



CATALOG

VISI CARBON

Carbon Graphite Product • For Metallurgy and Mechanical applications



Dear Customers,

Since its establishment in 2009, VISI INDOTAMA SEJAHTERA has been committed with the aim of looking after the needs of its customers and providing the best service. We believe that this is what our customers need to face the competition in this globalization era.

With the above objectives, we offer VISI Carbon which is one of the superior products with our good experience in this business since 1995. We are starting to sell Carbon and Graphite products which comply with the needs of our Customers. Through our constant services, we are growing and expanding to meet many applications from our Customers' demand.

Our Carbon & Graphite Materials are utilized in a wide variety of industries such as :

- Metallurgical Applications
Crucible, Continuous Casting Dies, Hot Press Mould, Heating Elements, Sliding Table & Carbon Rolls Etc.
- Electrical Discharge Machining (EDM)
Plastic Mould, Forging Die, Stamping Die, Pipe Cutting Etc.
- Mechanical Applications
Bushing, Bearing & Slider, Mechanical Seal, Joint Seal, Packing, Carbon Blade (Compressor Vane) Etc.
- Electrical Applications
Brushes, Sliding Contactor, Pantograph Strips, Electrical Contacts Etc.
- High Temp Component & Hot Zone Parts
Glass Industry, Semi Conductor, Vacuum Evaporating Crucible, Nuts and bolts, Jig and Fixture Etc.

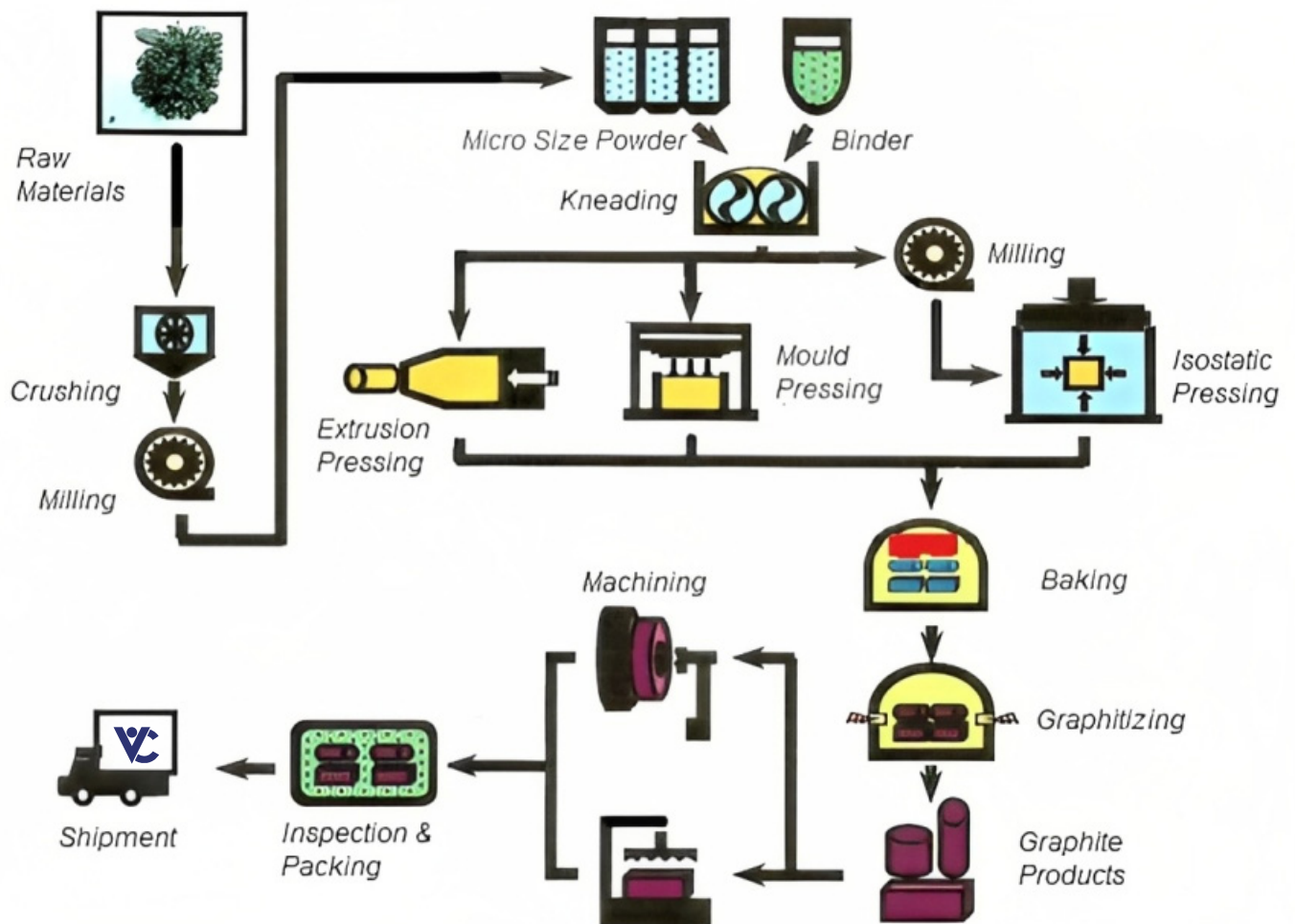
Carbon & Graphite materials are always present in every industry sector and are one of the most important components. We are here and ready to help you with a comprehensive solution for the Carbon & Graphite needs.

