growth in chips below 7nm manufactured using EUV technology. In advanced processes of 7nm and below, the pattern size on the mask may be only tens of nanometers, which places extremely strict requirements on the uniformity and defect control of the Pellicle. The next generation of high-power EUV lithography machines operates at more than 500W, and EUV films are needed to protect the photomask from particle contamination during chip production. In recent years, the phenomenon of chipmakers adopting extreme ultraviolet (EUV) processes in their advanced chip manufacturing is rapidly increasing. To meet this growing demand, many companies are developing protective films for EUV processes. ASML launched its first EUV pellicle in 2019 and licensed the technology to Mitsui Chemicals, which began

mass sales in 2021. Since then, ASML has made improvements to its pellicle. It is reported that Mitsui Chemicals' next-generation CNT pellicle production facility will be completed by the end of 2025. In 2021, South Korean company S&S Tech developed a pellicle with a transmittance of more than 90%. FST's EUV pellicle is still in the development stage. Canatu has been working with Imec since 2015 to develop CNT pellicle to meet performance targets such as life and transmittance, thermal durability, permeability and strength.

The global Semiconductor EUV Pellicles market size was estimated at USD 78.8 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 8.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Semiconductor EUV Pellicles market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Semiconductor EUV Pellicles market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Semiconductor EUV Pellicles market.

Global Semiconductor EUV Pellicles Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

ASML
Canatu
Mitsui Chemicals
S & S Tech
FST

Market Segmentation (by Type)

Above 90% Transmittance
?90% Transmittance

Market Segmentation (by Application)

IDM
Foundry

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance

Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Semiconductor EUV Pellicles Market
Overview of the regional outlook of the Semiconductor EUV Pellicles Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Semiconductor EUV Pellicles Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application,

covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Semiconductor EUV Pellicles, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and

acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Semiconductor EUV Pellicles
- 1.2 Key Market Segments
 - 1.2.1 Semiconductor EUV Pellicles Segment by Type
 - 1.2.2 Semiconductor EUV Pellicles Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 SEMICONDUCTOR EUV PELLICLES MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Semiconductor EUV Pellicles Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Semiconductor EUV Pellicles Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 SEMICONDUCTOR EUV PELLICLES MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Semiconductor EUV Pellicles Product Life Cycle
- 3.3 Global Semiconductor EUV Pellicles Sales by Manufacturers (2020-2025)
- 3.4 Global Semiconductor EUV Pellicles Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Semiconductor EUV Pellicles Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Semiconductor EUV Pellicles Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Semiconductor EUV Pellicles Market Competitive Situation and Trends
 - 3.8.1 Semiconductor EUV Pellicles Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Semiconductor EUV Pellicles Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SEMICONDUCTOR EUV PELLICLES INDUSTRY CHAIN ANALYSIS

4.1 Semiconductor EUV Pellicles Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SEMICONDUCTOR EUV PELLICLES MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Semiconductor EUV Pellicles Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Semiconductor EUV Pellicles Market

5.7 ESG Ratings of Leading Companies

6 SEMICONDUCTOR EUV PELLICLES MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Semiconductor EUV Pellicles Sales Market Share by Type (2020-2025)

6.3 Global Semiconductor EUV Pellicles Market Size by Type (2020-2025)

6.4 Global Semiconductor EUV Pellicles Price by Type (2020-2025)

7 SEMICONDUCTOR EUV PELLICLES MARKET SEGMENTATION BY

APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Semiconductor EUV Pellicles Market Sales by Application (2020-2025)
- 7.3 Global Semiconductor EUV Pellicles Market Size (M USD) by Application (2020-2025)
- 7.4 Global Semiconductor EUV Pellicles Sales Growth Rate by Application (2020-2025)

8 SEMICONDUCTOR EUV PELLICLES MARKET SALES BY REGION

- 8.1 Global Semiconductor EUV Pellicles Sales by Region
 - 8.1.1 Global Semiconductor EUV Pellicles Sales by Region
 - 8.1.2 Global Semiconductor EUV Pellicles Sales Market Share by Region
- 8.2 Global Semiconductor EUV Pellicles Market Size by Region
 - 8.2.1 Global Semiconductor EUV Pellicles Market Size by Region
 - 8.2.2 Global Semiconductor EUV Pellicles Market Size by Region
- 8.3 North America
 - 8.3.1 North America Semiconductor EUV Pellicles Sales by Country
 - 8.3.2 North America Semiconductor EUV Pellicles Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Semiconductor EUV Pellicles Sales by Country
 - 8.4.2 Europe Semiconductor EUV Pellicles Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Semiconductor EUV Pellicles Sales by Region
 - 8.5.2 Asia Pacific Semiconductor EUV Pellicles Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America

