

# Global Single Crystal Germanium Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Single Crystal Germanium market size will reach 180.09 Million USD in 2025 and is projected to reach 234.29 Million USD by 2032, with a CAGR of 3.83% (2025-2032). Notably, the China Single Crystal Germanium market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Single crystal germanium refers to a high-purity form of germanium in which the atoms are arranged in a single, continuous crystal lattice structure without any grain boundaries or defects. It is commonly produced using techniques like Czochralski or Bridgman growth methods to yield large, homogeneous crystals with uniform properties throughout. Single crystal germanium exhibits excellent electrical and optical properties, including high carrier mobility, low dark current, and infrared transparency, making it a valuable material in various electronic and optoelectronic applications. It is widely used in the semiconductor industry for the production of infrared detectors, photovoltaic cells, and high-speed transistors, as well as in optical components such as lenses and windows for infrared spectroscopy and imaging systems. Additionally, single crystal germanium plays a crucial role in scientific research, particularly in the fields of materials science, solid-state physics, and semiconductor device fabrication, due to its unique properties and compatibility with silicon-based technologies.

The major global manufacturers of Single Crystal Germanium include China

Germanium, Yunnan Germanium, Umicore, Chihong Zn&Ge, AXT, PS (Jenoptik), PPM, Baoding Sanjing, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Single Crystal Germanium. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Single Crystal Germanium market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Single Crystal Germanium market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Single Crystal Germanium industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Single Crystal Germanium Include:

China Germanium

Yunnan Germanium

Umicore

Chihong Zn&Ge

AXT

PS (Jenoptik)

PPM

Baoding Sanjing

Single Crystal Germanium Product Segment Include:

Solar Grade

Infrared Grade

Detector Grade

Single Crystal Germanium Product Application Include:

Semiconductor Device

Solar Battery

Infrared Imager

Others

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Single Crystal Germanium Capacity and Production Analysis

Chapter 3: Global Single Crystal Germanium Industry PESTEL Analysis

Chapter 4: Global Single Crystal Germanium Industry Porter's Five Forces Analysis

Chapter 5: Global Single Crystal Germanium Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 6: Global Single Crystal Germanium Market Size and Forecast by Type and Application Analysis

Chapter 7: North America Single Crystal Germanium Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: Europe Single Crystal Germanium Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: China Single Crystal Germanium Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: APAC (Excl. China) Single Crystal Germanium Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Latin America Single Crystal Germanium Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Middle East and Africa Single Crystal Germanium Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 13: Global Single Crystal Germanium Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and

Industry Concentration)

Chapter 14: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 15: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 16: Research Findings and Conclusion

Chapter 17: Methodology and Data Sources

## Contents

### **1 SINGLE CRYSTAL GERMANIUM MARKET OVERVIEW**

- 1.1 Product Definition and Statistical Scope
- 1.2 Single Crystal Germanium Product by Type
  - 1.2.1 Solar Grade
  - 1.2.2 Infrared Grade
  - 1.2.3 Detector Grade
- 1.3 Single Crystal Germanium Product by Application
  - 1.3.1 Semiconductor Device
  - 1.3.2 Solar Battery
  - 1.3.3 Infrared Imager
  - 1.3.4 Others
- 1.4 Global Single Crystal Germanium Market Revenue and Sales Analysis
  - 1.4.1 Global Single Crystal Germanium Revenue Market Size Analysis (2020-2032)
  - 1.4.2 Global Single Crystal Germanium Sales Market Size Analysis (2020-2032)
  - 1.4.3 Global Single Crystal Germanium Market Sales Price Trend Analysis (2020-2032)
- 1.5 Single Crystal Germanium Industry Trends and Innovation
  - 1.5.1 Single Crystal Germanium Industry Trends and Innovation
  - 1.5.2 Single Crystal Germanium Market Drivers and Challenges

