

## Press Release

### **Toshiba Materials and Kyocera Agree to Collaborate on Development and Production of Nitride Ceramic Components**

**Kyoto/London, 12 June 2017** - [Toshiba Materials Co., Ltd.](#) (President: Kumpei Kobayashi) and [Kyocera Corporation](#) (President: Hideo Tanimoto) announced that the two companies have agreed to start full-scale collaboration on development and production of nitride ceramic components. Used as heat-dissipating and insulating parts in power semiconductors, demand is increasing for nitride ceramic components possessing excellent thermal conductivity and mechanical properties as energy-saving requirements heighten in the automotive and railway industries. It is also expected that adoption of nitride ceramics will expand in semiconductor production equipment (SPE) as they enable precise temperature control at higher temperatures in the production process.

The two companies decided to work together in order to blend the material technologies on nitride ceramics possessed by Toshiba Materials with the special ceramic processing technologies possessed by Kyocera. The collaboration aims to achieve higher competitiveness in the ceramics market by providing highly functional products such as power semiconductor components with high heat-dissipating properties, and components for SPE that allow precise temperature control under high temperatures — both of which cannot be realized with conventional technologies.

The two companies have been working on joint development of power semiconductors and components for SPE since 2014. Having obtained good results from trial products developed out of the joint project, the companies have decided to launch full-scale collaboration. Based on this agreement, the companies will seek further possibilities through collaboration and synergy to accelerate development and commercialization by organizing a working team and joint investment.



## For more information on Toshiba Materials: [Toshiba Materials](#)

[Toshiba Materials Co., Ltd.](#) was demerged from Toshiba Corporation in 2003. With material designing technology as a core, Toshiba Materials has supplied key material and key components which support development of society. Main products are metallic materials, components, fine ceramics parts and chemical materials. During the year ended March 31, 2017, the company's net sales totaled 14 billion yen (approx. USD127 million).

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## For more information on Kyocera: [www.kyocera.co.uk](http://www.kyocera.co.uk)

### About Kyocera

Headquartered in Kyoto, Japan, Kyocera Corporation is one of the world's leading manufacturers of fine ceramic components for the technology industry. The strategically important divisions in the Kyocera Group, which is comprised of 231 subsidiaries (as of March 31, 2017), are information and communications technologies, products which increase quality of life, and environmentally friendly products. The technology group is also one of the oldest producers of solar energy systems worldwide, with more than 40 years of experience in the industry.

The company is ranked #522 on Forbes magazine's 2017 "Global 2000" listing of the world's largest publicly traded companies. With a global workforce of over 70,000 employees, Kyocera posted net sales of approximately €11.86 billion in fiscal year 2016/2017. The products marketed by the company in Europe include printers, digital copying systems, microelectronic components, and fine ceramic products. The Kyocera Group has two independent companies in the United Kingdom: Kyocera Fineceramics Ltd. and Kyocera Document Solutions.

The company also takes an active interest in cultural affairs. The Kyoto Prize, a prominent international award, is presented each year by the Inamori Foundation — established by Kyocera founder Dr. Kazuo Inamori — to individuals and groups worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind (converted at approximately €360,000 per prize category).

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