Sincerely,

Trihartono
Executive Director



Graphite Manufacturing Process



Graphite Characteristics

1. Good electrical conductivity and high thermal conductivity
2. Low thermal expansion
3. High thermal shock resistance
4. Higher strength at high temperature, and it can withstand over 3000 degrees.
5. Excellent chemical resistance
6. Self lubricity
7. Easy for machining

It is because of these characteristics that make Graphite such an important material. Graphite has become an industrial material with infinite possibilities.



Technical Properties

| Grade | | Bulk Density (g/cm ³) | Hardness (Shore) | Tensile Strength (MPa) | Compressive Strength (MPa) | Flexural Strength (MPa) | Specific Resistance (μΩm) | Grain Size (μm) |
|-------------------------------|-------|-----------------------------------|------------------|------------------------|----------------------------|-------------------------|---------------------------|-----------------|
| Isostatic Graphite | GE-03 | 1.80 | 55 | 24.7 | 80.0 | 40.0 | 12.0 | 20 |
| | GE-04 | 1.85 | 65 | 25.5 | 85.0 | 40.0 | 12.0 | 20 |
| | GE-07 | 1.72 | 50 | 25.9 | 85.0 | 40.0 | 14.0 | 15 |
| | GE-08 | 1.82 | 65 | 33.7 | 115.0 | 50.0 | 13.0 | 10 |
| | GE-09 | 1.85 | 49 | 29.8 | 85.0 | 46.0 | 9.0 | 8 |
| | GA-33 | 1.80 | 56 | 21.0 | 41.0 | 39.0 | 12.0 | 13 |
| | GA-34 | 1.85 | 58 | 25.0 | 100.0 | 50.0 | 11.0 | 11 |
| | GA-52 | 1.83 | 62 | 26.9 | 107.8 | 53.9 | 12.5 | 7 |
| | GA-53 | 1.82 | 64 | 31.9 | 127.4 | 63.7 | 13.5 | 7 |
| GA-54 | 1.82 | 72 | 32.9 | 131.4 | 65.7 | 16.5 | 4 | |
| Fine Grain Moulded Graphite | GX-01 | 1.55 | 35 | 9.8 | 35 | 15 | 12.0 | 25 |
| | GX-02 | 1.72 | 45 | 13.0 | 45 | 20 | 12.0 | 25 |
| | GX-03 | 1.80 | 50 | 19.5 | 60 | 30 | 12.0 | 25 |
| | GX-04 | 1.85 | 55 | 21.4 | 65 | 33 | 12.0 | 25 |
| | GX-05 | 1.90 | 60 | 22.7 | 70 | 35 | 12.0 | 25 |
| | GA-25 | 1.80 | 50 | 19.5 | 37 | 30 | 12.0 | 20 |
| Medium Grain Moulded Graphite | GC-01 | 1.60 | | | 19 | 7.8 | 9.0 | 200 |
| | GC-02 | 1.70 | | | 30 | 13.0 | 8.5 | 200 |
| | GC-08 | 1.72 | | | 35 | 13.5 | 8.5 | 80 |

