

# Global Single Crystal Germanium Market Size, Manufacturers, Opportunities and Forecast to 2030

<https://marketpublishers.com/r/GB30C08170CCEN.html>

Date: April 2024

Pages: 98

Price: US\$ 3,450.00 (Single User License)

ID: GB30C08170CCEN

## Abstracts

Single Crystal Germanium is a germanium material in which the crystal lattice of the entire sample is continuous and unbroken to the edges of the sample, with no grain boundaries. The absence of the defects associated with grain boundaries can give monocrystals unique properties, particularly mechanical, optical and electrical, which can also be anisotropic, depending on the type of crystallographic structure.

According to APO Research, The global Single Crystal Germanium market was estimated at US\$ million in 2023 and is projected to reach a revised size of US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

China is the largest Single Crystal Germanium market with about 56% market share. Europe is follower, accounting for about 29% market share.

The key players are China Germanium, Yunnan Germanium, Umicore, Chihong Zn&Ge, AXT, PS(Jenoptik), PPM, Baoding Sanjing etc. Top 3 companies occupied about 48% market share.

### Report Scope

This report aims to provide a comprehensive presentation of the global market for Single Crystal Germanium, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Single Crystal Germanium.

The Single Crystal Germanium market size, estimations, and forecasts are provided in

terms of sales volume (K MT) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Single Crystal Germanium market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

## Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

China Germanium

Yunnan Germanium

Umicore

Chihong Zn&Ge

AXT

PS (Jenoptik)

PPM

Baoding Sanjing

## Single Crystal Germanium segment by Type

Solar Grade

Infrared Grade

Detector Grade

### Single Crystal Germanium segment by Application

Semiconductor Device

Solar Battery

Infrared Imager

Others

### Single Crystal Germanium 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

## Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the

*Global Single Crystal Germanium Market Size, Manufacturers, Opportunities and Forecast to 2030*

readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

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

### Chapter Outline

Chapter 1: Introduces the study scope of this report, executive summary of market

segments by type, market size segments for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 2: Introduces the market dynamics, 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 3: Detailed analysis of Single Crystal Germanium manufacturers competitive landscape, price, sales, revenue, market share and ranking, latest development plan, merger, and acquisition information, etc.

Chapter 4: Sales, revenue of Single Crystal Germanium in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the future development prospects, and market space in the world.

Chapter 5: Introduces market segments by application, market size segment for North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 7, 8, 9, 10 and 11: North America, Europe, Asia Pacific, Latin America, Middle East & Africa, sales and revenue by country.

Chapter 12: Analysis of industrial chain, key raw materials, manufacturing cost, and market dynamics.

Chapter 13: Concluding Insights of the report.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
  - 1.2.1 Global Single Crystal Germanium Market Size Estimates and Forecasts (2019-2030)
  - 1.2.2 Global Single Crystal Germanium Sales Estimates and Forecasts (2019-2030)
- 1.3 Single Crystal Germanium Market by Type
  - 1.3.1 Solar Grade
  - 1.3.2 Infrared Grade
  - 1.3.3 Detector Grade
- 1.4 Global Single Crystal Germanium Market Size by Type
  - 1.4.1 Global Single Crystal Germanium Market Size Overview by Type (2019-2030)
  - 1.4.2 Global Single Crystal Germanium Historic Market Size Review by Type (2019-2024)
  - 1.4.3 Global Single Crystal Germanium Forecasted Market Size by Type (2025-2030)
- 1.5 Key Regions Market Size by Type
  - 1.5.1 North America Single Crystal Germanium Sales Breakdown by Type (2019-2024)
  - 1.5.2 Europe Single Crystal Germanium Sales Breakdown by Type (2019-2024)
  - 1.5.3 Asia-Pacific Single Crystal Germanium Sales Breakdown by Type (2019-2024)
  - 1.5.4 Latin America Single Crystal Germanium Sales Breakdown by Type (2019-2024)
  - 1.5.5 Middle East and Africa Single Crystal Germanium Sales Breakdown by Type (2019-2024)

### 2 GLOBAL MARKET DYNAMICS

- 2.1 Single Crystal Germanium Industry Trends
- 2.2 Single Crystal Germanium Industry Drivers
- 2.3 Single Crystal Germanium Industry Opportunities and Challenges
- 2.4 Single Crystal Germanium Industry Restraints

### 3 MARKET COMPETITIVE LANDSCAPE BY COMPANY

- 3.1 Global Top Players by Single Crystal Germanium Revenue (2019-2024)
- 3.2 Global Top Players by Single Crystal Germanium Sales (2019-2024)
- 3.3 Global Top Players by Single Crystal Germanium Price (2019-2024)

