



## Other carbon-graphite and metal-graphite products

- mechanical carbon
- thermic carbon
- carbon currant collectors
- gouging electrodes
- carbon contacts
- carbon blanks

Carbon properties like self-lubrication, corrosion resistance, low thermal expansion and friction, heat conductivity and its easy machining make it an ideal material for mechanical and thermo applications. Since its basic property is good current conductivity, it is widely accepted as a material for carbon sliding contacts and carbon current collectors.

### Mechanical carbon



There has been rapid development in production of machine parts made of carbon mostly because of its outstanding properties, i.e. chemical resistance, good dry and wet sliding ability, easy machining into bearings, seal rings, bars and other machine parts.

It is possible to improve these properties by various impregnations (resins, waxes or metals).

Parts made of mechanical carbon are mainly used in chemical, wood, leather and shoe industries, in oil refineries and paper mills.

## Thermic carbon



High thermal resistance and thermal stability, high thermal conductivity, very low or no wetting ability at all by most molten metal's are the properties that make carbon suitable for thermic applications.

There are special grades for the production of crucibles, molds, dies, boats, heating elements, coatings, electrodes, etc.

Used in non-ferrous metallurgy, iron metallurgy, and especially in the production of gold.

## Carbon current collectors



Different types of carbon current collectors used for electricity transfer application on overhead electricity cables for trams, railway motor coaches, locomotives, trolley buses, cranes and lifts are made from various quality of carbon or metal-graphite.

They have replaced other materials because of their unique properties like self-lubrication corrosion resistance, slight sparking and are lightweight.

Carbon current collectors are used as parts of pantographs on locomotives, electric trains and trolley buses while metal-graphite and carbon collectors are used in cranes and lifts.

## Gouging electrodes



Applying an electric arc in conjunction with a stream of compressed air makes it possible to gouge, cut and chamfer iron, steel, copper and other non-ferrous metals.

Compared with traditional methods (usage of pneumatic chisel, grinder, butt welding, torch etc.) this process has several other advantages as well; it is economical, efficient and friendly to use, with less noise and the danger of uncontrolled combustion greatly diminished.

Their range of application is very broad; generally they are used in shipyards, steel-mills, metallurgy, production of metal construction and maintenance workshops.

## Carbon contacts

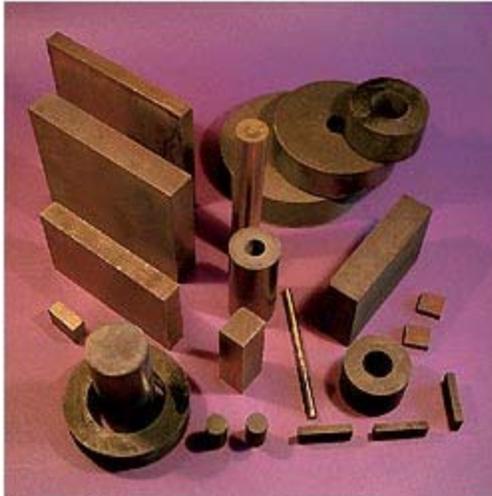


In electric regulating equipment there are many contacts that either make or break electrical circuits, they transfer currents from one element to another.

The self-lubricating ability and resistance to moistening that help sustain electric arcing define carbon as a material with many advantages.

Typical examples of its application are drum controllers, contactors, roller contacts and potentiometers.

## Carbon blanks



Our production program consist also of semi products i.e. carbon blanks.

They are produced in different sizes and material grades and are the same material brushes and other carbon-graphite and metal-graphite products are manufactured from.

br> They are available in different forms and sizes, either as blocks, briquettes or cakes.