### **2 GLOBAL SINGLE CRYSTAL GERMANIUM CAPACITY AND PRODUCTION ANALYSIS**

- 2.1 Global Single Crystal Germanium Capacity, Production and Utilization (2020-2032)
- 2.2 Global Single Crystal Germanium Production Growth Trend by Region: 2024 VS 2025 VS 2030
- 2.3 Global Single Crystal Germanium Production by Region
  - 2.3.1 Global Single Crystal Germanium Production by Region (2020-2025)
  - 2.3.2 Global Single Crystal Germanium Production Forecast by Region (2026-2032)
  - 2.3.3 Global Single Crystal Germanium Production Market Share by Region (2020-2032)

### **3 SINGLE CRYSTAL GERMANIUM MARKET PESTEL ANALYSIS**

- 3.1 Political Factors Analysis
- 3.2 Economic Factors Analysis

- 3.3 Social Factors Analysis
- 3.4 Technological Factors Analysis
- 3.5 Environmental Factors Analysis
- 3.6 Legal Factors Analysis

## **4 SINGLE CRYSTAL GERMANIUM MARKET PORTER'S FIVE FORCES ANALYSIS**

- 4.1 Competitive Rivalry
- 4.2 Threat of New Entrants
- 4.3 Bargaining Power of Suppliers
- 4.4 Bargaining Power of Buyers
- 4.5 Threat of Substitutes

## **5 GLOBAL SINGLE CRYSTAL GERMANIUM MARKET ANALYSIS BY REGIONS**

- 5.1 Single Crystal Germanium Overall Market: 2024 VS 2025 VS 2032
- 5.2 Global Single Crystal Germanium Revenue and Forecast Analysis (2020-2032)
  - 5.2.1 Global Single Crystal Germanium Revenue and Market Share by Region (2020-2025)
  - 5.2.2 Global Single Crystal Germanium Revenue and Market Forecast by Region (2026-2032)
- 5.3 Global Single Crystal Germanium Sales and Forecast Analysis (2020-2032)
  - 5.3.1 Global Single Crystal Germanium Sales and Market Share by Region (2020-2025)
  - 5.3.2 Global Single Crystal Germanium Sales and Market Forecast by Region (2026-2032)
- 5.4 Global Single Crystal Germanium Sales Price Trend Analysis (2020-2032)

## **6 GLOBAL SINGLE CRYSTAL GERMANIUM MARKET SIZE BY TYPE AND APPLICATION**

- 6.1 Global Single Crystal Germanium Market Size by Type
  - 6.1.1 Global Single Crystal Germanium Revenue and Forecast Analysis by Type (2020-2032)
  - 6.1.2 Global Single Crystal Germanium Sales and Forecast Analysis by Type (2020-2032)
- 6.2 Global Single Crystal Germanium Market Size by Application
  - 6.2.1 Global Single Crystal Germanium Revenue and Forecast Analysis by Application (2020-2032)

