Unlocking endless opportunities in carbon

Toyo Tanso was the first company in the world to mass produce isotropic graphite back in 1974 and today its high-quality graphite products are used across a wide range of industries. A vital cog in the ever-evolving semiconductor industry for over four decades, Toyo Tanso will remain at the forefront as the world embarks on a new era defined by fourth industrial revolution technologies such as robotics, IoT, smart devices and big data.

“We can adapt our product to a wide range of applications. By mixing different materials such as metal and ceramics, we can expand the range of our possibilities even further and address the market’s needs.”

MR. NAGATA KONDO, Representative Director, Chairman & President, CEO, Toyo Tanso

Rapid advancements in technological products are often the result of rapid improvements in the materials and components that make up these products. Toyo Tanso, a Japanese company has constantly invested in mass producing large-size isotropic graphite for over 25 years. One of the top three manufacturers worldwide, Toyo Tanso has revolutionized the forefront of the graphite industry by providing innovative materials and solutions to help both the company and its customers to stay ahead of their competitors.

Today, isotropic graphite has become an almost endless array of applications. For example, it can be used in glass sealing jigs. This is due to its high manufacturing resistance, as well as its ability to change the game with this technology. Additionally, it has very strong and will continue to do so for many years to come. The company sees ample opportunities in the world with endless possibilities,” says Mr. Kondo.

“Another of Toyo Tanso’s coating innovations is GLASTIX KOTE, a material coated with glass on a carbon substrate. Offering enhanced scalability against scratching and other friction, as well as releasing the gas exhaust of doped graphite, GLASTIX KOTE’s applications include parts for silicon single crystal pulling devices and the production of highly conductive carbon-based products. This technology is used in the production of carbon-carbon composites, which are used in manufacturing for superconducting devices and plasma testing equipment for super fusion reactions. To enhance the performance of its product, GLASTIX KOTE has also developed a series of coating products, including CVD (chemical vapor deposition) coating technologies used in the manufacture of silicon carbide (SiC) as well as for automakers such as Honda. This high-quality product, which combines high purity with higher reliability, was also chosen by the International Olympic Committee (IOC) as a key material for the Games. Additionally, the company has announced that the manufacturing of silicon single crystal pulling devices will be one of the key products that can be used for applications in the semiconductor industry.

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