

# Global SOI High-temperature Pressure Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global SOI High-temperature Pressure Sensor market size was valued at US\$ 165 million in 2025 and is forecast to a readjusted size of US\$ 290 million by 2032 with a CAGR of 8.4% during review period.

In 2025, global SOI High-temperature Pressure Sensor production reached approximately 350 k units with an average global market price of around US\$456 per unit. Single-line annual production capacity averages 30 k units with a gross margin of approximately 31.64-34.6%. The upstream components of SOI High-temperature Pressure Sensors primarily include silicon wafers and insulating materials, which are concentrated in the semiconductor field; the downstream applications are extensive, with aerospace accounting for 20%, automotive 30%, petrochemical 15%, medical 10%, food 5%, and others 20%; the demand for SOI High-temperature Pressure Sensors is increasing along with the growing needs for high-temperature environment applications, indicating a substantial market potential, with business opportunities primarily lying in high-end manufacturing and special application fields.

Silicon-on-Insulator (SOI) high-temperature pressure sensors represent a cutting-edge technology that integrates a silicon substrate with an insulating layer, which isolates the sensing element from the external environment. This unique structure enhances the sensor's ability to withstand extreme temperatures while maintaining its accuracy and reliability. By incorporating SOI technology, these sensors achieve a superior level of noise immunity and reduced crosstalk, which are crucial for accurate pressure measurements in high-temperature environments. The sensors' ability to operate efficiently at elevated temperatures, combined with their robustness and precision, makes them ideal for applications where temperature stability and pressure detection

are critical, such as in industrial processes and automotive systems.

This report is a detailed and comprehensive analysis for global SOI High-temperature Pressure Sensor 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 2025, are provided.

### **Key Features:**

Global SOI High-temperature Pressure Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SOI High-temperature Pressure Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SOI High-temperature Pressure Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global SOI High-temperature Pressure Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **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 High-temperature Pressure Sensor
- 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 High-temperature Pressure Sensor 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 Kulite, Goodrich, Gefran, Kistler, AMETEK, Endevco (Amphenol), Sensata Technologies, Hydra-Electric, Auxitrol

Weston, etc.

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

## **Market Segmentation**

SOI High-temperature Pressure Sensor market is split by Type and by Application. For the period 2021-2032, 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

?±1% FS

?±1% FS

### Market segment by Sensor Operating Temperatures

?300°C

?300°C

### Market segment by Application

Aerospace

Automotive

Petrochemicals

Medical

Food & Beverage

Others

Major players covered

Kulite

Goodrich

Gefran

Kistler

AMETEK

Endevco (Amphenol)

Sensata Technologies

Hydra-Electric

Auxitrol Weston

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:**

Chapter 1, to describe SOI High-temperature Pressure Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SOI High-temperature Pressure Sensor, with price, sales quantity, revenue, and global market share of SOI High-temperature

Pressure Sensor from 2021 to 2026.

Chapter 3, the SOI High-temperature Pressure Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SOI High-temperature Pressure Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and SOI High-temperature Pressure Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 High-temperature Pressure Sensor.

Chapter 14 and 15, to describe SOI High-temperature Pressure Sensor sales channel, distributors, customers, research findings and conclusion.

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