6.2.2 Global Single Crystal Germanium Sales and Forecast Analysis by Application (2020-2032)

## **7 NORTH AMERICA**

7.1 North America Single Crystal Germanium Market Size and Growth Rate Analysis (2020-2032)

7.2 North America Key Manufacturers Analysis

7.3 North America Single Crystal Germanium Market Size by Type

7.3.1 North America Single Crystal Germanium Sales by Type (2020-2032)

7.3.2 North America Single Crystal Germanium Revenue by Type (2020-2032)

7.4 North America Single Crystal Germanium Market Size by Application

7.4.1 North America Single Crystal Germanium Sales by Application (2020-2032)

7.4.2 North America Single Crystal Germanium Revenue by Application (2020-2032)

7.5 North America Single Crystal Germanium Market Size by Country

7.5.1 US

7.5.2 Canada

## **8 EUROPE**

8.1 Europe Single Crystal Germanium Market Size and Growth Rate Analysis (2020-2032)

8.2 Europe Key Manufacturers Analysis

8.3 Europe Single Crystal Germanium Market Size by Type

8.3.1 Europe Single Crystal Germanium Sales by Type (2020-2032)

8.3.2 Europe Single Crystal Germanium Revenue by Type (2020-2032)

8.4 Europe Single Crystal Germanium Market Size by Application

8.4.1 Europe Single Crystal Germanium Sales by Application (2020-2032)

8.4.2 Europe Single Crystal Germanium Revenue by Application (2020-2032)

8.5 Europe Single Crystal Germanium Market Size by Country

8.5.1 Germany

8.5.2 France

8.5.3 United Kingdom

8.5.4 Italy

8.5.5 Spain

8.5.6 Benelux

## **9 CHINA**

9.1 China Single Crystal Germanium Market Size and Growth Rate Analysis (2020-2032)

9.2 China Key Manufacturers Analysis

9.3 China Single Crystal Germanium Market Size by Type

9.3.1 China Single Crystal Germanium Sales by Type (2020-2032)

9.3.2 China Single Crystal Germanium Revenue by Type (2020-2032)

9.4 China Single Crystal Germanium Market Size by Application

9.4.1 China Single Crystal Germanium Sales by Application (2020-2032)

9.4.2 China Single Crystal Germanium Revenue by Application (2020-2032)

## **10 APAC (EXCL. CHINA)**

10.1 APAC (excl. China) Single Crystal Germanium Market Size and Growth Rate Analysis (2020-2032)

10.2 APAC (excl. China) Key Manufacturers Analysis

10.3 APAC (excl. China) Single Crystal Germanium Market Size by Type

10.3.1 APAC (excl. China) Single Crystal Germanium Sales by Type (2020-2032)

10.3.2 APAC (excl. China) Single Crystal Germanium Revenue by Type (2020-2032)

10.4 APAC (excl. China) Single Crystal Germanium Market Size by Application

10.4.1 APAC (excl. China) Single Crystal Germanium Sales by Application (2020-2032)

10.4.2 APAC (excl. China) Single Crystal Germanium Revenue by Application (2020-2032)

10.5 APAC (excl. China) Single Crystal Germanium Market Size by Country

10.5.1 Japan

10.5.2 South Korea

10.5.3 India

10.5.4 Australia

10.5.5 Southeast Asia

## **11 LATIN AMERICA**

11.1 Latin America Single Crystal Germanium Market Size and Growth Rate Analysis (2020-2032)

11.2 Latin America Key Manufacturers Analysis

### **11.3 LATIN AMERICA SINGLE CRYSTAL GERMANIUM MARKET SIZE BY TYPE**

11.3.1 Latin America Single Crystal Germanium Sales by Type (2020-2032)

- 11.3.2 Latin America Single Crystal Germanium Revenue by Type (2020-2032)
- 11.4 Latin America Single Crystal Germanium Market Size by Application
  - 11.4.1 Latin America Single Crystal Germanium Sales by Application (2020-2032)
  - 11.4.2 Latin America Single Crystal Germanium Revenue by Application (2020-2032)
- 11.5 Latin America Single Crystal Germanium Market Size by Country
- 11.6 Latin America Single Crystal Germanium Market Size by Country
  - 11.6.1 Mexico
  - 11.6.2 Brazil

## **12 MIDDLE EAST & AFRICA**

- 12.1 Middle East & Africa Single Crystal Germanium Market Size and Growth Rate Analysis (2020-2032)
- 12.2 Middle East & Africa Key Manufacturers Analysis
- 12.3 Middle East & Africa Single Crystal Germanium Market Size by Type
  - 12.3.1 Middle East & Africa Single Crystal Germanium Sales by Type (2020-2032)
  - 12.3.2 Middle East & Africa Single Crystal Germanium Revenue by Type (2020-2032)
- 12.4 Middle East & Africa Single Crystal Germanium Market Size by Application
  - 12.4.1 Middle East & Africa Single Crystal Germanium Sales by Application (2020-2032)
  - 12.4.2 Middle East & Africa Single Crystal Germanium Revenue by Application (2020-2032)
- 12.5 Middle East Single Crystal Germanium Market Size by Country
  - 12.5.1 Saudi Arabia
  - 12.5.2 South Africa

## **13 COMPETITION BY MANUFACTURERS**

- 13.1 Global Single Crystal Germanium Market Sales, Revenue and Price by Key Manufacturers (2021-2025)
  - 13.1.1 Global Single Crystal Germanium Market Sales by Key Manufacturers (2021-2025)
  - 13.1.2 Global Single Crystal Germanium Market Revenue by Key Manufacturers (2021-2025)
  - 13.1.3 Global Single Crystal Germanium Average Sales Price by Manufacturers (2021-2025)
- 13.2 Single Crystal Germanium Competitive Landscape Analysis and Market Dynamic
  - 13.2.1 Single Crystal Germanium Competitive Landscape Analysis
  - 13.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales

