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## PRODUCTS OR MACHINERY

### Graphites

A range of graphites for use in high temperature and mechanical applications that have been developed over many years to suit demanding processes. With our 'G' range of graphites, Tokai Carbon meet the requirements of the continuous casting, glass, semi-conductor, bearing, aluminium de-gassing, and hard metal industries

### Impregnation Treatments

Graphite can be treated with a number of materials that have the effect of improving certain properties for certain applications:

#### 1. Reduction of loss due to oxidation

In the presence of heat and oxygen, the surfaces of graphite components react and break down. This process can begin at around 400°C and is accelerated with increasing temperature and exposure time. Using the unique, post machining, treatment developed at Tokai Carbon, GRAPHOX treated graphite's are impregnated with an oxidation retardant which leaves the surface protected against exposure to heat and oxygen. The effects of oxidation are markedly reduced which leads to much longer component life.

#### 2. Reduction of porosity and improvement in mechanical properties

For some applications it is necessary for graphite shapes to be free from porosity, impervious to aggressive chemicals or have higher mechanical strength. Graphite is treated with various synthetic resins in order to achieve this aim.

Tokai Carbon can produce finished shapes or blocks of impregnated material.

### Machining

Tokai Carbon Europe has now been machining graphite for 17 years, and are now one of the UK's leading manufacturers of machined graphite components and EDM electrodes. Our success comes from years of experience, commitment to the customer and investment in to the very latest that technology has to offer.

### Speciality

Glassy Carbon, which has been developed by our own unique technique, is a gas impermeable, black glass like carbon product

## COMPANY BACKGROUND / HISTORY

The Quality Policy of Tokai Carbon Europe Ltd is to provide products and services which give total satisfaction to our customers.

We recognise that the continued future and success of this company depends upon our ability to fully meet customer requirements, including regulatory and statutory requirements. The quality of products must be of the highest possible standard if we are to meet the ever-increasing levels demanded by our customers. We intend to continually improve our service and processes, and to ensure that all employees are aware of this company's objectives.

Company Profile of **Tokai Carbon Europe**

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