

Global Solid Chemical Sensors Market Growth 2026-2032

<https://marketpublishers.com/r/GEA199F3FA15EN.html>

Date: July 2026

Pages: 181

Price: US\$ 3,660.00 (Single User License)

ID: GEA199F3FA15EN

Abstracts

The global Solid Chemical Sensors market size is predicted to grow from US\$ 2495 million in 2025 to US\$ 4406 million in 2032; it is expected to grow at a CAGR of 8.5% from 2026 to 2032.

In practical industry usage, solid chemical sensors are often discussed together with gas sensors. At their core, they use solid or microstructured sensing elements such as metal oxide semiconductors, solid electrolytes, MEMS sensing layers, and printed chemical sensing layers to convert changes in the concentration of target gases or volatile chemicals into readable electrical signals, and are then embedded into alarms, fixed detectors, portable instruments, air-quality modules, automotive emission systems, medical equipment, and industrial analytical devices. Official product pages show that this category has evolved from standalone sensing elements into parallel offerings of sensors, pre-calibrated units, digital modules, complete instruments, and OEM solutions. The technology routes span semiconductor, electrochemical, catalytic combustion, infrared, zirconia, and multi-parameter integrated platforms, while detectable targets include combustible gases, oxygen, toxic gases, VOCs, refrigerants, semiconductor process gases, and exhaust-related components. The problems these products address include leak warning, personnel safety, indoor and outdoor air-quality monitoring, engine air-fuel ratio and emissions control, medical respiratory gas monitoring, early warning of battery thermal runaway, and process-gas analysis. Major customers include industrial safety equipment manufacturers, building and HVAC suppliers, automotive component makers, environmental and medical device companies, and OEM integrators requiring customized sensing solutions. Common business models include sales of standard parts, modular supply, custom development, and calibration plus software-algorithm support. High-reliability industrial and automotive applications place greater emphasis on certification, service life, consistency, and global

delivery, while consumer electronics and air-quality applications focus more on miniaturization, low power consumption, algorithm integration, and scalable cost control.

The solid chemical sensor industry is moving beyond a market defined by standalone sensing elements and is evolving into a broader track in which sensing devices, algorithms, modules, and application-oriented solutions compete together. In the past, the main selling point was whether a specific gas could be detected at all. Today, official product portfolios clearly show that the focus has shifted toward whether the product can deliver stable and accurate detection in smaller packages, at lower power consumption, and with longer operating life, while being directly embeddable into customer equipment. Companies such as Figaro, Nissha, Bosch Sensortec, and SPEC Sensors are pushing semiconductor-type, MEMS 4-in-1, printed-electronics, and modular products into home appliances, wearables, air-quality platforms, and OEM embedded terminals, indicating that value creation is moving from the sensing core itself toward system-level usability. At the same time, Honeywell, Emerson, MSA, and SENKO continue to strengthen portfolios spanning fixed, portable, and industrial-grade products, showing that success in the high-end market depends not only on sensitivity, but also on calibration, interference resistance, certification, long-term stability, and multi-scenario adaptability. This trend matters because it raises the overall barrier to entry and gives companies that can cover components, modules, and end-equipment interfaces a better chance of securing recurring orders. From a commercial perspective, official websites commonly offer sensors, pre-calibrated units, development kits, and complete equipment support, which suggests that future profit pools will extend beyond hardware alone and increasingly include application tuning, data interpretation, software compensation, and industry-specific customization.

On the demand side, solid chemical sensors are being pushed far beyond their traditional role as industrial safety components into broader environmental, automotive, medical, and new-energy applications. Official product information makes this expansion very clear. New Cosmos and SENKO highlight semiconductor manufacturing gases, combustible gases, and toxic gases as key use cases, showing that high-risk manufacturing remains the foundation of demand. Bosch Sensortec, Cubic, Winsen, and SPEC Sensors are extending VOC, CO₂, particulate matter, formaldehyde, and all-in-one air-quality solutions into smart homes, buildings, fresh-air systems, and portable devices, indicating that air-quality digitalization is becoming a large-volume market. DENSO, Niterra, and Cubic are also extending oxygen sensing, NO_x monitoring, cabin air-quality sensing, and refrigerant leak detection into the automotive electronics chain, showing that emissions control and occupant health form another stable demand line. Nissha, Figaro, and Cubic have further entered hydrogen, next-generation refrigerants,

and early warning for lithium-battery thermal runaway, reflecting that industry growth points are shifting from traditional combustible gas alarms toward carbon neutrality, energy transition, and proactive safety management. On the policy side, the EU Battery Regulation incorporates thermal propagation and thermal runaway safety, Euro 7 continues to reinforce emissions-related requirements, and OSHA emphasizes the use of direct-reading gas monitoring instruments in hazardous environments. These external constraints will continue to move sensors from optional configurations toward mandatory ones. At the same time, ASHRAE standards on residential and commercial indoor air quality and the control of infectious aerosols continue to support investment in air-quality and air-cleaning systems, indirectly expanding the deployment value of multi-parameter environmental sensors.

