

# Global Compound Semiconductor Material And Device Market Research Report 2024(Status and Outlook)

<https://marketpublishers.com/r/GA743ED33046EN.html>

Date: September 2024

Pages: 164

Price: US\$ 3,200.00 (Single User License)

ID: GA743ED33046EN

## Abstracts

### Report Overview:

Compound semiconductor materials and devices refer to materials that are made by combining two or more elements from different groups in the periodic table. These materials exhibit unique electronic and optical properties, making them ideal for various applications in electronics, telecommunications, optoelectronics, and power electronics.

Some common types of compound semiconductors include:

**Gallium arsenide (GaAs):** Widely used in high-speed electronic devices, such as transistors, integrated circuits, and laser diodes.

**Indium phosphide (InP):** Used in high-frequency and high-power applications, including communication systems, laser diodes, and solar cells.

**Gallium nitride (GaN):** Known for its wide bandgap, GaN is used in high-frequency power amplifiers, LEDs, and radio frequency devices.

**Silicon carbide (SiC):** Known for its high-temperature stability and high breakdown voltage, SiC is used in power electronics, LED lighting, and advanced sensors.

**Zinc selenide (ZnSe):** Widely used in optoelectronic devices, such as lasers, LEDs, and photodiodes.

**Copper indium gallium selenide (CIGS):** Used in thin-film solar cells for photovoltaic

applications.

Compound semiconductor devices include various electronic and optoelectronic components, such as transistors, diodes, lasers, photodetectors, solar cells, and integrated circuits. These devices offer advantages like high efficiency, high power density, and high-speed operation compared to traditional semiconductor devices made of silicon.

Compound semiconductor materials and devices play a crucial role in advancing technology and enabling various applications, including wireless communication, renewable energy, lighting, and medical devices.

The Global Compound Semiconductor Material And Device Market Size was estimated at USD 1098.46 million in 2023 and is projected to reach USD 1438.71 million by 2029, exhibiting a CAGR of 4.60% during the forecast period.

This report provides a deep insight into the global Compound Semiconductor Material And Device market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Compound Semiconductor Material And Device Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Compound Semiconductor Material And Device market in any manner.

**Global Compound Semiconductor Material And Device Market: Market Segmentation Analysis**

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

### Key Company

Cree Inc.

IQE plc

Nichia Corporation

Sumitomo Electric Industries, Ltd.

II-VI Incorporated

Samsung Electronics Co., Ltd.

Broadcom Inc.

Texas Instruments Inc.

Infineon Technologies AG

MACOM Technology Solutions Holdings, Inc.

NXP Semiconductors N.V.

Taiwan Semiconductor Manufacturing Company (TSMC)

Stmicroelectronics

Freescale Semiconductor

Texas Instruments

Renesas Electronics

Koninklijke Philips

International Quantum Epitaxy

Toshiba America Electronic Components, Inc.

Mitsubishi Electric Corporation

Analog Devices, Inc.

Skyworks Solutions, Inc.

Market Segmentation (by Type)

SiGe

GaAs

GaN

ZnSe

InP

SiC

InGaAIP

InGaN

Others

Market Segmentation (by Application)

Automotive

Medical

ICT Industry

Energy Industry

Consumer Electronics

Aerospace and Defense

Others

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 Compound Semiconductor Material And Device Market

Overview of the regional outlook of the Compound Semiconductor Material And Device Market:

#### 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 (USD Billion) 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

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Note: this report may need to undergo a final check or review and this could take about 48 hours.

### 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 Compound Semiconductor Material And Device 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 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 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.



## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Compound Semiconductor Material And Device
- 1.2 Key Market Segments
  - 1.2.1 Compound Semiconductor Material And Device Segment by Type
  - 1.2.2 Compound Semiconductor Material And Device 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 COMPOUND SEMICONDUCTOR MATERIAL AND DEVICE MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Compound Semiconductor Material And Device Market Size (M USD) Estimates and Forecasts (2019-2030)
  - 2.1.2 Global Compound Semiconductor Material And Device Sales Estimates and Forecasts (2019-2030)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 COMPOUND SEMICONDUCTOR MATERIAL AND DEVICE MARKET COMPETITIVE LANDSCAPE**

- 3.1 Global Compound Semiconductor Material And Device Sales by Manufacturers (2019-2024)
- 3.2 Global Compound Semiconductor Material And Device Revenue Market Share by Manufacturers (2019-2024)
- 3.3 Compound Semiconductor Material And Device Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.4 Global Compound Semiconductor Material And Device Average Price by Manufacturers (2019-2024)
- 3.5 Manufacturers Compound Semiconductor Material And Device Sales Sites, Area Served, Product Type

