Graphite refers to a carbon element in its crystalline form with the atoms arranged in a hexagonal structure. It is the most suitable form of carbon under standard conditions. When amorphous carbon materials are processed under high temperature, it gives rise to synthetic graphite, which is a man-made substance. The amorphous carbon is derived from petroleum, coal, natural or synthetic organic materials. Synthetic graphite finds its application as a carbon raiser additive in iron and steel.

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MARKET DYNAMICS

High purity levels of synthetic graphite and high demand for electric vehicles, drive the growth of the synthetic graphite market. Increasing the use of graphite in the wind energy industry is another factor driving the growth of the synthetic graphite market. However, High costs compared to natural graphite and stringent environmental regulations, hampers the fruitful development of the synthetic graphite market. The rising demand for lithium batteries used in the production of smartphones and incrementing use of graphite in green technologies is anticipated to bode well the growth of synthetic graphite market in the years to come.

MARKET SEGMENTATION

The global synthetic graphite market is segmented on the basis of form, product type, manufacturing process, sales channel, application, end use industry and geography. On the basis of form the market classify into electrode, block, powder and fiber. As per product type the market is
divided into primary and secondary. As per manufacturing process, the market is broken into isostatic, molded, expanded and extruded. The market in terms of sales channel is classified into direct sales and distributors. As per application the market is bifurcated into cathode & furnace, high temperature applications, polysilicon production, lubricants, foundry and others. Finally, in terms of end use industry the market is broken into metal, aerospace & defense, automotive, photovoltaic, electrical & electronics, industrial and others.

REGIONAL FRAMEWORK

The report provides a detailed overview of the industry including both qualitative and quantitative information. It provides an overview and forecast of the market based on various segments. It also provides market size and forecast estimates from the year 2018 to 2027 with respect to five major regions, namely; North America, Europe, Asia-Pacific (APAC), Middle East and Africa (MEA) and South America. The synthetic graphite market by each region is later sub-segmented by respective countries and segments. The report covers the analysis and forecast of 18 countries globally along with the current trend and opportunities prevailing in the region.

The report analyzes factors affecting the synthetic graphite market from both demand and supply side and further evaluates market dynamics affecting the market during the forecast period i.e., drivers, restraints, opportunities, and future trend. The report also provides exhaustive PEST analysis for all five regions namely; North America, Europe, APAC, MEA, and South America after evaluating political, economic, social and technological factors affecting the synthetic graphite market in these regions.

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The Insight Partners is a one stop industry research provider of actionable intelligence. We help our clients in getting solutions to their research requirements through our syndicated and consulting research services. We are a specialist in Technology, Healthcare, Manufacturing, Automotive and Defense.

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