

South America Carbon Nanotubes Market Forecast to 2028 –Regional Analysis – by Type (Multi-Walled Carbon Nanotubes and Single-Walled Carbon Nanotubes), and Application (Electronics and Semiconductors, Energy Storage, Structural Composites, Aerospace and Defense, Medical, and Others)

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Abstracts

The South America carbon nanotubes market is expected to grow from US\$ 298.40 million in 2022 to US\$ 569.27 million by 2028. It is estimated to grow at a CAGR of 11.4% from 2022 to 2028.

Rising Demand for Carbon Nanotube Based Composites is Fueling South America Carbon Nanotubes Market

The growing demand for lightweight substitutes of metal with superior thermal, electrochemical, and mechanical characteristics has resulted in rising research related to composites and composite materials. Technological advancements and next-generation microscale applications in the electrical & electronics sector need efficient and high-functionality materials such as CNTs. Further, CNT-based composites technology is widely utilized in aerospace, defense, automotive and infrastructure industries.

CNT-reinforced polymer composites are used in automotive applications such as exhaust systems, catalytic converters, suspension systems, engines, automotive structural components, and power train materials. Moreover, multi-walled CNTs are gaining popularity as a robust and lightweight alternative to copper. The growing

demand for lightweight automobiles with high fuel efficiency and minimal carbon emissions has encouraged automotive manufacturers to invest in research of novel CNT-based composites and increasingly utilize carbon nanotubes. Thus, the rising demand for CNT-based composites from various industries is driving the carbon nanotubes market.

South America Carbon Nanotubes Market Overview

The carbon nanotubes market in South & Central America is segmented into Brazil, Argentina, and the Rest of South & Central America. The regional market is still at an initial stage but is expected to grow significantly in the coming years. Brazil currently dominates the market, with several companies such as Nanocyl Brazil and Unidym Brazil producing and supplying carbon nanotubes. The carbon nanotubes market growth in the region is expected to be driven by multiple factors, including increasing investments in research and development, growing demand for lightweight and strong materials in various industries, and ongoing technological advancements. The medical industry is anticipated to propel the demand for carbon nanotubes in the coming years as carbon nanotubes are being studied for various medical applications. Furthermore, initiatives such as the Latin American Nanotechnology & Society Network and the National Nanotechnology Initiative in Brazil are working toward promoting the development and commercialization of nanotechnology in the region. However, one of the major challenges for market growth in South & Central America is the lack of adequate infrastructure and funding for research and development. In Brazil, researchers at the Federal University of Minas Gerais have developed a highly efficient supercapacitor using carbon nanotubes, which can be used in energy storage systems for electric vehicles and renewable energy sources. The country is also home to several startups such as Carbon Upcycling Technologies and Nanotek Materials that are developing innovative carbon nanotube-based materials for various applications

Exhibit: South America Carbon Nanotubes Market Revenue and Forecast to 2028 (US\$ Million)

South America Carbon Nanotubes Market Segmentation

The South America carbon nanotubes market is segmented into type, application, and country.

Based on type, the South America carbon nanotubes market is bifurcated into multi-walled carbon nanotubes, and single-walled carbon nanotubes. The multi-walled carbon

nanotubes segment registered the largest market share in 2022.

Based on application, the South America carbon nanotubes market is segmented into electronics and semiconductors, energy storage, structural composites, aerospace and defense, medical, and others. The structural composites segment held a larger market share in 2022.

Based on country, the market is segmented into Brazil, Argentina, and the Rest of South America. Brazil dominated the market share in 2022.

Nanoshel LLC; Kumho Petrochemical Co Ltd; Klean Industries Inc ; LG Chem Ltd ; Arkema SA ; and Cobot Corp are the leading companies operating in the carbon nanotubes market in the region.

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