### 3.6 Compound Semiconductor Material And Device Market Competitive Situation and Trends

3.6.1 Compound Semiconductor Material And Device Market Concentration Rate

3.6.2 Global 5 and 10 Largest Compound Semiconductor Material And Device Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

## **4 COMPOUND SEMICONDUCTOR MATERIAL AND DEVICE INDUSTRY CHAIN ANALYSIS**

4.1 Compound Semiconductor Material And Device 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 COMPOUND SEMICONDUCTOR MATERIAL AND DEVICE MARKET**

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

## **6 COMPOUND SEMICONDUCTOR MATERIAL AND DEVICE MARKET SEGMENTATION BY TYPE**

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Compound Semiconductor Material And Device Sales Market Share by Type (2019-2024)

6.3 Global Compound Semiconductor Material And Device Market Size Market Share by Type (2019-2024)

6.4 Global Compound Semiconductor Material And Device Price by Type (2019-2024)

## **7 COMPOUND SEMICONDUCTOR MATERIAL AND DEVICE MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Compound Semiconductor Material And Device Market Sales by Application (2019-2024)
- 7.3 Global Compound Semiconductor Material And Device Market Size (M USD) by Application (2019-2024)
- 7.4 Global Compound Semiconductor Material And Device Sales Growth Rate by Application (2019-2024)

## **8 COMPOUND SEMICONDUCTOR MATERIAL AND DEVICE MARKET SEGMENTATION BY REGION**

- 8.1 Global Compound Semiconductor Material And Device Sales by Region
  - 8.1.1 Global Compound Semiconductor Material And Device Sales by Region
  - 8.1.2 Global Compound Semiconductor Material And Device Sales Market Share by Region
- 8.2 North America
  - 8.2.1 North America Compound Semiconductor Material And Device Sales by Country
  - 8.2.2 U.S.
  - 8.2.3 Canada
  - 8.2.4 Mexico
- 8.3 Europe
  - 8.3.1 Europe Compound Semiconductor Material And Device Sales by Country
  - 8.3.2 Germany
  - 8.3.3 France
  - 8.3.4 U.K.
  - 8.3.5 Italy
  - 8.3.6 Russia
- 8.4 Asia Pacific
  - 8.4.1 Asia Pacific Compound Semiconductor Material And Device Sales by Region
  - 8.4.2 China
  - 8.4.3 Japan
  - 8.4.4 South Korea
  - 8.4.5 India
  - 8.4.6 Southeast Asia
- 8.5 South America
  - 8.5.1 South America Compound Semiconductor Material And Device Sales by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa Compound Semiconductor Material And Device Sales by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