- 8.6.1 South America Semiconductor EUV Pellicles Sales by Country
- 8.6.2 South America Semiconductor EUV Pellicles Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Semiconductor EUV Pellicles Sales by Region
 - 8.7.2 Middle East and Africa Semiconductor EUV Pellicles Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 SEMICONDUCTOR EUV PELLICLES MARKET PRODUCTION BY REGION

- 9.1 Global Production of Semiconductor EUV Pellicles by Region(2020-2025)
- 9.2 Global Semiconductor EUV Pellicles Revenue Market Share by Region (2020-2025)
- 9.3 Global Semiconductor EUV Pellicles Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Semiconductor EUV Pellicles Production
 - 9.4.1 North America Semiconductor EUV Pellicles Production Growth Rate (2020-2025)
 - 9.4.2 North America Semiconductor EUV Pellicles Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Semiconductor EUV Pellicles Production
 - 9.5.1 Europe Semiconductor EUV Pellicles Production Growth Rate (2020-2025)
 - 9.5.2 Europe Semiconductor EUV Pellicles Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Semiconductor EUV Pellicles Production (2020-2025)
 - 9.6.1 Japan Semiconductor EUV Pellicles Production Growth Rate (2020-2025)
 - 9.6.2 Japan Semiconductor EUV Pellicles Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Semiconductor EUV Pellicles Production (2020-2025)
 - 9.7.1 China Semiconductor EUV Pellicles Production Growth Rate (2020-2025)
 - 9.7.2 China Semiconductor EUV Pellicles Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 ASML

- 10.1.1 ASML Basic Information
- 10.1.2 ASML Semiconductor EUV Pellicles Product Overview
- 10.1.3 ASML Semiconductor EUV Pellicles Product Market Performance
- 10.1.4 ASML Business Overview
- 10.1.5 ASML SWOT Analysis
- 10.1.6 ASML Recent Developments

10.2 Canatu

- 10.2.1 Canatu Basic Information
- 10.2.2 Canatu Semiconductor EUV Pellicles Product Overview
- 10.2.3 Canatu Semiconductor EUV Pellicles Product Market Performance
- 10.2.4 Canatu Business Overview
- 10.2.5 Canatu SWOT Analysis
- 10.2.6 Canatu Recent Developments

10.3 Mitsui Chemicals

- 10.3.1 Mitsui Chemicals Basic Information
- 10.3.2 Mitsui Chemicals Semiconductor EUV Pellicles Product Overview
- 10.3.3 Mitsui Chemicals Semiconductor EUV Pellicles Product Market Performance
- 10.3.4 Mitsui Chemicals Business Overview
- 10.3.5 Mitsui Chemicals SWOT Analysis
- 10.3.6 Mitsui Chemicals Recent Developments

10.4 S and S Tech

- 10.4.1 S and S Tech Basic Information
- 10.4.2 S and S Tech Semiconductor EUV Pellicles Product Overview
- 10.4.3 S and S Tech Semiconductor EUV Pellicles Product Market Performance
- 10.4.4 S and S Tech Business Overview
- 10.4.5 S and S Tech Recent Developments

10.5 FST

- 10.5.1 FST Basic Information
- 10.5.2 FST Semiconductor EUV Pellicles Product Overview
- 10.5.3 FST Semiconductor EUV Pellicles Product Market Performance
- 10.5.4 FST Business Overview
- 10.5.5 FST Recent Developments

11 SEMICONDUCTOR EUV PELLICLES MARKET FORECAST BY REGION

- 11.1 Global Semiconductor EUV Pellicles Market Size Forecast
- 11.2 Global Semiconductor EUV Pellicles Market Forecast by Region

