

Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) 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 Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) market size was valued at US\$ 36.05 million in 2025 and is forecast to a readjusted size of US\$ 63.41 million by 2032 with a CAGR of 8.5% during review period.

In 2024, global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) production reached approximately 766 tons with an average global market price of around US\$ 42,900 per ton. In 2024, the global 's total production capacity of Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) reached 1,100 tons. The industry average gross profit margin of this product reached 26%.

Sodium Difluoro(oxalato)borate (NaODFB) is a new electrolyte additive in lithium-ion battery electrolyte. Its chemical name is Sodium Difluoro(oxalato)borate, and its chemical formula is NaDFOB or $\text{NaBF}_2\text{C}_2\text{O}_4$. The upstream sector primarily involves the production of basic raw materials and fine chemicals. This includes basic chemical raw materials such as boric acid, oxalic acid, and hydrofluoric acid, as well as materials providing core elements like lithium fluoride and metallic sodium. Through complex synthesis, purification, and crystallization processes, high-purity battery-grade sodium difluorooxalate borate is produced. This sector has high technological barriers, with the core challenge being achieving low-cost, high-quality, and highly consistent large-scale production. Currently, it is dominated by a few chemical material companies that possess the core technologies. The midstream sector is the electrolyte formulation and manufacturing stage. Electrolyte manufacturers take the sodium difluorooxalate borate provided by upstream suppliers and, based on the specific performance requirements of downstream battery customers, blend it with other electrolyte salts (such as NaPF_6 ,

LiPF₆), organic solvents (carbonates, etc.) and functional additives in specific proportions to produce the final electrolyte product. In this stage, sodium difluoro(oxalato)borate serves both as a key main salt and as a core additive to improve the overall battery performance; its formulation technology directly determines the final performance of the electrolyte. The downstream sector is the end-user application market, mainly consisting of various battery manufacturers. Ultimately, electrolytes containing sodium difluoro(oxalato)borate are used in the manufacture of sodium-ion batteries, high-end lithium-ion batteries, and even aqueous zinc-ion batteries. These batteries are eventually widely used in new energy vehicles, energy storage power stations, communication base stations, and consumer electronics. Downstream market demand, especially the rise and boom of the sodium-ion battery industry, is the core driving force directly propelling the development of the entire sodium difluoro(oxalato)borate industry chain.

The explosive growth of the downstream sodium-ion battery industry is the core driving force. As the requirements for cost and resource security in the new energy vehicle and energy storage markets continue to increase, sodium-ion batteries, as an important supplement and alternative to lithium-ion batteries, are ushering in their first year of industrialization. Sodium difluoro(oxalato)borate, as a key electrolyte material that can significantly improve the cycle life and high-voltage performance of sodium batteries, will directly benefit from the expansion of sodium battery production capacity.

Continuous policy support and macro-strategic needs provide stable guarantees. The global goal of 'carbon neutrality' has driven the vigorous development of the electrochemical energy storage industry. Sodium-ion batteries and their key materials, due to their important strategic significance in overcoming lithium resource constraints and ensuring supply chain security, have been included in the medium- and long-term science and technology development and industrial support plans of many countries and regions, including China, the United States, and the European Union. This top-level policy guidance has injected continuous confidence and momentum into the technological research and development and capacity building of the entire industry chain.

Its irreplaceable technological advantages are the fundamental driving force. Sodium difluoro(oxalato)borate's unique synergistic film-forming ability can simultaneously form a stable interfacial protective layer on both the positive and negative electrodes. This technological advantage has been repeatedly verified in the laboratory and in the early stages of industrialization. It can effectively solve key technical bottlenecks such as short cycle life and instability under high voltage in sodium batteries. At the same time,

as an efficiency-enhancing additive for lithium-ion batteries, it can broaden the battery's operating temperature range (especially low-temperature performance), meeting the needs of special fields and high-end products, thus opening up diversified application markets for it.

This report is a detailed and comprehensive analysis for global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) 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 Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) 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 Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) 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 Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB)

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 Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) 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 Guotai Superwei, Shanghai Rolechem Co.,Ltd., Jiangsu Hsc New Energy Materials Co.,Ltd., Shandong Hemiao New Materials Co., Ltd., Tokyo Chemical Industry, Beyond Battery, Zhengzhou Alfa Chemical Co.,Ltd, Boron Molecular, Hubei Maidehao Biotechnology Co., Ltd., Wuhan Kamik Technology Co., Ltd., etc.

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

Market Segmentation

Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) 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

Purity: 98%

Purity: 99%

Others

Market segment by Synthesis Process

One-step Synthesis

Multi-step Synthesis

Market segment by Function

Main Salt

Core Additive

Market segment by Product Form

Solid Powder

Electrolyte Solution

Market segment by Application

Sodium Ion Battery

Lithium Ion Battery

Major players covered

Guotai Superwei

Shanghai Rolechem Co.,Ltd.

Jiangsu Hsc New Energy Materials Co.,Ltd.

Shandong Hemiao New Materials Co., Ltd.

Tokyo Chemical Industry

Beyond Battery

Zhengzhou Alfa Chemical Co.,Ltd

Boron Molecular

Hubei Maidehao Biotechnology Co., Ltd.

Wuhan Kamik Technology Co., Ltd.

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 Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB), with price, sales quantity, revenue, and global market share of Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) from 2021 to 2026.

Chapter 3, the Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) 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 Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) 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 Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB).

Chapter 14 and 15, to describe Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) sales channel, distributors, customers, research findings and conclusion.

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