## **9 KEY COMPANIES PROFILE**

9.1 Cree Inc.

9.1.1 Cree Inc. Compound Semiconductor Material And Device Basic Information

9.1.2 Cree Inc. Compound Semiconductor Material And Device Product Overview

9.1.3 Cree Inc. Compound Semiconductor Material And Device Product Market Performance

9.1.4 Cree Inc. Business Overview

9.1.5 Cree Inc. Compound Semiconductor Material And Device SWOT Analysis

9.1.6 Cree Inc. Recent Developments

9.2 IQE plc

9.2.1 IQE plc Compound Semiconductor Material And Device Basic Information

9.2.2 IQE plc Compound Semiconductor Material And Device Product Overview

9.2.3 IQE plc Compound Semiconductor Material And Device Product Market Performance

9.2.4 IQE plc Business Overview

9.2.5 IQE plc Compound Semiconductor Material And Device SWOT Analysis

9.2.6 IQE plc Recent Developments

9.3 Nichia Corporation

9.3.1 Nichia Corporation Compound Semiconductor Material And Device Basic Information

9.3.2 Nichia Corporation Compound Semiconductor Material And Device Product Overview

9.3.3 Nichia Corporation Compound Semiconductor Material And Device Product Market Performance

9.3.4 Nichia Corporation Compound Semiconductor Material And Device SWOT Analysis

- 9.3.5 Nichia Corporation Business Overview
- 9.3.6 Nichia Corporation Recent Developments
- 9.4 Sumitomo Electric Industries, Ltd.
  - 9.4.1 Sumitomo Electric Industries, Ltd. Compound Semiconductor Material And Device Basic Information
  - 9.4.2 Sumitomo Electric Industries, Ltd. Compound Semiconductor Material And Device Product Overview
  - 9.4.3 Sumitomo Electric Industries, Ltd. Compound Semiconductor Material And Device Product Market Performance
  - 9.4.4 Sumitomo Electric Industries, Ltd. Business Overview
  - 9.4.5 Sumitomo Electric Industries, Ltd. Recent Developments
- 9.5 II-VI Incorporated
  - 9.5.1 II-VI Incorporated Compound Semiconductor Material And Device Basic Information
  - 9.5.2 II-VI Incorporated Compound Semiconductor Material And Device Product Overview
  - 9.5.3 II-VI Incorporated Compound Semiconductor Material And Device Product Market Performance
  - 9.5.4 II-VI Incorporated Business Overview
  - 9.5.5 II-VI Incorporated Recent Developments
- 9.6 Samsung Electronics Co., Ltd.
  - 9.6.1 Samsung Electronics Co., Ltd. Compound Semiconductor Material And Device Basic Information
  - 9.6.2 Samsung Electronics Co., Ltd. Compound Semiconductor Material And Device Product Overview
  - 9.6.3 Samsung Electronics Co., Ltd. Compound Semiconductor Material And Device Product Market Performance
  - 9.6.4 Samsung Electronics Co., Ltd. Business Overview
  - 9.6.5 Samsung Electronics Co., Ltd. Recent Developments
- 9.7 Broadcom Inc.
  - 9.7.1 Broadcom Inc. Compound Semiconductor Material And Device Basic Information
  - 9.7.2 Broadcom Inc. Compound Semiconductor Material And Device Product Overview
  - 9.7.3 Broadcom Inc. Compound Semiconductor Material And Device Product Market Performance
  - 9.7.4 Broadcom Inc. Business Overview
  - 9.7.5 Broadcom Inc. Recent Developments
- 9.8 Texas Instruments Inc.
  - 9.8.1 Texas Instruments Inc. Compound Semiconductor Material And Device Basic

