

# Global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) market size is expected to reach \$ 1603 million by 2032, rising at a market growth of 28.1% CAGR during the forecast period (2026-2032).

High-purity single-walled carbon nanotubes (Purity More Than 95%) are nanotube materials made from single-layer graphite rolls, processed with refined techniques to achieve high carbon purity and high dispersibility. This material possesses excellent electrical conductivity, thermal conductivity, mechanical properties, and chemical stability, and can form a continuous conductive network. High-purity SWCNT powder is commonly used as a core raw material for high-end applications such as conductive pastes, lithium-ion battery electrodes, nanocomposites, flexible electronics, and high-performance sensors. Its purity and dispersibility directly affect the performance and stability of the final product. In 2025, global shipments of High-purity Single-walled Carbon Nanotubes (Purity More Than 95%) were approximately 160.3 tons, with an average price of approximately US\$1.7142 million per ton and a gross profit margin of 40%-50%.

High-purity single-walled carbon nanotubes represent the high-end product in the SWCNT market. While possessing high technological barriers and high production costs, they are irreplaceable in fields such as conductive pastes, lithium-ion battery electrodes, flexible electronics, sensors, and nanocomposites. With the rapid development of new energy vehicles, energy storage systems, flexible displays, and printed electronics, the market demand for high-purity SWCNTs is growing rapidly. Although its share is lower than the overall single-wall CNT market, its high unit price and high added value make it a significant contributor to the total market.

This report studies the global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) 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 High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) total production and demand, 2021-2032, (Tons)

Global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) total production value, 2021-2032, (USD Million)

Global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) domestic production, consumption, key domestic manufacturers and share

Global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) 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, Novarials Corporation, Resonac, Chasm Advanced Materials, Raymor(NanoIntegris), Meijo Nano, Nano-C, Jiangsu Cnano Technology 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 High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) 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 High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) Market, Segmentation by Type:

98%-99.9%

95%-98%

Global High Purity Single-walled Carbon Nanotubes (Purity More Than 95%) Market,  
Segmentation by SSA:

500–700 m<sup>2</sup>/g

700–1,500 m<sup>2</sup>/g

Others

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