

# Global Compound Semiconductor Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

<https://marketpublishers.com/r/GAF7F7001E46EN.html>

Date: April 2024

Pages: 134

Price: US\$ 3,950.00 (Single User License)

ID: GAF7F7001E46EN

## Abstracts

Compound semiconductors are semiconductors that are made from two or more elements. Silicon is made from a single element, and therefore is not a compound semiconductor.

Most compound semiconductors are from combinations of elements from Group III and Group V of the Periodic Table of the Elements (GaAs, GaP, InP and others). Other compound semiconductors are made from Groups II and VI (CdTe, ZnSe and others). It is also possible to use different elements from within the same group (IV), to make compound semiconductors such as SiC.

According to APO Research, The global Compound Semiconductor market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

Japan is the largest producer of Compound Semiconductor, with a market share nearly 25%. It was followed by North America with 20%. Sumitomo Electric Industries, SCIOCS, Mitsubishi Chemical, Dow Corning and Shin-Etsu Chemical are the top 5 manufacturers of industry, and they had about 40% combined market share.

In terms of production side, this report researches the Compound Semiconductor production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Compound Semiconductor by region (region level and country level), by company, by type and by

application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Compound Semiconductor, capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Compound Semiconductor, also provides the consumption of main regions and countries. Of the upcoming market potential for Compound Semiconductor, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Compound Semiconductor sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Compound Semiconductor market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by type and by application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Compound Semiconductor sales, projected growth trends, production technology, application and end-user industry.

Descriptive company profiles of the major global players, including IQE PLC, Sumitomo Electric Industries, SCIOCS, Mitsubishi Chemical, San'an Optoelectronics, DuPont, Shin-Etsu Chemical, DOWA and Freiberger, etc.

Compound Semiconductor segment by Company

IQE PLC

Sumitomo Electric Industries

SCIOCS

Mitsubishi Chemical

San'an Optoelectronics

DuPont

Shin-Etsu Chemical

DOWA

Freiberger

JX Nippon Mining & Metals

#### Compound Semiconductor segment by Type

Gallium Arsenide (GaAs)

Gallium Nitride (GaN)

Silicon Carbide (SiC)

Others

#### Compound Semiconductor segment by Application

Electronic Components

Photonic Device

Optoelectronic Devices

Integrated Circuit

#### Compound Semiconductor segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

### Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

### Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Compound

Semiconductor market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of Compound Semiconductor and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market.

5. This report helps stakeholders to gain insights into which regions to target globally.

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Compound Semiconductor.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Chapter Outline

Chapter 1: Provides an overview of the Compound Semiconductor market, including product definition, global market growth prospects, production value, capacity, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Compound Semiconductor industry.

Chapter 3: Detailed analysis of Compound Semiconductor market competition landscape. Including Compound Semiconductor manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product type, application, merger and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by 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 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of Compound Semiconductor by region. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 8: Consumption of Compound Semiconductor in regional level and country level. It 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 production of each country in the world.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights of the report.

## Contents

### **1 MARKET OVERVIEW**

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
  - 1.2.1 Global Compound Semiconductor Production Value Estimates and Forecasts (2019-2030)
  - 1.2.2 Global Compound Semiconductor Production Capacity Estimates and Forecasts (2019-2030)
  - 1.2.3 Global Compound Semiconductor Production Estimates and Forecasts (2019-2030)
  - 1.2.4 Global Compound Semiconductor Market Average Price (2019-2030)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

### **2 GLOBAL COMPOUND SEMICONDUCTOR MARKET DYNAMICS**

- 2.1 Compound Semiconductor Industry Trends
- 2.2 Compound Semiconductor Industry Drivers
- 2.3 Compound Semiconductor Industry Opportunities and Challenges
- 2.4 Compound Semiconductor Industry Restraints

### **3 COMPOUND SEMICONDUCTOR MARKET BY MANUFACTURERS**

- 3.1 Global Compound Semiconductor Production Value by Manufacturers (2019-2024)
- 3.2 Global Compound Semiconductor Production by Manufacturers (2019-2024)
- 3.3 Global Compound Semiconductor Average Price by Manufacturers (2019-2024)
- 3.4 Global Compound Semiconductor Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Compound Semiconductor Key Manufacturers Manufacturing Sites & Headquarters
- 3.6 Global Compound Semiconductor Manufacturers, Product Type & Application
- 3.7 Global Compound Semiconductor Manufacturers Commercialization Time
- 3.8 Market Competitive Analysis
  - 3.8.1 Global Compound Semiconductor Market CR5 and HHI
  - 3.8.2 Global Top 5 and 10 Compound Semiconductor Players Market Share by Production Value in 2023
  - 3.8.3 2023 Compound Semiconductor Tier 1, Tier 2, and Tier



## **4 COMPOUND SEMICONDUCTOR MARKET BY TYPE**

### 4.1 Compound Semiconductor Type Introduction

- 4.1.1 Gallium Arsenide (GaAs)
- 4.1.2 Gallium Nitride (GaN)
- 4.1.3 Silicon Carbide (SiC)
- 4.1.4 Others