- 11.2.1 North America Market Size Forecast by Country
- 11.2.2 Europe Semiconductor EUV Pellicles Market Size Forecast by Country
- 11.2.3 Asia Pacific Semiconductor EUV Pellicles Market Size Forecast by Region
- 11.2.4 South America Semiconductor EUV Pellicles Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of Semiconductor EUV Pellicles by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Semiconductor EUV Pellicles Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Semiconductor EUV Pellicles by Type (2026-2035)
 - 12.1.2 Global Semiconductor EUV Pellicles Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Semiconductor EUV Pellicles by Type (2026-2035)
- 12.2 Global Semiconductor EUV Pellicles Market Forecast by Application (2026-2035)
 - 12.2.1 Global Semiconductor EUV Pellicles Sales (K MT) Forecast by Application
 - 12.2.2 Global Semiconductor EUV Pellicles Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Semiconductor EUV Pellicles Market Size by Type (M USD)

Table 4. Global Semiconductor EUV Pellicles Market Size by Application

Table 5. Semiconductor EUV Pellicles Market Size Comparison by Region (M USD)

Table 6. Global Semiconductor EUV Pellicles Sales (K MT) by Manufacturers
(2020-2025)

Table 7. Global Semiconductor EUV Pellicles Sales Market Share by Manufacturers
(2020-2025)

Table 8. Global Semiconductor EUV Pellicles Revenue (M USD) by Manufacturers
(2020-2025)

Table 9. Global Semiconductor EUV Pellicles Revenue Share by Manufacturers
(2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in
Semiconductor EUV Pellicles as of 2025)

Table 11. Global Market Semiconductor EUV Pellicles Average Price (USD/KG) of Key
Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Semiconductor EUV Pellicles Manufacturers Market Concentration
Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Semiconductor EUV Pellicles Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading
Countries

Table 26. Global Semiconductor EUV Pellicles Sales by Type (K MT)

Table 27. Global Semiconductor EUV Pellicles Market Size by Type (M USD)

Table 28. Global Semiconductor EUV Pellicles Sales (K MT) by Type (2020-2025)

Table 29. Global Semiconductor EUV Pellicles Sales Market Share by Type (2020-2025)

Table 30. Global Semiconductor EUV Pellicles Market Size (M USD) by Type (2020-2025)

Table 31. Global Semiconductor EUV Pellicles Market Share by Type (2020-2025)

Table 32. Global Semiconductor EUV Pellicles Price (USD/KG) by Type (2020-2025)

Table 33. Global Semiconductor EUV Pellicles Sales (K MT) by Application

Table 34. Global Semiconductor EUV Pellicles Market Size by Application

Table 35. Global Semiconductor EUV Pellicles Sales by Application (2020-2025) & (K MT)

Table 36. Global Semiconductor EUV Pellicles Sales Market Share by Application (2020-2025)

Table 37. Global Semiconductor EUV Pellicles Market Size by Application (2020-2025) & (M USD)

Table 38. Global Semiconductor EUV Pellicles Market Share by Application (2020-2025)

Table 39. Global Semiconductor EUV Pellicles Sales Growth Rate by Application (2020-2025)

Table 40. Global Semiconductor EUV Pellicles Sales by Region (2020-2025) & (K MT)

Table 41. Global Semiconductor EUV Pellicles Sales Market Share by Region (2020-2025)

Table 42. Global Semiconductor EUV Pellicles Market Size by Region (2020-2025) & (M USD)

Table 43. Global Semiconductor EUV Pellicles Market Size by Region (2020-2025)

Table 44. North America Semiconductor EUV Pellicles Sales by Country (2020-2025) & (K MT)

Table 45. North America Semiconductor EUV Pellicles Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Semiconductor EUV Pellicles Sales by Country (2020-2025) & (K MT)

Table 47. Europe Semiconductor EUV Pellicles Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Semiconductor EUV Pellicles Sales by Region (2020-2025) & (K MT)

Table 49. Asia Pacific Semiconductor EUV Pellicles Market Size by Region (2020-2025) & (M USD)

Table 50. South America Semiconductor EUV Pellicles Sales by Country (2020-2025) & (K MT)

Table 51. South America Semiconductor EUV Pellicles Market Size by Country

(2020-2025) & (M USD)

Table 52. Middle East and Africa Semiconductor EUV Pellicles Sales by Region (2020-2025) & (K MT)

Table 53. Middle East and Africa Semiconductor EUV Pellicles Market Size by Region (2020-2025) & (M USD)

Table 54. Global Semiconductor EUV Pellicles Production (K MT) by Region(2020-2025)