### 13.2.3 Market Dynamic

## 14 KEY COMPANIES ANALYSIS

### 14.1 China Germanium

14.1.1 China Germanium Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.1.2 China Germanium Single Crystal Germanium Product Portfolio

14.1.3 China Germanium Single Crystal Germanium Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 14.2 Yunnan Germanium

14.2.1 Yunnan Germanium Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.2.2 Yunnan Germanium Single Crystal Germanium Product Portfolio

14.2.3 Yunnan Germanium Single Crystal Germanium Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 14.3 Umicore

14.3.1 Umicore Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.3.2 Umicore Single Crystal Germanium Product Portfolio

14.3.3 Umicore Single Crystal Germanium Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 14.4 Chihong Zn&Ge

14.4.1 Chihong Zn&Ge Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.4.2 Chihong Zn&Ge Single Crystal Germanium Product Portfolio

14.4.3 Chihong Zn&Ge Single Crystal Germanium Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 14.5 AXT

14.5.1 AXT Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.5.2 AXT Single Crystal Germanium Product Portfolio

14.5.3 AXT Single Crystal Germanium Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

### 14.6 PS (Jenoptik)

14.6.1 PS (Jenoptik) Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.6.2 PS (Jenoptik) Single Crystal Germanium Product Portfolio

14.6.3 PS (Jenoptik) Single Crystal Germanium Market Data Analysis (Revenue,

Sales, Price, Gross Margin and Market Share) (2021-2025)

14.7 PPM

14.7.1 PPM Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.7.2 PPM Single Crystal Germanium Product Portfolio

14.7.3 PPM Single Crystal Germanium Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

14.8 Baoding Sanjing

14.8.1 Baoding Sanjing Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

14.8.2 Baoding Sanjing Single Crystal Germanium Product Portfolio

14.8.3 Baoding Sanjing Single Crystal Germanium Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

## **15 INDUSTRY CHAIN ANALYSIS**

15.1 Single Crystal Germanium Industry Chain Analysis

15.2 Single Crystal Germanium Industry Raw Material and Suppliers Analysis

15.2.1 Single Crystal Germanium Key Raw Material Supply Analysis

15.2.2 Raw Material Suppliers and Contact Information

15.3 Single Crystal Germanium Typical Downstream Customers

15.4 Single Crystal Germanium Sales Channel Analysis

## **16 RESEARCH FINDINGS AND CONCLUSION**

## **17 METHODOLOGY AND DATA SOURCE**

17.1 Methodology/Research Approach

17.2 Research Scope

17.3 Benchmarks and Assumptions

17.4 Data Source

17.4.1 Primary Sources

17.4.2 Secondary Sources

17.5 Data Cross Validation

17.6 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1: Global Single Crystal Germanium Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global Single Crystal Germanium Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: Single Crystal Germanium Industry Development Status

Table 4: Single Crystal Germanium Industry Development Trends

Table 5: Global Single Crystal Germanium Production Growth Rate (CAGR) by Region: 2024 VS 2025 VS 2032 (K Ton)

Table 6: Global Single Crystal Germanium Production by Region (2020-2025) & (K Ton)

Table 7: Global Single Crystal Germanium Production Forecast by Region (2026-2032) & (K Ton)

Table 8: Global Single Crystal Germanium Production Market Share by Region (2020-2025)

Table 9: Global Single Crystal Germanium Production Market Share by Region (2026-2032)

Table 10: Global Single Crystal Germanium Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 11: Global Single Crystal Germanium Revenue by Region (2020-2025) & (US\$ Million)

Table 12: Global Single Crystal Germanium Revenue Market Share by Region (2020-2025)

Table 13: Global Single Crystal Germanium Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 14: Global Single Crystal Germanium Revenue Market Share Forecast by Region (2026-2032)

Table 15: Global Single Crystal Germanium Sales by Region (2020-2025) & (K Ton)

