

Global Hydroxylated Multi-Walled Carbon Nanotubes 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 Hydroxylated Multi-Walled Carbon Nanotubes market size was valued at US\$ 13.02 million in 2025 and is forecast to a readjusted size of US\$ 30.12 million by 2032 with a CAGR of 12.7% during review period.

In 2025, global sales volume of Hydroxylated Multi-Walled Carbon Nanotubes was approximately 55 tons, with an average global market price of around USD 230/kg. The gross margin of major producers in the industry was generally in the range of 35%?55%.

Hydroxylated Multi-Walled Carbon Nanotubes are functionalized carbon nanomaterials based on multi-walled carbon nanotubes, with hydroxyl groups introduced through surface oxidation, hydroxylation modification, or post-treatment processes. They are commonly referred to as MWCNT-OH. The product retains the high electrical conductivity, mechanical strength, specific surface area, and aspect ratio of multi-walled carbon nanotubes, while the presence of ?OH groups on the surface improves hydrophilicity, dispersion in polar systems, and interfacial compatibility with resin, coating, rubber, and other matrix materials compared with unmodified multi-walled carbon nanotubes.

The upstream materials mainly include multi-walled carbon nanotubes, oxidants, acid and alkali reagents, dispersants, solvents, and purification materials. The midstream process involves purification, surface hydroxylation modification, washing, drying, classification, and dispersion treatment to produce powder products, which can be further processed into dispersions. Downstream applications mainly include polymer

composite materials, coating and ink materials, energy storage electrode materials, and adsorption and separation materials. Product value is mainly concentrated in hydroxyl content control, structural integrity retention, dispersion stability, and batch-to-batch consistency.

This report is a detailed and comprehensive analysis for global Hydroxylated Multi-Walled Carbon Nanotubes 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 Hydroxylated Multi-Walled Carbon Nanotubes market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Hydroxylated Multi-Walled Carbon Nanotubes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Hydroxylated Multi-Walled Carbon Nanotubes market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

Global Hydroxylated Multi-Walled Carbon Nanotubes market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/kg), 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 Hydroxylated Multi-Walled Carbon Nanotubes

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 Hydroxylated Multi-Walled Carbon Nanotubes 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 US Research Nanomaterials, Nanografi Nanotechnology, AD-Nano Technologies, imesnano, Beijing DK Nano, Suzhou Tanfeng Graphene, Hongwu Enterprise Group, Dongguan SAT Nano Technology Material, etc.

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

Market Segmentation

Hydroxylated Multi-Walled Carbon Nanotubes 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

Low Hydroxyl Type (%oO%1 wt%)

Medium Hydroxyl Type (1?3 wt%)

High Hydroxyl Type (>3 wt%)

Market segment by Tube Length

Short Tube Type (%oO%10 ?m)

Standard Length Type (10?30 ?m)

Long Tube Type (>30 ?m)

Market segment by Application

Polymer Composite Material

Coating and Ink Material

Energy Storage Electrode Material

Adsorption and Separation Material

Other

Major players covered

US Research Nanomaterials

Nanografi Nanotechnology

AD-Nano Technologies

imesnano

Beijing DK Nano

Suzhou Tanfeng Graphene

Hongwu Enterprise Group

Dongguan SAT Nano Technology Material

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 Hydroxylated Multi-Walled Carbon Nanotubes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydroxylated Multi-Walled Carbon Nanotubes, with price, sales quantity, revenue, and global market share of Hydroxylated Multi-Walled Carbon Nanotubes from 2021 to 2026.

Chapter 3, the Hydroxylated Multi-Walled Carbon Nanotubes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydroxylated Multi-Walled Carbon Nanotubes 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 Hydroxylated Multi-Walled Carbon Nanotubes 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 Hydroxylated Multi-Walled Carbon Nanotubes.

Chapter 14 and 15, to describe Hydroxylated Multi-Walled Carbon Nanotubes sales

channel, distributors, customers, research findings and conclusion.

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