

# Covid-19 Impact on Global FD-SOI Wafers Market Insights, Forecast to 2026

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# **Abstracts**

Silicon on insulator (SOI) technology refers to the use of a layered silicon—insulator—silicon substrate in place of conventional silicon substrates in semiconductor manufacturing, especially microelectronics, to reduce parasitic capacitance within the device, thereby improving performance. SOI-based devices differ from conventional silicon-built devices in that the silicon junction is above an electrical insulator, typically silicon dioxide or sapphire (these types of devices are called silicon on sapphire, or SOS). The choice of insulator depends largely on intended application, with sapphire being used for high-performance radio frequency (RF) and radiation-sensitive applications, and silicon dioxide for diminished short-channel effects in microelectronics devices. The insulating layer and topmost silicon layer also vary widely with application.

FD-SOI uses an ultra-thin layer of silicon over a buried oxide as a means to reduce leakage and variation in chips. FDSOI also boasts a back-bias feature.

This report focus on Finished FD-SOI Wafers market.

Silicon-on-insulator (SOI) technology itself refers to the use of a layered SOI substrate in place of a conventional bulk substrate. Fully-depleted silicon-on-insulator (FD-SOI) relies on an ultra-thin layer of an insulator, called the buried oxide. This is placed on top of the base silicon. There is no need to dope the channel. This, in turn, makes the transistor fully depleted. One knock on FD-SOI is the cost. SOI substrates are more expensive than bulk CMOS wafers.

Since the COVID-19 virus outbreak in December 2019, the disease has spread to almost 100 countries around the globe with the World Health Organization declaring it a public health emergency. The global impacts of the coronavirus disease 2019 (COVID-19) are already starting to be felt, and will significantly affect the FD-SOI Wafers market in 2020.

COVID-19 can affect the global economy in three main ways: by directly affecting



production and demand, by creating supply chain and market disruption, and by its financial impact on firms and financial markets.

The outbreak of COVID-19 has brought effects on many aspects, like flight cancellations; travel bans and quarantines; restaurants closed; all indoor events restricted; over forty countries state of emergency declared; massive slowing of the supply chain; stock market volatility; falling business confidence, growing panic among the population, and uncertainty about future.

This report also analyses the impact of Coronavirus COVID-19 on the FD-SOI Wafers industry.

Based on our recent survey, we have several different scenarios about the FD-SOI Wafers YoY growth rate for 2020. The probable scenario is expected to grow by a xx% in 2020 and the revenue will be xx in 2020 from US\$ xx million in 2019. The market size of FD-SOI Wafers will reach xx in 2026, with a CAGR of xx% from 2020 to 2026. With industry-standard accuracy in analysis and high data integrity, the report makes a brilliant attempt to unveil key opportunities available in the global FD-SOI Wafers market to help players in achieving a strong market position. Buyers of the report can access verified and reliable market forecasts, including those for the overall size of the global FD-SOI Wafers market in terms of both revenue and volume.

Players, stakeholders, and other participants in the global FD-SOI Wafers market will be able to gain the upper hand as they use the report as a powerful resource. For this version of the report, the segmental analysis focuses on sales (volume), revenue and forecast by each application segment in terms of sales and revenue and forecast by each type segment in terms of revenue for the period 2015-2026.

#### **Production and Pricing Analyses**

Readers are provided with deeper production analysis, import and export analysis, and pricing analysis for the global FD-SOI Wafers market. As part of production analysis, the report offers accurate statistics and figures for production capacity, production volume by region, and global production and production by each type segment for the period 2015-2026.

In the pricing analysis section of the report, readers are provided with validated statistics and figures for price by manufacturer and price by region for the period 2015-2020 and price by each type segment for the period 2015-2026. The import and export analysis for the global FD-SOI Wafers market has been provided based on region.

#### Regional and Country-level Analysis

The report offers an exhaustive geographical analysis of the global FD-SOI Wafers



market, covering important regions, viz, North America, Europe, China, Japan and South Korea. It also covers key countries (regions), viz, U.S., Canada, Germany, France, U.K., Italy, Russia, China, Japan, South Korea, India, Australia, Taiwan, Indonesia, Thailand, Malaysia, Philippines, Vietnam, Mexico, Brazil, Turkey, Saudi Arabia, U.A.E, etc.

The report includes country-wise and region-wise market size for the period 2015-2026. It also includes market size and forecast by each application segment in terms of volume for the period 2015-2026.

#### **Competition Analysis**

In the competitive analysis section of the report, leading as well as prominent players of the global FD-SOI Wafers market are broadly studied on the basis of key factors. The report offers comprehensive analysis and accurate statistics on sales by the player for the period 2015-2020. It also offers detailed analysis supported by reliable statistics on price and revenue (global level) by player for the period 2015-2020.

On the whole, the report proves to be an effective tool that players can use to gain a competitive edge over their competitors and ensure lasting success in the global FD-SOI Wafers market. All of the findings, data, and information provided in the report are validated and revalidated with the help of trustworthy sources. The analysts who have authored the report took a unique and industry-best research and analysis approach for an in-depth study of the global FD-SOI Wafers market.

The following manufacturers are covered in this report:

STMicroelectronics
Globalfoundries
Samsung

FD-SOI Wafers Breakdown Data by Type

28nm Wafers

22/14/18nm Wafers



# 12/10nm Wafers

# FD-SOI Wafers Breakdown Data by Application

Automotive

Mobility

IoT/Wearables

5G & Radars

Others



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