

Global SOI High-temperature Pressure Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global SOI High-temperature Pressure Sensor market size is expected to reach \$ 290 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

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 studies the global SOI High-temperature Pressure Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SOI High-temperature Pressure Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SOI High-temperature Pressure Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SOI High-temperature Pressure Sensor total production and demand, 2021-2032, (K Units)

Global SOI High-temperature Pressure Sensor total production value, 2021-2032, (USD Million)

Global SOI High-temperature Pressure Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global SOI High-temperature Pressure Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: SOI High-temperature Pressure Sensor domestic production, consumption, key domestic manufacturers and share

Global SOI High-temperature Pressure Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global SOI High-temperature Pressure Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global SOI High-temperature Pressure Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global SOI High-temperature Pressure Sensor market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SOI High-temperature Pressure Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SOI High-temperature Pressure Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SOI High-temperature Pressure Sensor Market, Segmentation by Type:

?±1% FS

?±1% FS

Global SOI High-temperature Pressure Sensor Market, Segmentation by Sensor Operating Temperatures:

?300°C

?300°C

Global SOI High-temperature Pressure Sensor Market, Segmentation by Application:

Aerospace

Automotive

Petrochemicals

Medical

Food & Beverage

Others

Companies Profiled:

Kulite

Goodrich

Gefran

Kistler

AMETEK

Endevco (Amphenol)

Sensata Technologies

Hydra-Electric

Auxitrol Weston

Key Questions Answered:

1. How big is the global SOI High-temperature Pressure Sensor market?
2. What is the demand of the global SOI High-temperature Pressure Sensor market?
3. What is the year over year growth of the global SOI High-temperature Pressure Sensor market?
4. What is the production and production value of the global SOI High-temperature Pressure Sensor market?
5. Who are the key producers in the global SOI High-temperature Pressure Sensor market?
6. What are the growth factors driving the market demand?

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