

Business field

A wide variety of business fields supporting everything from domestic life to industry

Toyo Tanso carbon products are hard at work in a range of fields from semiconductors, automobiles, and industrial machinery to home electronics, medical equipment, and aerospace...

The range of arenas in which our carbon products are active has expanded steadily since our inception. To realize the various needs of a wide array of industries, we have engaged in round after round of trial and error.

This hard work has borne fruit and we currently cover a wide range of fields extending from products and services for day-to-day life to those for industrial applications.

Industrial development and technological progress in fields such as next-generation semiconductors, automobiles, and information terminals is unrelenting, and have given birth to infinite opportunities for carbon applications.

In search of new fields, Toyo Tanso will pursue new possibilities.

Electronics

- Home electronics
(vacuum cleaners, washing machines, air conditioners, cooking appliances, and power tools)

Business

Electronics

- Semiconductors
- Photovoltaic cells
- LEDs
- Next-generation semiconductors
- Electronics equipment
- Communications equipment
- Fiber optics

Prized for their excellent properties such as heat resistance, chemical resistance, and high purity, carbon products are being employed in harsh environments where gases and chemical products are used under high-temperature. Examples of such applications include manufacturing processes for products such as monocrystalline silicon, compound semiconductors, and next-generation semiconductors, and photovoltaic cells.

Cutting-edge Industries

- Nuclear power
- Aerospace
- Medical care



rical

Carbon has a range of desirable characteristics including excellent thermal and electrical conductivity and self-lubricating properties. It is being used as an important component that enables many functions in home electronics products, and supports domestic life.



Industrial Machinery

- Die manufacturing
- Industrial machine parts
- Metal casting
- Industrial furnaces (heat treatment)
- Hot presses

Bearings, seal rings, and packing for industrial pumps and compressors; molds for continuous casting and electrodes for electric discharge machining; and parts used in metal heat-treatment furnaces are just some examples of typical industrial applications of carbon. With its ability to withstand harsh environments, carbon is being used in a wide range of applications as an important material supporting industry.

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Transportation

- Automobiles
- Rail
- Shipping

Large amounts of carbon are being used in parts and manufacturing process components for transportation equipment, in which consistent quality and reliability are essential.

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We have leveraged the knowledge and technical capabilities that we have accumulated over the years to cultivate reliability and high quality. These attributes have been recognized by cutting-edge industries, and the range of arenas in which our products are active is expanding to include nuclear power applications such as high temperature gas reactors or nuclear fusion reactors; aerospace applications such as rocket parts; and medical applications such as X-ray target materials for use in CT scanners.

Image: provided by JAXA
Illustrated by Akihiro Ikeshita