

Global Single-Walled Carbon Nanotubes Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Single-Walled Carbon Nanotubes market size was valued at US\$ 364 million in 2025 and is forecast to a readjusted size of US\$ 5603 million by 2032 with a CAGR of 48.3% during review period.

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 is a detailed and comprehensive analysis for global Single-Walled Carbon Nanotubes market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Purity and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Single-Walled Carbon Nanotubes market size and forecasts, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (USD/Kg), 2021-2032

Global Single-Walled Carbon Nanotubes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (USD/Kg), 2021-2032

Global Single-Walled Carbon Nanotubes market size and forecasts, by Purity and by Application, in consumption value (\$ Million), sales quantity (Kg), and average selling prices (USD/Kg), 2021-2032

Global Single-Walled Carbon Nanotubes market shares of main players, shipments in revenue (\$ Million), sales quantity (Kg), and ASP (USD/Kg), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Single-Walled Carbon Nanotubes

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Single-Walled Carbon Nanotubes market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Single-Walled Carbon Nanotubes market is split by Purity and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Purity, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Purity

Above 80%

Above 90%

Above 95%

Others

Market segment by Manufacturing Method

CVD

Arc Discharge

Others

Market segment by Structure

Armchair SWCNTs

Zigzag SWCNTs

Chiral SWCNTs

Market segment by Application

Lithium Battery

Conductive Plastic

Others

Major players covered

OCSiAl

Zeon Nano Technology

Nano-C, Inc

Dowstone Technology

Raymor

Chasm Advanced Materials

Timesnano

Cnano Technology

NoPo Nanotechnologies

Meijo Nano Carbon Co. Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Single-Walled Carbon Nanotubes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Single-Walled Carbon Nanotubes, with price, sales quantity, revenue, and global market share of Single-Walled Carbon Nanotubes from 2021 to 2026.

Chapter 3, the Single-Walled Carbon Nanotubes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Single-Walled Carbon Nanotubes breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Purity and by Application, with sales market share and growth rate by Purity, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Single-Walled Carbon Nanotubes market forecast, by regions, by Purity, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Single-Walled Carbon Nanotubes.

Chapter 14 and 15, to describe Single-Walled Carbon Nanotubes sales channel, distributors, customers, research findings and conclusion.

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