

Global Oxide-based Solid Electrolyte 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 Oxide-based Solid Electrolyte market size was valued at US\$ 227 million in 2025 and is forecast to a readjusted size of US\$ 318 million by 2032 with a CAGR of 5.0% during review period.

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.

This report is a detailed and comprehensive analysis for global Oxide-based Solid

Electrolyte 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 Oxide-based Solid Electrolyte market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Oxide-based Solid Electrolyte market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Oxide-based Solid Electrolyte market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Oxide-based Solid Electrolyte market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Oxide-based Solid Electrolyte

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 Oxide-based Solid Electrolyte 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 NEI Corporation, OHARA, Ganfeng Lithium, Canon Optron, Inc., TOHO TITANIUM CO., LTD., TAIYO YUDEN, TDK, FDK,

NGK Insulators, Nippon Electric Glass, etc.

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

Market Segmentation

Oxide-based Solid Electrolyte 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

Perovskite-Type Oxides

Garnet-Type Oxides

NASICON-Type Oxides

Others

Market segment by Application

Solid-State Batteries (SSBs)

Solid Oxide Fuel Cells (SOFCs)

Electrochemical Sensors

Membrane Separation Systems

Others

Major players covered

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

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 Oxide-based Solid Electrolyte product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Oxide-based Solid Electrolyte, with price, sales quantity, revenue, and global market share of Oxide-based Solid Electrolyte from 2021 to 2026.

Chapter 3, the Oxide-based Solid Electrolyte competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Oxide-based Solid Electrolyte 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 Oxide-based Solid Electrolyte 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 Oxide-based Solid Electrolyte.

Chapter 14 and 15, to describe Oxide-based Solid Electrolyte sales channel, distributors, customers, research findings and conclusion.

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