## Information

9.8.2 Texas Instruments Inc. Compound Semiconductor Material And Device Product Overview

9.8.3 Texas Instruments Inc. Compound Semiconductor Material And Device Product Market Performance

9.8.4 Texas Instruments Inc. Business Overview

9.8.5 Texas Instruments Inc. Recent Developments

## 9.9 Infineon Technologies AG

9.9.1 Infineon Technologies AG Compound Semiconductor Material And Device Basic Information

9.9.2 Infineon Technologies AG Compound Semiconductor Material And Device Product Overview

9.9.3 Infineon Technologies AG Compound Semiconductor Material And Device Product Market Performance

9.9.4 Infineon Technologies AG Business Overview

9.9.5 Infineon Technologies AG Recent Developments

## 9.10 MACOM Technology Solutions Holdings, Inc.

9.10.1 MACOM Technology Solutions Holdings, Inc. Compound Semiconductor Material And Device Basic Information

9.10.2 MACOM Technology Solutions Holdings, Inc. Compound Semiconductor Material And Device Product Overview

9.10.3 MACOM Technology Solutions Holdings, Inc. Compound Semiconductor Material And Device Product Market Performance

9.10.4 MACOM Technology Solutions Holdings, Inc. Business Overview

9.10.5 MACOM Technology Solutions Holdings, Inc. Recent Developments

## 9.11 NXP Semiconductors N.V.

9.11.1 NXP Semiconductors N.V. Compound Semiconductor Material And Device Basic Information

9.11.2 NXP Semiconductors N.V. Compound Semiconductor Material And Device Product Overview

9.11.3 NXP Semiconductors N.V. Compound Semiconductor Material And Device Product Market Performance

9.11.4 NXP Semiconductors N.V. Business Overview

9.11.5 NXP Semiconductors N.V. Recent Developments

## 9.12 Taiwan Semiconductor Manufacturing Company (TSMC)

9.12.1 Taiwan Semiconductor Manufacturing Company (TSMC) Compound Semiconductor Material And Device Basic Information

9.12.2 Taiwan Semiconductor Manufacturing Company (TSMC) Compound Semiconductor Material And Device Product Overview

- 9.12.3 Taiwan Semiconductor Manufacturing Company (TSMC) Compound Semiconductor Material And Device Product Market Performance
- 9.12.4 Taiwan Semiconductor Manufacturing Company (TSMC) Business Overview
- 9.12.5 Taiwan Semiconductor Manufacturing Company (TSMC) Recent Developments
- 9.13 Stmicroelectronics
  - 9.13.1 Stmicroelectronics Compound Semiconductor Material And Device Basic Information
  - 9.13.2 Stmicroelectronics Compound Semiconductor Material And Device Product Overview
  - 9.13.3 Stmicroelectronics Compound Semiconductor Material And Device Product Market Performance
  - 9.13.4 Stmicroelectronics Business Overview
  - 9.13.5 Stmicroelectronics Recent Developments
- 9.14 Freescale Semiconductor
  - 9.14.1 Freescale Semiconductor Compound Semiconductor Material And Device Basic Information
  - 9.14.2 Freescale Semiconductor Compound Semiconductor Material And Device Product Overview
  - 9.14.3 Freescale Semiconductor Compound Semiconductor Material And Device Product Market Performance
  - 9.14.4 Freescale Semiconductor Business Overview
  - 9.14.5 Freescale Semiconductor Recent Developments
- 9.15 Texas Instruments
  - 9.15.1 Texas Instruments Compound Semiconductor Material And Device Basic Information
  - 9.15.2 Texas Instruments Compound Semiconductor Material And Device Product Overview
  - 9.15.3 Texas Instruments Compound Semiconductor Material And Device Product Market Performance
  - 9.15.4 Texas Instruments Business Overview
  - 9.15.5 Texas Instruments Recent Developments
- 9.16 Renesas Electronics
  - 9.16.1 Renesas Electronics Compound Semiconductor Material And Device Basic Information
  - 9.16.2 Renesas Electronics Compound Semiconductor Material And Device Product Overview
  - 9.16.3 Renesas Electronics Compound Semiconductor Material And Device Product Market Performance
  - 9.16.4 Renesas Electronics Business Overview

- 9.16.5 Renesas Electronics Recent Developments
- 9.17 Koninklijke Philips
  - 9.17.1 Koninklijke Philips Compound Semiconductor Material And Device Basic Information
  - 9.17.2 Koninklijke Philips Compound Semiconductor Material And Device Product Overview
  - 9.17.3 Koninklijke Philips Compound Semiconductor Material And Device Product Market Performance
  - 9.17.4 Koninklijke Philips Business Overview
  - 9.17.5 Koninklijke Philips Recent Developments
- 9.18 International Quantum Epitaxy
  - 9.18.1 International Quantum Epitaxy Compound Semiconductor Material And Device Basic Information
  - 9.18.2 International Quantum Epitaxy Compound Semiconductor Material And Device Product Overview
  - 9.18.3 International Quantum Epitaxy Compound Semiconductor Material And Device Product Market Performance
  - 9.18.4 International Quantum Epitaxy Business Overview
  - 9.18.5 International Quantum Epitaxy Recent Developments
- 9.19 Toshiba America Electronic Components, Inc.
  - 9.19.1 Toshiba America Electronic Components, Inc. Compound Semiconductor Material And Device Basic Information
  - 9.19.2 Toshiba America Electronic Components, Inc. Compound Semiconductor Material And Device Product Overview
  - 9.19.3 Toshiba America Electronic Components, Inc. Compound Semiconductor Material And Device Product Market Performance
  - 9.19.4 Toshiba America Electronic Components, Inc. Business Overview
  - 9.19.5 Toshiba America Electronic Components, Inc. Recent Developments
- 9.20 Mitsubishi Electric Corporation
  - 9.20.1 Mitsubishi Electric Corporation Compound Semiconductor Material And Device Basic Information
  - 9.20.2 Mitsubishi Electric Corporation Compound Semiconductor Material And Device Product Overview
  - 9.20.3 Mitsubishi Electric Corporation Compound Semiconductor Material And Device Product Market Performance
  - 9.20.4 Mitsubishi Electric Corporation Business Overview
  - 9.20.5 Mitsubishi Electric Corporation Recent Developments
- 9.21 Analog Devices, Inc.
  - 9.21.1 Analog Devices, Inc. Compound Semiconductor Material And Device Basic



