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Global Carbon Nanotube (CNT) Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Nanotube (CNT) Materials market size is expected to reach $ 5454 million by 2032, rising at a market growth of 32.0% CAGR during the forecast period (2026-2032).
Carbon nanotubes are tubular nanomaterials formed by carbon atoms through sp? hybridization. Their structure can be viewed as seamless hollow cylinders formed by curling single-layer or multi-layer graphene sheets.
Core Characteristics:
Typically ranging from a few nanometers to tens of nanometers in diameter (1 nm = 10?? m), they can extend to micrometers or even millimeters in length, exhibiting an extremely high aspect ratio (up to 1000+). This confers the quintessential properties of a ?one-dimensional nanomaterial.?
The tube walls consist of hexagonal carbon rings, with some structures potentially containing pentagonal or heptagonal rings. These defects can influence electrical, mechanical, and other properties.
Classification:
Based on wall count, they are categorized as single-walled carbon nanotubes (SWCNTs) (formed by rolling a single graphene layer) and multi-walled carbon nanotubes (MWCNTs) (formed by nesting multiple concentric cylindrical graphene layers).
Based on helical structure (chiral angle), they are classified as armchair, zigzag, and chiral types. Different structures result in significant variations in electrical properties (e.g., armchair types exhibit metallic behavior, while zigzag types may be semiconducting).
Carbon nanotubes combine exceptional mechanical strength (over 100 times stronger than steel), electrical conductivity (approaching copper), thermal conductivity, and chemical stability. They are widely applied in composites, electronic devices, energy

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storage (e.g., battery electrodes), biomedicine, and other fields, making them a key research focus in nanomaterials.
Global carbon nanotube sales reached 11,479 tons in 2025, with an average selling price of $61,136 per ton.
Expansion of Application Areas: With technological advancements, carbon nanotubes are expected to find applications in an increasing number of fields. For instance, in the semiconductor manufacturing sector, the successful commercialization of carbon nanotube memory could open up significant market opportunities. Additionally, in industries such as aerospace and sports equipment, the application of carbon nanotube-reinforced composites is also anticipated to expand further.
Product Upgrades and Performance Enhancements: Single-walled carbon nanotubes with superior performance are expected to enter mass production soon, potentially ushering in a new growth cycle for the industry. In the future, research and development efforts will focus on improving the purity of carbon nanotubes and enhancing powder dispersion technology to address issues such as agglomeration, thereby further enhancing product performance.
Continuous Expansion of Production Capacity: Against the backdrop of rapid growth in the new energy industry, carbon nanotube-related manufacturing companies continue to announce plans for increased production and capacity expansion. Leading companies are striving to increase their market share, while new entrants are continuously emerging, resulting in a steady increase in new production capacity.
This report studies the global Carbon Nanotube (CNT) Materials production, demand, key manufacturers, and key regions.
This report is a detailed and comprehensive analysis of the world market for Carbon Nanotube (CNT) Materials and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Nanotube (CNT) Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Nanotube (CNT) Materials total production and demand, 2021-2032, (Tons)
Global Carbon Nanotube (CNT) Materials total production value, 2021-2032, (USD Million)
Global Carbon Nanotube (CNT) Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Carbon Nanotube (CNT) Materials consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Carbon Nanotube (CNT) Materials domestic production, consumption, key domestic manufacturers and share

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Global Carbon Nanotube (CNT) Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Carbon Nanotube (CNT) Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Carbon Nanotube (CNT) Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
This report profiles key players in the global Carbon Nanotube (CNT) Materials market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Cnano, LG Chem, SUSN Nano, HaoXin Technology, Nanocyl, Arkema, Showa Denko, OCSiAl, Kumho Petrochemical, etc.
This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.
Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Nanotube (CNT) Materials market
Detailed Segmentation:
Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.
Global Carbon Nanotube (CNT) Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Carbon Nanotube (CNT) Materials Market, Segmentation by Type:

SWNTs

MWNTs

Global Carbon Nanotube (CNT) Materials Market, Segmentation by End-Use Applications:

New Energy Sector

Composite Materials Sector

Electronics and Semiconductor Sector

Biomedical Sector

Other

Global Carbon Nanotube (CNT) Materials Market, Segmentation by Sales Channels:

Direct Sales

Distribution

Global Carbon Nanotube (CNT) Materials Market, Segmentation by Application:

Lithium Battery Field

Conductive Plastic Field

Others

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Companies Profiled:

Cnano

LG Chem

SUSN Nano

HaoXin Technology

Nanocyl

Arkema

Showa Denko

OCSiAI

Kumho Petrochemical

Key Questions Answered:

1. How big is the global Carbon Nanotube (CNT) Materials market?
2. What is the demand of the global Carbon Nanotube (CNT) Materials market?
3. What is the year over year growth of the global Carbon Nanotube (CNT) Materials market?
4. What is the production and production value of the global Carbon Nanotube (CNT) Materials market?
5. Who are the key producers in the global Carbon Nanotube (CNT) Materials market?
6. What are the growth factors driving the market demand?

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