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The Global Market for Carbon Nanotubes 2020

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Abstracts

Multi-walled carbon nanotubes (MWCNTs)-enhanced products are commercially available in vartiety of markets. MWCNT arrays, sheets, flakes, films and yarns have found applications in consumer electronics, power cables, batteries, polymer composites, coatings, aerospace, sensors, heaters, filters and biomedicine.

The market for MWCNTs has witnessed a decline in large-scale production; however there still remains global demand of >2000 tons per annum with increased demand over the past 12 months in composites, automotive and aerospace applications and especially as battery additives in Asia. MWCNTs are used as conductive agents in lithium ion secondary batteries, with demand increasing greatly in markets for EVs and PHEVs.

Large-scale industrial production of single-walled carbon nanotubes (SWCNTs) has been initiated, promising new market opportunities in transparent conductive films, transistors, sensors and memory devices. Market volume for SWCNTs will increase in the coming years due to multi-volume production methods coming on stream and reduction in price. This will allow for penetration in high volume markets such as polymer composites, conductive coatings, antistatic coatings, rubber and tires, batteries, construction materials, asphalt, power cables and plastics.

Report contents:

Global production capacities for MWCNTS and SWCNTs, historical and forecast to 2030.

Unique market assessment tools to assess the viability of graphene, by market, and application.

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Assessment of carbon nanotubes by market including applications, key benefits, market megatrends, market drivers for carbon nanotubes, technology drawbacks, competing materials, potential consumption of nanotubes to 2030 and main players.

Market drivers, trends and challenges, by target markets.

In-depth market assessment of opportunities for carbon nanotubes including potential revenues, pricing, most likely applications and market challenges.

Market analysis-Carbon nanotubes in:

3D printing.

Adhesives.

Aerospace and aviation.

Automotive.

Coatings.

Composites.

Electronics (Flexible electronics, conductive films and displays; conductive inks; transistors, integrated circuites; memory devices; photonics)

Energy storage, conversion and exploration (Batteries, supercapacitors, photovoltaics, fuel cells and hydrogen storage)

Filtration and separation.

Life sciences and medical.

Power cables.

Lubricants.

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Oil and gas.

Rubber and tires.

Sensors.

Smart textiles and apparel.

Thermal interface materials (TIM)

Analysis of opportunities, by applications.

Full list of technology collaborations, strategic partnerships, and M&As in the global carbon nanotubes market.

In-depth company profiles of over 100 producers and product developers.

Predictions for key growth areas and opportunities.

Analysis of the market for boron nitride nantotubes.

In-depth profiles of carbon nanotubes producers including products, production capacities, manufacturing methods, collaborations, licensing, customers and target markets. Companies profiled include Arkema, BNNT LLC, C2CNT LLC, Carbonics, Inc., DexMat, Inc., OCSIAL, Fuji Pigment Co., Ltd., GSI Creos Corporation, Koatsu Gas Kogyo Co. Ltd., Korea Kumho Petrochemical Co., Ltd., Murata Machinery Ltd., Toray Industries, Inc., Zeon Corporation and many more.

Detailed forecasts for key growth areas, opportunities and demand.

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