

# **Asia-Pacific Silicon on Insulator Market-Companies Profiles, Size, Share, Growth, Trends and Forecast to 2026**

<https://marketpublishers.com/r/AC907C2C3CBEN.html>

Date: February 2019

Pages: 100

Price: US\$ 2,500.00 (Single User License)

ID: AC907C2C3CBEN

## **Abstracts**

Asia-Pacific Silicon on Insulator Market is expected to reach at a CAGR of 10.0% in the forecast period of 2019 to 2026. The market report contains data for the historic year 2017, the base year of calculation is 2018 and the forecast period is 2019 to 2026.

## **MARKET SEGMENTATION**

By Wafer Type (Fully Depleted Silicon on Insulator (FD-SOI), RF-SOI, Emerging-SOI, Partially Depleted Silicon on Insulator (PD-SOI), Power-SOI, Wafer Size (

## Contents

### 1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 OVERVIEW OF ASIA-PACIFIC SILICON ON INSULATOR MARKET
- 1.4 CURRENCY AND PRICING
- 1.5 LIMITATION
- 1.6 MARKETS COVERED

### 2 MARKET SEGMENTATION

- 2.1 MARKETS COVERED
- 2.2 GEOGRAPHIC SCOPE
- 2.3 YEARS CONSIDERED FOR THE STUDY
- 2.4 CURRENCY AND PRICING
- 2.5 RESEARCH METHODOLOGY
- 2.6 TECHNOLOGY LIFE LINE CURVE
- 2.7 MULTIVARIATE MODELLING
- 2.8 PRIMARY INTERVIEWS WITH KEY OPINION LEADERS
- 2.9 DBMR MARKET POSITION GRID
- 2.10 MARKET APPLICATION COVERAGE GRID
- 2.11 DBMR MARKET CHALLENGE MATRIX
- 2.12 IMPORT-EXPORT DATA
- 2.13 SECONDARY SOURCES
- 2.14 ASSUMPTIONS

### 3 MARKET OVERVIEW

- 3.1 DRIVERS
  - 3.1.1 GROWING DEMAND FOR SEMICONDUCTORS
  - 3.1.2 GROWING ADOPTION OF FD-SOI
  - 3.1.3 GROWING DEMAND OF FAULT-TOLERANT SOI MICROPROCESSOR IN SPACE APPLICATIONS
  - 3.1.4 SOI FILM THICKNESS STANDS AS A TUNABLE PARAMETER FOR DEVICE SHRINKING
- 3.2 RESTRAINTS
  - 3.2.1 SILICONE PRICE OUTPOURING AS THE DEMAND SINKS

3.2.2 USAGE OF SILICONE CHEMICAL PRODUCTS IS HARMFUL FOR THE BIODIVERSITY

3.2.3 DECLINE IN THE AVAILABILITY OF SILICONE DUE TO STRINGENT ENVIRONMENTAL REGULATIONS LEADING TO SHUT DOWN OF PLANTS

3.3 OPPORTUNITIES

3.3.1 RF-SOI THAT SUPPORT DATA TRANSFER RATES OF 1 GBPS AND HIGHER

3.3.2 COST-EFFECTIVE SOI FOR ENTRY-LEVEL SMART PHONES MANUFACTURERS

Asia-Pacific Silicon on Insulator Market - Industry Trends Forecast to 2026

3.4 CHALLENGES

3.4.1 SELF-HEATING PROBLEM OF SOI

3.4.2 FABRICATION AND MEASUREMENT OF THIN AND UNIFORM LAYERS

## **4 EXECUTIVE SUMMARY**

## **5 PREMIUM INSIGHTS**

## **6 INDUSTRY INSIGHTS**

## **7 ASIA-PACIFIC SILICON ON INSULATOR MARKET, BY WAFER TYPE**

7.1 OVERVIEW

7.2 RF SOI

7.3 PARTIALLY DEPLETED SILICON ON INSULATOR (PD-SOI)

7.4 FULLY DEPLETED SILICON ON INSULATOR (FD-SOI)

7.5 POWER SOI

7.6 EMERGING SOI

7.6.1 PHOTONICS-SOI

7.6.2 IMAGER-SOI

## **8 ASIA-PACIFIC SILICON ON INSULATOR MARKET, BY WAFER SIZE**

8.1 OVERVIEW

8.2 300MM

8.3

## List Of Tables

### LIST OF TABLES

TABLE 1 IMPORT DATA OF CHEMICAL ELEMENTS AND COMPOUNDS DOPED FOR USE IN ELECTRONICS, IN THE FORM OF DISCS, WAFERS, CYLINDERS, RODS OR SIMILAR FORMS, OR CUT INTO DISCS, WAFERS OR SIMILAR FORMS, WHETHER OR NOT POLISHED OR WITH A UNIFORM EPITAXIAL COATING (EXCLUDING ELEMENTS THAT HAVE BEEN FURTHER PROCESSED, E.G. BY SELECTIVE DIFFUSION); HS CODE 3818 (USD MILLION)

