

Global Oxide-based Solid Electrolyte Market Growth 2025-2031

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Abstracts

The global Oxide-based Solid Electrolyte market size is predicted to grow from US\$ 216 million in 2025 to US\$ 295 million in 2031; it is expected to grow at a CAGR of 5.3% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Oxide-based solid electrolyte refers to a class of inorganic solid materials composed primarily of metal oxides (such as lithium, sodium, zirconium, or lanthanum oxides) that conduct ionic charge carriers—typically lithium or sodium ions—while suppressing electronic conductivity, enabling their use in solid-state batteries (SSBs) and other electrochemical devices. These electrolytes exhibit high thermal stability, chemical inertness, and mechanical rigidity, addressing safety concerns like flammability and leakage associated with liquid electrolytes in conventional batteries. Structurally, they often adopt crystalline or glass-ceramic frameworks with lattice defects or open channels that facilitate ion migration; examples include perovskite-type (e.g., LiLaZrTaO), garnet-type (e.g., $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$, LLZO), and NASICON-type (e.g., $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$, LATP) oxides. Oxide-based solid electrolytes can be synthesized via high-temperature solid-state reactions, sol-gel processes, or thin-film deposition, and their performance is influenced by factors like grain boundary resistance, density, and interfacial compatibility with electrodes. While challenges such as brittle mechanical properties and electrode/electrolyte interfacial resistance persist, ongoing research focuses on nanostructuring, dopant engineering, and composite designs (e.g., hybridizing with polymers or sulfides) to enhance ion conductivity (targeting $>10^{-2}$ S/cm) and practical scalability for next-generation energy storage

systems.

United States market for Oxide-based Solid Electrolyte is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Oxide-based Solid Electrolyte is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Oxide-based Solid Electrolyte is estimated to increase from US\$ million in 2024 to US\$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Oxide-based Solid Electrolyte players cover NEI Corporation, OHARA, Ganfeng Lithium, Canon Optron, Inc., TOHO TITANIUM CO., LTD., etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the "Oxide-based Solid Electrolyte Industry Forecast" looks at past sales and reviews total world Oxide-based Solid Electrolyte sales in 2024, providing a comprehensive analysis by region and market sector of projected Oxide-based Solid Electrolyte sales for 2025 through 2031. With Oxide-based Solid Electrolyte sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Oxide-based Solid Electrolyte industry.

This Insight Report provides a comprehensive analysis of the global Oxide-based Solid Electrolyte 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 Oxide-based Solid Electrolyte portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Oxide-based Solid Electrolyte market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Oxide-based Solid Electrolyte 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 Oxide-based Solid Electrolyte.

This report presents a comprehensive overview, market shares, and growth opportunities of Oxide-based Solid Electrolyte market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Perovskite-Type Oxides

Garnet-Type Oxides

NASICON-Type Oxides

Others

Segmentation by Application:

Solid-State Batteries (SSBs)

Solid Oxide Fuel Cells (SOFCs)

Electrochemical Sensors

Membrane Separation Systems

Others

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.

NEI Corporation

OHARA

Ganfeng Lithium

Canon Optron, Inc.

TOHO TITANIUM CO., LTD.

TAIYO YUDEN

TDK

FDK

NGK Insulators

Nippon Electric Glass

Shanghai Kysonergy

Shenzhen Xinyuanbang

BTR

DOWA

Ampcera

XTC New Energy Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Oxide-based Solid Electrolyte market?

What factors are driving Oxide-based Solid Electrolyte market growth, globally and by region?

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

How do Oxide-based Solid Electrolyte market opportunities vary by end market size?

How does Oxide-based Solid Electrolyte break out by Type, by Application?

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