Editorial on Global Markets of Materials

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Abstract

The global core materials market for composites is expected to raise from USD 1.17 Billion in 2016 to USD 1.92 Billion by 2022, at a CAGR of 8.77% from 2017 to 2022. The usage of core materials is becoming vital in wind energy, aerospace, marine, transportation, construction and other industries. The leading manufacturers of core materials are Evonik Industries AG (Germany), Armacell International S.A (Luxembourg), Plascore Incorporated (U.S.), Euro-Composites S.A (Luxembourg), Diab Group (Sweden), 3A Composites (Switzerland), Gurit Holding AG (Switzerland), Hexcel Corporation (U.S), and The Gill Corporation (U.S.). These manufacturers implemented several organic and inorganic developmental approaches. The global aerospace materials market is likely to reach USD 25.80 Billion by 2022, at a CAGR of 6.9% between 2017 and 2022. Increased passenger transportation is expected to develop the aircraft production industry that initiate the demand for aerospace materials. The leading aerospace material companies are Cytec Solvay Group (Belgium), Constellium N.V. (Netherlands), Alcoa Corporation (U.S.), Du Pont (U.S.), Teijin Limited (Japan), ATI Metals (U.S.), Toray Industries, Inc. (Japan),

The met material market is projected to be valued at USD 4,634.8 Million by 2025, at a CAGR of 63.1% from 2017 to 2025. The increasing concern for variety in design functionalities, anti-glare coating applications, and invisibility cloak for stealth aircraft are the important aspects to drive the growth of met material market. The LED materials market is expected to reach USD 12.55 Billion by 2021, at a CAGR of 9.9% between 2016 and 2021. The rising demand of LEDs in general and automotive lighting drives the LED materials market. The base year for the study is 2015, whereas the estimated period is from 2016 to 2021.

The locomotive lightweight material market is likely to grow at a CAGR of 13.06% between 2016 and 2021 and achieve a market size of USD 110.42 Billion by 2021. The significant drivers of the market are the rigorous emission and fuel economy regulations, coupled with the targets on weight reduction, by the regulatory authorities and the rise in sales of electric vehicles in the emerging countries. The advanced materials & technologies in electronics denotes the new or modification to the current materials & technologies to attain superior performance or efficiency. The market for the topmost advanced materials & technologies in electronics is observing high growth due to the rising end-use applications, technological advances, and the high demand of these technologies from both the industrialized and developing regions.

The silicon carbide (SiC) market size is likely to be esteemed at USD 617.4 Million by 2022, at a CAGR of 17.4% from 2017 to 2022. The features such as the capacity of SiC devices in semiconductor to perform at high temperature and high voltage and power, growing demand for motor devices, ability to decrease the overall system size, and rising applications of SiC in radio frequency (RF) devices and cellular base station are projected to drive the progress of silicon carbide market. The soft magnetic materials market is expected to achieve USD 42.14 Billion globally in 2026, at a CAGR of 8.1%, between 2016 and 2026. Soft magnetic materials offer good permeability and help in the decrease of eddy current losses. Companies are capitalizing in R&D for the growth and building of high quality soft magnetic materials. The increasing automotive end-user industry is one of the foremost drivers for the soft magnetic materials market. The soft magnetic materials are tremendously useful in several applications such as motors, transformers, and alternators. The global 3D printing materials market is predictable to raise from USD 530.1 Million in 2016 to USD 1,409.5 Million by 2021, at a CAGR of 21.60% throughout the same period. The high progress of the market is owing to the adoption of 3D printing technology in Germany, U.S., and developing countries. The rising aerospace & defense, medical & dental, and automotive industries in these countries are driving the 3D printing materials market.