### 4.2 Global Compound Semiconductor Production by Type

- 4.2.1 Global Compound Semiconductor Production by Type (2019 VS 2023 VS 2030)
- 4.2.2 Global Compound Semiconductor Production by Type (2019-2030)
- 4.2.3 Global Compound Semiconductor Production Market Share by Type (2019-2030)

### 4.3 Global Compound Semiconductor Production Value by Type

- 4.3.1 Global Compound Semiconductor Production Value by Type (2019 VS 2023 VS 2030)
- 4.3.2 Global Compound Semiconductor Production Value by Type (2019-2030)
- 4.3.3 Global Compound Semiconductor Production Value Market Share by Type (2019-2030)

## **5 COMPOUND SEMICONDUCTOR MARKET BY APPLICATION**

### 5.1 Compound Semiconductor Application Introduction

- 5.1.1 Electronic Components
- 5.1.2 Photonic Device
- 5.1.3 Optoelectronic Devices
- 5.1.4 Integrated Circuit

### 5.2 Global Compound Semiconductor Production by Application

- 5.2.1 Global Compound Semiconductor Production by Application (2019 VS 2023 VS 2030)
- 5.2.2 Global Compound Semiconductor Production by Application (2019-2030)
- 5.2.3 Global Compound Semiconductor Production Market Share by Application (2019-2030)

### 5.3 Global Compound Semiconductor Production Value by Application

- 5.3.1 Global Compound Semiconductor Production Value by Application (2019 VS 2023 VS 2030)
- 5.3.2 Global Compound Semiconductor Production Value by Application (2019-2030)
- 5.3.3 Global Compound Semiconductor Production Value Market Share by Application (2019-2030)

## 6 COMPANY PROFILES

### 6.1 IQE PLC

6.1.1 IQE PLC Company Information

6.1.2 IQE PLC Business Overview

6.1.3 IQE PLC Compound Semiconductor Production, Value and Gross Margin (2019-2024)

6.1.4 IQE PLC Compound Semiconductor Product Portfolio

6.1.5 IQE PLC Recent Developments

### 6.2 Sumitomo Electric Industries

6.2.1 Sumitomo Electric Industries Company Information

6.2.2 Sumitomo Electric Industries Business Overview

6.2.3 Sumitomo Electric Industries Compound Semiconductor Production, Value and Gross Margin (2019-2024)

6.2.4 Sumitomo Electric Industries Compound Semiconductor Product Portfolio

6.2.5 Sumitomo Electric Industries Recent Developments

### 6.3 SCIOCS

6.3.1 SCIOCS Company Information

6.3.2 SCIOCS Business Overview

6.3.3 SCIOCS Compound Semiconductor Production, Value and Gross Margin (2019-2024)

6.3.4 SCIOCS Compound Semiconductor Product Portfolio

6.3.5 SCIOCS Recent Developments

### 6.4 Mitsubishi Chemical

6.4.1 Mitsubishi Chemical Company Information

6.4.2 Mitsubishi Chemical Business Overview

6.4.3 Mitsubishi Chemical Compound Semiconductor Production, Value and Gross Margin (2019-2024)

6.4.4 Mitsubishi Chemical Compound Semiconductor Product Portfolio

6.4.5 Mitsubishi Chemical Recent Developments

### 6.5 San'an Optoelectronics

6.5.1 San'an Optoelectronics Company Information

6.5.2 San'an Optoelectronics Business Overview

6.5.3 San'an Optoelectronics Compound Semiconductor Production, Value and Gross Margin (2019-2024)

6.5.4 San'an Optoelectronics Compound Semiconductor Product Portfolio

6.5.5 San'an Optoelectronics Recent Developments

### 6.6 DuPont

6.6.1 DuPont Company Information

- 6.6.2 DuPont Business Overview
- 6.6.3 DuPont Compound Semiconductor Production, Value and Gross Margin (2019-2024)
- 6.6.4 DuPont Compound Semiconductor Product Portfolio
- 6.6.5 DuPont Recent Developments
- 6.7 Shin-Etsu Chemical
  - 6.7.1 Shin-Etsu Chemical Company Information
  - 6.7.2 Shin-Etsu Chemical Business Overview
  - 6.7.3 Shin-Etsu Chemical Compound Semiconductor Production, Value and Gross Margin (2019-2024)
  - 6.7.4 Shin-Etsu Chemical Compound Semiconductor Product Portfolio
  - 6.7.5 Shin-Etsu Chemical Recent Developments
- 6.8 DOWA
  - 6.8.1 DOWA Company Information
  - 6.8.2 DOWA Business Overview
  - 6.8.3 DOWA Compound Semiconductor Production, Value and Gross Margin (2019-2024)
  - 6.8.4 DOWA Compound Semiconductor Product Portfolio
  - 6.8.5 DOWA Recent Developments
- 6.9 Freiberger
  - 6.9.1 Freiberger Company Information
  - 6.9.2 Freiberger Business Overview
  - 6.9.3 Freiberger Compound Semiconductor Production, Value and Gross Margin (2019-2024)
  - 6.9.4 Freiberger Compound Semiconductor Product Portfolio
  - 6.9.5 Freiberger Recent Developments
- 6.10 JX Nippon Mining & Metals
  - 6.10.1 JX Nippon Mining & Metals Company Information
  - 6.10.2 JX Nippon Mining & Metals Business Overview
  - 6.10.3 JX Nippon Mining & Metals Compound Semiconductor Production, Value and Gross Margin (2019-2024)
  - 6.10.4 JX Nippon Mining & Metals Compound Semiconductor Product Portfolio
  - 6.10.5 JX Nippon Mining & Metals Recent Developments

