

## Global Graphite Market – Types, Sub-Types and Applications

“The report reviews, analyzes and projects the global market for Graphite for the period 2017-2026. Graphite types market analyzed in this report include Natural Graphite (Amorphous Graphite and Flake Graphite) and Synthetic Graphite (Carbon Fibers, Graphite Blocks, Graphite Electrodes, Graphite Powder, Other Sub-Types). The market for Graphite applications analyzed in this report include Electrical Applications, Metallurgical Applications, Technical Applications and Other Applications.”

Published: April 2020

Report Code: CP089

Pages: 556

Charts: 623

Price: \$4500 Single User License, \$7200 Enterprise License

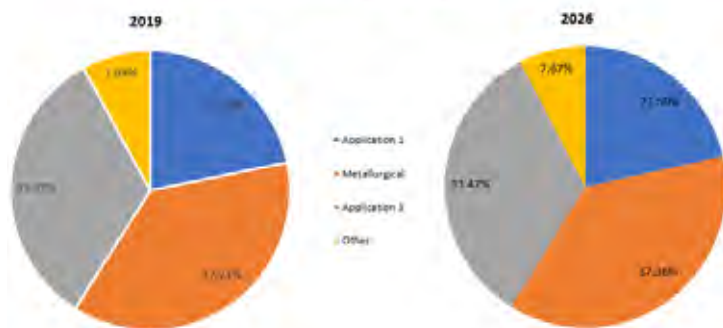
### Report Synopsis

Graphite is a naturally-occurring form of crystalline carbon that is a native mineral element found in metamorphic and igneous rocks. This element can be termed a mineral of extremes, in that it is outstandingly soft, cleaves with the minimum of pressure and has a very low specific gravity. Graphite also has exceptional resistance to heat and is virtually inert in contact with almost any other material. Due to these extreme properties, this versatile element finds a wide range of applications in the metallurgical and electrical sectors, among others.

The global outbreak of Covid-19 or the novel coronavirus has had a profound impact on the commodities market, of which graphite, too, is a part. China, the world’s largest producer of graphite accounting for over 70% of the global total, is where this pandemic reared its ugly head and impacted production to a large extent.

The global value market for Graphite by application is the largest for Metallurgy, estimated at US\$7.9 billion (37.3% share) in 2019, which is projected to reach US\$10.2 billion by 2026 at a CAGR of 3.8% between the two years. The global volume market for Graphite in Electrical Applications is likely to record the fastest similar period CAGR of 4.5% between 2019 and 2026.

Global Graphite Market Analysis by Application 2019-2026



Source: Industry Experts, Inc. <http://industry-experts.com>

### Research Findings & Coverage

- The Graphite global report analyzes the market with respect to product types/sub-types and applications
- Graphite market size is estimated/projected in this report by product type/sub-type and applications across all major countries

- Graphite Market Undergoing Rapid Transformation
- Graphene from Graphite: A Gamechanging Material with Enormous Potential
- Turbulent Times Challenging the Market for Graphite Electrodes
- 3D Mapping of Graphite Mines Being Done Using Underground Drones
- Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments
- Major companies profiled – 61
- The industry guide includes the contact details for 151 companies

### Product Outline

The market for product types of Graphite studied in this report comprise the following:

- Natural Graphite
  - Amorphous Graphite
  - Flake Graphite (further segmented based on Flake Size)
    - Jumbo Flakes
    - Large Flakes
    - Medium Flakes
    - Small Flakes
    - Fine Flakes
- Synthetic Graphite
  - Carbon Fibers
  - Graphite Blocks
  - Graphite Electrodes
  - Graphite Powder
  - Other Sub-Types

The report analyzes the market for the following applications of Graphite:

- Electrical Applications
- Metallurgical Applications
- Technical Applications
- Other Applications

### Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global Graphite market for the period 2017-2026 in terms of both market volume in Tons and value in US\$; and the compound annual growth rates (CAGRs) projected from 2019 through 2026.

