

Global Whisker Carbon Nanotubes Market Growth 2026-2032

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Abstracts

The global Whisker Carbon Nanotubes 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 (include slurry) 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.

From a global supply perspective, the whisker carbon nanotubes market is a small but specialized segment within high-end functional carbon materials. Its competitive logic is not determined by general CNT capacity, but by the stability of vapor-grown processes, control of whisker morphology, impurity management, conductive-network formation and batch-to-batch consistency. In 2022, Resonac announced an expansion of VGCF capacity at its Kawasaki Plant to 400 tons per year, showing that Japanese suppliers still retain strong process know-how, customer relationships and product qualification advantages in this field. In China, Kelaiwei's official disclosure states that its phased projects and further expansion will lift whisker carbon nanotube material capacity to 500 tons per year, indicating that local supply is moving from technology breakthrough toward scaled customer support. Demand is mainly driven by lithium battery conductive additives, composite reinforcement, electrothermal conversion materials and other high-end functional uses. Downstream users focus on conductivity at low loading, dispersion stability and controllable cost. Overall, the market has clear application pull, but customer qualification, pricing, batch stability and competition with conventional

conductive materials will still shape the pace of volume growth.

LP Information, Inc. (LPI) ' newest research report, the "Whisker Carbon Nanotubes Industry Forecast" looks at past sales and reviews total world Whisker Carbon Nanotubes sales in 2025, providing a comprehensive analysis by region and market sector of projected Whisker Carbon Nanotubes sales for 2026 through 2032. With Whisker Carbon Nanotubes 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 industry.

This Insight Report provides a comprehensive analysis of the global Whisker Carbon Nanotubes 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 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 market.

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

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

Segmentation by Type:

Whisker Carbon Nanotube Powder

Whisker Carbon Nanotube Slurry

Segmentation by Diameter:

Diameter: 75 nm

Diameter: 150 nm

Segmentation by Length:

Length

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