Table 55. Global Semiconductor EUV Pellicles Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Semiconductor EUV Pellicles Revenue Market Share by Region (2020-2025)

Table 57. Global Semiconductor EUV Pellicles Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. North America Semiconductor EUV Pellicles Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe Semiconductor EUV Pellicles Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan Semiconductor EUV Pellicles Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China Semiconductor EUV Pellicles Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. ASML Basic Information

Table 63. ASML Semiconductor EUV Pellicles Product Overview

Table 64. ASML Semiconductor EUV Pellicles Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. ASML Business Overview

Table 66. ASML SWOT Analysis

Table 67. ASML Recent Developments

Table 68. Canatu Basic Information

Table 69. Canatu Semiconductor EUV Pellicles Product Overview

Table 70. Canatu Semiconductor EUV Pellicles Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Canatu Business Overview

Table 72. Canatu SWOT Analysis

Table 73. Canatu Recent Developments

Table 74. Mitsui Chemicals Basic Information

Table 75. Mitsui Chemicals Semiconductor EUV Pellicles Product Overview

Table 76. Mitsui Chemicals Semiconductor EUV Pellicles Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

- Table 77. Mitsui Chemicals Business Overview
- Table 78. Mitsui Chemicals SWOT Analysis
- Table 79. Mitsui Chemicals Recent Developments
- Table 80. S and S Tech Basic Information
- Table 81. S and S Tech Semiconductor EUV Pellicles Product Overview
- Table 82. S and S Tech Semiconductor EUV Pellicles Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 83. S and S Tech Business Overview
- Table 84. S and S Tech Recent Developments
- Table 85. FST Basic Information
- Table 86. FST Semiconductor EUV Pellicles Product Overview
- Table 87. FST Semiconductor EUV Pellicles Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 88. FST Business Overview
- Table 89. FST Recent Developments
- Table 90. Global Semiconductor EUV Pellicles Sales Forecast by Region (2026-2035) & (K MT)
- Table 91. Global Semiconductor EUV Pellicles Market Size Forecast by Region (2026-2035) & (M USD)
- Table 92. North America Semiconductor EUV Pellicles Sales Forecast by Country (2026-2035) & (K MT)
- Table 93. North America Semiconductor EUV Pellicles Market Size Forecast by Country (2026-2035) & (M USD)
- Table 94. Europe Semiconductor EUV Pellicles Sales Forecast by Country (2026-2035) & (K MT)
- Table 95. Europe Semiconductor EUV Pellicles Market Size Forecast by Country (2026-2035) & (M USD)
- Table 96. Asia Pacific Semiconductor EUV Pellicles Sales Forecast by Region (2026-2035) & (K MT)
- Table 97. Asia Pacific Semiconductor EUV Pellicles Market Size Forecast by Region (2026-2035) & (M USD)
- Table 98. South America Semiconductor EUV Pellicles Sales Forecast by Country (2026-2035) & (K MT)
- Table 99. South America Semiconductor EUV Pellicles Market Size Forecast by Country (2026-2035) & (M USD)
- Table 100. Middle East and Africa Semiconductor EUV Pellicles Sales Forecast by Country (2026-2035) & (Units)
- Table 101. Middle East and Africa Semiconductor EUV Pellicles Market Size Forecast by Country (2026-2035) & (M USD)

Table 102. Global Semiconductor EUV Pellicles Sales Forecast by Type (2026-2035) & (K MT)

Table 103. Global Semiconductor EUV Pellicles Market Size Forecast by Type (2026-2035) & (M USD)

Table 104. Global Semiconductor EUV Pellicles Price Forecast by Type (2026-2035) & (USD/KG)

Table 105. Global Semiconductor EUV Pellicles Sales (K MT) Forecast by Application (2026-2035)