### Geographic Coverage

- **North America** (The United States, Canada and Mexico)
- **Europe** (France, Germany, Italy, Russia, Spain, United Kingdom and Rest of Europe)
- **Asia-Pacific** (Australia, China, India, Japan, South Korea and Rest of Asia-Pacific)
- **South America** (Argentina, Brazil and Rest of South America)
- **Rest of World**

## SAMPLE COMPANY PROFILE

### CHINA CARBON GRAPHITE GROUP, INC.

787 Xicheng Wai Chengguantown Inner Mongolia, 013650  
 China  
 Phone: 86-626-589-6525  
 Website: www.chinacarboninc.com

#### Business Overview

Established in 1986, China Carbon Graphite Group Inc., (CCG) is one of the major players in manufacturing and distributing graphite products and solutions including carbon fiber products, plates, precision machined graphite parts/components electrodes, bipolar and other graphene related products. The products of the company are ideal in steel, energy storage, optical fiber, semiconductor metallurgy, non-ferrous, PV, and chemicals industries. The company holds a large customer base in Southeast Asia, Europe and America offering carbon industries with graphite solutions. The company is the largest wholesale supplier of fine grain and high purity graphite in China and one of the nation's top overall producers of carbon and graphite products. CCG include research and development departments and collaborates with Hunan University, which is the only university in China that offers a major in carbon studies, and Tsinghua University - China's most distinguished universities. The company operates subsidiary Royal Elite New Energy Science & Technology (Shanghai) Co., Ltd (Royal Elite).

#### Product Analysis

Product	Description
Single Layer Graphene	TDS-GRN1000P, TDS-GRN1000S, TDS-GRN1150, TDS-GRN2000, TDS-GRN2000S and TDS-GRN2150
Graphene Oxide	TDS-GRN-P50 (powder) and TDS-GRN-S50 (suspension)
Graphene Nano Argentum	TDS/ GRS-P50 (powder) and TDS/ GRS- S50 (suspension)
Fine Grain Graphite	Fine grain graphite is used for non ferrous metals smelting and in manufacturing molds. The product features high intensity, great vibration resistance, high-temperature resistance, good inoxidizability, low electrical resistivity, high purity, and easiness of precision machining.
High purity graphite	High purity graphite is used in metallurgy and the mechanical, aviation, electronic, atomic energy, chemical, nuclear energy and food industries and a variety of other fields. High-purity graphite is significant in coarse-grain graphite, nuclear graphite, space graphite, and fine-grain graphite (maximum grain diameter is less than 0.075mm).
Graphite Bipolar Plate	Graphite bipolar plate is a multifunctional component within the PEM fuel cell stack. This plate connects and separates the individual fuel cells in series to form a fuel cell stack with required voltage, aids uniform distribution of fuel gas and oxygen over the whole active surface area of the membrane-electrode assemblies (MEA), conducts electrical current from the anode of one cell to the cathode of the next.
Graphite Oxide	Graphite Oxide is dispersed in polar solvents with the help of ultrasound and is used in such as preparation of graphene; conductive graphene film; biochemical materials; transparent conductive coatings; nano electro devices; sensor and optics; catalyst and energy storage.

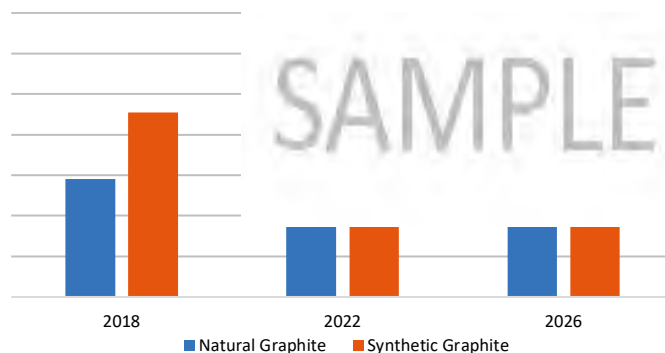
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## SAMPLE TABLE/CHART

Glance at 2019 Global Graphite Volume Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, South America and Rest of World



Asia-Pacific Graphite Market Analysis (2017-2026) by Type – Natural Graphite and Synthetic Graphite in Thousand Tons



## KEY PLAYERS PROFILED

- Advanced Metallurgic Group NV
- Asbury Carbons, Inc
- Beijing Great Wall Co., Ltd
- BGWI Carbon Graphite
- BTR New Material Group Co., Ltd.
- Canada Carbon, Inc.
- Ceylon Graphite Corporation
- China Carbon Graphite Group, Inc.
- Chotanagpur Graphite Pvt., Ltd
- Directa Plus S.p.A.
- Dominik Georg Luh Technogرافit GmbH
- Ecograph Limited
- Energoprom Group
- First Graphene Limited
- G6 Materials Corporation
- GES Middle East FZE
- Global Graphene Group
- Graftech International Ltd
- Graphenea S.A
- Graphexel Ltd
- Graphite India Limited
- Hensen Graphite Co., Ltd.
- Hexagon Energy Materials Limited
- Hitachi Chemical Co., Ltd.
- Imagine Intelligent Materials Pty Ltd.
- Imerys Graphite & Carbon
- Jiaozuo Zhongzhou Carbon Co., Ltd

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