

Press Information

ESK-SiC GmbH and KYOCERA Fineceramics Europe GmbH cooperate for the sustainable production of silicon carbide

Frechen/London, 6th February 2024. ESK-SiC GmbH, a market leader in silicon carbide (SiC) materials, and Kyocera, a global technology company specialized in the manufacturing of technical ceramics and semiconductor technologies, announced that they have entered into a strategic partnership.

As the goal of their partnership, the two companies have defined developing innovative solutions for the sustainable production of silicon carbide and the associated end products. By-products and end-of-life ceramics will be recycled using RECOSiC technology in order to produce raw materials that are specifically tailored to various end applications. Compared to currently available SiC raw materials on the market in terms of material science aspects, while minimising the carbon footprint of the process, the RECOSiC recycling technology brings a technological upgrade.

Silicon carbide is recognised as a key material for a wide application range in various industries, including the branches electronics and automotive industries as well as energy supply. The unique properties of SiC, such as extreme hardness, good thermal resistance and low wear, make it an indispensable material in modern high-conductivity applications.

The partnership between ESK-SiC and Kyocera aims to improve the efficiency and sustainability of the entire silicon carbide value chain. This will involve developing new manufacturing technologies, optimising production processes, researching innovative applications and establishing circular economy principles for the recycling of SiC materials.

“This collaboration with Kyocera will open up promising avenues for us to continue tapping into the potential of RECOSiC and create sustainable solutions for future challenges,” declares Matthias Hausmann, Managing Director of ESK. “Together, we will be at the forefront of SiC innovation while also contributing to the global sustainability agenda.” Kyocera brings its extensive expertise in materials science, electronics and advanced manufacturing technologies to the partnership. “By combining our strengths, we will be able to drive the development of technologically advanced SiC products and offer solutions that meet the increasing demands for performance, efficiency and environmental compatibility,” explains Dr Nikolaos Katsikis, Director Research and

Development (CTO), KYOCERA Fineceramics Europe GmbH in Selb.



SiC-Recycling RECOSiC® – low emission and energy efficient /Photo: ©Fraunhofer IKTS



For more information about Kyocera: www.kyocera.co.uk

About Kyocera

[KYOCERA Fineceramics Europe GmbH](#) is a subsidiary of [KYOCERA Europe GmbH](#), which has been successful in Europe for over 50 years. The Kyocera Group is one of the world's leading providers of high-performance ceramic components for the technology industry, offering over 200 different ceramic materials, as well as state-of-the-art technologies and services tailored to the specific needs of each market.

KYOCERA Europe GmbH is a company of the KYOCERA Corporation headquartered in Kyoto/Japan, a world leader in semiconductor, industrial and automotive components as well as electronic components, printing and multifunction systems, and communications technology. The technology group is one of the world's most experienced manufacturers of smart energy systems, with more than 45 years of industry expertise. The Kyocera Group comprises 297 subsidiaries (31 March 2023). In England, Kyocera has a subsidiary in Frimley, KYOCERA Fineceramics Ltd. With around 81,000 employees, Kyocera generated net annual sales of around EUR 13.87 billion in the 2022/2023 fiscal year.

Kyocera is ranked 672 on Forbes magazine's 'Global 2000' list for 2023, and ranked as 'The 100 Most Sustainably Managed Companies in the World' according to the Wall Street Journal. For the second year in a row, Kyocera qualified for the Dow Jones Sustainability Index (Asia-Pacific). As well, Kyocera receives a Gold rating on EcoVadis Sustainability Survey for the second consecutive year and was acknowledged as a 'Top 100 Global Innovator 2023', being one of the world's leading innovators, for the seventh time by Clarivate.

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 (equivalent to approximately €685,000 per prize category).

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ESK-SiC GmbH

About ESK-SiC GmbH

ESK-SiC GmbH, which has its headquarters in Frechen near Cologne, is a leading player in the manufacture and development of silicon carbide (SiC). The company specialises in the production of high-performance materials that are used in various industrial applications, including electronics, the automotive industry, power generation and many more.

ESK-SiC GmbH has a reputation for manufacturing high-quality silicon carbide products that are used in demanding industrial environments on account of their unique properties such as exceptional hardness, temperature stability and chemical resistance. These products are used, for example, in the production of abrasives, seals, ceramics, electronic components and in high-temperature applications.

The company sets great store by research and development in order to offer innovative solutions for the constantly changing requirements of the industry. With its experienced team of specialists, ESK-SiC GmbH continuously strives for excellence in materials technology and ensures that its products meet the highest quality standards.

ESK-SiC GmbH is also committed to environmental protection and sustainability in production processes and strives to ensure responsible corporate governance. The company's global activities and partnerships help to drive technological development in various industries and face up to the challenges of the future.

ESK-SiC GmbH has once again been named as one of the TOP 100 companies in the German SME sector. An independent expert analysis concluded that the company has above-average innovative capacity and is therefore one of the pacesetters in the German SME sector.

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