

Carbon Nanotubes (CNT) Market Research 2024 Value, CAGR, Industry Analysis, Latest Updates, Data and Outlook to 2030

Carbon Nanotubes (CNT) Market Analysis Report by Product Type, by Application and by End Users: Global Opportunity Analysis and Industry Forecast 2030

LUTON, BEDFORDSHIRE, UNITED KINGDOM, March 5, 2024 /EINPresswire.com/ -- "Exactitude Consultancy That Adds Flavour To Your Success"

The [Carbon Nanotubes \(CNT\)](#) Market Size, Scope, and Forecast 2024-2030

report has been added to the Market research collection of Exactitude Consultancy reports. Industry experts and researchers have offered an authoritative and concise analysis of the Carbon Nanotubes (CNT) Market with respect to various aspects such as growth factors, challenges, restraints, developments, and opportunities for growth. This report provides a pin-point analysis of changing dynamics and emerging trends in the Carbon Nanotubes (CNT) Market. Additionally, it provides a futuristic perspective on various factors that are likely to fuel the growth of the Worldwide Carbon Nanotubes (CNT) Market in the coming years.

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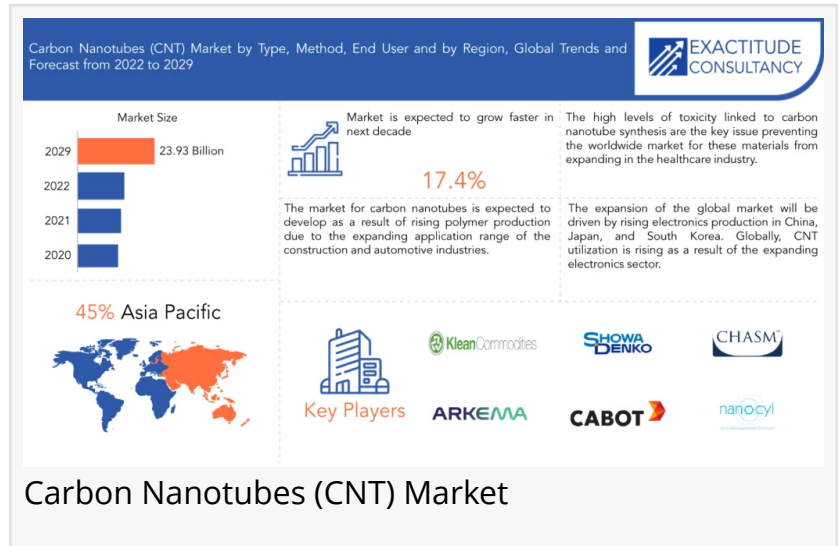
The market for carbon nanotubes experiences significant growth due to their unique properties, finding applications in advanced materials, electronics, and nanotechnology.”

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Carbon nanotubes (CNT) market is expected to grow at 17.4% CAGR from 2024 to 2030. It was valued approximately 5.65 billion at 2023. It is expected to reach above USD 23.93 billion by 2030.

Carbon nanotubes (CNTs) are one-dimensional allotropes

of carbon made by rolling sheet of graphene, an advanced material that can be engineered for various applications. Its unique properties have attracted significant research interest since its initial discovery. Based on the number of graphene sheets used, CNTs are of two types, single-



walled CNTs (SWCNTs) and multi-walled CNTs (MWCNTs). MWCNTs also consist of double-walled CNTs. They are used as structural polymer composites for automotive and aerospace components due to their superior mechanical properties, such as strength and flexibility. CNT reinforced fibers are stiffer than steel and resistant to external wear & tear. CNTs have high electrical conductivity, which makes them ideal for use in conductive polymer composites. They are used as conductive fillers in ESD materials, EMI shielding, and electronics packaging. Further, as they have high aspect ratio, lower addition of CNT is enough to obtain the desired electrical conductivity. CNTs are good electron field emitters for use in flat panel displays, touch screens, and various sensors. In addition, CNTs offer high charge carrying capacity and high surface area. They are the preferred material for use as electrodes in capacitors and batteries.

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Some of the key players profiled in the study are: Klean Commodities, SHOWA DENKO K.K., Jiangsu Tiannai Technology Co. Ltd., Carbon Solutions, Inc., Hyperion Catalysis International, Nanocyl SA, CHASM Advanced Materials Inc., Arkema SA, Cabot Corporation, Nanoshell LLC. and other Prominent players.

Recent developments:

February 20, 2023: Arkema launched the most complete and integrated offering on the market for Pressure Sensitive Adhesives. This offering provides the customers with unique access to the most sustainable high-performance solutions for the fast-growing pressure sensitive adhesives market and for a wide variety of demanding applications such as tapes, labels and specialty films.

April 1, 2020: Cabot Corporation announced that it has completed its previously announced acquisition of Shenzhen Sanshun Nano New Materials Co., Ltd (SUSN) for approximately USD 115 million. The business will be integrated into Cabot's Performance Chemicals Segment.

Competition is an important issue in any market research analysis. With the help of the competitive analysis provided in the report, players can easily study the key strategies employed by leading players in the Carbon Nanotubes (CNT) Market. The major and emerging players of the Carbon Nanotubes (CNT) Market are closely studied considering their market share, production, sales, revenue growth, gross margin, product portfolio, and other important factors. This will help players familiarize themselves with the movements of their toughest competitors in the Carbon Nanotubes (CNT) market.