3.4 Global Single Crystal Germanium Industry Company Ranking, 2022 VS 2023 VS 2024

3.5 Global Single Crystal Germanium Key Company Manufacturing Sites & Headquarters

3.6 Global Single Crystal Germanium Company, Product Type & Application

3.7 Global Single Crystal Germanium Company Commercialization Time

3.8 Market Competitive Analysis

3.8.1 Global Single Crystal Germanium Market CR5 and HHI

3.8.2 Global Top 5 and 10 Single Crystal Germanium Players Market Share by Revenue in 2023

3.8.3 2023 Single Crystal Germanium Tier 1, Tier 2, and Tier

## **4 SINGLE CRYSTAL GERMANIUM REGIONAL STATUS AND OUTLOOK**

4.1 Global Single Crystal Germanium Market Size and CAGR by Region: 2019 VS 2023 VS 2030

4.2 Global Single Crystal Germanium Historic Market Size by Region

4.2.1 Global Single Crystal Germanium Sales in Volume by Region (2019-2024)

4.2.2 Global Single Crystal Germanium Sales in Value by Region (2019-2024)

4.2.3 Global Single Crystal Germanium Sales (Volume & Value), Price and Gross Margin (2019-2024)

4.3 Global Single Crystal Germanium Forecasted Market Size by Region

4.3.1 Global Single Crystal Germanium Sales in Volume by Region (2025-2030)

4.3.2 Global Single Crystal Germanium Sales in Value by Region (2025-2030)

4.3.3 Global Single Crystal Germanium Sales (Volume & Value), Price and Gross Margin (2025-2030)

## **5 SINGLE CRYSTAL GERMANIUM BY APPLICATION**

5.1 Single Crystal Germanium Market by Application

5.1.1 Semiconductor Device

5.1.2 Solar Battery

5.1.3 Infrared Imager

5.1.4 Others

5.2 Global Single Crystal Germanium Market Size by Application

5.2.1 Global Single Crystal Germanium Market Size Overview by Application (2019-2030)

5.2.2 Global Single Crystal Germanium Historic Market Size Review by Application (2019-2024)



5.2.3 Global Single Crystal Germanium Forecasted Market Size by Application (2025-2030)

5.3 Key Regions Market Size by Application

5.3.1 North America Single Crystal Germanium Sales Breakdown by Application (2019-2024)

5.3.2 Europe Single Crystal Germanium Sales Breakdown by Application (2019-2024)

5.3.3 Asia-Pacific Single Crystal Germanium Sales Breakdown by Application (2019-2024)

5.3.4 Latin America Single Crystal Germanium Sales Breakdown by Application (2019-2024)

5.3.5 Middle East and Africa Single Crystal Germanium Sales Breakdown by Application (2019-2024)

## **6 COMPANY PROFILES**

6.1 China Germanium

6.1.1 China Germanium Company Information

6.1.2 China Germanium Business Overview

6.1.3 China Germanium Single Crystal Germanium Sales, Revenue and Gross Margin (2019-2024)

6.1.4 China Germanium Single Crystal Germanium Product Portfolio

6.1.5 China Germanium Recent Developments

6.2 Yunnan Germanium

6.2.1 Yunnan Germanium Company Information

6.2.2 Yunnan Germanium Business Overview

6.2.3 Yunnan Germanium Single Crystal Germanium Sales, Revenue and Gross Margin (2019-2024)

6.2.4 Yunnan Germanium Single Crystal Germanium Product Portfolio

6.2.5 Yunnan Germanium Recent Developments

6.3 Umicore

6.3.1 Umicore Company Information

6.3.2 Umicore Business Overview

6.3.3 Umicore Single Crystal Germanium Sales, Revenue and Gross Margin (2019-2024)

6.3.4 Umicore Single Crystal Germanium Product Portfolio

6.3.5 Umicore Recent Developments

6.4 Chihong Zn&Ge

6.4.1 Chihong Zn&Ge Company Information

6.4.2 Chihong Zn&Ge Business Overview

6.4.3 Chihong Zn&Ge Single Crystal Germanium Sales, Revenue and Gross Margin (2019-2024)

6.4.4 Chihong Zn&Ge Single Crystal Germanium Product Portfolio

6.4.5 Chihong Zn&Ge Recent Developments

6.5 AXT

6.5.1 AXT Company Information

6.5.2 AXT Business Overview

6.5.3 AXT Single Crystal Germanium Sales, Revenue and Gross Margin (2019-2024)

6.5.4 AXT Single Crystal Germanium Product Portfolio

6.5.5 AXT Recent Developments

6.6 PS (Jenoptik)

6.6.1 PS (Jenoptik) Company Information

6.6.2 PS (Jenoptik) Business Overview

6.6.3 PS (Jenoptik) Single Crystal Germanium Sales, Revenue and Gross Margin (2019-2024)

6.6.4 PS (Jenoptik) Single Crystal Germanium Product Portfolio

6.6.5 PS (Jenoptik) Recent Developments

6.7 PPM

6.7.1 PPM Company Information

6.7.2 PPM Business Overview

6.7.3 PPM Single Crystal Germanium Sales, Revenue and Gross Margin (2019-2024)

6.7.4 PPM Single Crystal Germanium Product Portfolio

6.7.5 PPM Recent Developments

6.8 Baoding Sanjing

6.8.1 Baoding Sanjing Company Information

6.8.2 Baoding Sanjing Business Overview

6.8.3 Baoding Sanjing Single Crystal Germanium Sales, Revenue and Gross Margin (2019-2024)

6.8.4 Baoding Sanjing Single Crystal Germanium Product Portfolio

6.8.5 Baoding Sanjing Recent Developments

## **7 NORTH AMERICA BY COUNTRY**

7.1 North America Single Crystal Germanium Sales by Country

7.1.1 North America Single Crystal Germanium Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.1.2 North America Single Crystal Germanium Sales by Country (2019-2024)