From a competitive standpoint, the industry has developed into a multipolar structure centered on Japan, Europe and the United States, mainland China, and South Korea. Japanese companies have strong accumulation in semiconductor-type sensing, zirconia-based sensing, automotive emissions, and high-reliability alarm sensing, with products emphasizing lifetime, accuracy, and application depth. European and U.S. companies are stronger in industrial safety, fixed monitoring, process analysis, certification systems, and global distribution, making them well suited to high-barrier, compliance-intensive, and large-project markets. Mainland Chinese companies, by contrast, are expanding rapidly in air-quality sensing, residential alarms, industrial safety, and modular solutions through broad product lines, wide scenario coverage, and cost efficiency, while also extending into selected automotive and medical segments. South Korean suppliers hold meaningful experience in semiconductor specialty gases and industrial gas detection. Overall, supply is shifting from selling single sensors to selling combined capabilities and closed-loop application solutions. As a result, the most successful companies are unlikely to be only those with the strongest single-point specifications, but rather those that can coordinate core materials, packaging, calibration, algorithms, modules, and customer applications. Production is likely to remain concentrated in East Asia and industrially advanced regions in Europe and the United States, while demand will primarily flow into North American and European industrial safety and building markets, as well as East Asian automotive, semiconductor, and manufacturing customers. As long as emissions control, air-quality management, new-energy safety, and industrial digitalization continue to advance, the medium- to long-term outlook for the industry remains positive. In particular, as customers increasingly seek shorter development cycles and one-stop validation, vendors with global certification experience and localized delivery capabilities are more likely to win repeated adoption from platform customers, which should steadily raise industry concentration while still leaving room for niche innovators to be acquired or to enter high-

growth subsegments.

LP Information, Inc. (LPI) ' newest research report, the "Solid Chemical Sensors Industry Forecast" looks at past sales and reviews total world Solid Chemical Sensors sales in 2025, providing a comprehensive analysis by region and market sector of projected Solid Chemical Sensors sales for 2026 through 2032. With Solid Chemical Sensors sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Solid Chemical Sensors industry.

This Insight Report provides a comprehensive analysis of the global Solid Chemical Sensors landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Solid Chemical Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Solid Chemical Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solid Chemical Sensors and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Solid Chemical Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Solid Chemical Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ion-Selective Electrodes (ISE)

Ion-Selective Field-Effect Transistors (ISFET)

Miniature Silicon-Based Sensors

Others

Segmentation by Sensing Principle:

Metal Oxide Semiconductor

Electrochemical

Catalytic Combustion

Infrared / Optical

Solid Electrolyte / Zirconia

Printed / Other Microstructured

Segmentation by Delivery Form:

Sensor Element / Packaged Component

Pre-Calibrated Unit

Sensor Module

Fixed Detector Head / Transmitter

Portable Detector

Analyzer / System

Segmentation by Application:

Industrial Safety Monitoring

Building Environmental & HVAC

Automotive & Transportation

Medical & Healthcare

Semiconductor & Industrial Process

Home & Consumer Electronics

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Amphenol Corporation

Alphasense Ltd

Membrapor AG

EC Sense GmbH

Interlink Electronics, Inc.

Honeywell

Emerson Electric

PHINIA Inc.

Delphian Corporation

Teledyne Technologies Incorporated

Fortive Corporation

Baker Hughes Company

MSA Safety Incorporated

Robert Bosch GmbH

ZIROX GmbH

DENSO CORPORATION

Niterra Co., Ltd.

Figaro Engineering Inc.

New Cosmos Electric Co., Ltd.

Nissha Co., Ltd.

Nemoto & Co., Ltd.

Renesas Electronics Corporation

SENKO Co., Ltd.

Hanwei Electronics Group Corporation

Zhengzhou Winsen Electronics Technology Co., Ltd.

Cubic Sensor and Instrument Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Solid Chemical Sensors market?

What factors are driving Solid Chemical Sensors market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Solid Chemical Sensors market opportunities vary by end market size?

How does Solid Chemical Sensors break out by Type, by Application?

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