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Global Hydroxylated Multi-Walled Carbon Nanotubes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydroxylated Multi-Walled Carbon Nanotubes market size is expected to reach $ 100 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

Hydroxylated Multi-Walled Carbon Nanotubes are functionalized multi-walled carbon nanotubes in which hydroxyl groups are introduced onto the nanotube surface and/or edge sites through controlled surface treatment while retaining the characteristic multi-wall tubular carbon structure. Hydroxyl functionalization increases surface polarity and interfacial activity, improving dispersion and compatibility with polymers, coating systems, electrode materials, solvents, and other matrices compared with untreated MWCNTs. Commercial products are typically supplied as powders and are differentiated primarily by hydroxyl content, outer diameter, tube length, purity, specific surface area, and related structural parameters. This study focuses on commercially supplied hydroxyl-functionalized MWCNT materials and analyzes the market by hydroxyl content, outer diameter, and tube length. Major downstream material systems include polymer composites, coatings and inks, energy storage electrode materials, adsorption and separation materials, and other specialty functional materials.

Key Findings

Global sales volume of Hydroxylated Multi-Walled Carbon Nanotubes is estimated at approximately 350 tons in 2025

2025 Average Enterprise Selling Price: Approximately US$140/kg

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Typical gross margins of major manufacturers are approximately 35%–50%

Hydroxyl content outer diameter and tube length are key commercial specification parameters

Polymer composites remain an important downstream application direction for hydroxyl-functionalized MWCNTs

Market Trends

The Hydroxylated Multi-Walled Carbon Nanotubes market is evolving from standardized laboratory-grade functionalized nanotubes toward more application-specific industrial materials with tighter control over hydroxyl content, nanotube dimensions, purity, dispersion behavior, and batch consistency. Customers increasingly evaluate products according to actual compatibility with target matrices rather than relying only on nominal nanotube purity. In polymer composites and coating systems, suppliers are placing greater emphasis on interfacial compatibility and stable dispersion, while energy storage applications increasingly require a balance between conductive network formation, surface functionality, and electrochemical stability. Industrial customers are also requesting narrower dimensional distributions and more reproducible surface chemistry because variations in outer diameter, tube length, and hydroxyl content can materially affect viscosity, dispersion, electrical conductivity, mechanical reinforcement, and adsorption behavior. The long-term direction is therefore toward specification-controlled and application-matched functionalized MWCNT products rather than undifferentiated hydroxylated nanotube powders.

Market Dynamics

Drivers

Market demand is supported by the growing use of advanced conductive, reinforcing, adsorption, and interface-engineered materials across polymer composites, coatings, batteries, supercapacitors, and separation systems. Hydroxyl groups improve the interaction of MWCNTs with polar resins, solvents, binders, and inorganic phases, allowing nanotubes to be incorporated more effectively into complex formulations. Continued expansion of high-performance composites and functional electrode materials also creates demand for nanotubes capable of combining electrical

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conductivity with mechanical reinforcement and surface activity. At the same time, the availability of industrial-scale MWCNT production provides a broader raw-material base for downstream hydroxyl functionalization.

Restraints

Hydroxylation adds processing steps and cost compared with untreated MWCNTs, while excessive oxidation or aggressive surface treatment can introduce defects that adversely affect the intrinsic electrical and mechanical properties of the nanotubes. Dispersion remains highly dependent on the specific resin, solvent, binder, or electrolyte system, meaning that a product performing well in one formulation may not deliver equivalent results in another. High prices relative to conventional conductive carbon materials also restrict adoption in cost-sensitive applications, particularly where carbon black, graphite, or untreated CNTs can meet performance requirements.

Opportunities

The strongest opportunities are in application-specific hydroxylated MWCNT grades optimized for particular matrices and processing conditions. Controlled hydroxyl content can improve compatibility with epoxy, polyurethane, other polar polymer systems, coating binders, and hybrid inorganic-organic composites. Energy storage applications create additional opportunities for functionalized nanotubes used in conductive networks, composite electrodes, and surface-engineered electrode structures. Adsorption and separation applications may also benefit from the combination of nanotube surface area, tunable surface chemistry, and structural stability. Manufacturers capable of supplying consistent industrial batches and providing surface chemistry and dispersion customization can capture higher-value applications.

