

Global Single-Wall Carbon Nanotube Market Size study with COVID-19 Impact, by Type (Armchair Form Carbon Nanotube, Zigzag Form Carbon Nanotube, Chiral Form Carbon Nanotube), by Application (Electronics & Semiconductor, Energy, Aerospace & Defense, Automotive, Others) and Regional Forecasts 2020-2027

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Abstracts

Global Single-Wall Carbon Nanotube Market is valued approximately at USD XX billion in 2019 and is anticipated to grow with a growth rate of more than XX % over the forecast period 2020-2027. Single-wall Carbon Nanotubes (SWCNTs) due to higher electrical conductivity are used across various industry verticals such as aerospace and defense, energy, sporting goods, electrical and electronics, automotive, healthcare and many more. In electrical and electronics industry carbon nanotubes are used application such as displays, conductors, photovoltaic sensors, semiconductor devices and others. Growing acceptance of carbon nanotubes over Steel as it is six times lighter than Steel where is 100 times stronger which reduces the overall weight of applications used in. Single-wall Carbon Nanotubes are also used as a multifunctional additive and bases during innovation of new products with required properties. Due to Covid-19 Pandemic, the manufacturing sector has observed deterioration across various industry verticals. Due to lockdowns imposed across various countries and labor safety issues companies and factories are non-functional. This has hampered supply and demand of products in the market. However, Single-wall Carbon Nanotubes are rolled up of graphene sheet and so they are thinnest, strongest, both pliable and transparent due to single layer of carbon atoms whereas are super conductors of electricity and heat. Due to this reason, SWCNTs are researched to be implemented in solar cell and implement in electricity production from solar energy. These are also used in LCD, LED, touch screen and

hydrogen fuel cells used in power cars and potential replacement of Carbon Nanotubes over other materials drive the market growth. However, higher costs of Single-wall Carbon Nanotubes is the major restraining factor which impedes the growth of the market over the forecast period of 2020-2027.

The regional analysis of global Single-Wall Carbon Nanotube market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World. Asia Pacific is the leading/significant region across the world rise in adoption of Carbon Nanotubes in electrical and electronics, automotive, energy and other industries. Whereas, Asia-Pacific is also anticipated to exhibit highest growth rate / CAGR over the forecast period 2020-2027. Factors such as development in automotive sectors and advance innovations in electrical and electronics industry would create lucrative growth prospects for the Single-Wall Carbon Nanotube market across Asia-Pacific region.

Major market player included in this report are:

Arkema S.A. (France)
Arry International Group LTD. (China)
Carbon Solutions Inc. (US)
Cheap Tubes Inc. (US)
CNT Co., Ltd. (Korea)
Ocsial LLC (US)
Hanwha Chemical Corp. (South Korea)
Nano-C Inc. (US)
Cnano Technology Ltd (US)
Toray International Group Limited (Japan)
Showa Denko K.K. (Japan)
Continental Carbon Company (US)

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:
By Type:

Armchair Form Carbon Nanotube

Zigzag Form Carbon Nanotube

Chiral Form Carbon Nanotube

By Application:

Electronics & Semiconductor

Energy

Aerospace & Defense

Automotive

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2017, 2018

Base year – 2019

Forecast period – 2020 to 2027

Target Audience of the Global Single-Wall Carbon Nanotube Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

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Arry International Group LTD. (China)
Carbon Solutions Inc. (US)
Cheap Tubes Inc. (US)
CNT Co., Ltd. (Korea)
Ocsial LLC (US)
Hanwha Chemical Corp. (South Korea)
Nano-C Inc. (US)
Cnano Technology Ltd (US)
Toray International Group Limited (Japan)
Showa Denko K.K. (Japan)
Continental Carbon Company (US)

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