## Information

9.21.2 Analog Devices, Inc. Compound Semiconductor Material And Device Product Overview

9.21.3 Analog Devices, Inc. Compound Semiconductor Material And Device Product Market Performance

9.21.4 Analog Devices, Inc. Business Overview

9.21.5 Analog Devices, Inc. Recent Developments

9.22 Skyworks Solutions, Inc.

9.22.1 Skyworks Solutions, Inc. Compound Semiconductor Material And Device Basic Information

9.22.2 Skyworks Solutions, Inc. Compound Semiconductor Material And Device Product Overview

9.22.3 Skyworks Solutions, Inc. Compound Semiconductor Material And Device Product Market Performance

9.22.4 Skyworks Solutions, Inc. Business Overview

9.22.5 Skyworks Solutions, Inc. Recent Developments

## **10 COMPOUND SEMICONDUCTOR MATERIAL AND DEVICE MARKET FORECAST BY REGION**

10.1 Global Compound Semiconductor Material And Device Market Size Forecast

10.2 Global Compound Semiconductor Material And Device Market Forecast by Region

10.2.1 North America Market Size Forecast by Country

10.2.2 Europe Compound Semiconductor Material And Device Market Size Forecast by Country

10.2.3 Asia Pacific Compound Semiconductor Material And Device Market Size Forecast by Region

10.2.4 South America Compound Semiconductor Material And Device Market Size Forecast by Country

10.2.5 Middle East and Africa Forecasted Consumption of Compound Semiconductor Material And Device by Country

## **11 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2030)**

11.1 Global Compound Semiconductor Material And Device Market Forecast by Type (2025-2030)

11.1.1 Global Forecasted Sales of Compound Semiconductor Material And Device by Type (2025-2030)

11.1.2 Global Compound Semiconductor Material And Device Market Size Forecast by

Type (2025-2030)

11.1.3 Global Forecasted Price of Compound Semiconductor Material And Device by Type (2025-2030)

11.2 Global Compound Semiconductor Material And Device Market Forecast by Application (2025-2030)

11.2.1 Global Compound Semiconductor Material And Device Sales (K Units) Forecast by Application

11.2.2 Global Compound Semiconductor Material And Device Market Size (M USD) Forecast by Application (2025-2030)

## **12 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Compound Semiconductor Material And Device Market Size Comparison by Region (M USD)

Table 5. Global Compound Semiconductor Material And Device Sales (K Units) by Manufacturers (2019-2024)

Table 6. Global Compound Semiconductor Material And Device Sales Market Share by Manufacturers (2019-2024)

Table 7. Global Compound Semiconductor Material And Device Revenue (M USD) by Manufacturers (2019-2024)

Table 8. Global Compound Semiconductor Material And Device Revenue Share by Manufacturers (2019-2024)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Compound Semiconductor Material And Device as of 2022)

Table 10. Global Market Compound Semiconductor Material And Device Average Price (USD/Unit) of Key Manufacturers (2019-2024)

Table 11. Manufacturers Compound Semiconductor Material And Device Sales Sites and Area Served

Table 12. Manufacturers Compound Semiconductor Material And Device Product Type

Table 13. Global Compound Semiconductor Material And Device Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of Compound Semiconductor Material And Device

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. Compound Semiconductor Material And Device Market Challenges

Table 22. Global Compound Semiconductor Material And Device Sales by Type (K Units)

Table 23. Global Compound Semiconductor Material And Device Market Size by Type (M USD)

Table 24. Global Compound Semiconductor Material And Device Sales (K Units) by

Type (2019-2024)

Table 25. Global Compound Semiconductor Material And Device Sales Market Share by Type (2019-2024)

Table 26. Global Compound Semiconductor Material And Device Market Size (M USD) by Type (2019-2024)

Table 27. Global Compound Semiconductor Material And Device Market Size Share by Type (2019-2024)

Table 28. Global Compound Semiconductor Material And Device Price (USD/Unit) by Type (2019-2024)

Table 29. Global Compound Semiconductor Material And Device Sales (K Units) by Application

Table 30. Global Compound Semiconductor Material And Device Market Size by Application

Table 31. Global Compound Semiconductor Material And Device Sales by Application (2019-2024) & (K Units)

Table 32. Global Compound Semiconductor Material And Device Sales Market Share by Application (2019-2024)

Table 33. Global Compound Semiconductor Material And Device Sales by Application (2019-2024) & (M USD)

Table 34. Global Compound Semiconductor Material And Device Market Share by Application (2019-2024)

Table 35. Global Compound Semiconductor Material And Device Sales Growth Rate by Application (2019-2024)

Table 36. Global Compound Semiconductor Material And Device Sales by Region (2019-2024) & (K Units)

Table 37. Global Compound Semiconductor Material And Device Sales Market Share by Region (2019-2024)

Table 38. North America Compound Semiconductor Material And Device Sales by Country (2019-2024) & (K Units)

Table 39. Europe Compound Semiconductor Material And Device Sales by Country (2019-2024) & (K Units)

Table 40. Asia Pacific Compound Semiconductor Material And Device Sales by Region (2019-2024) & (K Units)

Table 41. South America Compound Semiconductor Material And Device Sales by Country (2019-2024) & (K Units)

Table 42. Middle East and Africa Compound Semiconductor Material And Device Sales by Region (2019-2024) & (K Units)

Table 43. Cree Inc. Compound Semiconductor Material And Device Basic Information

Table 44. Cree Inc. Compound Semiconductor Material And Device Product Overview

Table 45. Cree Inc. Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 46. Cree Inc. Business Overview

