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Global Whisker Carbon Nanotubes for Lithium-ion Battery Market Growth 2026-2032

https://marketpublishers.com/r/GDE91A2492C1EN.html
Date: July 2026
Pages: 79
Price: US$ 3,660.00 (Single User License)
ID: GDE91A2492C1EN

Abstracts

The global Whisker Carbon Nanotubes for Lithium-ion Battery market size is predicted to grow from US$ 128 million in 2025 to US$ 519 million in 2032; it is expected to grow at a CAGR of 22.5% from 2026 to 2032.

In 2025, global Whisker Carbon Nanotubes for Lithium-ion Battery production reached approximately 1,910 tons, with an average global market price of around US$68.8 per kilogram. Whisker carbon nanotubes, or vapor grown carbon fibers (VGCFs), are cylindrical nanostructures with graphene layers arranged as stacked cones, cups or plates. Carbon nanofibers with graphene layers wrapped into perfect cylinders are called carbon nanotubes. Whisker carbon nanotubes have high strength, high electrical and thermal conductivity, and are an important reinforcing phase in nanocomposites, which can greatly increase the rate of lithium-ion batteries.

From a global market perspective, whisker carbon nanotubes for lithium-ion batteries compete less on general CNT capacity and more on morphology stability, metal impurity control, conductive-network efficiency, slurry dispersion compatibility and battery customer qualification. Resonac announced in 2022 that it would expand VGCF capacity at its Kawasaki Plant to 400 tons per year, showing that high-end lithium battery conductive additives remain a core application for this material and that leading battery customers place greater emphasis on stable long-term supply and batch consistency. In China, Kelaiwei?s public materials state that it has supplied whisker carbon nanotubes to domestic and overseas lithium battery manufacturers and plans to expand whisker carbon nanotube capacity to 500 tons per year, indicating stronger localized supply capability. Demand is mainly supported by high-energy-density batteries, fast-charging systems and silicon-based anodes. However, customer validation, formulation fit, pricing pressure and cost-performance competition with

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conductive carbon black and conventional CNTs will continue to shape the pace of market growth.

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

This Insight Report provides a comprehensive analysis of the global Whisker Carbon Nanotubes for Lithium-ion Battery landscape and highlights key trends related to product segmentation, company 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 Whisker Carbon Nanotubes for Lithium-ion Battery portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Whisker Carbon Nanotubes for Lithium-ion Battery market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Whisker Carbon Nanotubes for Lithium-ion Battery 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 Whisker Carbon Nanotubes for Lithium-ion Battery.

This report presents a comprehensive overview, market shares, and growth opportunities of Whisker Carbon Nanotubes for Lithium-ion Battery market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Powder

Slurry

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Segmentation by Fiber Diameter:

Diameter: 75 nm

Diameter: 150 nm

Segmentation by Fiber Length:

Length

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Contents

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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