

# **Global Carbon Nanotubes Market - SWCNTS, MWCNTS, Technology, Applications, Trends & Outlook (2011 - 2016)**

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## **Abstracts**

Carbon nanotubes are minuscule allotropes of carbon having sizes to the scale of nanometers. Their physical, electrical, and thermal properties make them special material for a number of applications. CNTs have very high tensile strength, excellent electrical conductivity, and the ability to bear high working temperatures. However, notwithstanding some challenges like high cost of production and integration issues, the CNT application markets have made great breakthroughs and enabled nanotechnology to become one of the most sought-after technologies to have made a huge impact on a wide range of applications such as electronics, medicine, aerospace, defense, automotives, energy, construction, etc. With some of the big producers stepping up their production capacities, the prices of CNTs are bound to come down and this will induce a spiral effect on the application areas; thereby pushing up the demand for CNTs. With extensive research regarding CNT being carried out by almost all the leading companies in the above mentioned application areas, the challenges for integration of CNT will eventually loosen out and in a nutshell, it would be said that carbon nanotubes are the hottest nanomaterial in the time to come.

All the major types of carbon nanotubes such as single-walled and multi-walled have been covered in depth in this report. Their production and pricing trends and forecast have been included. As this report focuses mainly on the major application areas of carbon nanotubes, we have included all the current possible application areas such as electronics and semiconductors, chemicals and polymers, batteries and capacitors, fuel cells, medical applications, advanced materials, defense, and others.

We have further divided these major applications areas into sub-segments that include field emission displays, sensors, hydrogen storage, lithium-ion batteries, fuel cell, solar

PV cells, drug delivery, sporting goods, airframe and components, etc. and analyzed these markets with their trends and forecasts. Each of the macro and micro markets include detailed analysis of the market trends and forecast, affecting factors, and their competitive landscape.

We have carried out an in-depth geographic analysis for each of the markets and their sub-segments covering the major regional markets; viz. North America, Europe, Asia Pacific, and ROW.

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