

Global Single-Walled Carbon Nanotubes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single-Walled Carbon Nanotubes market size is expected to reach \$ 5603 million by 2032, rising at a market growth of 48.3% CAGR during the forecast period (2026-2032).

Single-walled carbon nanotubes (SWCNTs) are seamless hollow tubular structures formed by the curling of a single layer of graphene, typically with diameters of 1–2 nanometers and lengths reaching the micrometer scale. Their unique one-dimensional nanostructure endows them with exceptional mechanical properties (elastic modulus up to 1 TPa), electrical properties (conductivity 100 times higher than copper), and thermal properties (thermal conductivity exceeding 3000 W/m²K), earning them the title of “King of Nanomaterials.”

Production technology: The mainstream method is high-temperature chemical vapor deposition (CVD), which requires precise control of catalysts (such as iron and cobalt) and reaction conditions to achieve high-purity mass production. Russian OCSiAl has achieved large-scale production through its proprietary “Super Growth” technology, while Chinese companies such as Tiannai Technology and Guizhou Xicheng have overcome technical bottlenecks using fluidized bed CVD and third-generation horizontal furnace CVD equipment.

Core Characteristics:

Conductive Network Advantage: Adding a small amount (0.1%-1%) to lithium-ion batteries forms a long-range conductive network, significantly enhancing battery energy density (up to 400-500 Wh/kg) and cycle life (over 2,000 cycles).

Biocompatibility: Its high specific surface area (1,300 m²/g) makes it suitable for medical applications such as brain-computer interfaces, including non-invasive EEG signal acquisition.

Semiconductor Application Potential: It can replace copper wires in chip manufacturing processes below 3 nm, improving thermal conductivity by 41% and helping to address computational power bottlenecks.

Global production of single-walled carbon nanotubes reached 234 tons in 2024, with an average price of USD 1.25 million per ton.

Application area distribution:

Lithium-ion battery sector: Over 80% share, primarily used in power batteries (electric vehicles, eVTOL aircraft) and industrial energy storage (AI server BBU, renewable energy ESS). The increasing penetration of silicon-based anodes (global demand of 2,000 tons by 2025) further drives SWCNT demand, with a single-walled tube powder addition ratio of 2%-4%.

Emerging applications: Rapid expansion in fields such as semiconductor packaging (TSMC's 3nm process), flexible electronics (wearable devices), and brain-computer interfaces (Neuralink technology upgrades), with non-battery applications expected to account for over 30% by 2030.

Technological breakthroughs and industrialization:

Scalable production: Tianai Technology's "450-ton-per-year SWCNT project" is being developed in three phases, with the first phase expected to commence production in 2025; Guizhou Xicheng's "4,700-ton-per-year SWCNT/AWCNT project" fills a domestic gap and is projected to achieve full production capacity by 2026.

Dispersion Technology Optimization: Carbon Peak Technology has developed the third-generation horizontal furnace CVD equipment, reducing the constant temperature time by 50% and achieving a purity of over 98%; Tianai Technology has achieved uniform dispersion of single-walled tubes in electrode slurry through its self-developed dispersant.

Semiconductor application deployment: TSMC's 3nm process adopts SWCNT chip interconnects, while Huawei and SMIC have initiated testing for processes below 2nm,

with conductivity 10 times higher than copper.

This report studies the global Single-Walled Carbon Nanotubes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Walled Carbon Nanotubes 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 Single-Walled Carbon Nanotubes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-Walled Carbon Nanotubes total production and demand, 2021-2032, (Kg)

Global Single-Walled Carbon Nanotubes total production value, 2021-2032, (USD Million)

Global Single-Walled Carbon Nanotubes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kg), (based on production site)

Global Single-Walled Carbon Nanotubes consumption by region & country, CAGR, 2021-2032 & (Kg)

U.S. VS China: Single-Walled Carbon Nanotubes domestic production, consumption, key domestic manufacturers and share

Global Single-Walled Carbon Nanotubes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kg)

Global Single-Walled Carbon Nanotubes production by Purity, production, value, CAGR, 2021-2032, (USD Million) & (Kg)

Global Single-Walled Carbon Nanotubes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kg)

This report profiles key players in the global Single-Walled Carbon Nanotubes 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 OCSiAl, Zeon Nano Technology, Nano-C, Inc, Dowstone Technology, Raymor, Chasm Advanced Materials, Timesnano, Cnano Technology, NoPo Nanotechnologies, Meijo Nano Carbon Co. Ltd., 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 Single-Walled Carbon Nanotubes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kg) and average price (USD/Kg) by manufacturer, by Purity, 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 Single-Walled Carbon Nanotubes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-Walled Carbon Nanotubes Market, Segmentation by Purity:

Above 80%

Above 90%

Above 95%

Others

Global Single-Walled Carbon Nanotubes Market, Segmentation by Manufacturing Method:

CVD

Arc Discharge

Others

Global Single-Walled Carbon Nanotubes Market, Segmentation by Structure:

Armchair SWCNTs

Zigzag SWCNTs

Chiral SWCNTs

Global Single-Walled Carbon Nanotubes Market, Segmentation by Application:

Lithium Battery

Conductive Plastic

Others

Companies Profiled:

OCSiAl

Zeon Nano Technology

Nano-C, Inc

Dowstone Technology

Raymor

Chasm Advanced Materials

Timesnano

Cnano Technology

NoPo Nanotechnologies

Meijo Nano Carbon Co. Ltd.

Key Questions Answered:

1. How big is the global Single-Walled Carbon Nanotubes market?
2. What is the demand of the global Single-Walled Carbon Nanotubes market?
3. What is the year over year growth of the global Single-Walled Carbon Nanotubes market?
4. What is the production and production value of the global Single-Walled Carbon Nanotubes market?
5. Who are the key producers in the global Single-Walled Carbon Nanotubes market?
6. What are the growth factors driving the market demand?

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