The segmental analysis section of the report includes a thorough research study on key type and application segments of the Carbon Nanotubes (CNT) market

Carbon Nanotubes (Cnt) Market By Type, 2020-2030, (Usd Billion, Kilotons)

Single-Walled Carbon Nanotubes

Multi-Walled Carbon Nanotubes

Carbon Nanotubes (Cnt) Market By Method, 2020-2030, (Usd Billion, Kilotons)

Chemical Vapor Deposition

Catalytic Chemical Vapor Deposition

High-Pressure Carbon Monoxide Reaction

Others

Carbon Nanotubes (Cnt) Market By End User, 2020-2030, (Usd Billion, Kilotons)

Electronics & Semiconductors

Energy & Storage

Chemical Materials & Polymers

Medical

Structural Composites Applications

Others

Carbon Nanotubes (CNT) Market Regional Analysis/Insights

A considerable market for Carbon Nanotubes (CNT) exists in the Asia Pacific area, which is fueled by the rising need for sophisticated materials across numerous sectors, including electronics, energy, and the automobile industry. China, Japan, India, South Korea, Taiwan, and other nations in the area are among the top consumers of Carbon Nanotubes (CNT). China accounts for a significant percentage of the global market and is both the largest consumer and producer of Carbon Nanotubes (CNT) in the Asia Pacific area. The country's expanding electronics and automotive sectors, as well as government programs encouraging the use of cutting-edge materials, have helped the market for Carbon Nanotubes (CNT) grow in China. Aside from China, South Korea and Japan are significant markets for Carbon Nanotubes (CNT) because of the need for high-performance materials in the electronics, energy, and other sectors.

Due to the presence of the majority of manufacturers in this area, the North American market is anticipated to expand at a substantial rate during the forecast period. Industry development in this region will be aided by significant financing for polymer and composites research as well as the production base of a few specific polymers, namely in the US for PEI and PEEK. Regional growth will be aided by the rising demand for polymer manufacture to enhance the mechanical, thermal, and electrical characteristics of the bulk product. In addition, government policies enacted to support green energy are probably going to help the sector expand overall. The Canadian government's environmental regulations did not include CNTs either.

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The Carbon Nanotubes (CNT) market is expected to experience significant growth in the coming years, driven by several key factors:

Drivers:

Emerging demand from the Asia Pacific region: This region, particularly countries like China, India, and Taiwan, is witnessing a surge in demand for CNTs due to rapid development and industrialization. These countries are investing heavily in various sectors that utilize CNTs, such as electronics, energy, and automotive industries.

Growth in emerging applications: CNTs are finding applications in various new and emerging fields, including:

Lithium-ion batteries: CNTs can enhance the capacity and longevity of lithium-ion batteries, crucial for electric vehicles and portable electronics.

Composites: CNTs can significantly improve the strength, conductivity, and weight of composite materials, used in various applications like aerospace, construction, and sporting goods.

Sensors: CNT-based sensors offer high sensitivity and can be used for various applications, including environmental monitoring, medical diagnostics, and security.

Favorable regulatory framework: Governments worldwide are increasingly recognizing the potential of nanotechnology and implementing supportive policies and regulations. This fosters research and development activities and encourages the adoption of CNTs in various industries.

Restraints:

Environmental concerns and health & safety issues: The potential environmental impact of CNT production and disposal, as well as concerns regarding the health risks associated with their use, are posing challenges to wider adoption.

Maintaining quality and reducing processing cost: Consistent production of high-quality CNTs remains a challenge, and the high processing costs currently limit their widespread use in various applications.

Opportunities:

Technological advancements: Ongoing research and development are leading to improved production methods, cost reductions, and the development of new functionalities for CNTs. This opens up new avenues for their application in various fields.

Increasing government funding: Governments are increasing their funding for research and development activities related to nanotechnology, which is expected to accelerate the advancement of CNT technology and its commercialization.

Here's how Exactitude Consultancy helps the stakeholders and CXOs through the reports:

Inculcation and Evaluation of Strategic Collaborations: The researchers analyse recent strategic activities like mergers, acquisitions, partnerships, collaborations, and joint ventures.

Perfect Market Size Estimations: The report analyses the demographics, growth potential, and capability of the Carbon Nanotubes (CNT) market through the forecast period.

This factor leads to the estimation of the Carbon Nanotubes (CNT) market size and also provides an outline about how the market will retrieve growth during the assessment period.

Investment Research: The report focuses on the ongoing and upcoming investment opportunities across a particular Carbon Nanotubes (CNT) market that will help the stakeholders to be aware of the current investment scenario across the market.

The new edition of the report consists of trends/disruptions on customer's business, tariff and regulatory landscape, pricing analysis, and a market ecosystem map to enable a better understanding of the market dynamics for Carbon Nanotubes (CNT).

Customization services available with the report:

- Country level market for Carbon Nanotubes (CNT) market (up to 5)

- Profiling and additional market players (up to 5)
- Up to 40 hours of customization.
- post-sales support for 1 year from the date of delivery.

Please contact our sales professional (sales@exactitudeconsultancy.com), we will ensure you obtain the report which works for your needs.

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