

# Graphite: Technologies and Global Markets

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## Abstracts

### Report Scope:

This report provides an updated review of the graphite market, focusing on its types, applications and end-use industries.

The scope of the report covers the four application segments of graphite—refractory and metallurgy, batteries and other conductive materials, lubricants and industrial, and others—analyzed by application and geography.

Refractory and metallurgy markets cover those applications that make use of the high temperature stability of graphite. Electrical applications are those that tap into the high electrical conductivity of purer grades of graphite. Lubricants and industrial markets make use of graphite's strength properties, lubricity and radiation absorption. For these segments, BCC Research reports the status and changes happening in the markets.

The graphite market can also be segmented into natural and synthetic graphite markets. One of the focus areas is the development of natural graphite mining and application, driven largely by the lithium-ion battery markets that are fundamentally changing the structure of the graphite industry.

On the basis of end-use industry, the market is segmented into metal industry, automotive, electronics and others. Graphite finds its major use in the steel industry in the form graphite electrodes. This section of the report will provide detailed descriptions of graphite used in such industries.

In terms of geographic segmentation of the market, this report provides detailed statistics of trade data. Trade statistics for graphite exports and imports for various countries are analyzed in detail, and the past growth rates are provided. Geographical

segmentation for numerous application markets is provided.

The report will also have a separate section discussing the impact of the COVID-19 pandemic on the graphite market at the global level. The section will cover the pandemic's impact on the demand and supply of graphite, and the resulting changes in its prices (during and post lockdown) across various regions.

The report also features a separate section covering the impact of Russia's invasion of Ukraine. This section provides a detailed analysis of the impact of this conflict on the global graphite market

A later chapter reviews in detail the applications for graphite including those in well-established markets such as electrodes, cathodes, carbon brushes, alkaline batteries, pencils and friction, as well as upcoming and faster growing application such as lithium-ion batteries. Each application segment is reviewed in detail to show each industry's market statistics; expected growth rates; technological changes; mergers, acquisitions and sales of companies if any; as well as any unique characteristics of the industry.

Patents and intellectual property issues relating to the global graphite market are detailed in a separate chapter. Here, a review of the number of patents granted by the U.S. Patent Office is analyzed chronologically. In another section of this chapter, all individual players actively developing technologies are discussed. The companies that are at the forefront of such technology and application development, such as Tesla, are specifically analyzed in detail.

The last chapter of the report covers individual companies that are active in the global graphite market. This chapter covers not only the nature and size of each of the operating companies, but also provides financial data for each company wherever available. Address and contact details for the market participants are also provided.

The market size and estimations featured in this report are provided in terms of volume (Kilotons) and value (\$ Millions). 2021 serves as the base year, and market forecasts are given for the period from 2022 to 2027. Regional level market size, with respect to types and applications will also be provided. The impacts of the COVID-19 pandemic and the Russia-Ukraine war are factored into the estimates of market size.

Report Includes:

111 data tables and 50 additional tables

A brief overview and up-to-date analysis of the global markets for graphite technologies

Analyses of the global market trends, with market revenue data for 2021, estimates for 2022, and projections of compound annual growth rates (CAGRs) through 2027

Estimation of the actual market size for global graphite market in both value and volumetric terms, revenue forecast, and corresponding market share analysis based on type of graphite, application, end-use industry, and geographic region

In-depth information (facts and figures) concerning market drivers, market deterrents and other macroeconomic forces affecting the demand over the coming years (2022-2027)

Coverage of the technological, economic, and business considerations of the graphite technologies market, and its vendor landscape

Highlights of the upcoming market potential for graphite applications and related technologies, along with the industry value chain analysis, competitive environment, and latest developments

Updated information on the number of U.S. patents on graphite technologies for battery applications

Identification of the major stakeholders and analysis of the competitive landscape based on recent developments and segmental revenues

Descriptive company profiles of the leading global players, including Anson Resources, Mason Graphite Inc., Gratomic Inc. and Westwater Resources Inc.

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ITECH MINERALS LTD.

LEADING EDGE MATERIALS CORP.  
MASON GRAPHITE INC.  
NORTHERN GRAPHITE CORP.  
NOUVEAU MONDE GRAPHITE INC.  
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