

Global Vapor Grown Carbon Fiber Market Growth 2026-2032

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Abstracts

The global Vapor Grown Carbon Fiber 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 Vapor Grown Carbon Fiber production reached approximately 1,910 tons, with an average global market price of around US\$68.8 per kilogram. Vapor Grown Carbon Fiber (VGCF), also known as Vapor Grown Carbon Nanofiber (VGCNF) or Whisker CNT, is a class of high-performance micro-to-nanoscale carbon fiber. It is produced by depositing carbon from a hydrocarbon gas (like benzene or methane) onto a catalyst particle at high temperatures.

From a global market perspective, vapor grown carbon fiber is a specialized product category within high-performance carbon-based conductive and reinforcing materials. Supply remains relatively concentrated, and competition is not mainly about expanding general carbon material capacity, but about continuous vapor-growth process stability, fiber morphology control, impurity management, dispersion adaptability and customer qualification capability. In 2022, Resonac announced the expansion of VGCF capacity at its Kawasaki Plant to 400 tons per year, indicating that lithium battery conductive additives remain one of the most important growth drivers for this material and that high-end customers require stable long-term supply. In China, Kelaiwei's public materials state that it has built a 300-ton-per-year whisker carbon nanotube powder production base and plans to expand capacity to 500 tons per year, strengthening localized supply-chain support. Demand is mainly supported by power batteries, energy storage batteries, composite materials, electromagnetic shielding and thermal-management applications. However, strict requirements on cost, batch consistency and formulation compatibility mean that volume growth still depends on customer validation, while price

reduction and substitute materials will affect profitability.

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

This Insight Report provides a comprehensive analysis of the global Vapor Grown Carbon Fiber 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 Vapor Grown Carbon Fiber portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vapor Grown Carbon Fiber market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vapor Grown Carbon Fiber 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 Vapor Grown Carbon Fiber.

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

Segmentation by Type:

Powder

Slurry

Segmentation by Diameter:

Diameter: 75 nm

Diameter: 150 nm

Segmentation by Length:

Length

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