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# Global Lithium-ion Battery Ceramic Sagger 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 Lithium-ion Battery Ceramic Sagger market size was valued at US$ 237 million in 2025 and is forecast to a readjusted size of US$ 421 million by 2032 with a CAGR of 8.8% during review period.

Lithium-ion Battery Ceramic Sagger refers to a reusable refractory ceramic container used to hold, protect and transport lithium-ion battery cathode powders during high-temperature calcination and solid-state synthesis. Products are generally manufactured as square or rectangular boxes for continuous roller hearth kilns and are required to withstand repeated heating and cooling, chemical attack from lithium salts and transition-metal compounds, mechanical handling and prolonged contact with active powder. The principal material systems include Mullite/Mullite-Cordierite, Corundum/Corundum-Mullite, Quartz, Silicon Carbide and other ceramic formulations containing alumina, magnesia, spinel or zirconia-based functional phases. The products are primarily applied in the manufacture of LFP, NCM/NCA, LMO and LCO cathode materials, with material composition, wall thickness, loading capacity, thermal conductivity, dimensional accuracy, corrosion resistance, contamination control and cycle life serving as key technical parameters. This research focuses on ceramic saggers supplied for lithium-ion battery material calcination and evaluates the market by ceramic material system, cathode chemistry, product performance and regional supply structure.

## Key Findings

Global Lithium-ion Battery Ceramic Sagger output reached 48.92 million units in 2025

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The global weighted average selling price reached US$4.7 per unit in 2025

Industry gross margins generally ranged from 25% to 35% in 2025

Mullite-based products remain the mainstream segment while Silicon Carbide Saggers target premium applications

China is the largest production and consumption region for battery ceramic saggers

## Market Trends

The Lithium-ion Battery Ceramic Sagger market is moving from conventional refractory boxes toward thinner, lighter and more application-specific thermal-processing components. Mainstream mullite and mullite-cordierite products continue to improve through particle-size optimisation, composite structures and surface modification, while corundum-mullite, magnesia-containing, spinel-containing and coated products are increasingly adopted for high-nickel cathodes and other highly corrosive powder systems. Silicon Carbide Saggers represent a premium technical route because higher thermal conductivity and mechanical strength enable thinner walls, faster heat transfer and increased usable kiln capacity. Saint-Gobain reports that its PowerCeram silicon-carbide solution can increase cathode active material throughput by more than 10% per kiln and reduce the energy lost in heating ceramic kiln furniture by more than 50% per kilogram of processed material. Customer purchasing criteria are consequently shifting from unit price toward total cost per firing cycle, incorporating powder loading, product life, breakage, energy consumption, contamination risk and kiln downtime. Longer service life may moderate replacement volume, but it supports higher-value products and creates opportunities for customised coatings, lightweight structures, larger formats and technical services.

## Market Dynamics

### Drivers

Demand growth is driven by the continued expansion of lithium-ion battery cathode material production and the recurring replacement characteristics of ceramic saggers.

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China’s Ministry of Industry and Information Technology reported domestic cathode material output of approximately 3.10 million tonnes in 2024, while output during the first four months of 2025 reached approximately 1.15 million tonnes and increased by more than 40% year on year. Each newly commissioned cathode-material line requires an initial inventory of saggers, while existing production lines generate recurring demand because repeated thermal cycling and chemical corrosion gradually cause surface spalling, cracking, deformation and contamination. LFP supports high-volume demand for cost-effective mullite-based products, while high-nickel NCM/NCA, high-voltage LCO and emerging cathode chemistries require products with greater corrosion resistance and tighter impurity control. Increasing automation in roller hearth kilns also raises requirements for dimensional consistency, mechanical strength and stable interaction with conveying systems.

## Restraints

Market growth is restrained by improvements in average sagger life, continuous pressure on cathode-material production costs and the use of alternative thermal-processing routes in selected applications. Better raw-material selection, composite layers, protective coatings and optimised kiln operation allow each sagger to complete more firing cycles, reducing replacement demand per tonne of cathode material. At the same time, substantial cathode-material capacity and intense downstream price competition require suppliers to reduce prices or demonstrate measurable savings in loading efficiency, energy consumption and product yield. The industry’s 25%–35% gross-margin range can narrow when alumina, silicon carbide, zirconia, natural gas or electricity costs rise faster than product prices. Product qualification is also highly specific to cathode formulation, lithium content, atmosphere, kiln temperature and powder loading; a sagger performing well on one production line may not achieve the same life on another. Long customer-validation periods therefore restrict rapid supplier substitution and increase development expenses.

