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Global Sodium-ion Battery Sagger Market Growth 2026-2032

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Abstracts

The global Sodium-ion Battery Sagger market size is predicted to grow from US$ 7.04 million in 2025 to US$ 28.49 million in 2032; it is expected to grow at a CAGR of 21.0% from 2026 to 2032.

Sodium-ion Battery Sagger refers to reusable refractory containers and moulded kiln consumables designed to carry sodium-ion battery cathode and anode materials during calcination, sintering, carbonisation and other high-temperature treatment processes. The market covers Ceramic Sagger products mainly used for layered oxide, polyanionic, Prussian blue analogue and other cathode materials, as well as Graphite Sagger products used primarily for hard carbon anode processing under inert or controlled atmospheres.

Key Findings

Global Sodium-ion Battery Sagger production reached approximately 190,000 units in 2025

The weighted average selling price reached approximately US$38 per unit in 2025

Ceramic Sagger accounted for approximately 75% of global shipment volume in 2025

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

China remained the largest manufacturing and consumption region for Sodium-ion Battery Sagger products

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Market Trends

The Sodium-ion Battery Sagger market is shifting from products adapted from lithium-ion battery kiln furniture toward formulations and structures specifically engineered for sodium-ion cathode and hard carbon processing. For Ceramic Sagger products, development priorities include stronger resistance to sodium-containing corrosive species, lower impurity migration, improved thermal-shock stability, composite working layers, functional coatings and longer service life. Suppliers are also reducing wall thickness and thermal mass to increase powder loading, shorten heating cycles and lower kiln energy consumption. Saint-Gobain is promoting silicon carbide-based PowerCeram saggers for improved chemical resistance, thermal efficiency and throughput, while Morgan Advanced Materials is developing longer-life cathode-material saggers to reduce breakage and replacement costs. Graphite Sagger development focuses on material purity, machining precision, oxidation resistance, structural stability and compatibility with automated loading systems used in hard carbon production. Customer purchasing decisions are consequently moving from initial unit price toward total saggar cost per tonne of processed battery material, taking account of loading capacity, reuse cycles, contamination risk, breakage rates and production downtime.

Market Dynamics

Drivers

Growth is driven by the commercial expansion of sodium-ion batteries, increasing production of layered oxide and polyanionic cathode materials, and the scale-up of hard carbon anode manufacturing. New cathode and anode plants create initial kiln-loading and spare-product demand, while operating production lines generate recurring replacement demand because saggers are exposed to repeated thermal cycling, chemical corrosion and mechanical handling. Hunan Dejingyuan reported large-volume sodium-ion sagger sales after establishing a lithium/sodium battery-material ceramic sagger pilot line, while Xiamen Zhongke Jinyuan has disclosed batch shipments of sodium-ion saggers and continued expansion of ceramic and graphite sagger capacity. The International Energy Agency expects sodium-ion battery deployment to expand across energy storage, mobility and industrial applications, although the industry remains at an early stage compared with lithium-ion technology.

Restraints

Market expansion is restrained by the early commercial stage of sodium-ion batteries,

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uneven utilisation of announced battery-material capacity and uncertainty regarding the long-term balance among layered oxide, polyanionic and Prussian blue analogue cathode routes. In 2025, global sodium-ion battery production remained below 1% of lithium-ion battery production, limiting the current scale of the dedicated sagger market. Sagger demand also does not increase proportionally with cathode or anode output because each product can be reused over multiple thermal cycles, and improvements in service life reduce consumption per tonne of processed material. For hard carbon applications, the adoption of continuous furnaces, rotary equipment or other heat-treatment systems may reduce the proportion of production relying on conventional graphite saggers. Low lithium iron phosphate battery prices may also slow sodium-ion adoption in applications where sodium-ion technology does not yet provide a clear cost or performance advantage.