Challenges

The key challenge is maintaining a reproducible balance between surface functionality and the structural integrity of the MWCNT. Hydroxyl content is not the only factor determining product performance; outer diameter, tube length, defect density, residual catalyst content, surface area, agglomeration state, and dispersion history can all affect downstream behavior. Different manufacturers may also use different characterization methods for functional-group content, making direct product comparison difficult. Industrial-scale commercialization therefore requires tighter specification control,

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reliable analytical methods, batch consistency, and application-specific qualification. Customers must also manage potential changes in viscosity, conductivity thresholds, processing windows, and final composite properties when switching between suppliers or grades.

Industry Chain Analysis

The upstream segment mainly includes carbon feedstocks, catalysts, carrier gases, chemical reagents for purification and surface treatment, and equipment used for carbon nanotube growth, purification, oxidation, drying, classification, and quality control. Multi-walled carbon nanotubes are generally produced first and then subjected to controlled purification and hydroxyl functionalization. Surface-treatment conditions determine hydroxyl content, defect formation, surface polarity, and dispersion behavior, while subsequent washing, drying, deagglomeration, and classification affect purity and commercial consistency. The value added in Hydroxylated Multi-Walled Carbon Nanotubes therefore comes not only from CNT production but also from controlled functionalization and specification management.

The downstream chain covers formulators and manufacturers of polymer composites, coatings and inks, energy storage electrode materials, adsorption and separation materials, and other functional materials. Based on the current market model, the average enterprise selling price is approximately US$140,000 per ton and typical gross margins are approximately 35%–50%. Economics vary significantly by purity, hydroxyl content, dimensional control, batch size, customization requirements, and qualification level. Industrial grades produced in larger batches generally carry lower unit prices than highly specified small-batch products, while customized surface-functionalized grades can command substantial premiums.

Segment Insights

By hydroxyl content, products at or below 2 wt% provide relatively moderate surface modification and can retain more of the intrinsic conductive structure of the nanotube. Grades above 2 wt% to 5 wt% provide stronger surface functionality and represent an important balance between interfacial compatibility and nanotube properties for composite and formulation applications. Products above 5 wt% target applications requiring higher surface polarity or stronger interaction with matrix materials, although formulation performance must be evaluated together with structural defects and dispersion characteristics.

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Outer diameter and tube length create another important segmentation framework. Smaller-diameter nanotubes provide higher specific surface area and can form effective networks at relatively low loading, while larger-diameter products may offer processing and structural advantages in selected applications. Shorter nanotubes generally disperse more easily and can reduce viscosity and entanglement, whereas longer nanotubes can provide stronger conductive or reinforcing networks. Consequently, commercial selection increasingly involves matching hydroxyl content, diameter, and length simultaneously rather than choosing products according to a single parameter.

Downstream Market Opportunities

Polymer composites represent an important application platform because hydroxyl functionalization can improve nanotube interaction with resin and polymer matrices, supporting conductive, reinforcing, thermal, and multifunctional composite formulations. Coatings and inks benefit from improved wetting and dispersion in selected liquid systems, while energy storage electrode materials use functionalized nanotubes to construct conductive networks and enhance composite electrode structures. Adsorption and separation materials provide another differentiated opportunity where surface chemistry and nanoscale morphology can be used to improve interaction with target substances. Higher-value opportunities are concentrated in applications that require controlled surface functionality and cannot obtain equivalent performance from untreated MWCNTs.

Regional Insights

Asia-Pacific is a major production and application region for Hydroxylated Multi-Walled Carbon Nanotubes, supported by established carbon nanotube manufacturing capabilities and substantial demand from polymers, coatings, electronics, batteries, and advanced materials. China has developed a broad nanotube supply base covering multiple diameter, length, and functionalization specifications, providing advantages in manufacturing scale and product customization. Regional market development is increasingly moving beyond research-scale supply toward industrial qualification and batch delivery.

North America and Europe remain important markets for high-specification nanomaterials, particularly in specialty composites, advanced coatings, energy storage research, and functional material development. Suppliers in these regions tend to

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compete through technical specifications, application development, quality consistency, and specialized product portfolios. Regional differences therefore reflect both manufacturing economics and downstream market structure, with cost-oriented industrial supply and high-value specialty applications developing in parallel.