Table 16: Global Single Crystal Germanium Sales Market Share by Region (2020-2025)

Table 17: Global Single Crystal Germanium Sales Forecast by Region (2026-2032) & (K Ton)

Table 18: Global Single Crystal Germanium Sales Market Share Forecast by Region (2026-2032)

Table 19: Global Single Crystal Germanium Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 20: Global Single Crystal Germanium Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 21: Global Single Crystal Germanium Sales Analysis by Type (2020-2025) & (K

Ton)

Table 22: Global Single Crystal Germanium Sales Analysis Forecast by Type (2026-2032) & (K Ton)

Table 23: Global Single Crystal Germanium Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 24: Global Single Crystal Germanium Revenue Analysis Forecast by Application (2026-2032) & (US\$ Million)

Table 25: Global Single Crystal Germanium Sales Analysis by Application (2020-2025) & (K Ton)

Table 26: Global Single Crystal Germanium Sales Analysis Forecast by Application (2026-2032) & (K Ton)

Table 27: Key Single Crystal Germanium Players in North America

Table 28: North America Single Crystal Germanium Sales by Type (2020-2025) & (K Ton)

Table 29: North America Single Crystal Germanium Sales by Type (2026-2032) & (K Ton)

Table 30: North America Single Crystal Germanium Revenue by Type (2020-2025) & (US\$ Million)

Table 31: North America Single Crystal Germanium Revenue by Type (2026-2032) & (US\$ Million)

Table 32: North America Single Crystal Germanium Sales by Application (2020-2025) & (K Ton)

Table 33: North America Single Crystal Germanium Sales by Application (2026-2032) & (K Ton)

Table 34: North America Single Crystal Germanium Revenue by Application (2020-2025) & (US\$ Million)

Table 35: North America Single Crystal Germanium Revenue by Application (2026-2032) & (US\$ Million)

Table 36: North America Single Crystal Germanium Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 37: North America Single Crystal Germanium Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 38: North America Single Crystal Germanium Sales Market Size by Country (2020-2025) & (K Ton)

Table 39: North America Single Crystal Germanium Sales Market Size by Country (2026-2032) & (K Ton)

Table 40: Key Single Crystal Germanium Players in Europe

Table 41: Europe Single Crystal Germanium Sales by Type (2020-2025) & (K Ton)

Table 42: Europe Single Crystal Germanium Sales by Type (2026-2032) & (K Ton)

Table 43: Europe Single Crystal Germanium Revenue by Type (2020-2025) & (US\$ Million)

Table 44: Europe Single Crystal Germanium Revenue by Type (2026-2032) & (US\$ Million)

Table 45: Europe Single Crystal Germanium Sales by Application (2020-2025) & (K Ton)

Table 46: Europe Single Crystal Germanium Sales by Application (2026-2032) & (K Ton)

Table 47: Europe Single Crystal Germanium Revenue by Application (2020-2025) & (US\$ Million)

Table 48: Europe Single Crystal Germanium Revenue by Application (2026-2032) & (US\$ Million)

Table 49: Europe Single Crystal Germanium Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 50: Europe Single Crystal Germanium Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 51: Europe Single Crystal Germanium Sales Market Size by Country (2020-2025) & (K Ton)

Table 52: Europe Single Crystal Germanium Sales Market Size Forecast by Country (2026-2032) & (K Ton)

Table 53: Key Single Crystal Germanium Players in China

Table 54: China Single Crystal Germanium Sales by Type (2020-2025) & (K Ton)

Table 55: China Single Crystal Germanium Sales by Type (2026-2032) & (K Ton)

Table 56: China Single Crystal Germanium Revenue by Type (2020-2025) & (US\$ Million)

Table 57: China Single Crystal Germanium Revenue by Type (2026-2032) & (US\$ Million)

Table 58: China Single Crystal Germanium Sales by Application (2020-2025) & (K Ton)

Table 59: China Single Crystal Germanium Sales by Application (2026-2032) & (K Ton)

Table 60: China Single Crystal Germanium Revenue by Application (2020-2025) & (US\$ Million)

