

# Global Silicon-on-Insulators (SOI) Competitive Landscape Professional Research Report 2025

<https://marketpublishers.com/r/SBBEDF5BF30CEN.html>

Date: June 2025

Pages: 165

Price: US\$ 3,500.00 (Single User License)

ID: SBBEDF5BF30CEN

## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Silicon-on-Insulators (SOI) market size will reach 1,866.12 Million USD in 2025 and is projected to reach 5,360.60 Million USD by 2032, with a CAGR of 16.27% (2025-2032). Notably, the China Silicon-on-Insulators (SOI) 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

Silicon-on-Insulators (SOI) is a semiconductor technology that involves the fabrication of integrated circuits (ICs) on a silicon substrate separated from a layer of insulating material, typically silicon dioxide. This insulating layer, known as the buried oxide layer, helps to reduce parasitic capacitance and crosstalk between transistors, leading to improved performance and lower power consumption in ICs. SOI technology offers several advantages over traditional bulk silicon wafers, including enhanced speed, reduced leakage current, and increased radiation tolerance. SOI substrates can be manufactured using various methods, including separation by implantation of oxygen (SIMOX), wafer bonding, and epitaxial growth techniques. SOI technology finds applications in a wide range of devices, including microprocessors, memory chips, RF circuits, and power management ICs, enabling the development of high-performance, energy-efficient, and compact electronic systems for diverse applications.

The major global manufacturers of Silicon-on-Insulators (SOI) include Soitec, Shin-Etsu Chemical, GlobalWafers, SUMCO, NSIG, 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 Silicon-on-Insulators (SOI). 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 Silicon-on-Insulators (SOI) 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 Silicon-on-Insulators (SOI) 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 Silicon-on-Insulators (SOI) 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 Silicon-on-Insulators (SOI) Include:

Soitec

Shin-Etsu Chemical

GlobalWafers

SUMCO

NSIG

Silicon-on-Insulators (SOI) Product Segment Include:

?200 mm

300 mm

Silicon-on-Insulators (SOI) Product Application Include:

Consumer Electronics

Automotive

Datacom & Telecom

Others

## **Chapter Scope**

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