



## Metal Impregnated Graphite

**Metal impregnated graphite** is a subject that has interested crystal scientists and material scientists for the recent several decades. Apart from two common allotropes (diamond and graphite), **Metal impregnated graphite** can have plenty of crystal classes, ranging from amorphous to highly crystalline graphite. The changes in the structure lead to the differences in the nature, thus the carbon cable materials can be applied to many areas. For example, graphite can work as a lubricant, make parts with high temperature and high strength. It can also be made into the integral electrodes for EAF steelmaking. After special chemical treatment, it can be used as flexible sealing materials. It is also used as intercalation compounds with a better conductivity than copper. Diamond is used as decoration thanks to its splendid luster and materials for grinding and cutting in the field of industry because of its unsurpassed hardness. Carbon black, which is nearly amorphous and has no capability of thermal conductivity, can act as insulation materials. Due to their ability of effectively slowing the neutrons, carbon fiber and graphite fiber are among the indispensable composite materials and raw materials in the development of aerospace. Therefore, **metal impregnated graphite** is widely used, claiming a broad prospect of development.

### Specifications of **Metal Impregnated Graphite**

Technical Parameters	Unit	M106D	M106P	M106K	M158K
Impregnated Materials	/	Antimony Alloy	Copper Alloy	Furan Resin	Furan Resin
Shore Hardness	HS	≥85	85	≥90	≥85
Porosity	%	<2.5	<3	<1.5	<1.5
Bulk Density	g/cm <sup>2</sup>	≥2.20	≥2.48	≥1.70	≥1.75
Compressive Strength	MPa	≥190	≥240	≥240	≥200
Bending Strength	MPa	≥65	≥70	≥65	≥60
Temperature Limit	°C	400	400	200	200

We are professional manufacturer and supplier of **metal impregnated graphite** in china. We have become a leading producer of **metal impregnated graphite** on the Chinese market over the past 30 years' experience. We offer many types of **metal impregnated graphite** for the clients' choice. We also keep researching and developing new **metal impregnated graphite** to satisfy our clients' needs. Our company has already passed the International Quality System Certification known as ISO9001:2000. We have clients in Europe, Middle East, South America and Southeast Asia. High quality products and the competitive price are the foundation and guarantee of our growing market and clients. We can manufacture the products according to the clients' demands. We are surely willing to offer you OEM (original equipment manufacture).

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