

Europe Silicon EPI Wafer Market Forecast to 2028 - COVID-19 Impact and Regional Analysis - Wafer Size (6 Inch, 8 Inch, 12 Inch, and Others), Application (LED, Power Semiconductor, and MEMS-Based Device), End User (Consumer Electronics, Automotive, Healthcare, Aerospace and Defense, and Others), and Type (Heteroepitaxy and Homoepitaxy)

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AVAILABLE LICENSES:

- Single User Price \$3000.00
- Site Price \$4000.00
- Enterprise Price \$5000.00

Report description:

The Europe silicon EPI wafer market is expected to grow from US\$ 546.83 million in 2022 to US\$ 850.90 million by 2028; it is estimated to grow at a CAGR of 7.6% from 2022 to 2028.

The incorporation of cutting-edge optical, wireless, computer, and power electronic systems into new and existing vehicle platforms benefits consumers with better safety, comfort, and fuel efficiency. Compared to their conventional silicon equivalents, wide-band-gap semiconductors, such as silicon carbide (SiC), offer unique physical features that enable great power-handling capabilities, efficient switching, and lower losses in power devices. In the conditions where electrical energy is being used at a high scale, wide-band-gap semiconductors significantly contribute to the reduction in CO2 emissions. IQE provides dependable, cutting-edge epitaxial wafer and substrate materials to automotive semiconductor manufacturers. The basic electronics of light detection & ranging (LiDAR) systems for advanced driver assistance systems (ADAS) and upcoming driverless cars are made possible by the cutting-edge GaInAsN VCSEL and Avalanche Photodiodes (APD) epitaxial wafers. The GaN epitaxial wafer materials offered by IQE are ideally positioned to develop communication systems for connected cars, and power-efficient electronics that extend the driving range of electric vehicles (EVs) and boost the fuel efficiency of internal combustion engines (ICEs). With these features, the use of silicon EPI wafers is increasing in the automotive sector.

Vendors in the Europe silicon EPI wafers market can attract new customers and expand their footprints in emerging markets by

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providing products with innovative features. This factor is likely to drive the market growth at a notable CAGR during the forecast period.

Europe Silicon EPI Wafer Market Revenue and Forecast to 2028 (US\$ Million)

Europe Silicon EPI Wafer Market Segmentation

The Europe silicon EPI wafer market is segmented on the basis of wafer size, application, end user, type, and country. Based on wafer size, the market is segmented into 6 inch, 8 inch, 12 inch, and others. Based on application, the market is divided into led, power semiconductor, and MEMS-based devices. By end user, the Europe silicon EPI wafer market is segmented into consumer electronics, automotive, healthcare, aerospace and defense, and others. Based on type, the market is bifurcated into heteroepitaxy and homoepitaxy. Based on country, the Europe silicon EPI wafer market is segmented into the Germany, France, Italy, Russia, the UK, and Rest of Europe.

Europe Silicon EPI Wafer Market - Companies Mentioned

Applied Materials, Inc.; II-VI Incorporated; Shin-Etsu Chemical Co., Ltd.; SUMCO CORPORATION; Siltronic AG; NICHIA CORPORATION; EpiGaN nv (Soitec Belgium N.V.); and SK Siltron Co., Ltd. are among the major companies operating in the Europe silicon EPI wafer market.

Table of Contents:

TABLE OF CONTENTS

1. Introduction
 - 1.1 Study Scope
 - 1.2 The Insight Partners Research Report Guidance
 - 1.3 Market Segmentation
2. Key Takeaways
3. Research Methodology
 - 3.1 Coverage
 - 3.2 Secondary Research
 - 3.3 Primary Research
4. Europe Silicon EPI Wafer Market Landscape
 - 4.1 Market Overview
 - 4.2 PEST Analysis
 - 4.2.1 Europe
 - 4.3 Ecosystem Analysis
 - 4.4 Expert Opinion
5. Europe Silicon EPI Wafer Market- Key Market Dynamics
 - 5.1 Market Drivers
 - 5.1.1 Rising Demand for Epitaxial Wafers in Consumer Electronics
 - 5.1.2 Increasing Use of Wafers in Automotive Industry
 - 5.2 Market Restraints
 - 5.2.1 High Cost of Wafer Manufacturing
 - 5.3 Market Opportunities
 - 5.3.1 Rising Application of IoT in Wafers
 - 5.4 Future Trends
 - 5.4.1 Continuous Improvements in Silicon-on-Insulator Wafers

