

# The Global Market for Graphite to 2033

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## Abstracts

The graphite market is experiencing sustained growth due to the development of electric vehicles and green energy. Future energy needs will require supply of raw materials for the development of low-carbon technologies. Graphite is viewed as a critical material for decarbonizing transportation and heavy industry, resulting in high market growth in the coming years.

Graphite is used across multiple industries such as automotive, steel-making, powder metallurgy, fuel cells, and flame retardants. Graphite is the dominant active anode material used in lithium-ion batteries for electric vehicles (EV). Huge growth in demand for batteries in electric vehicles and energy storage systems has underpinned recent changes in the graphite market landscape.

Desirable properties of graphite include:

- good conductor of heat and electricity

- high regular stiffness and strength.

- maintains firmness and strength up to temperature more than 3600°C

- highly lubricating material with chemical inertness and corrosion resistance

Graphite is classified as natural and synthetic. Natural graphite is further classified into three principal types, crystalline small flake graphite (or flake graphite), crystalline vein or lump graphite, and amorphous graphite (very fine flake graphite), which have different physical properties, appearance, chemical composition, and impurities. Natural graphite can be mined in multiple countries. Synthetic graphite is produced from oil or

coal-based needle coke and is preferred in the production electric arc furnaces (EAFs) for steelmaking. Battery producers can use both synthetic and natural graphite as their raw material.

Report contents include:

In-depth analysis of the global market for graphite.

Analysis of types of graphite, markets, applications and producers.

Recent market activity, drivers and trends.

Graphite pricing, historical, current and forecasts.

Market tonnage data-historical (2010-2021), estimates for 2022, and projections to 2033.

Regional market analysis.

Market share analysis based on type of graphite, end-use industry, and geographic region.

Graphite market in China.

Profiles of 55 companies. Companies profiled include Heilongjiang Aoyu Energy, Qingdao Haida Graphite, Xincheng Graphite Co. Ltd, Tirupati Carbon & Graphite, Syrah Resources, GrafTech International, Showa Denko, SGL Group, Graphite India, Tokai Carbon, Leading Edge Materials, Nippon Carbon, SEC Carbon, First Graphene, Gratomic and Kaifeng Carbon.

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