Opportunities

The strongest opportunities are concentrated in sodium-corrosion-resistant Ceramic Sagger formulations, high-purity composite working layers, coated products, lightweight silicon carbide structures and customised Graphite Sagger products for hard carbon processing. Suppliers can increase customer value by jointly optimising sagger dimensions, loading capacity, stacking configuration, firing profiles and replacement schedules rather than competing only on product price. TYK offers customised material selection and shapes for cathode, anode and powder heat-treatment applications, while Saint-Gobain is developing high-performance silicon carbide saggers and recycling solutions for kiln furniture. Overseas sodium-ion projects also create opportunities for Chinese suppliers to provide qualification support, local inventory, application engineering and replacement-management services. Used ceramic and graphite sagger recycling may become an additional service segment as commercial production volumes increase and battery-material manufacturers place greater emphasis on waste reduction and lifecycle costs.

Challenges

The main challenge is customer qualification because saggers directly contact active materials and can affect powder purity, crystal formation, consistency and production safety. Suppliers must simultaneously control sodium corrosion, thermal expansion, cracking, deformation, surface peeling, particle contamination and mechanical damage during automated transport. Different cathode chemistries, sodium sources, firing temperatures and furnace atmospheres require customised formulations, making it difficult to establish a single standard product. New saggers generally require repeated laboratory, pilot-line and commercial-line validation, resulting in long customer-

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development cycles and high switching costs. Manufacturers must also balance longer service life with lower thermal mass and thinner walls, as excessive lightweighting can reduce mechanical durability. Achieving the reported industry gross margin range of 25%–35% therefore depends on product mix, manufacturing yield, customer certification, service life and the ability to provide customised engineering support.

Industry Chain Analysis

The upstream segment includes mullite, cordierite, alumina, corundum, silicon carbide, zirconia, refractory clay, binders, coating materials, petroleum coke, needle coke and graphite blocks. Midstream manufacturers undertake formulation development, powder preparation, forming, drying, high-temperature firing, graphite machining, surface treatment, quality inspection and customer qualification. Hunan Jinkai supplies both mullite-based and graphite saggers for lithium- and sodium-ion cathode and anode materials, while TYK and IPS Ceramics provide customised ceramic or graphite kiln products for battery-material heat treatment. Downstream customers include sodium-ion cathode-material producers, hard carbon manufacturers, integrated battery and material companies, research institutions and pilot-scale developers. Value creation is concentrated in chemical compatibility, low contamination, consistent dimensions, higher loading efficiency, longer reuse cycles and rapid technical response, rather than in raw refractory material cost alone.

Segment Insights

By product type, Ceramic Sagger represented approximately 75% of global shipment volume in 2025 and remained the largest segment. Its leading share is supported by broad use in the calcination and sintering of layered oxide, polyanionic and other sodium-ion cathode materials. Conventional mullite-cordierite and aluminosilicate products remain important because of their cost effectiveness and thermal-shock performance, while alumina-rich, corundum-composite, coated and silicon carbide products are gaining adoption where corrosion resistance, low contamination or energy efficiency is more important. Graphite Sagger accounted for the remaining approximately 25% of unit shipments and was mainly used for hard carbon anode carbonisation and high-temperature treatment. Although its shipment volume is smaller, graphite products generally command substantially higher unit prices because of graphite raw-material costs, machining requirements, larger dimensions and controlled-atmosphere applications.

By application, Sodium-ion Battery Cathode was the largest segment by unit demand,

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reflecting the dominant shipment share of Ceramic Sagger products and the repeated firing requirements of mainstream cathode-material processes. Sodium-ion Battery Anode represented a smaller unit market but a more value-intensive segment because Graphite Sagger products typically have higher selling prices. Future segment development will depend on the commercialisation speed of different cathode chemistries, the proportion of hard carbon plants using sagger-based furnaces, loading capacity per unit and the number of effective reuse cycles.

Downstream Market Opportunities

The main downstream opportunity comes from sodium-ion cathode and hard carbon projects moving from pilot-scale production to stable commercial manufacturing. New production lines require initial kiln loading and spare saggers, while established plants create recurring replacement demand according to corrosion, cracking, deformation and service-life performance. Cathode-material producers require ceramic products matched to different sodium salts, operating temperatures and firing atmospheres, whereas hard carbon manufacturers require graphite products compatible with inert-atmosphere carbonisation and automated material handling. Integrated battery-material groups are likely to favour suppliers that can support product design, pilot qualification, mass-production adjustment and rapid after-sales response. Manufacturers with both Ceramic Sagger and Graphite Sagger capabilities are therefore better positioned to serve customers across the sodium-ion cathode and anode material chain.