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- 5.5 Impact Analysis of Drivers and Restraints
- 6. Europe Silicon EPI Wafer Market - Market Analysis
- 6.1 Europe Silicon EPI Wafer Market - Revenue and Forecast to 2028 (US\$ Million)
- 7. Europe Silicon EPI Wafer Market Analysis - By Wafer size
- 7.1 Overview
- 7.2 Europe Silicon EPI Wafer Market, By Wafer size (2021 and 2028)
- 7.3 6 Inch
- 7.3.1 Overview
- 7.3.2 6 Inch: Europe Silicon EPI Wafer Market - Revenue, and Forecast to 2028 (US\$ Million)
- 7.4 8 Inch
- 7.4.1 Overview
- 7.4.2 8 Inch: Europe Silicon EPI Wafer Market - Revenue, and Forecast to 2028 (US\$ Million)
- 7.5 Inch
- 7.5.1 Overview
- 7.5.2 Inch: Europe Silicon EPI Wafer Market - Revenue, and Forecast to 2028 (US\$ Million)
- 7.6 Others
- 7.6.1 Overview
- 7.6.2 Others: Europe Silicon EPI Wafer Market - Revenue, and Forecast to 2028 (US\$ Million)
- 8. Europe Silicon EPI Wafer Market Analysis - By Application
- 8.1 Overview
- 8.2 Europe Silicon EPI Wafer Market, By Application (2021 and 2028)
- 8.3 LED
- 8.3.1 Overview
- 8.3.2 LED: Europe Silicon EPI Wafer Market - Revenue, and Forecast to 2028 (US\$ Million)
- 8.4 Power Semiconductor
- 8.4.1 Overview
- 8.4.2 Power Semiconductor: Europe Silicon EPI Wafer Market - Revenue, and Forecast to 2028 (US\$ Million)
- 8.5 MEMS-based Device
- 8.5.1 Overview
- 8.5.2 MEMS-based Device: Europe Silicon EPI Wafer Market - Revenue, and Forecast to 2028 (US\$ Million)
- 9. Europe Silicon EPI Wafer Market Analysis - By End user
- 9.1 Overview
- 9.2 Europe Silicon EPI Wafer Market, By End user (2021 and 2028)
- 9.3 Consumer Electronics
- 9.3.1 Overview
- 9.3.2 Consumer Electronics: Europe Silicon EPI Wafer Market - Revenue and Forecast to 2028 (US\$ Million)
- 9.4 Automotive
- 9.4.1 Overview
- 9.4.2 Automotive: Europe Silicon EPI Wafer Market - Revenue and Forecast to 2028 (US\$ Million)
- 9.5 Healthcare
- 9.5.1 Overview
- 9.5.2 Healthcare: Europe Silicon EPI Wafer Market - Revenue and Forecast to 2028 (US\$ Million)
- 9.6 Aerospace and Defense
- 9.6.1 Overview
- 9.6.2 Aerospace and Defense: Europe Silicon EPI Wafer Market - Revenue and Forecast to 2028 (US\$ Million)
- 9.7 Others
- 9.7.1 Overview