Table 106. Global Semiconductor EUV Pellicles Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Semiconductor EUV Pellicles
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Semiconductor EUV Pellicles Market Size (M USD), 2025-2035
- Figure 5. Global Semiconductor EUV Pellicles Market Size (M USD) (2020-2035)
- Figure 6. Global Semiconductor EUV Pellicles Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Semiconductor EUV Pellicles Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Semiconductor EUV Pellicles Product Life Cycle
- Figure 13. Semiconductor EUV Pellicles Sales Share by Manufacturers in 2025
- Figure 14. Global Semiconductor EUV Pellicles Revenue Share by Manufacturers in 2025
- Figure 15. Semiconductor EUV Pellicles Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Semiconductor EUV Pellicles Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Semiconductor EUV Pellicles Revenue in 2025
- Figure 18. Industry Chain Map of Semiconductor EUV Pellicles
- Figure 19. Global Semiconductor EUV Pellicles Market PEST Analysis
- Figure 20. Global Semiconductor EUV Pellicles Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Semiconductor EUV Pellicles Market Share by Type
- Figure 27. Sales Market Share of Semiconductor EUV Pellicles by Type (2020-2025)
- Figure 28. Sales Market Share of Semiconductor EUV Pellicles by Type in 2025
- Figure 29. Market Share of Semiconductor EUV Pellicles by Type (2020-2025)
- Figure 30. Market Share of Semiconductor EUV Pellicles by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Semiconductor EUV Pellicles Market Share by Application
- Figure 33. Global Semiconductor EUV Pellicles Sales Market Share by Application (2020-2025)
- Figure 34. Global Semiconductor EUV Pellicles Sales Market Share by Application in 2025
- Figure 35. Global Semiconductor EUV Pellicles Market Share by Application (2020-2025)
- Figure 36. Global Semiconductor EUV Pellicles Market Share by Application in 2025
- Figure 37. Global Semiconductor EUV Pellicles Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Semiconductor EUV Pellicles Sales Market Share by Region (2020-2025)
- Figure 39. Global Semiconductor EUV Pellicles Market Size by Region (2020-2025)
- Figure 40. North America Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Semiconductor EUV Pellicles Sales Market Share by Country in 2024
- Figure 43. North America Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Semiconductor EUV Pellicles Market Size by Country in 2024
- Figure 45. U.S. Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Semiconductor EUV Pellicles Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Semiconductor EUV Pellicles Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Semiconductor EUV Pellicles Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Semiconductor EUV Pellicles Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe Semiconductor EUV Pellicles Sales Market Share by Country in 2024
- Figure 53. Europe Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Semiconductor EUV Pellicles Market Size by Country in 2024

Figure 55. Germany Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Semiconductor EUV Pellicles Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Semiconductor EUV Pellicles Sales Market Share by Region in 2024

Figure 67. Asia Pacific Semiconductor EUV Pellicles Market Size by Region in 2024

Figure 68. China Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

- Figure 75. India Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 76. Southeast Asia Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)
- Figure 77. Southeast Asia Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 78. South America Semiconductor EUV Pellicles Sales and Growth Rate (K MT)
- Figure 79. South America Semiconductor EUV Pellicles Sales Market Share by Country in 2024
- Figure 80. South America Semiconductor EUV Pellicles Market Size and Growth Rate (M USD)
- Figure 81. South America Semiconductor EUV Pellicles Market Size by Country in 2024
- Figure 82. Brazil Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)
- Figure 83. Brazil Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 84. Argentina Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)
- Figure 85. Argentina Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 86. Columbia Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)
- Figure 87. Columbia Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 88. Middle East and Africa Semiconductor EUV Pellicles Sales and Growth Rate (K MT)
- Figure 89. Middle East and Africa Semiconductor EUV Pellicles Sales Market Share by Region in 2024
- Figure 90. Middle East and Africa Semiconductor EUV Pellicles Market Size and Growth Rate (M USD)
- Figure 91. Middle East and Africa Semiconductor EUV Pellicles Market Size by Region in 2024
- Figure 92. Saudi Arabia Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)
- Figure 93. Saudi Arabia Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 94. UAE Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)
- Figure 95. UAE Semiconductor EUV Pellicles Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 96. Egypt Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Semiconductor EUV Pellicles Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Semiconductor EUV Pellicles Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Semiconductor EUV Pellicles Production Market Share by Region (2020-2025)

Figure 103. North America Semiconductor EUV Pellicles Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Semiconductor EUV Pellicles Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Semiconductor EUV Pellicles Production (K MT) Growth Rate (2020-2025)

Figure 106. China Semiconductor EUV Pellicles Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Semiconductor EUV Pellicles Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Semiconductor EUV Pellicles Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Semiconductor EUV Pellicles Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Semiconductor EUV Pellicles Market Share Forecast by Type (2026-2035)

Figure 111. Global Semiconductor EUV Pellicles Sales Forecast by Application (2026-2035)

Figure 112. Global Semiconductor EUV Pellicles Market Share Forecast by Application (2026-2035)

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