TABLE 2 EXPORT DATA OF CHEMICAL ELEMENTS AND COMPOUNDS DOPED FOR USE IN ELECTRONICS, IN THE FORM OF DISCS, WAFERS, CYLINDERS, RODS OR SIMILAR FORMS, OR CUT INTO DISCS, WAFERS OR SIMILAR FORMS, WHETHER OR NOT POLISHED OR WITH A UNIFORM EPITAXIAL COATING (EXCLUDING ELEMENTS THAT HAVE BEEN FURTHER PROCESSED, E.G. BY SELECTIVE DIFFUSION); HS CODE 3818 (USD MILLION)

TABLE 3 AVERAGE SILICONE PRICES IN U.S. FROM 2013 TO 2017 ARE:

TABLE 4 SOME OF THE MAJOR ASIA-PACIFIC PRODUCERS OF SILICONE ARE:

TABLE 5 LIST OF THE COMPANY'S MANUFACTURING COST EFFICIENT SMARTPHONES AROUND THE WORLD:

TABLE 6 ASIA-PACIFIC SILICON ON INSULATOR MARKET, BY WAFER TYPE, 2017-2026 (THOUSAND UNITS)

TABLE 7 ASIA-PACIFIC SILICON ON INSULATOR MARKET, BY WAFER TYPE, 2017-2026 (USD MILLION)

TABLE 8 ASIA-PACIFIC RF SOI IN SILICON TEXTILE CHEMICALS MARKET, BY REGION, 2017-2026 (THOUSAND UNITS)

TABLE 9 ASIA-PACIFIC RF SOI IN SILICON TEXTILE CHEMICALS MARKET, BY REGION, 2017-2026 (USD MILLION)

TABLE 10 ASIA-PACIFIC PARTIALLY DEPLETED SILICON ON INSULATOR (PD-SOI) IN SILICON ON INSULATOR MARKET, BY REGION, 2017-2026 (THOUSAND UNITS)

TABLE 11 ASIA-PACIFIC PARTIALLY DEPLETED SILICON ON INSULATOR (PD-SOI) IN SILICON ON INSULATOR MARKET, BY REGION, 2017-2026 (USD MILLION)

TABLE 12 ASIA-PACIFIC FULLY DEPLETED SILICON ON INSULATOR (FD-SOI) IN SILICON ON INSULATOR MARKET, BY REGION, 2017-2026 (THOUSAND UNITS)

TABLE 13 ASIA-PACIFIC FULLY DEPLETED SILICON ON INSULATOR (FD-SOI) IN SILICON ON INSULATOR MARKET, BY REGION, 2017-2026 (USD MILLION)

TABLE 14 ASIA-PACIFIC POWER SOI IN SILICON ON INSULATOR MARKET, BY REGION, 2017-2026 (THOUSAND UNITS)

TABLE 15 ASIA-PACIFIC POWER SOI IN SILICON ON INSULATOR MARKET, BY REGION, 2017-2026 (USD MILLION)

TABLE 16 ASIA-PACIFIC EMERGING SOI IN SILICON ON INSULATOR MARKET, BY REGION, 2017-2026 (THOUSAND UNITS)

TABLE 17 ASIA-PACIFIC EMERGING SOI IN SILICON ON INSULATOR MARKET, BY REGION, 2017-2026 (USD MILLION)

Asia-Pacific Silicon on Insulator Market - Industry Trends Forecast to 2026

TABLE 18 ASIA-PACIFIC EMERGING SOI IN SILICON ON INSULATOR MARKET, BY WAFER TYPE, 2017-2026 (THOUSAND UNITS)

TABLE 19 ASIA-PACIFIC EMERGING SOI IN SILICON ON INSULATOR MARKET, BY WAFER TYPE, 2017-2026 (USD MILLION)

TABLE 20 ASIA-PACIFIC SILICON ON INSULATOR MARKET, BY WAFER SIZE, 2017-2026 (USD MILLION)

TABLE 21 ASIA-PACIFIC 300MM WAFER SIZE IN SILICON ON INSULATOR MARKET, BY REGION, 2017-2026 (USD MILLION)

