

Global Single-walled Carbon Nanotubes (SWCNTs) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single-walled Carbon Nanotubes (SWCNTs) market size is expected to reach \$ 1692 million by 2032, rising at a market growth of 27.1% CAGR during the forecast period (2026-2032).

Single-walled carbon nanotubes (SWCNTs) are nanotube materials made from a single layer of graphite, typically with a diameter of 0.8–2 nm, an extremely high aspect ratio, and excellent electrical, mechanical, thermal, and chemical stability. SWCNTs possess extremely high electrical and thermal conductivity, allowing them to form continuous conductive networks at very low concentrations. Therefore, they are widely used in high-performance conductive pastes, electrode materials, nanocomposites, and high-end fields such as flexible electronics and sensors. Single-walled carbon nanotubes are usually prepared using advanced processes (such as HiPCO and Super-Growth), and have strict requirements for purity, dispersion, and structural control. In 2025, global shipments of single-walled carbon nanotubes (SWCNTs) were approximately 250.8 tons, with an average price of approximately US\$1.2142 million per ton and a gross profit margin of 40%-50%.

As a representative of high-end carbon nanotubes, single-walled carbon nanotubes have extremely high market value and technological barriers. SWCNTs can significantly enhance product performance and added value in applications such as conductive pastes, lithium-ion battery electrodes, nanocomposites, flexible electronics, and high-performance sensors. With the rapid growth in demand for new energy vehicles, energy storage systems, flexible displays, printed electronics, and high-end composite materials, the SWCNT market is expanding rapidly. Despite high production costs and significant technological barriers, single-walled carbon nanotubes have become an important part of the global advanced materials industry chain due to their irreplaceable

role in high-performance conductive and functionalized composite materials.

This report studies the global Single-walled Carbon Nanotubes (SWCNTs) production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Single-walled Carbon Nanotubes (SWCNTs) total production and demand, 2021-2032, (Tons)

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

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

Global Single-walled Carbon Nanotubes (SWCNTs) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Single-walled Carbon Nanotubes (SWCNTs) domestic production, consumption, key domestic manufacturers and share

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

Global Single-walled Carbon Nanotubes (SWCNTs) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Single-walled Carbon Nanotubes (SWCNTs) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Single-walled Carbon Nanotubes (SWCNTs) 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 Zeon Corporation, OCSiAl, Nanocyl, SUSN Nano (Cabot Corporation), Novarials Corporation, Resonac, Chasm Advanced Materials, Advanced Nano Products Co., Ltd (ANP), Raymor(NanoIntegris), Meijo Nano, 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 (SWCNTs) 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 Single-walled Carbon Nanotubes (SWCNTs) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-walled Carbon Nanotubes (SWCNTs) Market, Segmentation by Type:

98%-99.9%

95%-98%

90%-95%

Global Single-walled Carbon Nanotubes (SWCNTs) Market, Segmentation by SSA:

500–700 m²/g

700–1,500 m²/g

Others

Global Single-walled Carbon Nanotubes (SWCNTs) Market, Segmentation by CNT Diameter:

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