

# Global Spinel Cathode Materials Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Spinel Cathode Materials market size was valued at US\$ 1594 million in 2024 and is forecast to a readjusted size of USD 2751 million by 2031 with a CAGR of 8.0% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The most commercially important spinel cathode is Lithium Manganese Oxide ( $\text{LiMn}_2\text{O}_4$ ), known for its three-dimensional lithium-ion diffusion channels, thermal stability, and relatively low cost. Other spinel-type cathodes include doped variants such as  $\text{LiNi}_{0.8}\text{Mn}_{0.2}\text{O}_4$  (LNMO), which offer higher voltage operation ( $\sim 4.7\text{V}$  vs  $\text{Li/Li}^+$ ) and better power density. Spinel cathodes are widely used in electric vehicles (EVs), power tools, and grid energy storage systems, especially where high-rate capability, safety, and moderate energy density are prioritized. Their disadvantages include moderate cycle life and capacity fading due to manganese dissolution in electrolyte. These materials are actively being optimized through doping, surface coatings, and particle morphology control.

Spinel cathode materials, primarily  $\text{LiMn}_2\text{O}_4$  (LMO) and  $\text{LiNi}_{0.8}\text{Mn}_{0.2}\text{O}_4$  (LNMO), are characterized by a cubic spinel crystal structure offering high thermal stability and fast lithium-ion diffusion. LMO typically operates at  $\sim 4.0\text{V}$  vs.  $\text{Li/Li}^+$  with a practical capacity of  $100\text{--}120\text{mAh/g}$  and tap density of  $2.2\text{--}2.6\text{g/cm}^3$ , while LNMO operates at a higher voltage of  $\sim 4.7\text{V}$  with  $125\text{--}135\text{mAh/g}$  capacity and  $2.3\text{--}2.8\text{g/cm}^3$  tap density. Particle sizes range from  $1\text{--}10\mu\text{m}$ , with surface area (BET) between  $0.5\text{--}3.0\text{m}^2/\text{g}$ .

These materials are black to gray powders with moisture content typically under 0.1%, and impurity levels (e.g., Fe, Cu) controlled below 200 ppm. Doped variants further enhance cycling stability and conductivity, making them ideal for EVs, power tools, and grid storage applications.

This report is a detailed and comprehensive analysis for global Spinel Cathode Materials 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 Spinel Cathode Materials market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Spinel Cathode Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Spinel Cathode Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2020-2031

Global Spinel Cathode Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2020-2025

### **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 Spinel Cathode Materials

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 Spinel Cathode Materials 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, Nexceris, Targray, Topsoe, Umicore, Calix, Tanaka Chemical, Nichia, Tosoh, BTR New Material, etc.

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

## **Market Segmentation**

Spinel Cathode Materials market is split by Type and by Application. For the period 2020-2031, 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

Lithium Manganese Oxide

Doped Spinel Variants

Hybrid Spinel Cathodes

### Market segment by Application

Electric Vehicles

Energy Storage Systems

Consumer Electronics

Industrial Equipment

Others

### Major players covered

NEI Corporation

Nexceris

Targray

Topsoe

Umicore

Calix

Tanaka Chemical

Nichia

Tosoh

BTR New Material

Shenzhen Dynanonic

Guoxuan Hi-Tech

Hunan Yuneng

Lopal Tech

Anda Energy

Wanrun New Energy

Terui Battery Materials

Gelon LIB Group

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 Spinel Cathode Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Spinel Cathode Materials, with price, sales quantity, revenue, and global market share of Spinel Cathode Materials from 2020 to 2025.

Chapter 3, the Spinel Cathode Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Spinel Cathode Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Spinel Cathode Materials market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Spinel Cathode Materials.

Chapter 14 and 15, to describe Spinel Cathode Materials sales channel, distributors, customers, research findings and conclusion.

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