TABLE 22 ASIA-PACIFIC

## List Of Figures

### LIST OF FIGURES

FIGURE 1 ASIA-PACIFIC SILICON ON INSULATOR MARKET: SEGMENTATION

FIGURE 2 ASIA-PACIFIC SILICON ON INSULATOR MARKET: DATA

TRIANGULATION

FIGURE 3 ASIA-PACIFIC SILICON ON INSULATOR MARKET: RESEARCH  
SNAPSHOT

FIGURE 4 ASIA-PACIFIC SILICON ON INSULATOR MARKET: TOP DOWN  
APPROACH

FIGURE 5 ASIA-PACIFIC SILICON ON INSULATOR MARKET: BOTTOM UP  
APPROACH

FIGURE 6 ASIA-PACIFIC SILICON ON INSULATOR MARKET: THE TECHNOLOGY  
LIFE LINE CURVE

FIGURE 7 MULTIVARIATE MODELLING FOR ASIA-PACIFIC SILICON ON  
INSULATOR MARKET

FIGURE 8 ASIA-PACIFIC SILICON ON INSULATOR MARKET: INTERVIEW  
DEMOGRAPHICS

FIGURE 9 ASIA-PACIFIC SILICON ON INSULATOR MARKET: DBMR MARKET  
POSITION GRID

FIGURE 10 ASIA-PACIFIC SILICON ON INSULATOR MARKET: MARKET  
APPLICATION COVERAGE GRID

FIGURE 11 ASIA-PACIFIC SILICON ON INSULATOR MARKET: THE MARKET  
CHALLENGE MATRIX

FIGURE 12 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES OF  
ASIA-PACIFIC SILICON ON INSULATOR MARKET

FIGURE 13 ASIA-PACIFIC SILICON ON INSULATOR MARKET: SEGMENTATION

FIGURE 14 ASIA-PACIFIC IS EXPECTED TO DOMINATE THE MARKET FOR ASIA-  
PACIFIC SILICON ON INSULATOR MARKET AND IS EXPECTED TO BE GROW  
WITH THE HIGHEST CAGR IN THE FORECAST PERIOD FROM 2019 TO 2026

FIGURE 15 INCREASING DEMAND OF FAULT-TOLERANT SOI  
MICROPROCESSOR IN SPACE APPLICATIONS IS EXPECTED TO GROW THE  
SILICON ON INSULATOR MARKET IN THE FORECAST PERIOD 2019 TO 2026

FIGURE 16 RF-SOI SEGMENT IS EXPECTED TO ACCOUNT FOR THE LARGEST  
SHARE OF THE ASIA-PACIFIC SILICON ON INSULATOR MARKET IN 2019 & 2026

FIGURE 17 ASIA PACIFIC IS THE FASTEST GROWING MARKET FOR SILICON ON  
INSULATOR MANUFACTURERS IN THE FORECAST PERIOD 2019 TO 2026

FIGURE 18 ASIA-PACIFIC SILICON ON INSULATOR MARKET: BY WAFER TYPE,

2018

FIGURE 19 ASIA-PACIFIC SILICON ON INSULATOR MARKET: BY WAFER SIZE,  
2018

FIGURE 20 ASIA-PACIFIC SILICON ON INSULATOR MARKET: BY PRODUCT, 2018

FIGURE 21 ASIA-PACIFIC SILICON ON INSULATOR MARKET: BY TECHNOLOGY,  
2018

FIGURE 22 ASIA-PACIFIC SILICON ON INSULATOR MARKET: BY APPLICATION,  
2018

FIGURE 23 ASIA-PACIFIC SILICON ON INSULATOR MARKET: SNAPSHOT (2018)

FIGURE 24 ASIA-PACIFIC SILICON ON INSULATOR MARKET: BY COUNTRY (2018)

FIGURE 25 ASIA-PACIFIC SILICON ON INSULATOR MARKET: BY COUNTRY (2019  
& 2026)

18

Asia-Pacific Silicon on Insulator Market - Industry Trends Forecast to 2026

FIGURE 26 ASIA-PACIFIC SILICON ON INSULATOR MARKET: BY COUNTRY (2018  
& 2026)

FIGURE 27 ASIA-PACIFIC SILICON ON INSULATOR MARKET: BY WAFER TYPE  
(2019 - 2026)

FIGURE 28 ASIA-PACIFIC COLORANT MARKET: COMPANY SHARE 2018 (%)

## I would like to order

Product name: Asia-Pacific Silicon on Insulator Market-Companies Profiles, Size, Share, Growth, Trends and Forecast to 2026

Product link: <https://marketpublishers.com/r/AC907C2C3CBEN.html>

Price: US\$ 2,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AC907C2C3CBEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970



