

Multi-Walled Carbon Nanotubes (MWNTs) Market, Global Outlook and Forecast 2022-2028

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Abstracts

MWCNTs consist of multiple carbon nanotubes nested within one another. The number of nanotubes that are within a MWCNT can vary - from as little as 3, to over 20. At the same time the diameter of both the internal nanotube and the external most nanotube can vary - from 2nm for the innermost tube, to over 50nm for the outer wall. Just like single-walled nanotubes, they exhibit exceptional electrical, thermal, and mechanical properties. However, due to the increased number of walls, there is a higher likelihood of defects being present compared to single-walled nanotubes - resulting in reduced performances. The outer walls of MWCNTs can be modified with functional groups such as hydroxides, carboxylic acids, or amides to produce additional functionality (e.g. improved dispersability, or the ability to attach binding sites for use in biomedical applications).

MWCNTs can be produced in high quantities and are easier to purify (in comparison to single walled and double-walled nanotubes). This makes their production costs significantly lower, and is a reason for their adoption in multiple areas of scientific research. Applications of MWCNTs have been mainly focused around their use in composites where they can be used as an additive. either to: i) improve the mechanical properties of a material, or ii) to improve the electrical properties of a material. Aside from being used as additives, functionalised MWCNTs are being utilised in a variety of medical and biotechnological applications. This is due to their high biocompatibility of carbon nanotubes and the ability to attach specific proteins to functional groups.

This report contains market size and forecasts of Multi-Walled Carbon Nanotubes (MWNTs) in global, including the following market information:

Global Multi-Walled Carbon Nanotubes (MWNTs) Market Revenue, 2017-2022,

2023-2028, (\$ millions)

Global Multi-Walled Carbon Nanotubes (MWNTs) Market Sales, 2017-2022, 2023-2028, (MT)

Global top five Multi-Walled Carbon Nanotubes (MWNTs) companies in 2021 (%)

The global Multi-Walled Carbon Nanotubes (MWNTs) market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

? 90% Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Multi-Walled Carbon Nanotubes (MWNTs) include OCSiAl, Nanocyl, Arkema, Cnano Technology, Hanwha Chemical, Raymor, Klean Commodities, Thomas Swan and Kumho Petrochemical, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Multi-Walled Carbon Nanotubes (MWNTs) manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Multi-Walled Carbon Nanotubes (MWNTs) Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (MT)

Global Multi-Walled Carbon Nanotubes (MWNTs) Market Segment Percentages, by Type, 2021 (%)

? 90%

? 95%

? 99%

Others

Global Multi-Walled Carbon Nanotubes (MWNTs) Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (MT)

Global Multi-Walled Carbon Nanotubes (MWNTs) Market Segment Percentages, by Application, 2021 (%)

Plastic & Composites

Energy

Electronics

Biomedicine

Others

Global Multi-Walled Carbon Nanotubes (MWNTs) Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (MT)

Global Multi-Walled Carbon Nanotubes (MWNTs) Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Multi-Walled Carbon Nanotubes (MWNTs) revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Multi-Walled Carbon Nanotubes (MWNTs) revenues share in global market, 2021 (%)

Key companies Multi-Walled Carbon Nanotubes (MWNTs) sales in global market, 2017-2022 (Estimated), (MT)

Key companies Multi-Walled Carbon Nanotubes (MWNTs) sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

OCSiAl

Nanocyl

Arkema

Cnano Technology

Hanwha Chemical

Raymor

Klean Commodities

Thomas Swan

Kumho Petrochemical

Timesnano

Ad-Nano Technologies

Meijo Nano Carbon

CHASM Advanced Materials

Nanoshel LLC

Glontech (ONEX Company)

Arry International

Beijing Dk Nano Technology

Shenzhen Dynanonic

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