Single-Walled Carbon Nanotube Market To Reach A Value Of ~US$ 5 Bn Mn By 2027

Single-walled Carbon Nanotube Market - Global Industry Analysis, Size, Share, Growth, Trends, and Forecast, 2019 - 2027

Single-walled Carbon Nanotube Market

WILMINGTON, DELAWARE, UNITED STATES, June 30, 2022 /EINPresswire.com/ -- The global single-walled carbon nanotube market was valued at ~US$ 130 Mn in 2018, and is anticipated to expand at a CAGR of ~52%.
Increase in the demand for single-walled carbon nanotubes as an EMI-shielding material is one of the major factors driving the global single-walled carbon nanotube market.

Asia Pacific accounted for a significant share, in terms of consumption, of the single-walled carbon nanotube market.

Single-walled Carbon Nanotube Market: Key Drivers

Increase in the demand for EMI-shielding materials for use in applications such as personal computers and mobile communication housings, GPS devices, aerospace components, etc., is likely to enhance the demand for single-walled carbon nanotubes.
Composites made using single-walled carbon nanotubes functioning as a filler and a suitable polymer, as matrix can effectively prevent the passage of electromagnetic radiation into electronic devices and protect them from damage.

Get a PDF brochure for Industrial Insights and business Intelligence- https://www.transparencymarketresearch.com/sample/sample.php?flag=B&rep_id=73935

The EMI shielding of an electronic device reduces the coupling of radio waves, electromagnetic, and electrostatic fields. Common applications where single-walled carbon nanotubes are used as EMI-shielding materials include computing, telecommunications, automotive, consumer electronics, aerospace & defense, medical, etc.

Technological advancements in the medical and aerospace & defense sectors are anticipated to drive the demand for single-walled carbon nanotubes as EMI-shield materials.

The emergence of battery storage systems such as lead acid, lithium-ion, sodium ion, and flow batteries has fueled the expansion of the SWCNT market. Single-walled carbon nanotubes are preferred in battery storage applications, as they offer superior conductivity at ultra-low concentrations, thus allowing the amount of active material in the battery electrode to be at a higher concentration.

Most advanced batteries face the issue of dendrite formation. However, with the introduction of single-walled carbon nanotubes, the risk of dendrite formation can be reduced.

The rising demand for energy in countries such as China and India is anticipated to expand the energy storage industry, and consequently, the demand for single-walled carbon nanotubes for energy storage applications.

Make an Enquiry before Buying
–https://www.transparencymarketresearch.com/sample/sample.php?flag=EB&rep_id=73935

Renewable energy policies initiated by various governments and advancements in electric vehicle production in emerging economies are likely to enhance the demand for single-walled carbon nanotubes for energy storage applications.

Use of Single-walled Carbon Nanotubes in Automotive Industry

Single-walled carbon nanotubes, when used in automotive applications, enhance fuel efficiency, owing to their low weight. In the automotive industry, single-walled carbon nanotubes find application in wear-resistant coatings, thermal barrier coatings, dirt-repellent coatings, scratch-resistant paint, displays or LEDs, nano-adhesives, biocide coatings, batteries & fuel cells, and anti-reflective coatings.

Superior electrical, mechanical, and thermal properties of SWCNTs make them ideal for use in electronic devices. They can be easily dispersed in plastic materials so as to improve their mechanical properties in such a way that substantial weight reduction can be achieved to have greater fuel efficiency.

Asia Pacific to Dominate Global Single-walled Carbon Nanotube Market

Increased government spending on nanomaterials is likely to enhance the production of single-walled carbon nanotubes in the region. Moreover, rapid urbanization and technological advancements are estimated to create attractive opportunities for the single-walled carbon nanotube market in Asia Pacific during the forecast period.

Key manufacturers such as Zeon Nanotechnology Ltd, Meijo Nanocarbon Co., Ltd, etc., are based in the Asia Pacific region.

Request for Covid-19 Impact Analysis - https://www.transparencymarketresearch.com/sample/sample.php?flag=covid19&rep_id=73935

Moderate to High Degree of Competition among Established Players

The global single-walled carbon nanotube market is highly consolidated, with single manufacturer OCSiAl accounting for more than 90% of the global SWCNT market. The company has adopted marketing strategies such as mergers, acquisitions, partnerships, and product launches in order to maintain its leading market position.

The market penetration of single-walled carbon nanotubes is considered low, and several manufacturers are striving to produce single-walled carbon nanotubes at low cost. Moreover, manufacturers are focusing on producing high quality products. In November 2015, Zeon completed the construction of its carbon nanotubes production plant in Tokuyama, Japan.

Key players profiled in the report on the global single-walled carbon nanotube market include OCSiAl, Zeon Nanotechnology Co., Ltd, Thomas Swan & Co., Ltd, Meijo Nanocarbon Co, Ltd, etc.

More Trending Reports by Transparency Market Research –

Calcium Carbonate Market-https://www.transparencymarketresearch.com/calcium-carbonate-market.html

Ink Solvents Market-https://www.transparencymarketresearch.com/ink-solvents-market.html

Paving Materials Market-https://www.transparencymarketresearch.com/europe-canada-paving-materials-market.html

Detergents Market-https://www.transparencymarketresearch.com/detergents-market.html

Lipids Market-https://www.transparencymarketresearch.com/lipids-market.html

Sterols Market-https://www.transparencymarketresearch.com/sterol-market.html

Superabsorbent Polymer Market-
https://www.transparencymarketresearch.com/superabsorbent-polymer-market.html

Bio-based Phenol Market-https://www.transparencymarketresearch.com/bio-based-phenol-market.html

About Transparency Market Research

Transparency Market Research is a global market research firm that offers the latest market research reports and business consulting services. Our exclusive blend of quantitative forecasting and trends analysis provides forward-looking insights for thousands of decision makers. Our experienced team of Analysts, Researchers, and Consultants use proprietary data sources and various tools & techniques to gather and analyze information.

Our data repository is continuously updated and revised by a team of research experts, so that it always reflects the latest trends and information. With a broad research and analysis capability, Transparency Market Research employs rigorous primary and secondary research techniques in developing distinctive data sets and research material for business reports.

For More Research Insights on Leading Industries, Visit our YouTube channel -
https://www.youtube.com/channel/UC8e-z-g23-TdDMuODiL8BKQ

Rohit Bhisey
TMR
+1 415-520-1050
email us here