Table 47. Cree Inc. Compound Semiconductor Material And Device SWOT Analysis

Table 48. Cree Inc. Recent Developments

Table 49. IQE plc Compound Semiconductor Material And Device Basic Information

Table 50. IQE plc Compound Semiconductor Material And Device Product Overview

Table 51. IQE plc Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 52. IQE plc Business Overview

Table 53. IQE plc Compound Semiconductor Material And Device SWOT Analysis

Table 54. IQE plc Recent Developments

Table 55. Nichia Corporation Compound Semiconductor Material And Device Basic Information

Table 56. Nichia Corporation Compound Semiconductor Material And Device Product Overview

Table 57. Nichia Corporation Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 58. Nichia Corporation Compound Semiconductor Material And Device SWOT Analysis

Table 59. Nichia Corporation Business Overview

Table 60. Nichia Corporation Recent Developments

Table 61. Sumitomo Electric Industries, Ltd. Compound Semiconductor Material And Device Basic Information

Table 62. Sumitomo Electric Industries, Ltd. Compound Semiconductor Material And Device Product Overview

Table 63. Sumitomo Electric Industries, Ltd. Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 64. Sumitomo Electric Industries, Ltd. Business Overview

Table 65. Sumitomo Electric Industries, Ltd. Recent Developments

Table 66. II-VI Incorporated Compound Semiconductor Material And Device Basic Information

Table 67. II-VI Incorporated Compound Semiconductor Material And Device Product Overview

Table 68. II-VI Incorporated Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 69. II-VI Incorporated Business Overview

Table 70. II-VI Incorporated Recent Developments

Table 71. Samsung Electronics Co., Ltd. Compound Semiconductor Material And Device Basic Information

Table 72. Samsung Electronics Co., Ltd. Compound Semiconductor Material And Device Product Overview

Table 73. Samsung Electronics Co., Ltd. Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 74. Samsung Electronics Co., Ltd. Business Overview

Table 75. Samsung Electronics Co., Ltd. Recent Developments

Table 76. Broadcom Inc. Compound Semiconductor Material And Device Basic Information

Table 77. Broadcom Inc. Compound Semiconductor Material And Device Product Overview

Table 78. Broadcom Inc. Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 79. Broadcom Inc. Business Overview

Table 80. Broadcom Inc. Recent Developments

Table 81. Texas Instruments Inc. Compound Semiconductor Material And Device Basic Information

Table 82. Texas Instruments Inc. Compound Semiconductor Material And Device Product Overview

Table 83. Texas Instruments Inc. Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 84. Texas Instruments Inc. Business Overview

Table 85. Texas Instruments Inc. Recent Developments

Table 86. Infineon Technologies AG Compound Semiconductor Material And Device Basic Information

Table 87. Infineon Technologies AG Compound Semiconductor Material And Device Product Overview

Table 88. Infineon Technologies AG Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 89. Infineon Technologies AG Business Overview

Table 90. Infineon Technologies AG Recent Developments

Table 91. MACOM Technology Solutions Holdings, Inc. Compound Semiconductor Material And Device Basic Information

Table 92. MACOM Technology Solutions Holdings, Inc. Compound Semiconductor Material And Device Product Overview

Table 93. MACOM Technology Solutions Holdings, Inc. Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross

Margin (2019-2024)

Table 94. MACOM Technology Solutions Holdings, Inc. Business Overview

Table 95. MACOM Technology Solutions Holdings, Inc. Recent Developments

Table 96. NXP Semiconductors N.V. Compound Semiconductor Material And Device Basic Information

Table 97. NXP Semiconductors N.V. Compound Semiconductor Material And Device Product Overview

Table 98. NXP Semiconductors N.V. Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 99. NXP Semiconductors N.V. Business Overview

Table 100. NXP Semiconductors N.V. Recent Developments

Table 101. Taiwan Semiconductor Manufacturing Company (TSMC) Compound Semiconductor Material And Device Basic Information

Table 102. Taiwan Semiconductor Manufacturing Company (TSMC) Compound Semiconductor Material And Device Product Overview

Table 103. Taiwan Semiconductor Manufacturing Company (TSMC) Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 104. Taiwan Semiconductor Manufacturing Company (TSMC) Business Overview

Table 105. Taiwan Semiconductor Manufacturing Company (TSMC) Recent Developments

Table 106. Stmicroelectronics Compound Semiconductor Material And Device Basic Information

Table 107. Stmicroelectronics Compound Semiconductor Material And Device Product Overview

Table 108. Stmicroelectronics Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 109. Stmicroelectronics Business Overview

Table 110. Stmicroelectronics Recent Developments

Table 111. Freescale Semiconductor Compound Semiconductor Material And Device Basic Information

