

Press Information

Kyocera presents new and innovative Fine Ceramics products as its offering to 'New Space' applications

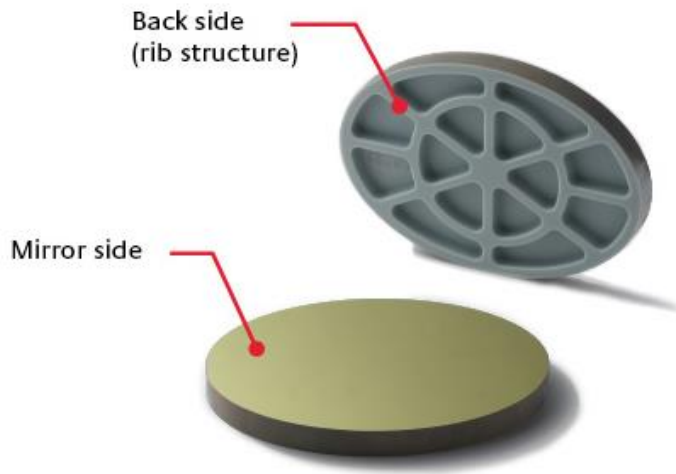
The leading ceramic manufacturer Kyocera will display its Fine Ceramics products at the Space Tech Expo 2021, which will be held from 16th to 18th November in Bremen, Germany.

Kyoto/London, 16. November 2021. Kyocera has been providing Fine Ceramics components for a wide range of markets including aerospace systems, industrial equipment, medical devices, and automotive industry, and has supported the development of numerous other industries. Kyocera offers a broad range of over 200 different compositions of ceramics such as Aluminium oxide, Zirconium oxide, Cordierite, Aluminium nitride, Cermet, Mullite, Sapphire, Silicon carbides, Silicon nitride, Aluminium titanate, Yttrium oxide and many more.

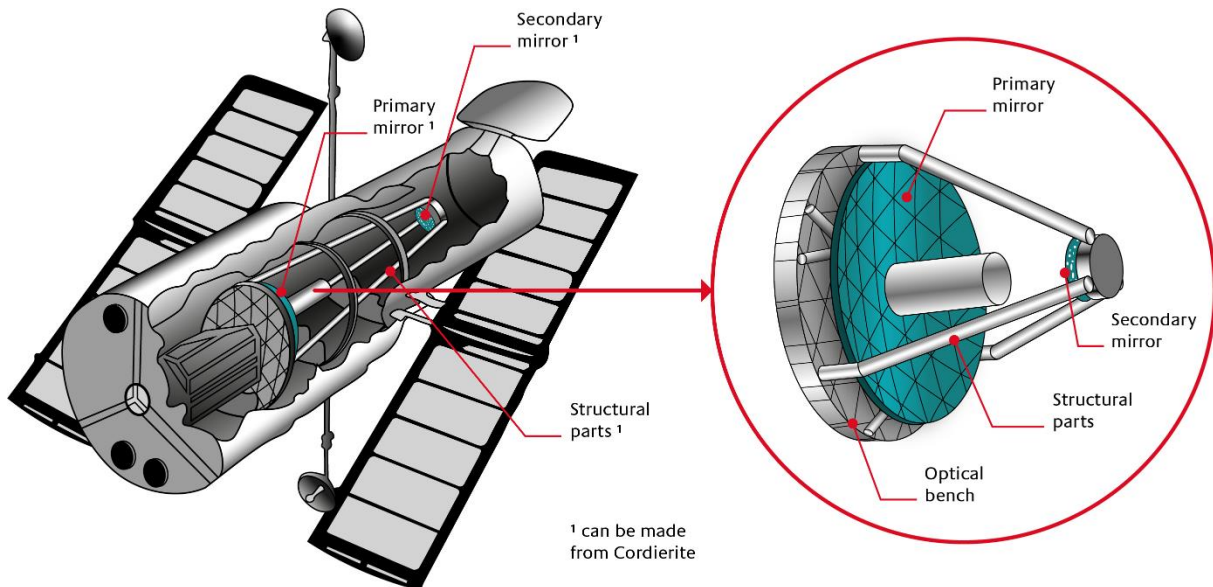
In Bremen, Kyocera will showcase its ceramic technologies that address the 'New Space', a branch of aerospace industry which has piqued multitudes of new ideas and has created challenges for the existing material and supply chain industry. This field requires compact designs with improved functionalities, production of highly complex and precise designs that drive the development towards the next generation of satellites, propulsion systems, and other aerospace components and systems. Kyocera's Fine Ceramics with their unique properties have proven advantages in such harsh environments, where high precision and reliability are needed. Compared to other material classes (e.g. metal or glass) the superior properties of ceramic materials in high electrical isolation, chemical resistance, wear resistance, mechanical strength are of importance.

Catering to the trend of smaller, compact and light-weighted systems, Kyocera is offering the relevant materials like Cordierite, which has minimal coefficient of thermal expansion, and can accomplish approximately 70% weight reduction compared to the competition; Si-infiltrated SiC from proprietary technologies for designs with cooling channels and fine details in large components. Kyocera has advanced capabilities in the field of oxide ceramics, which can be used in propulsion systems, ion thrusters, and specializes in ceramic to metal assemblies for ultra-high vacuum applications.

For the full list of Kyocera's fine ceramic products, please refer to the website https://europe.kyocera.com/products/fineceramic_components/prd/space_applications/



Cordierite CO720 mirror – polished on one side and light-weighted on the other with a rib structure



Example of where Cordierite can be used in mirror applications



SiSiC fusion joined mirror



SiSiC structure exhibiting the available design flexibility



Picture of alumina parts

Kyocera Booth Outline

Exhibition	Space Tech Expo 2021 https://www.spacetechempo.eu/ Booth no. M50
Date	November 16 – 18, 2021
Location	Bremen, Germany

For more information on Kyocera: www.kyocera.de

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 307 subsidiaries (as of March 31, 2021), are information and communications technologies, products which increase quality of life, and environmentally friendly products. The technology group is also one of the most experienced producers of smart energy systems worldwide, with more than 45 years of know-how in the industry. The company is ranked #603 on Forbes magazine's 2021 "Global 2000" listing of the world's largest publicly traded companies.

With a global workforce of over 78,000 employees, Kyocera posted sales revenue of approximately €11,74 billion in fiscal year 2020/2021. The products marketed by the company in Europe include printers, digital copying systems, semiconductor-, fine ceramic-, automotive- and electronic components as well as printing devices and ceramic kitchen products. The KYOCERA Group has two independent companies in the United Kingdom: KYOCERA Fineceramics Ltd. and KYOCERA Document Solutions Ltd.

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 worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind (approximately €763,000* per prize category).

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