

Global SOI (Silicon on Insulator) Wafer Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global SOI (Silicon on Insulator) Wafer market size was valued at US\$ 1378 million in 2023 and is forecast to a readjusted size of USD 2464 million by 2030 with a CAGR of 9.1% during review period.

SOI wafers are silicon wafers with a thin silicon film on insulating oxide, and their production requires a very high level of technical expertise. SOI wafers enable the manufacture of the most advanced MEMS, sensor, power and RF devices used in automotive and healthcare applications, smart wristbands, smartphones and tablets as well as applications related to Internet of Things (IoT) utilizing sensor-provided data in device-to-device communication.

Currently the key manufacturers of SOI wafers include Soitec, Shin-Etsu Chemical, SUMCO, GlobalWafers, Wafer Works Corporation, National Silicon Industry Group (NSIG), Zhonghuan Advanced Semiconductor Materials, Hangzhou Semiconductor Wafer, Shanghai Advanced Silicon Technology (AST), etc. Among them, Soitec is the world's largest SOI silicon wafer manufacturer, with a market share of over 70%. Soitec SOI silicon wafer production is mainly distributed in France, Singapore and China, of which 300mm SOI silicon wafer revenue accounts for more than 65%. At present, the mobile phone market has the strongest demand for RF SOI, including 4G/5G and millimeter wave, and the products cover switches, low noise amplifiers, antenna tuners, etc.; followed by power products for automobiles, such as AFE chips in BMS, CAN/LIN interface chips in automotive network communications, etc.; thirdly, there will be relevant demand in the silicon photonics market in the field of artificial intelligence.

This report is a detailed and comprehensive analysis for global SOI (Silicon on

Insulator) Wafer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global SOI (Silicon on Insulator) Wafer market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2019-2030

Global SOI (Silicon on Insulator) Wafer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2019-2030

Global SOI (Silicon on Insulator) Wafer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (USD/Pcs), 2019-2030

Global SOI (Silicon on Insulator) Wafer market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (USD/Pcs), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for SOI (Silicon on Insulator) Wafer

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global SOI (Silicon on Insulator) Wafer market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Soitec, Shin-Etsu Chemical, SUMCO, GlobalWafers, Wafer Works Corporation, National Silicon Industry Group (NSIG), Zhonghuan Advanced Semiconductor Materials, Hangzhou Semiconductor Wafer, Shanghai Advanced Silicon Technology (AST), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

SOI (Silicon on Insulator) Wafer market is split by Type and by Application. For the

period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- 300mm SOI wafer
- 200mm SOI wafer
- 150mm SOI wafer

Market segment by Application

- RF-SOI
- Power-SOI
- FD-SOI
- Photonics-SOI
- Imager-SOI
- Others

Major players covered

- Soitec
- Shin-Etsu Chemical
- SUMCO
- GlobalWafers
- Wafer Works Corporation
- National Silicon Industry Group (NSIG)
- Zhonghuan Advanced Semiconductor Materials
- Hangzhou Semiconductor Wafer
- Shanghai Advanced Silicon Technology (AST)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Global SOI (Silicon on Insulator) Wafer Market 2024 by Manufacturers, Regions, Type and Application, Forecast...

Chapter 1, to describe SOI (Silicon on Insulator) Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SOI (Silicon on Insulator) Wafer, with price, sales quantity, revenue, and global market share of SOI (Silicon on Insulator) Wafer from 2019 to 2024.

Chapter 3, the SOI (Silicon on Insulator) Wafer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SOI (Silicon on Insulator) Wafer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and SOI (Silicon on Insulator) Wafer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of SOI (Silicon on Insulator) Wafer.

Chapter 14 and 15, to describe SOI (Silicon on Insulator) Wafer sales channel, distributors, customers, research findings and conclusion.

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