Table 61: China Single Crystal Germanium Revenue by Application (2026-2032) & (US\$ Million)

Table 62: Key Single Crystal Germanium Players in APAC (excl. China)

Table 63: APAC (excl. China) Single Crystal Germanium Sales by Type (2020-2025) & (K Ton)

Table 64: APAC (excl. China) Single Crystal Germanium Sales by Type (2026-2032) & (K Ton)

Table 65: APAC (excl. China) Single Crystal Germanium Revenue by Type (2020-2025)

& (US\$ Million)

Table 66: APAC (excl. China) Single Crystal Germanium Revenue by Type (2026-2032)

& (US\$ Million)

Table 67: APAC (excl. China) Single Crystal Germanium Sales by Application (2020-2025) & (K Ton)

Table 68: APAC (excl. China) Single Crystal Germanium Sales by Application (2026-2032) & (K Ton)

Table 69: APAC (excl. China) Single Crystal Germanium Revenue by Application (2020-2025) & (US\$ Million)

Table 70: APAC (excl. China) Single Crystal Germanium Revenue by Application (2026-2032) & (US\$ Million)

Table 71:: APAC (excl. China) Single Crystal Germanium Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 72: APAC (excl. China) Single Crystal Germanium Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 73: APAC (excl. China) Single Crystal Germanium Sales Market Size by Country (2020-2025) & (K Ton)

Table 74: APAC (excl. China) Single Crystal Germanium Sales Market Size Forecast by Country (2026-2032) & (K Ton)

Table 75: Key Single Crystal Germanium Players in Latin America

Table 76: Latin America Single Crystal Germanium Sales by Type (2020-2025) & (K Ton)

Table 77: Latin America Single Crystal Germanium Sales by Type (2026-2032) & (K Ton)

Table 78: Latin America Single Crystal Germanium Revenue by Type (2020-2025) & (US\$ Million)

Table 79: Latin America Single Crystal Germanium Revenue by Type (2026-2032) & (US\$ Million)

Table 80: Latin America Single Crystal Germanium Sales by Application (2020-2025) & (K Ton)

Table 81: Latin America Single Crystal Germanium Sales by Application (2026-2032) & (K Ton)

Table 82: Latin America Single Crystal Germanium Revenue by Application (2020-2025) & (US\$ Million)

Table 83: Latin America Single Crystal Germanium Revenue by Application (2026-2032) & (US\$ Million)

Table 84: Latin America Single Crystal Germanium Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 85: Latin America Single Crystal Germanium Revenue Market Size Forecast by

Country (2026-2032) & (US\$ Million)

Table 86: Latin America Single Crystal Germanium Sales Market Size by Country (2020-2025) & (K Ton)

Table 87: Latin America Single Crystal Germanium Sales Market Size Forecast by Country (2026-2032) & (K Ton)

Table 88: Key Single Crystal Germanium Players in Middle East & Africa

Table 89: Middle East & Africa Single Crystal Germanium Sales by Type (2020-2025) & (K Ton)

Table 90: Middle East & Africa Single Crystal Germanium Sales by Type (2026-2032) & (K Ton)

Table 91: Middle East & Africa Single Crystal Germanium Revenue by Type (2020-2025) & (US\$ Million)

Table 92: Middle East & Africa Single Crystal Germanium Revenue by Type (2026-2032) & (US\$ Million)

Table 93: Middle East & Africa Single Crystal Germanium Sales by Application (2020-2025) & (K Ton)

Table 94: Middle East & Africa Single Crystal Germanium Sales by Application (2026-2032) & (K Ton)

Table 95: Middle East & Africa Single Crystal Germanium Revenue by Application (2020-2025) & (US\$ Million)

Table 96: Middle East & Africa Single Crystal Germanium Revenue by Application (2026-2032) & (US\$ Million)

Table 97: Middle East & Africa Single Crystal Germanium Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 98: Middle East & Africa Single Crystal Germanium Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 99: Middle East & Africa Single Crystal Germanium Sales Market Size by Country (2020-2025) & (K Ton)

Table 100: Middle East & Africa Single Crystal Germanium Sales Market Size Forecast by Country (2026-2032) & (K Ton)

