

Press Information

Kyocera launches new standard line of 230V silicon nitride (SN) igniters for industrial and residential gas furnaces, boilers and gas stoves

The 230V silicon nitride igniters heat up to 1,000 °C in about two seconds. Once they were formerly made-to-order, they are now available off the shelf.

Kyoto/London, 24th October 2023. Kyocera launches a new standard line of 230V silicon nitride (SN) igniters for industrial or residential gas furnaces, water heaters, boilers, and gas stoves. The product uses silicon nitride, which enables exceptional endurance and highly stable, reliable ignition performance.

SN igniters employ ceramic materials with built-in heating elements that convert electricity into heat for use as igniters for gas equipment and other devices.

Use in various applications

For many years, Kyocera has developed and mass-produced custom-designed glow plugs using silicon nitride as a preheating component for diesel engines. Kyocera's new standard line of SN heaters can support many other diverse applications "off the shelf" using highly reliable technologies the company has cultivated in automotive components.

Features of Kyocera's SN heater technology

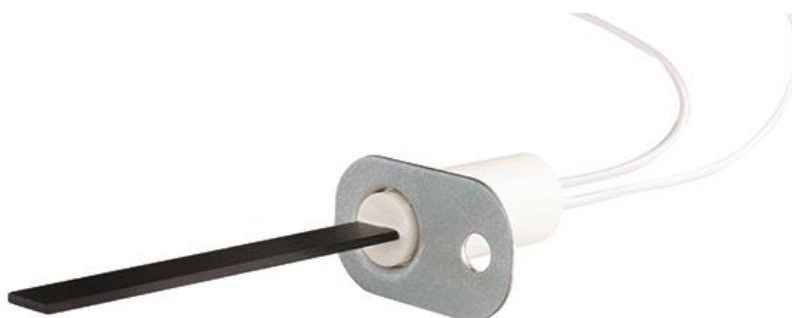
1. Superior robustness

The SN igniter is resistant to cracking and chipping and has excellent robustness, which can withstand temperatures as high as 1,350 degrees Celsius. This robustness is due to the use of silicon nitride, which has more than twice the fracture toughness¹ of silicon carbide. Also, silicon nitride has excellent heat shock resistance, abrasion resistance, and high strength even at high temperatures.

2. Rapid ignition

Starting at room temperature, Kyocera's SN heater can reach 1,000 degrees Celsius in about 2 seconds, igniting gas quickly and reliably. It also contributes to product reliability with excellent durability even after repeated rapid ignition cycles.

¹ A measure of a material's resistance to surface or internal fracture (cracking).



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

About Kyocera

Kyocera has been successful in Europe for over 50 years. From its European headquarters in Esslingen am Neckar, KYOCERA Europe GmbH operates 26 sites including manufacturing facilities, with products ranging from fine ceramics, electronics, automotive, semiconductor and optical components to industrial tools, LCDs, touch solutions, industrial printing components, solar systems and consumer goods such as kitchen and office products.

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).

Contact

KYOCERA Fineceramics Ltd.

Allan Martin

General Manager

Prospect House, Archipelago,

Lyon Way, Frimley, Surrey.

GU16 7ER United Kingdom

Tel: +44 1276 693450

E-mail: PR@kyocera.de

www.kyocera.co.uk