



High Purity Graphite

High purity graphite is widely used in the industrial sectors. It can be manufactured into kinds of parts, vacuum furnace, single crystal furnace, graphite crucibles, heater, heat shield; precious metal alloys melting containers; casting of carbide graphite mold; EDM graphite; heat-resistant and anti-wear of axis; various high-temperature heating element and so on. We are professional manufacturer and supplier of **high purity graphite** in china. We have become a leading producer on the Chinese market thanks to our 30 years' experience. We can make the products according to the clients' samples and drawings.

The production process of **high purity graphite** is almost the same as that of graphite, but has certain features as follows:

1. The raw materials chosen must have a low ash concentration, e.g., when the petroleum coke is used as the raw material, its ash concentration must not exceed 0.15%.
2. It can be formed by extrusion or molding. It is usually made into fine grain structure of various shaped devices. Molding is more frequently adopted in making **high purity graphite** and HIP can be used, too.
3. The key step in making **high purity graphite** is to increase the purity of graphite. The temperature should be higher than making ordinary graphite electrodes and halogens gas is needed in the process of making graphite in other to decrease the concentration of impurities to around 150-200ppm or lower.
4. Some impurities may attach to the surface when the **high purity graphite** is being machined. The degree of contamination is decided by the working environment and the processing methods. To get rid of the contamination, purification can be done again.

Pyrolytic graphite needs to be smeared on the surface of certain **high purity graphite** to improve the antioxidant capability of the **high purity graphite**. **High purity graphite** and high strength graphite are the important products in the industry of carbon and graphite wares. To produce **high purity graphite** metal, semi-conductor materials, and rare metal, many parts made of **high purity graphite** are often used. **High purity graphite** can survive high temperature without adding the concentration of impurities.

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