

Global Nitrogen-doped Carbon Nanotube(N-CNTs) 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 Nitrogen-doped Carbon Nanotube(N-CNTs) market size was valued at US\$ 84.54 million in 2025 and is forecast to a readjusted size of US\$ 224 million by 2032 with a CAGR of 15.1% during review period.

Nitrogen-doped carbon nanotubes (N-CNTs) can be produced through five main methods; chemical vapor deposition (CVD), high-temperature and high-pressure reactions, gas-solid reaction of amorphous carbon with NH₃ at high temperature, solid reaction, and solvothermal synthesis.

Nitrogen doping plays a pivotal role in lithium storage, as it creates defects in the CNT walls allowing for Li ions to diffuse into interwall space. It also increases capacity by providing more favorable bind of N-doped sites. N-CNTs are also much more reactive to metal oxide nanoparticle deposition which can further enhance storage capacity, especially in anode materials for Li-ion batteries.

This report is a detailed and comprehensive analysis for global Nitrogen-doped Carbon Nanotube(N-CNTs) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type 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 Nitrogen-doped Carbon Nanotube(N-CNTs) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nitrogen-doped Carbon Nanotube(N-CNTs) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nitrogen-doped Carbon Nanotube(N-CNTs) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Nitrogen-doped Carbon Nanotube(N-CNTs) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Nitrogen-doped Carbon Nanotube(N-CNTs)

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 Nitrogen-doped Carbon Nanotube(N-CNTs) 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 ACS Material, US Research Nanomaterials Inc, Otto Chemie Pvt Ltd, Nanochemazone, Nanografi Nano Technology, Jiangsu Xfnano Materials, Hongwu Enterprise Group, Xi'an Qiyue Biotechnology Co., Ltd., Markanda Nanoscience (OPC) Private Limited, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Nitrogen-doped Carbon Nanotube(N-CNTs) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, 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 Type

0.98

0.99

Others

Market segment by Application

Catalysts

Lithium-battery Anodes

Nanotube Composites

Supercapacitor

Others

Major players covered

ACS Material

US Research Nanomaterials Inc

Otto Chemie Pvt Ltd

Nanochemazone

Nanografi Nano Technology

Jiangsu Xfnano Materials

Hongwu Enterprise Group

Xi'an Qiyue Biotechnology Co., Ltd.

Markanda Nanoscience (OPC) Private Limited

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 Nitrogen-doped Carbon Nanotube(N-CNTs) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nitrogen-doped Carbon Nanotube(N-CNTs), with price, sales quantity, revenue, and global market share of Nitrogen-doped Carbon Nanotube(N-CNTs) from 2021 to 2026.

Chapter 3, the Nitrogen-doped Carbon Nanotube(N-CNTs) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Nitrogen-doped Carbon Nanotube(N-CNTs) 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 Type and by Application, with sales market share and growth rate by Type, 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 Nitrogen-doped Carbon Nanotube(N-CNTs) market forecast, by regions, by Type, 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 Nitrogen-doped Carbon Nanotube(N-CNTs).

Chapter 14 and 15, to describe Nitrogen-doped Carbon Nanotube(N-CNTs) sales channel, distributors, customers, research findings and conclusion.

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