## **7 GLOBAL COMPOUND SEMICONDUCTOR PRODUCTION BY REGION**

- 7.1 Global Compound Semiconductor Production by Region: 2019 VS 2023 VS 2030
- 7.2 Global Compound Semiconductor Production by Region (2019-2030)
  - 7.2.1 Global Compound Semiconductor Production by Region: 2019-2024

- 7.2.2 Global Compound Semiconductor Production by Region (2025-2030)
- 7.3 Global Compound Semiconductor Production by Region: 2019 VS 2023 VS 2030
- 7.4 Global Compound Semiconductor Production Value by Region (2019-2030)
  - 7.4.1 Global Compound Semiconductor Production Value by Region: 2019-2024
  - 7.4.2 Global Compound Semiconductor Production Value by Region (2025-2030)
- 7.5 Global Compound Semiconductor Market Price Analysis by Region (2019-2024)
- 7.6 Regional Production Value Trends (2019-2030)
  - 7.6.1 North America Compound Semiconductor Production Value (2019-2030)
  - 7.6.2 Europe Compound Semiconductor Production Value (2019-2030)
  - 7.6.3 Asia-Pacific Compound Semiconductor Production Value (2019-2030)
  - 7.6.4 Latin America Compound Semiconductor Production Value (2019-2030)
  - 7.6.5 Middle East & Africa Compound Semiconductor Production Value (2019-2030)

## **8 GLOBAL COMPOUND SEMICONDUCTOR CONSUMPTION BY REGION**

- 8.1 Global Compound Semiconductor Consumption by Region: 2019 VS 2023 VS 2030
- 8.2 Global Compound Semiconductor Consumption by Region (2019-2030)
  - 8.2.1 Global Compound Semiconductor Consumption by Region (2019-2024)
  - 8.2.2 Global Compound Semiconductor Consumption by Region (2025-2030)
- 8.3 North America
  - 8.3.1 North America Compound Semiconductor Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
  - 8.3.2 North America Compound Semiconductor Consumption by Country (2019-2030)
  - 8.3.3 U.S.
  - 8.3.4 Canada
- 8.4 Europe
  - 8.4.1 Europe Compound Semiconductor Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
  - 8.4.2 Europe Compound Semiconductor Consumption by Country (2019-2030)
  - 8.4.3 Germany
  - 8.4.4 France
  - 8.4.5 U.K.
  - 8.4.6 Italy
  - 8.4.7 Netherlands
- 8.5 Asia Pacific
  - 8.5.1 Asia Pacific Compound Semiconductor Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
  - 8.5.2 Asia Pacific Compound Semiconductor Consumption by Country (2019-2030)
  - 8.5.3 China

8.5.4 Japan

8.5.5 South Korea

8.5.6 Southeast Asia

8.5.7 India

8.5.8 Australia

8.6 LAMEA

8.6.1 LAMEA Compound Semiconductor Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.6.2 LAMEA Compound Semiconductor Consumption by Country (2019-2030)

8.6.3 Mexico

8.6.4 Brazil

8.6.5 Turkey

8.6.6 GCC Countries

## **9 VALUE CHAIN AND SALES CHANNELS ANALYSIS**

9.1 Compound Semiconductor Value Chain Analysis

9.1.1 Compound Semiconductor Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Manufacturing Cost Structure

9.1.4 Compound Semiconductor Production Mode & Process

9.2 Compound Semiconductor Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Compound Semiconductor Distributors

9.2.3 Compound Semiconductor Customers

## **10 CONCLUDING INSIGHTS**

## **11 APPENDIX**

11.1 Reasons for Doing This Study

11.2 Research Methodology

11.3 Research Process

11.4 Authors List of This Report

11.5 Data Source

11.5.1 Secondary Sources

11.5.2 Primary Sources

11.6 Disclaimer

## I would like to order

Product name: Global Compound Semiconductor Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

Product link: <https://marketpublishers.com/r/GAF7F7001E46EN.html>

Price: US\$ 3,950.00 (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/GAF7F7001E46EN.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

