

Global Hydroxylated Multi-Walled Carbon Nanotubes Market Growth 2026-2032

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Abstracts

The global Hydroxylated Multi-Walled Carbon Nanotubes market size is predicted to grow from US\$ 12.37 million in 2025 to US\$ 29.86 million in 2032; it is expected to grow at a CAGR of 13.5% from 2026 to 2032.

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.

United States market for Hydroxylated Multi-Walled Carbon Nanotubes is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Hydroxylated Multi-Walled Carbon Nanotubes is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Hydroxylated Multi-Walled Carbon Nanotubes is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Hydroxylated Multi-Walled Carbon Nanotubes players cover US Research Nanomaterials, Nanografi Nanotechnology, AD-Nano Technologies, imesnano, Beijing DK Nano, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Hydroxylated Multi-Walled Carbon Nanotubes Industry Forecast" looks at past sales and reviews total world Hydroxylated Multi-Walled Carbon Nanotubes sales in 2025, providing a comprehensive analysis by region and market sector of projected Hydroxylated Multi-Walled Carbon Nanotubes sales for 2026 through 2032. With Hydroxylated Multi-Walled Carbon Nanotubes sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hydroxylated Multi-Walled Carbon Nanotubes industry.

This Insight Report provides a comprehensive analysis of the global Hydroxylated Multi-Walled Carbon Nanotubes landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Hydroxylated Multi-Walled Carbon Nanotubes portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hydroxylated Multi-Walled Carbon Nanotubes market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Hydroxylated Multi-Walled Carbon Nanotubes and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Hydroxylated Multi-Walled Carbon Nanotubes.

This report presents a comprehensive overview, market shares, and growth opportunities of Hydroxylated Multi-Walled Carbon Nanotubes market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Low Hydroxyl Type (3 wt%)

Segmentation by Tube Length:

Short Tube Type (30 ?m)

Segmentation by Application:

Polymer Composite Material

Coating and Ink Material

Energy Storage Electrode Material

Adsorption and Separation Material

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

US Research Nanomaterials

Nanografi Nanotechnology

AD-Nano Technologies

imesnano

Beijing DK Nano

Suzhou Tanfeng Graphene

Hongwu Enterprise Group

Dongguan SAT Nano Technology Material

Key Questions Addressed in this Report

What is the 10-year outlook for the global Hydroxylated Multi-Walled Carbon Nanotubes market?

What factors are driving Hydroxylated Multi-Walled Carbon Nanotubes market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Hydroxylated Multi-Walled Carbon Nanotubes market opportunities vary by end market size?

How does Hydroxylated Multi-Walled Carbon Nanotubes break out by Type, by Application?

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