## Opportunities

The principal opportunities are concentrated in high-nickel cathode materials, high-performance Silicon Carbide Saggers, coated or composite structures, overseas cathode-material localisation and new battery chemistries. High-nickel NCM and NCA expose saggers to stronger alkali and lithium-salt corrosion, supporting demand for corundum-mullite, magnesia-rich, spinel-containing and protective-layer products. Silicon carbide can provide greater thermal conductivity, lower wall mass and improved

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kiln throughput, although its higher initial price limits adoption to customers able to quantify lifecycle savings. Morgan Advanced Materials has developed a cathode-material saggar designed for as many as 60 cycles under representative NMC811 conditions, compared with approximately 30 cycles for conventional products, illustrating the potential commercial value of longer product life. New cathode plants outside China create opportunities for manufacturers offering overseas certification, local inventory and kiln-process support. Solid-state electrolytes, sodium-ion cathodes, lithium-rich manganese materials and high-voltage spinel materials may also require customised low-contamination ceramic containers.

### Challenges

Major industry challenges include balancing corrosion resistance with thermal-shock performance, maintaining stable product quality across large production batches and controlling the trade-off between longer life and manufacturing cost. Increasing alumina or introducing dense protective phases may improve chemical resistance but can also raise thermal expansion, weight or brittleness. Silicon-carbide products provide strong thermal performance but involve higher raw-material, forming and firing costs. Large-format and thin-wall saggers require tighter dimensional tolerances because deformation or edge damage can cause misalignment in automated roller kilns. Customers also use different definitions of product failure, cycle life and contamination, making cross-company performance comparisons difficult. Regional suppliers must maintain rapid delivery because sagger breakage can disrupt kiln operation, while export suppliers face transportation damage, customs costs and longer replacement lead times. Manufacturers expanding capacity ahead of customer approval may experience low utilisation, while smaller firms can struggle to finance continuous formulation development, automated inspection and long-duration industrial trials.

## Industry Chain Analysis

The upstream segment consists of mullite, cordierite, alumina, corundum, quartz, silicon carbide, magnesia, zirconia, spinel-forming raw materials, binders and coating materials, together with natural gas, electricity, moulds and forming equipment. Midstream manufacturing involves formulation design, raw-material processing, mixing, ageing, pressing or other forming methods, drying, high-temperature firing, coating, machining, inspection and packaging. Tianjin Trend discloses semi-dry pressing, plastic rolling, vacuum extrusion and pressure casting capabilities and produces cordierite-

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mullite, corundum-mullite, fused-quartz and silicon-carbide refractory systems. Downstream customers are principally LFP, NCM/NCA, LMO and LCO manufacturers operating roller hearth, pusher or other continuous kilns. Value creation is concentrated in formulation know-how, usable loading volume, dimensional consistency, cycle life, powder purity and the ability to develop products around customer-specific chemistry and kiln profiles. Suppliers that combine material development, pilot testing, technical service and rapid replacement generally possess stronger customer retention than companies relying only on standard products.

## Segment Insights

By material, Mullite/Mullite-Cordierite represents the mainstream product family because it provides a practical balance of thermal-shock resistance, structural stability, processability and cost. Corundum/Corundum-Mullite products generally offer higher alumina content and stronger corrosion resistance and are therefore more suitable for high-nickel NCM/NCA, LCO and other demanding cathode systems. Silicon Carbide Saggers form a premium segment characterised by high thermal conductivity, high strength and the ability to use thinner walls, but their unit price is materially higher than that of conventional oxide ceramics. Quartz Saggers should be retained as a specialised category rather than treated as an equally mainstream route, as their use is concentrated in selected powder chemistries and thermal conditions. The Others segment covers alumina, magnesia, zirconia-containing, spinel-containing, coated and other composite ceramic systems. The 2025 weighted average price of US$4.7 per unit reflects the full product mix and should not be interpreted as the price of a specific material grade.

By application, LFP Battery is the largest volume market because of the scale of LFP cathode production for electric vehicles and energy storage. The segment prioritises low cost, thermal-shock resistance and reliable repeated use. NCM/NCA Battery is generally a higher-value application because high-nickel materials place greater demands on chemical resistance, surface stability and contamination control. LCO Battery requires high purity and stable performance for high-voltage consumer-electronics cathode materials, while LMO Battery typically requires a balance between cost and resistance to manganese-containing compounds. The classification is MECE at the cathode-chemistry level, although LMFP and emerging cathode systems can be incorporated within LFP or Others until their standalone commercial scale becomes sufficiently material.

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### Downstream Market Opportunities

The strongest downstream opportunities come from high-volume LFP production, high-nickel cathode upgrades and new cathode-material capacity built outside established Asian clusters. LFP creates recurring demand for cost-efficient mullite-based products, particularly where manufacturers operate multiple high-utilisation roller hearth kilns. High-nickel NCM/NCA and high-voltage LCO provide stronger opportunities for corrosion-resistant inner layers, corundum-mullite, magnesia-rich and silicon-carbide products. Solid-state electrolyte powders, lithium-rich manganese-based cathodes and sodium-ion materials represent emerging applications where chemical compatibility and low contamination may be more important than the lowest unit price. Suppliers able to participate in kiln commissioning, powder-loading optimisation and lifecycle testing can convert product development into longer customer relationships. Products offering higher loading volume or longer service life can also create measurable value even if their purchase prices exceed the 2025 global average of US$4.7 per unit.

