

Global Graphite Materials Market by Form (Electrode, Block, Powder, Carbon Fiber, Flake, Amorphous, and Vein and Others), by Application Type (Electrode, Refractory, Lubricants, Foundry, Battery, Frictional Products, Parts & Components, and Others), by End Use Industry (Metal, Aerospace & Defense, Automotive, Photovoltaic, Electricals & Electronics, Industrial, and Others), by Sales Channel (Direct Sales and Distributors), and by Region (North America, Europe, Asia-Pacific, and Rest of the World), Trend, Forecast, Competitive Analysis, and Growth Opportunity: 2016-2021

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Abstracts

This is the ONGOING report. If ordered it could be delivered in 2-3 weeks timeframe.

This report, from Stratview Research, studies the global graphite market over the period 2010 to 2021. The report provides detailed insights on the market dynamics to enable informed business decision making and growth strategy formulation based on the opportunities present in the market.

The Global Graphite Market: Highlights

Graphite has two principal types: Synthetic Graphite and Natural Graphite. They have their own set of applications and generally do not compete with each other. They have

no relationship with each other except the name graphite.

Synthetic graphite is a man-made substance manufactured by high temperature treatment (2,500 to 3,000 degree Celsius) of amorphous carbon materials. Synthetic graphite has four types; electrode, block, powder, and fiber. The largest type of the synthetic graphite is graphite electrode that is predominately used in producing electric arc furnaces for melting steel & iron and producing alloys.

Synthetic graphite blocks are produced from isostatic, extruded, die molded, and vibration molded process. Synthetic blocks are used in a large variety of applications ranging from polysilicon production for photovoltaic industry to high temperature reactors in nuclear industry. Most of the leading companies are heavily investing in China to meet the local demand. Despite significant capacity expansion by local as well as international players in the last ten years, some portion of synthetic graphite demand is met through import.

Carbon fiber offers high specific strength, light weighting, good fatigue strength, and excellent corrosion resistance than the competing materials, which makes it a preferred material in the high performance applications. High focus on fuel efficiency, low carbon emission, weight reduction, comfort and passenger safety, and government regulations, such as CAF? standards are driving the increasing penetration of carbon composite structures in aerospace & defense, automotive, and wind energy segments. Carbon fiber is likely to experience double digit growth in the next five years.

The second type, natural graphite, is a form of carbon where atoms are arranged in the layers that have weak bonds between each other. It is subdivided into three types: Amorphous, Flake, and Vein. Natural graphite production is mainly from small underground mines in China. China is the world's largest producer of natural graphite for both amorphous and flake graphite, and accounts for more than 65% of total global natural graphite production. Approximately 70% of Chinese production is amorphous graphite while 30% is natural flake. The majority of Chinese graphite mines are small and many are seasonal. Other countries with good natural graphite production include Brazil, North Korea, Canada, India, Romania, Ukraine, Mexico, Madagascar, Austria, Turkey, and Sri Lanka. Sri Lanka is the only country that produces high quality vein graphite.

Currently, refractory is the largest application of natural graphite. However, it has continuously lost market share during 2011 – 2015 and is expected to lose further in the next five years. The decline is due to the reduced demand of refractories from steel

industry and slower economic growth in China.

Battery is currently the hot topic in the graphite market. All of the major graphite producers are discussing about the growth potential of graphite in the batteries for the automotive and other industries, such as consumer goods. Battery is an application where both natural and synthetic graphite are used and truly compete with each other. There will be a continuous shift in graphite market away from amorphous natural graphite towards flake and synthetic graphite as emerging applications like batteries typically require large flake and high-purity grades.

The graphite market offers a robust growth opportunity during the forecast period of 2016 to 2021. Synthetic graphite market is likely to remain the largest graphite type during the forecast period, driven by demand of electrodes, blocks and carbon fibers. Natural graphite is expected to experience an overall higher growth than synthetic graphite in the next five years.

During the forecast period, refractory and electrodes are expected to remain the largest applications for natural graphite and synthetic graphite markets respectively. Battery is expected to experience the fastest growth with double digit growth rate in the next five years.

Asia-Pacific is expected to remain the growth engine of the global graphite market. Emerging economies, such as China and India will drive both synthetic as well as natural graphite market in the next five years.

The key graphite manufactures are SGL Carbon SE, Tokai Carbon, Toray Industries, Toho Tenax, Mitsubishi Rayon, GrafTech International Holdings Inc, South Graphite, Nacional de Grafite, Mersen Group, Graphite India, Nippon Graphite Industries, Asbury Graphite Mills, and Focus Graphite. New product development, regional expansion, and capacity expansion are the key strategies adopted by the key players to gain competitive edge in the market.

Research Methodology

This report offers high quality insights and is the outcome of detailed research methodology comprising extensive secondary research, rigorous primary interviews with industry stakeholders and validation and triangulation with Stratview Research's internal database and statistical tools. More than 1,000 authenticated secondary sources, such as company annual reports, fact book, press release, journals, investor

presentation, white papers, patents, and articles have been leveraged to gather the data. More than 20 detailed primary interviews with the market players across the value chain in the all four regions and industry experts have been executed to obtain both the qualitative and quantitative insights.

Report Features

This report provides market intelligence in the most comprehensive way. The report structure has been kept such that it offers maximum business value. It provides critical insights on the market dynamics and will enable strategic decision making for the existing market players as well as those willing to enter the market. The following are the key features of the report:

Market structure: Overview, industry life cycle analysis, supply chain analysis

Market environment analysis: Growth drivers and constraints, Porter's five forces analysis, SWOT analysis

Market trend and forecast analysis

Market segment trend and forecast

Competitive landscape and dynamics: Market share, product portfolio, product launches, etc.

Attractive market segments and associated growth opportunities

Emerging trends

Strategic growth opportunities for the existing and new players

Key success factors

The global graphite market is segmented into the following categories.

Global Graphite Market by Form:

Synthetic Graphite

Synthetic Electrode

Synthetic Block

Synthetic Carbon Fiber

Synthetic Powder

Natural Graphite

Flake Graphite

Amorphous Graphite

Vein and Others Graphite

Global Graphite Market by Applications:

Electrode

Refractory

Lubricants

Foundry

Battery

Frictional Products

Parts & Components

Others

Global Graphite Market by End Use Industry:

Metal Industry

Aerospace & Defense

Automotive

Photovoltaic Industry

Electrical & Electronic

Industrial

Others

Global Graphite Market by Sales Channel:

Direct Sales

Distributors

Global Graphite Market by Region:

North America

Europe

Asia – Pacific

Rest of the World

Report Customization Options

With this detailed report, Stratview Research offers one of the following free customization options to our respectable clients:

Company Profiling

Global Graphite Materials Market by Form (Electrode, Block, Powder, Carbon Fiber, Flake, Amorphous, and Vein a...

Detailed profiling of additional market players (up to 3)

SWOT analysis of key players (up to 3)

Geographic Analysis

Further segmentation of North America into USA, Canada, and Mexico

Regional Segmentation

Current market segmentation of any one of the regions by application

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- 11.20. Triton Minerals Ltd.

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