Competitive Landscape Analysis

The Hydroxylated Multi-Walled Carbon Nanotubes market remains fragmented and technically differentiated, with competition occurring across nanotube manufacturing, purification, hydroxyl functionalization, dimensional control, and customized surface treatment. Large-scale MWCNT producers can benefit from raw-material integration and manufacturing economics, while specialist nanomaterial companies compete through functionalization expertise, broader specification ranges, small-batch flexibility, and application customization. Because the global market remains relatively small in tonnage but carries a comparatively high average selling price, product consistency and technical service are important competitive variables. Competitive advantage increasingly depends on the ability to control hydroxyl content without excessive structural damage, provide stable diameter and length distributions, maintain low impurity levels, and demonstrate reproducible performance in customer formulations. As industrial applications expand, competition is expected to shift further from catalog-based nanomaterial supply toward qualified, application-specific functionalized CNT products.

Report Scope

This report studies the global Hydroxylated Multi-Walled Carbon Nanotubes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydroxylated Multi-Walled Carbon Nanotubes and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hydroxylated Multi-Walled Carbon Nanotubes that contribute to its increasing demand across many markets.

Highlights and key features of the study

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Global Hydroxylated Multi-Walled Carbon Nanotubes total production and demand, 2021-2032, (Tons)

Global Hydroxylated Multi-Walled Carbon Nanotubes total production value, 2021-2032, (USD Million)

Global Hydroxylated Multi-Walled Carbon Nanotubes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Hydroxylated Multi-Walled Carbon Nanotubes consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Hydroxylated Multi-Walled Carbon Nanotubes domestic production, consumption, key domestic manufacturers and share

Global Hydroxylated Multi-Walled Carbon Nanotubes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Hydroxylated Multi-Walled Carbon Nanotubes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Hydroxylated Multi-Walled Carbon Nanotubes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Hydroxylated Multi-Walled Carbon Nanotubes market based on the following parameters - company overview, production, value, 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, Nanostructured & Amorphous Materials (NanoAmor), ACS Material, Chengdu Zhongke Times Nano Technology, Beijing DK Nano, Suzhou Tanfeng Graphene, Guangzhou Hongwu Material Technology, Dongguan SAT Nano Technology Material, etc.

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

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hydroxylated Multi-Walled Carbon Nanotubes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Hydroxylated Multi-Walled Carbon Nanotubes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Hydroxylated Multi-Walled Carbon Nanotubes Market, Segmentation by Type:

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Low Hydroxyl Content (?2 wt%)

Medium Hydroxyl Content (>2–5 wt%)

High Hydroxyl Content (>5 wt%)

Global Hydroxylated Multi-Walled Carbon Nanotubes Market, Segmentation by Outer Diameter:

?10 nm

>10–30 nm

>30 nm

Global Hydroxylated Multi-Walled Carbon Nanotubes Market, Segmentation by Tube Length:

?2 ?m

>2–10 ?m

>10 ?m

Global Hydroxylated Multi-Walled Carbon Nanotubes Market, Segmentation by Application:

Polymer Composite Material

Coating and Ink Material

Energy Storage Electrode Material

Adsorption and Separation Material

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Other

Companies Profiled:

US Research Nanomaterials

Nanografi Nanotechnology

AD-Nano Technologies

Nanostructured & Amorphous Materials (NanoAmor)

ACS Material

Chengdu Zhongke Times Nano Technology

Beijing DK Nano

Suzhou Tanfeng Graphene

Guangzhou Hongwu Material Technology

Dongguan SAT Nano Technology Material

Key Questions Answered

1. How big is the global Hydroxylated Multi-Walled Carbon Nanotubes market?
2. What is the demand of the global Hydroxylated Multi-Walled Carbon Nanotubes market?
3. What is the year over year growth of the global Hydroxylated Multi-Walled Carbon Nanotubes market?
4. What is the total value of the global Hydroxylated Multi-Walled Carbon Nanotubes market?
5. Who are the Major Players in the global Hydroxylated Multi-Walled Carbon Nanotubes market?
6. What are the growth factors driving the market demand?

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