Table 112. Freescale Semiconductor Compound Semiconductor Material And Device Product Overview

Table 113. Freescale Semiconductor Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 114. Freescale Semiconductor Business Overview

Table 115. Freescale Semiconductor Recent Developments

Table 116. Texas Instruments Compound Semiconductor Material And Device Basic Information

- Table 117. Texas Instruments Compound Semiconductor Material And Device Product Overview
- Table 118. Texas Instruments Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 119. Texas Instruments Business Overview
- Table 120. Texas Instruments Recent Developments
- Table 121. Renesas Electronics Compound Semiconductor Material And Device Basic Information
- Table 122. Renesas Electronics Compound Semiconductor Material And Device Product Overview
- Table 123. Renesas Electronics Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 124. Renesas Electronics Business Overview
- Table 125. Renesas Electronics Recent Developments
- Table 126. Koninklijke Philips Compound Semiconductor Material And Device Basic Information
- Table 127. Koninklijke Philips Compound Semiconductor Material And Device Product Overview
- Table 128. Koninklijke Philips Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 129. Koninklijke Philips Business Overview
- Table 130. Koninklijke Philips Recent Developments
- Table 131. International Quantum Epitaxy Compound Semiconductor Material And Device Basic Information
- Table 132. International Quantum Epitaxy Compound Semiconductor Material And Device Product Overview
- Table 133. International Quantum Epitaxy Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 134. International Quantum Epitaxy Business Overview
- Table 135. International Quantum Epitaxy Recent Developments
- Table 136. Toshiba America Electronic Components, Inc. Compound Semiconductor Material And Device Basic Information
- Table 137. Toshiba America Electronic Components, Inc. Compound Semiconductor Material And Device Product Overview
- Table 138. Toshiba America Electronic Components, Inc. Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 139. Toshiba America Electronic Components, Inc. Business Overview



- Table 140. Toshiba America Electronic Components, Inc. Recent Developments
- Table 141. Mitsubishi Electric Corporation Compound Semiconductor Material And Device Basic Information
- Table 142. Mitsubishi Electric Corporation Compound Semiconductor Material And Device Product Overview
- Table 143. Mitsubishi Electric Corporation Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 144. Mitsubishi Electric Corporation Business Overview
- Table 145. Mitsubishi Electric Corporation Recent Developments
- Table 146. Analog Devices, Inc. Compound Semiconductor Material And Device Basic Information
- Table 147. Analog Devices, Inc. Compound Semiconductor Material And Device Product Overview
- Table 148. Analog Devices, Inc. Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 149. Analog Devices, Inc. Business Overview
- Table 150. Analog Devices, Inc. Recent Developments
- Table 151. Skyworks Solutions, Inc. Compound Semiconductor Material And Device Basic Information
- Table 152. Skyworks Solutions, Inc. Compound Semiconductor Material And Device Product Overview
- Table 153. Skyworks Solutions, Inc. Compound Semiconductor Material And Device Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 154. Skyworks Solutions, Inc. Business Overview
- Table 155. Skyworks Solutions, Inc. Recent Developments
- Table 156. Global Compound Semiconductor Material And Device Sales Forecast by Region (2025-2030) & (K Units)
- Table 157. Global Compound Semiconductor Material And Device Market Size Forecast by Region (2025-2030) & (M USD)
- Table 158. North America Compound Semiconductor Material And Device Sales Forecast by Country (2025-2030) & (K Units)
- Table 159. North America Compound Semiconductor Material And Device Market Size Forecast by Country (2025-2030) & (M USD)
- Table 160. Europe Compound Semiconductor Material And Device Sales Forecast by Country (2025-2030) & (K Units)
- Table 161. Europe Compound Semiconductor Material And Device Market Size Forecast by Country (2025-2030) & (M USD)
- Table 162. Asia Pacific Compound Semiconductor Material And Device Sales Forecast

by Region (2025-2030) & (K Units)

Table 163. Asia Pacific Compound Semiconductor Material And Device Market Size Forecast by Region (2025-2030) & (M USD)

Table 164. South America Compound Semiconductor Material And Device Sales Forecast by Country (2025-2030) & (K Units)

Table 165. South America Compound Semiconductor Material And Device Market Size Forecast by Country (2025-2030) & (M USD)

Table 166. Middle East and Africa Compound Semiconductor Material And Device Consumption Forecast by Country (2025-2030) & (Units)

Table 167. Middle East and Africa Compound Semiconductor Material And Device Market Size Forecast by Country (2025-2030) & (M USD)

Table 168. Global Compound Semiconductor Material And Device Sales Forecast by Type (2025-2030) & (K Units)