## Regional Insights

China is the largest regional production and consumption market, supported by approximately 85% of global cathode active material production in 2025 and a broad supplier base spanning standard mullite products, high-alumina composite saggers and advanced coated products. The region benefits from short delivery distances, concentrated cathode-material clusters and rapid product customisation, but competition is intense and average prices are generally lower than in overseas markets. Korea and Japan remain important for high-nickel cathodes, advanced ceramics and integrated kiln-engineering capabilities. Dongkuk R&S produces saggers for LCO, NCM and NCA cathode materials, while Noritake provides battery-material firing saggers together with thermal-processing equipment. Europe has a smaller shipment base but a stronger premium-product orientation, represented by Saint-Gobain’s silicon-carbide products and Morgan Advanced Materials’ longer-life development. North America and Southeast Asia offer longer-term localisation opportunities, although many new cathode-material projects remain dependent on imported saggers and overseas technical support during qualification.

## Competitive Landscape Analysis

The verified core supplier group includes Hunan Jinkai New Material Technology, Saint-

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Gobain, Dongkuk R&S, Noritake, Tianjin Trend Thermal Materials, Hunan Dejingyuan Technology and Fujian Junjie New Material. Hunan Jinkai discloses annual mullite-sagger capacity of 6.6 million units and long-term relationships with dozens of battery-material customers, while Tianjin Trend operates large refractory production bases and provides multiple materials and structures for lithium-battery powder calcination. Dongkuk R&S has explicit commercial products for LCO, NCM, NCA, high-nickel and large-format cathode-material firing, and Fujian Junjie identifies ceramic containers for cathode-material synthesis as a principal business. Yangquan Yinyu New Materials has strong patent and industrial-manufacturing evidence and can be treated as an important Chinese specialist. TYK Corporation and Tokyo Morex possess relevant ceramic and sagger capabilities, but battery-specific commercial evidence is less complete; Tokyo Morex is affiliated with TYK, so the two should not be double-counted without confirming the actual supplying entity. Yixing Qianjin Special Ceramic is suitable for the extended supplier pool. Hebei Shanqi primarily presents itself as a research, sales and supply-chain provider working with other manufacturers and should not be treated as a confirmed manufacturer. Xiamen Zhongke Jingyuan and Hebei Zhongci North New Materials should remain on the watchlist until stronger official production and shipment evidence is available.

## Report Scope

This report is a detailed and comprehensive analysis for global Lithium-ion Battery Ceramic Sagger 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 Lithium-ion Battery Ceramic Sagger market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Lithium-ion Battery Ceramic Sagger market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling

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prices (US$/Unit), 2021-2032

Global Lithium-ion Battery Ceramic Sagger market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Lithium-ion Battery Ceramic Sagger market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 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 Lithium-ion Battery Ceramic Sagger

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 Lithium-ion Battery Ceramic Sagger 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 Hunan Jinkai New Material Technology, Xiamen Zhongke Jingyuan, Hebei Zhongci North New Materials, Saint-Gobain, TYK Corporation, Noritake, Dongkuk, Tianjin Trend Thermal Materials, Hunan Dejingyuan Technology, Yangquan Yinyu New Materials, etc.

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

Lithium-ion Battery Ceramic Sagger 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.

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# Market Segmentation

## Market segment by Type

Mullite/Mullite-Cordierite

Corundum/Corundum-Mullite

Quartz

Silicon Carbide

Others

## Market segment by Height

Height ?100 mm

Height >100 mm

## Market segment by Application

LFP Battery

NCM/NCA Battery

LMO Battery

LCO Battery

## Major players covered

Hunan Jinkai New Material Technology

Xiamen Zhongke Jingyuan

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Hebei Zhongci North New Materials

Saint-Gobain

TYK Corporation

Noritake

Dongkuk

Tianjin Trend Thermal Materials

Hunan Dejingyuan Technology

Yangquan Yinyu New Materials

Tokyo Morex

Yixing Qianjin Special Ceramic

Fujian Junjie New Material

Hebei Shanqi New Materials Technology

## 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)

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## Chapter Outline

Chapter 1, to describe Lithium-ion Battery Ceramic Sagger product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium-ion Battery Ceramic Sagger, with price, sales quantity, revenue, and global market share of Lithium-ion Battery Ceramic Sagger from 2021 to 2026.

Chapter 3, the Lithium-ion Battery Ceramic Sagger competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lithium-ion Battery Ceramic Sagger 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 Lithium-ion Battery Ceramic Sagger 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 Lithium-ion Battery Ceramic Sagger.

Chapter 14 and 15, to describe Lithium-ion Battery Ceramic Sagger sales channel, distributors, customers, research findings and conclusion.

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