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- 9.7.2 Others: Europe Silicon EPI Wafer Market - Revenue and Forecast to 2028 (US\$ Million)
- 10. Europe Silicon EPI Wafer Market Analysis - By Type
 - 10.1 Overview
 - 10.2 Europe Silicon EPI Wafer Market Breakdown, by Type, 2021 & 2028
 - 10.3 Heteroepitaxy
 - 10.3.1 Overview
 - 10.3.2 Heteroepitaxy: Europe Silicon EPI Wafer Market Revenue and Forecast to 2028 (US\$ Million)
 - 10.4 Homoepitaxy
 - 10.4.1 Overview
 - 10.4.2 Homoepitaxy: Europe Silicon EPI Wafer Market Revenue and Forecast to 2028 (US\$ Million)
- 11. Europe Silicon EPI Wafer Market - Country Analysis
 - 11.1 Europe: Europe Silicon EPI Wafer Market
 - 11.1.1 Overview
 - 11.1.2 Europe Silicon EPI Wafer Market Revenue and Forecast to 2028 (US\$ Million)
 - 11.1.3 Europe Silicon EPI Wafer Market Breakdown, by Country
 - 11.1.3.1 Germany Europe Silicon EPI Wafer Market, Revenue and Forecast to 2028
 - 11.1.3.1.1 Germany Europe Silicon EPI Wafer Market Breakdown, by Wafer size
 - 11.1.3.1.2 Germany Europe Silicon EPI Wafer Market Breakdown, by Application
 - 11.1.3.1.3 Germany Europe Silicon EPI Wafer Market Breakdown, by End user
 - 11.1.3.1.4 Germany Europe Silicon EPI Wafer Market Breakdown, by Type
 - 11.1.3.2 France Europe Silicon EPI Wafer Market, Revenue and Forecast to 2028
 - 11.1.3.2.1 France Europe Silicon EPI Wafer Market Breakdown, by Wafer size
 - 11.1.3.2.2 France Europe Silicon EPI Wafer Market Breakdown, by Application
 - 11.1.3.2.3 France Europe Silicon EPI Wafer Market Breakdown, by End user
 - 11.1.3.2.4 France Europe Silicon EPI Wafer Market Breakdown, by Type
 - 11.1.3.3 Italy Europe Silicon EPI Wafer Market, Revenue and Forecast to 2028
 - 11.1.3.3.1 Italy Europe Silicon EPI Wafer Market Breakdown, by Wafer size
 - 11.1.3.3.2 Italy Europe Silicon EPI Wafer Market Breakdown, by Application
 - 11.1.3.3.3 Italy Europe Silicon EPI Wafer Market Breakdown, by End user
 - 11.1.3.3.4 Italy Europe Silicon EPI Wafer Market Breakdown, by Type
 - 11.1.3.4 UK Europe Silicon EPI Wafer Market, Revenue and Forecast to 2028
 - 11.1.3.4.1 UK Europe Silicon EPI Wafer Market Breakdown, by Wafer size
 - 11.1.3.4.2 UK Europe Silicon EPI Wafer Market Breakdown, by Application
 - 11.1.3.4.3 UK Europe Silicon EPI Wafer Market Breakdown, by End user
 - 11.1.3.4.4 UK Europe Silicon EPI Wafer Market Breakdown, by Type
 - 11.1.3.5 Russia Europe Silicon EPI Wafer Market, Revenue and Forecast to 2028
 - 11.1.3.5.1 Russia Europe Silicon EPI Wafer Market Breakdown, by Wafer size
 - 11.1.3.5.2 Russia Europe Silicon EPI Wafer Market Breakdown, by Application
 - 11.1.3.5.3 Russia Europe Silicon EPI Wafer Market Breakdown, by End user
 - 11.1.3.5.4 Russia Europe Silicon EPI Wafer Market Breakdown, by Type
 - 11.1.3.6 Rest of Europe Silicon EPI Wafer Market, Revenue and Forecast to 2028
 - 11.1.3.6.1 Rest of Europe Silicon EPI Wafer Market Breakdown, by Wafer size
 - 11.1.3.6.2 Rest of Europe Silicon EPI Wafer Market Breakdown, by Application
 - 11.1.3.6.3 Rest of Europe Silicon EPI Wafer Market Breakdown, by End user
 - 11.1.3.6.4 Rest of Europe Silicon EPI Wafer Market Breakdown, by Type
- 12. Industry Landscape
 - 12.1 Overview

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- 12.2 Market Initiative
- 12.3 Mergers and Acquisition
- 12.4 New Product Development
- 13. Company Profiles
 - 13.1 Applied Materials, Inc.
 - 13.1.1 Key Facts
 - 13.1.2 Business Description
 - 13.1.3 Products and Services
 - 13.1.4 Financial Overview
 - 13.1.5 SWOT Analysis
 - 13.1.6 Key Developments
 - 13.2 II-VI Incorporated
 - 13.2.1 Key Facts
 - 13.2.2 Business Description
 - 13.2.3 Products and Services
 - 13.2.4 Financial Overview
 - 13.2.5 SWOT Analysis
 - 13.2.6 Key Developments
 - 13.3 Shin-Etsu Chemical Co., Ltd.
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
 - 13.4 SUMCO CORPORATION
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
 - 13.5 Siltronic AG
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
 - 13.6 NICHIA CORPORATION
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis
 - 13.6.6 Key Developments
 - 13.7 EpiGaN nv (Soitec Belgium N.V.)

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- 13.7.1 Key Facts
- 13.7.2 Business Description
- 13.7.3 Products and Services
- 13.7.4 Financial Overview
- 13.7.5 SWOT Analysis
- 13.7.6 Key Developments
- 13.8 SK Siltron Co., Ltd.
- 13.8.1 Key Facts
- 13.8.2 Business Description
- 13.8.3 Products and Services
- 13.8.4 Financial Overview
- 13.8.5 SWOT Analysis
- 13.8.6 Key Developments
- 14. Appendix
- 14.1 About The Insight Partners
- 14.2 Word Index

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