

Global SOI (Silicon on Insulator) Wafer Market Growth 2025-2031

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Abstracts

The global SOI (Silicon on Insulator) Wafer market size is predicted to grow from US\$ 1505 million in 2025 to US\$ 2619 million in 2031; it is expected to grow at a CAGR of 9.7% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

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.

LP Information, Inc. (LPI) ' newest research report, the “SOI (Silicon on Insulator) Wafer Industry Forecast” looks at past sales and reviews total world SOI (Silicon on Insulator) Wafer sales in 2024, providing a comprehensive analysis by region and market sector of projected SOI (Silicon on Insulator) Wafer sales for 2025 through 2031. With SOI (Silicon on Insulator) Wafer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world SOI (Silicon on Insulator) Wafer industry.

This Insight Report provides a comprehensive analysis of the global SOI (Silicon on Insulator) Wafer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on SOI (Silicon on Insulator) Wafer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SOI (Silicon on Insulator) Wafer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SOI (Silicon on Insulator) Wafer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global SOI (Silicon on Insulator) Wafer.

This report presents a comprehensive overview, market shares, and growth opportunities of SOI (Silicon on Insulator) Wafer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

300mm SOI wafer

200mm SOI wafer

150mm SOI wafer

Segmentation by Application:

RF-SOI

Power-SOI

FD-SOI

Photonics-SOI

Imager-SOI

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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)

Key Questions Addressed in this Report

What is the 10-year outlook for the global SOI (Silicon on Insulator) Wafer market?

What factors are driving SOI (Silicon on Insulator) Wafer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do SOI (Silicon on Insulator) Wafer market opportunities vary by end market size?

How does SOI (Silicon on Insulator) Wafer break out by Type, by Application?

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