

Our graphite processing parts are a series of high quality graphite products made of high purity graphite materials, including graphite blocks, graphite crucibles, graphite rods (electrode bars, graphene) and graphite plates. We adopt the most advanced production technology and equipment to ensure the quality and stability of these products. Meanwhile, we also provide personalized custom services and produce customized products according to our customers' production needs.



## Features

- Extreme high thermal resistance and chemical resistance.
- High purity, high electrical and thermal conductivity.
- Excellent thermal shock and oxidization resistance.
- Good corrosion resistance and high temperature resistance.
- Good self-lubrication and chemical stability.
- High mechanical strength and can be used for precision machining.

These products have excellent high temperature resistance, corrosion resistance and electrical & thermal conductivity, and are widely used in power, metallurgy, chemical, mechanical and other industries.

## Application

Our graphite special-shaped parts can be used for various kinds of product machining.



Graphite blocks for graphite crucible production



Graphite rod for small graphite column production



Graphite block shape cutting

## Specification

Model	Density (g/cm <sup>3</sup> )	Particle Size (μm)	Specific Resistance (μΩ.m)	Porosity	Shore Hardness	Compressive Strength (MPa)	Flexural Strength (MPa)	CTE (× 10 <sup>-6</sup> °C <sup>-1</sup> )	Application
IS-2 (Isostatic)	1.76	20	15	20%	60	95	50	5.9	Heat exchanger/all kinds of machining
IS-3 (Isostatic)	1.85	10	12	13%	48	85	46	4.3	Sintering/all kinds of machining
IS-4 (Isostatic)	1.90	5	12	13%	48	85	46	4.3	Sintering/all kinds of machining
ED-1 (Isostatic)	1.83	9	12	12%	65	116	51	5.8	EDM, semi finishing/finishing
ED-2 (Isostatic)	1.81	7	12	12%	69	135	62	6.8	EDM, semi finishing/finishing
ED-3 (Isostatic)	1.90	5	12	12%	69	135	62	6.8	EDM finishing, ultra fine grain for low electrode wear
ED-4 (Isostatic)	1.92	3	11	11%	72	160	69	6.9	EDM finishing, lowest electrode wear
MD-1 (Molded)	1.78	25	12	20%	48	80	40	5	Sintering/all kinds of machining
MD-2 (Molded)	1.72	25	12	19%	45	60	32	5	Sintering/all kinds of machining
MD-3 (Molded)	1.56	25	12	23%	35	38	16	5	Sintering/all kinds of machining
GE-1	1.72	0.8/2.0	7.5	–	–	35	14	2.4	Electrode/rotors & shafts
GE-2	1.60	0.8/2.0	9.5	–	–	25	10	2.9	Electrode/rotors & shafts
MC-0 (Extruded)	1.75	0.8/2.0	9	–	–	40	18	2.5	Heat exchanger/heater
MC-1 (Extruded)	1.74	0.8/2.0	9	–	–	38	16	2.3	Heat exchanger/heater
MC-2 (Extruded)	1.70	0.8/2.0	10	–	–	29	12	2.3	Heat exchanger/heater
MC-3 (Extruded)	1.68	0.8/2.0	10	–	–	18	8	2.3	Heat exchanger/heater

# Graphite Electrode Waste

Graphite electrode wastes are residues generated in the process of machining or using graphite electrode. These scraps mainly come from 2 sources. One is the leftover scraps generated in the process of machining graphite electrodes, while the other is the wastes generated in the process of steelmaking process or the broken fragments generated during use.

Graphite electrode wastes can be recycled and reused. Generally, they are used to machine graphite products, such as graphite crucibles and graphite parts, or are crushed into powder for recycled electrode production.

## Features

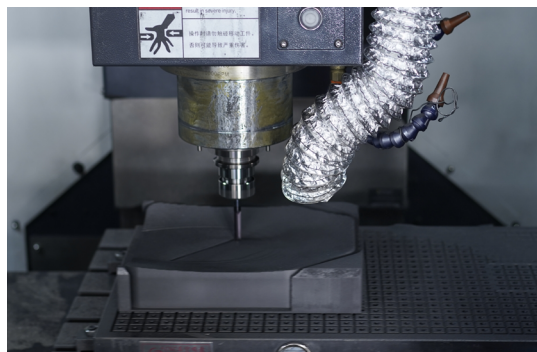
- High purity, low resistance.
- High temperature resistance, corrosion resistance.
- Excellent electrical & thermal conductivity.
- Good oxidization resistance, thermal shock resistance.
- High machining precision.



## Application



Polished into a graphite column



Processed into graphite products