7.1.3 North America Single Crystal Germanium Sales Forecast by Country (2025-2030)

## 7.2 North America Single Crystal Germanium Market Size by Country

7.2.1 North America Single Crystal Germanium Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

7.2.2 North America Single Crystal Germanium Market Size by Country (2019-2024)

7.2.3 North America Single Crystal Germanium Market Size Forecast by Country (2025-2030)

## 8 EUROPE BY COUNTRY

### 8.1 Europe Single Crystal Germanium Sales by Country

8.1.1 Europe Single Crystal Germanium Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.1.2 Europe Single Crystal Germanium Sales by Country (2019-2024)

8.1.3 Europe Single Crystal Germanium Sales Forecast by Country (2025-2030)

### 8.2 Europe Single Crystal Germanium Market Size by Country

8.2.1 Europe Single Crystal Germanium Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

8.2.2 Europe Single Crystal Germanium Market Size by Country (2019-2024)

8.2.3 Europe Single Crystal Germanium Market Size Forecast by Country (2025-2030)

## 9 ASIA-PACIFIC BY COUNTRY

### 9.1 Asia-Pacific Single Crystal Germanium Sales by Country

9.1.1 Asia-Pacific Single Crystal Germanium Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.1.2 Asia-Pacific Single Crystal Germanium Sales by Country (2019-2024)

9.1.3 Asia-Pacific Single Crystal Germanium Sales Forecast by Country (2025-2030)

### 9.2 Asia-Pacific Single Crystal Germanium Market Size by Country

9.2.1 Asia-Pacific Single Crystal Germanium Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.2.2 Asia-Pacific Single Crystal Germanium Market Size by Country (2019-2024)

9.2.3 Asia-Pacific Single Crystal Germanium Market Size Forecast by Country (2025-2030)

## 10 LATIN AMERICA BY COUNTRY

### 10.1 Latin America Single Crystal Germanium Sales by Country

10.1.1 Latin America Single Crystal Germanium Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

- 10.1.2 Latin America Single Crystal Germanium Sales by Country (2019-2024)
- 10.1.3 Latin America Single Crystal Germanium Sales Forecast by Country (2025-2030)
- 10.2 Latin America Single Crystal Germanium Market Size by Country
  - 10.2.1 Latin America Single Crystal Germanium Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030
  - 10.2.2 Latin America Single Crystal Germanium Market Size by Country (2019-2024)
  - 10.2.3 Latin America Single Crystal Germanium Market Size Forecast by Country (2025-2030)

## **11 MIDDLE EAST AND AFRICA BY COUNTRY**

- 11.1 Middle East and Africa Single Crystal Germanium Sales by Country
  - 11.1.1 Middle East and Africa Single Crystal Germanium Sales Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030
  - 11.1.2 Middle East and Africa Single Crystal Germanium Sales by Country (2019-2024)
  - 11.1.3 Middle East and Africa Single Crystal Germanium Sales Forecast by Country (2025-2030)
- 11.2 Middle East and Africa Single Crystal Germanium Market Size by Country
  - 11.2.1 Middle East and Africa Single Crystal Germanium Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030
  - 11.2.2 Middle East and Africa Single Crystal Germanium Market Size by Country (2019-2024)
  - 11.2.3 Middle East and Africa Single Crystal Germanium Market Size Forecast by Country (2025-2030)

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

- 12.1 Single Crystal Germanium Value Chain Analysis
  - 12.1.1 Single Crystal Germanium Key Raw Materials
  - 12.1.2 Key Raw Materials Price
  - 12.1.3 Raw Materials Key Suppliers
  - 12.1.4 Manufacturing Cost Structure
  - 12.1.5 Single Crystal Germanium Production Mode & Process
- 12.2 Single Crystal Germanium Sales Channels Analysis
  - 12.2.1 Direct Comparison with Distribution Share
  - 12.2.2 Single Crystal Germanium Distributors
  - 12.2.3 Single Crystal Germanium Customers

## **13 CONCLUDING INSIGHTS**

## **14 APPENDIX**

14.1 Reasons for Doing This Study

14.2 Research Methodology

14.3 Research Process

14.4 Authors List of This Report

14.5 Data Source

14.5.1 Secondary Sources

14.5.2 Primary Sources

14.6 Disclaimer

## I would like to order

Product name: Global Single Crystal Germanium Market Size, Manufacturers, Opportunities and Forecast to 2030

Product link: <https://marketpublishers.com/r/GB30C08170CCEN.html>

Price: US\$ 3,450.00 (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/GB30C08170CCEN.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