Table 101: Global Single Crystal Germanium Market Sales by Key Manufacturers (2021-2025) & (K Ton)

Table 102: Global Single Crystal Germanium Sales Market Share by Key Manufacturers (2021-2025)

Table 103: Global Single Crystal Germanium Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)

Table 104: Global Single Crystal Germanium Revenue Market Share by Key Manufacturers (2021-2025)

Table 105: Global Average Sales Price by Manufacturers (2021-2025) & (USD/Ton)

Table 106: Global Key Manufacturers Headquarter Location and Key Area Sales

Table 107: Market Mergers & Acquisitions, Expansion

Table 108: China Germanium Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 109: China Germanium Single Crystal Germanium Product Portfolio

Table 110: China Germanium Single Crystal Germanium Revenue (US\$ Million), Sales (K Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 111: Yunnan Germanium Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 112: Yunnan Germanium Single Crystal Germanium Product Portfolio

Table 113: Yunnan Germanium Single Crystal Germanium Revenue (US\$ Million), Sales (K Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 114: Umicore Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 115: Umicore Single Crystal Germanium Product Portfolio

Table 116: Umicore Single Crystal Germanium Revenue (US\$ Million), Sales (K Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 117: Chihong Zn&Ge Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 118: Chihong Zn&Ge Single Crystal Germanium Product Portfolio

Table 119: Chihong Zn&Ge Single Crystal Germanium Revenue (US\$ Million), Sales (K Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 120: AXT Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 121: AXT Single Crystal Germanium Product Portfolio

Table 122: AXT Single Crystal Germanium Revenue (US\$ Million), Sales (K Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 123: PS (Jenoptik) Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 124: PS (Jenoptik) Single Crystal Germanium Product Portfolio

Table 125: PS (Jenoptik) Single Crystal Germanium Revenue (US\$ Million), Sales (K Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 126: PPM Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 127: PPM Single Crystal Germanium Product Portfolio

Table 128: PPM Single Crystal Germanium Revenue (US\$ Million), Sales (K Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 129: Baoding Sanjing Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 130: Baoding Sanjing Single Crystal Germanium Product Portfolio

Table 131: Baoding Sanjing Single Crystal Germanium Revenue (US\$ Million), Sales (K Ton), Price (USD/Ton), Gross Margin and Market Share (2021-2025)

Table 132: Upstream Key Raw Material Price List

Table 133: Single Crystal Germanium Raw Material Suppliers and Contact Information

Table 134: Single Crystal Germanium Typical Customer List

Table 135: Single Crystal Germanium Distributors List

## List Of Figures

### LIST OF FIGURES

- Figure 1: Single Crystal Germanium Product Pictures
- Figure 2: Solar Grade Picture Scope
- Figure 3: Infrared Grade Picture Scope
- Figure 4: Detector Grade Picture Scope
- Figure 5: Semiconductor Device Picture Scope
- Figure 6: Solar Battery Picture Scope
- Figure 7: Infrared Imager Picture Scope
- Figure 8: Others Picture Scope
- Figure 9: Global Single Crystal Germanium Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)
- Figure 10: Global Single Crystal Germanium Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)
- Figure 11: Global Single Crystal Germanium Market Sales and Growth Rate Analysis (2020-2032) & (K Ton)
- Figure 12: Global Single Crystal Germanium Market Price Trend Analysis (2020-2032) & (USD/Ton)
- Figure 13: Global Single Crystal Germanium Capacity, Production and Utilization (2019-2030) & (K Ton)
- Figure 14: Global Single Crystal Germanium Production by Region: 2023 VS 2024 VS 2030 (K Ton)
- Figure 15: Global Single Crystal Germanium Production Market Share by Region in Percentage: 2024 Versus 2030
- Figure 16: Global Single Crystal Germanium Production Market Share by Region (2019-2030)
- Figure 17: Global Single Crystal Germanium Market Size by Region (2020-2032) & (US\$ Million)
- Figure 18: Global Single Crystal Germanium Market Share Scenario by Region in Percentage: 2025 Versus 2032
- Figure 19: Global Single Crystal Germanium Sales Price by Region (2020-2032) & (K Ton)
- Figure 20: North America Single Crystal Germanium Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 21: North America Single Crystal Germanium Revenue Market Share by Players in 2024
- Figure 22: North America Single Crystal Germanium Sales Market Share by Type