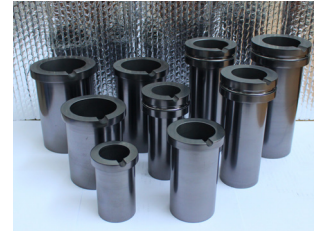
| Grade | | Bulk Density (g/cm ³) | Hardness (Shore) | Tensile Strength (MPa) | Compressive Strength (MPa) | Flexural Strength (MPa) | C.T.E. (10 ⁻⁶ /°C) | T.D. (°C) |
|-----------------------------|-------|-----------------------------------|------------------|------------------------|----------------------------|-------------------------|-------------------------------|-----------|
| Resin Impregnated Carbon | G-18R | 1.8 | 65 | 37 | 180 | 60 | 4.0 | 200 |
| Antimony Impregnated Carbon | G-23A | 2.3 | 80 | 47 | 230 | 80 | 4.0 | 550 |

These properties are typical value are not guaranteed.
All properties measured at room temperature.



Graphite Crucible

Carbon graphite crucible, graphite boat and graphite stirring rod. Used for gold, silver and other jewelry casting and recasting.



Graphite Continuous Casting Die



Carbon graphite continuous casting die is mainly used for continuous casting of non ferrous metals such as gold, silver, copper and aluminium.

Graphite Mould

Carbon Graphite molds are widely used in precision casting of precious metals and glass (Gold, Silver, Titanium, Glass products, etc.).



Graphite Rotor & Aerator



The rotor is used in the degassing process for refining molten aluminium.



Carbon Graphite Mechanical Seal, Carbon Seal and Joint Seal

We really understand the functions and duties of these mechanical components. With this heavy duty purpose, we provide Carbon Graphite with Resin Impregnated Grade and Antimony Impregnated Grade.



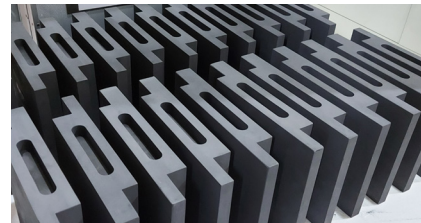
Carbon Graphite for Bushing and Bearing



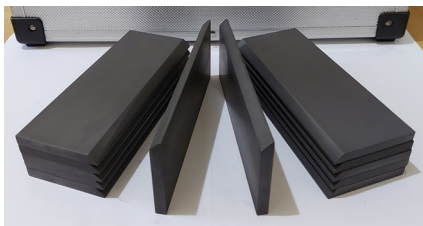
Chemical inertness, temperature resistance, light weight, dimensional stability, impermeability to gases and liquid, and self lubricating properties make Carbon Graphite suitable for some of the most demanding applications.

Solid Bar for Lubricating Kiln

Carbon graphite lubrication solid bar to be one of the best ways to lubricate kiln tires.



Carbon Vane



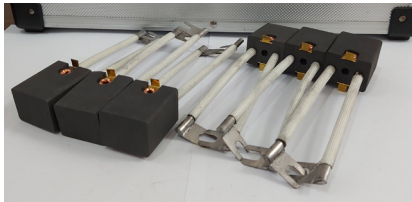
We offer carbon vane for dry rotary vane pumps, which are characterized by high density, strength and better heat resistance.

Electrical Discharge Machining (EDM Electrode)

Visi Carbon have high quality Carbon Graphite material which is divided into 7 Grade mainstays for EDM (Electrode Discharge Machine).



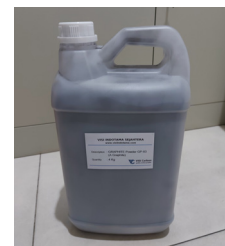
Carbon Brush



Standard grade of our brush consist of natural electro graphite and metal alloy graphite, it will cover most of applications.

Carbon Graphite Powder or GP-03 Powder

GP-03 Powder is made of artificial graphite which can be used for the needs of the metal industry, lubrication or for coloring agents.



Graphite for High Temp Component & Hot Zone Parts



Application Examples: Glass Industry, Semi Conductor, Vacuum Evaporating Crucible, Nuts, Bolts, Tray, Jig and Fixtureetc



Our products are manufactured through high quality production technology with strict quality control to meet or exceed Customers' expectations.

We are ready to assist our Customers

SALES OFFICE

Taman Asri Utara D-180, Pondok Tjandra Indah,
Waru Sidoarjo-61256, Jawa Timur, Indonesia

CONTACTS

HP & WA : +62 81217388599
+62 811330377
Phone : +62 31 99690494
Web : www.visiindotama.com