Table 169. Global Compound Semiconductor Material And Device Market Size Forecast by Type (2025-2030) & (M USD)

Table 170. Global Compound Semiconductor Material And Device Price Forecast by Type (2025-2030) & (USD/Unit)

Table 171. Global Compound Semiconductor Material And Device Sales (K Units) Forecast by Application (2025-2030)

Table 172. Global Compound Semiconductor Material And Device Market Size Forecast by Application (2025-2030) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Compound Semiconductor Material And Device
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Compound Semiconductor Material And Device Market Size (M USD), 2019-2030
- Figure 5. Global Compound Semiconductor Material And Device Market Size (M USD) (2019-2030)
- Figure 6. Global Compound Semiconductor Material And Device Sales (K Units) & (2019-2030)
- 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. Compound Semiconductor Material And Device Market Size by Country (M USD)
- Figure 11. Compound Semiconductor Material And Device Sales Share by Manufacturers in 2023
- Figure 12. Global Compound Semiconductor Material And Device Revenue Share by Manufacturers in 2023
- Figure 13. Compound Semiconductor Material And Device Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market Compound Semiconductor Material And Device Average Price (USD/Unit) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by Compound Semiconductor Material And Device Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global Compound Semiconductor Material And Device Market Share by Type
- Figure 18. Sales Market Share of Compound Semiconductor Material And Device by Type (2019-2024)
- Figure 19. Sales Market Share of Compound Semiconductor Material And Device by Type in 2023
- Figure 20. Market Size Share of Compound Semiconductor Material And Device by Type (2019-2024)
- Figure 21. Market Size Market Share of Compound Semiconductor Material And Device by Type in 2023

Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 23. Global Compound Semiconductor Material And Device Market Share by Application

Figure 24. Global Compound Semiconductor Material And Device Sales Market Share by Application (2019-2024)

Figure 25. Global Compound Semiconductor Material And Device Sales Market Share by Application in 2023

Figure 26. Global Compound Semiconductor Material And Device Market Share by Application (2019-2024)

Figure 27. Global Compound Semiconductor Material And Device Market Share by Application in 2023

Figure 28. Global Compound Semiconductor Material And Device Sales Growth Rate by Application (2019-2024)

Figure 29. Global Compound Semiconductor Material And Device Sales Market Share by Region (2019-2024)

Figure 30. North America Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 31. North America Compound Semiconductor Material And Device Sales Market Share by Country in 2023

Figure 32. U.S. Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 33. Canada Compound Semiconductor Material And Device Sales (K Units) and Growth Rate (2019-2024)

Figure 34. Mexico Compound Semiconductor Material And Device Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 36. Europe Compound Semiconductor Material And Device Sales Market Share by Country in 2023

Figure 37. Germany Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 38. France Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 39. U.K. Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 40. Italy Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 41. Russia Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 42. Asia Pacific Compound Semiconductor Material And Device Sales and Growth Rate (K Units)

Figure 43. Asia Pacific Compound Semiconductor Material And Device Sales Market Share by Region in 2023

Figure 44. China Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 45. Japan Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 46. South Korea Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 47. India Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 48. Southeast Asia Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 49. South America Compound Semiconductor Material And Device Sales and Growth Rate (K Units)

Figure 50. South America Compound Semiconductor Material And Device Sales Market Share by Country in 2023

Figure 51. Brazil Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 52. Argentina Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 53. Columbia Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 54. Middle East and Africa Compound Semiconductor Material And Device Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa Compound Semiconductor Material And Device Sales Market Share by Region in 2023

Figure 56. Saudi Arabia Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 57. UAE Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 58. Egypt Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 59. Nigeria Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 60. South Africa Compound Semiconductor Material And Device Sales and Growth Rate (2019-2024) & (K Units)

Figure 61. Global Compound Semiconductor Material And Device Sales Forecast by

Volume (2019-2030) & (K Units)

Figure 62. Global Compound Semiconductor Material And Device Market Size Forecast by Value (2019-2030) & (M USD)

Figure 63. Global Compound Semiconductor Material And Device Sales Market Share Forecast by Type (2025-2030)

Figure 64. Global Compound Semiconductor Material And Device Market Share Forecast by Type (2025-2030)

Figure 65. Global Compound Semiconductor Material And Device Sales Forecast by Application (2025-2030)

Figure 66. Global Compound Semiconductor Material And Device Market Share Forecast by Application (2025-2030)

## I would like to order

Product name: Global Compound Semiconductor Material And Device Market Research Report 2024(Status and Outlook)

Product link: <https://marketpublishers.com/r/GA743ED33046EN.html>

Price: US\$ 3,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GA743ED33046EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