(2020-2032)

Figure 23:North America Single Crystal Germanium Revenue Market Share by Type (2020-2032)

Figure 24:North America Single Crystal Germanium Sales Market Share by Application (2020-2032)

Figure 25:North America Single Crystal Germanium Revenue Market Share by Application (2020-2032)

Figure 26:US Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 27:Canada Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 28:Europe Single Crystal Germanium Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 29:Europe Single Crystal Germanium Revenue Market Share by Players in 2024

Figure 30:Europe Single Crystal Germanium Sales Market Share by Type (2020-2032)

Figure 31:Europe Single Crystal Germanium Revenue Market Share by Type (2020-2032)

Figure 32:Europe Single Crystal Germanium Sales Market Share by Application (2020-2032)

Figure 33:Europe Single Crystal Germanium Revenue Market Share by Application (2020-2032)

Figure 34:Germany Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 35:France Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 36:United Kingdom Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 37:Italy Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 38:Spain Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 39:Benelux Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 40:China Single Crystal Germanium Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 41:China Single Crystal Germanium Revenue Market Share by Players in 2024

Figure 42:China Single Crystal Germanium Sales Market Share by Type (2020-2032)

Figure 43:China Single Crystal Germanium Revenue Market Share by Type (2020-2032)

Figure 44:China Single Crystal Germanium Sales Market Share by Application (2020-2032)

Figure 45:China Single Crystal Germanium Revenue Market Share by Application (2020-2032)

Figure 46:APAC (excl. China) Single Crystal Germanium Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 47:APAC (excl. China) Single Crystal Germanium Revenue Market Share by

## Players in 2024

Figure 48:APAC (excl. China) Single Crystal Germanium Sales Market Share by Type (2020-2032)

Figure 49:APAC (excl. China) Single Crystal Germanium Revenue Market Share by Type (2020-2032)

Figure 50:APAC (excl. China) Single Crystal Germanium Sales Market Share by Application (2020-2032)

Figure 51:APAC (excl. China) Single Crystal Germanium Revenue Market Share by Application (2020-2032)

Figure 52:Japan Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 53:South Korea Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 54:India Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 55:Australia Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 56:Southeast Asia Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 57:Latin America Single Crystal Germanium Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 58:Latin America Single Crystal Germanium Revenue Market Share by Players in 2024

Figure 59:Latin America Single Crystal Germanium Sales Market Share by Type (2020-2032)

Figure 60:Latin America Single Crystal Germanium Revenue Market Share by Type (2020-2032)

Figure 61:Latin America Single Crystal Germanium Sales Market Share by Application (2020-2032)

Figure 62:Latin America Single Crystal Germanium Revenue Market Share by Application (2020-2032)

Figure 63:Mexico Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 64:Brazil Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 65:Middle East & Africa Single Crystal Germanium Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 66:Middle East & Africa Single Crystal Germanium Revenue Market Share by Players in 2024

Figure 67:Middle East & Africa Single Crystal Germanium Sales Market Share by Type (2020-2032)

Figure 68:Middle East & Africa Single Crystal Germanium Revenue Market Share by Type (2020-2032)

Figure 69:Middle East & Africa Single Crystal Germanium Sales Market Share by Application (2020-2032)

Figure 70: Middle East & Africa Single Crystal Germanium Revenue Market Share by Application (2020-2032)

Figure 71: Saudi Arabia Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 72: South Africa Single Crystal Germanium Revenue (2020-2032) & (US\$ Million)

Figure 73: Global Single Crystal Germanium Sales Market Share by Key Manufacturers in 2024

Figure 74: Global Single Crystal Germanium Revenue Market Share by Key Manufacturers in 2024

Figure 75: Global Single Crystal Germanium Industry Competition Landscape

Figure 76: Single Crystal Germanium Industry Chain Analysis

Figure 77: Bottom-Up and Top-Down Research Methods

Figure 78: Key Interview Objectives

Figure 79: Data Cross Validation

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