Regional Insights

China is the largest production and consumption region because it combines a concentrated sodium-ion battery industry, extensive cathode and hard carbon capacity, established refractory-ceramic manufacturing and relatively short customer-qualification cycles. The International Energy Agency reports that nearly all existing sodium-ion battery manufacturing capacity is located in China, and that China accounts for more than 95% of installed and announced global capacity for 2030. This concentration extends to cathode and hard carbon supply chains, supporting strong local demand for both Ceramic Sagger and Graphite Sagger products.

Japan and Europe remain important sources of advanced ceramic formulations, silicon carbide materials and specialist kiln-furniture technologies. TYK, Saint-Gobain and Morgan Advanced Materials possess strong capabilities in customised materials, chemical resistance, thermal efficiency and product longevity, although their sodium-ion-specific shipment volumes have not been separately disclosed. North America has a

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smaller but developing supplier base represented by specialist ceramic manufacturers serving battery-material start-ups and local cathode projects, while South Korea, Taiwan and Southeast Asia remain potential growth regions dependent on future sodium-ion material investments and regional supply-chain localisation.

Competitive Landscape Analysis

The competitive landscape consists of a limited group of verified sodium-ion sagger manufacturers, a broader group of battery-material sagger suppliers with transferable technology, and specialist graphite companies serving hard carbon production. Hunan Jinkai is a core integrated supplier with official product coverage across mullite and graphite saggers for sodium-ion cathode and anode materials. Hunan Dejingyuan has achieved large-volume sodium-ion sagger sales and operates ceramic and graphite-related businesses, while Xiamen Zhongke Jinyuan has entered batch sodium-ion sagger shipments and is expanding both ceramic and graphite product capacity. Saint-Gobain, TYK Corporation and Morgan Advanced Materials are important international extended suppliers with established battery-material saggar technologies, but their sodium-ion-specific revenue has not been separately confirmed. Fujian Junjie New Material, Guangdong Sunmore, IPS Ceramics and Prairie Ceramics should be retained in the extended manufacturer pool because they have verified cathode-material ceramic or battery-saggar capabilities, while sodium-ion-specific commercial supply requires further confirmation. Competition is centred on service life, resistance to sodium corrosion, contamination control, loading efficiency, manufacturing yield, customised engineering and total processing cost. The industry gross margin range of 25%–35% reflects differences in product material, qualification status, customer concentration, production scale and the proportion of customised high-performance products.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Sodium-ion Battery Sagger Industry Forecast” looks at past sales and reviews total world Sodium-ion Battery Sagger sales in 2025, providing a comprehensive analysis by region and market sector of projected Sodium-ion Battery Sagger sales for 2026 through 2032. With Sodium-ion Battery Sagger sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Sodium-ion Battery Sagger industry.

This Insight Report provides a comprehensive analysis of the global Sodium-ion Battery Sagger landscape and highlights key trends related to product segmentation, company

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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 Sodium-ion Battery Sagger portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Sodium-ion Battery Sagger market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Sodium-ion Battery Sagger 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 Sodium-ion Battery Sagger.

This report presents a comprehensive overview, market shares, and growth opportunities of Sodium-ion Battery Sagger market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Ceramic Sagger

Graphite Sagger

Segmentation by Height:

Height ?100 mm

Height >100 mm

Segmentation by Application:

Sodium-ion Battery Cathode

Sodium-ion Battery Anode

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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

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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.

Hunan Jinkai New Material Technology

Xiamen Zhongke Jingyuan

Hunan Dejingyuan Technology

Saint-Gobain

TYK Corporation

Morgan Advanced Materials

Fujian Junjie New Material

Key Questions Addressed in this Report

What is the 10-year outlook for the global Sodium-ion Battery Sagger market?

What factors are driving Sodium-ion Battery Sagger market growth, globally and

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by region?

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

How do Sodium-ion Battery Sagger market opportunities vary by end market size?

How does Sodium-ion Battery Sagger break out by Type, by Application?

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