

## Press information

# Kyocera brings low-temperature, high-thermal-conductivity Silver Sinter Paste to the European Market

The innovative paste has the ideal preconditions for high-reliability applications in automotive modules, power modules or in the semiconductor industry and other fields, whose effective operation depends in heat dissipation

**Kyoto, Japan / Neuss, Germany, April 21, 2016** – The Kyocera Corporation launches the innovative environmentally friendly XT2773R7 Silver Sinter Paste in Europe – a proprietary formulation specifically developed to deliver a wider range of benefits and performance characteristics compared to high-lead solders. Kyocera's lead-free, pressureless Silver Sinter Paste exhibits excellent thermal and electrical performance as well as an extremely strong adhesion to bare copper. These characteristics make this new paste ideal for high-reliability applications in which heat dissipation is crucial, such as power semiconductors, automotive modules and high-brightness light emitting diodes (LEDs).

Based on the nano-silver technology, Kyocera's Silver Sinter Paste demonstrates a thermal conductivity of more than 200 W/mK and an excellent die-shear adhesion to bare copper, silver- and gold-plated surfaces. Compared to standard solders and electrically conductive die-attach pastes, Kyocera's Silver Sinter Paste offers more than three times the thermal conductivity. Moreover, through the utilization of a novel resin-dispersion system, the paste shows

### Contact:

Kyocera Fineceramics GmbH  
Daniela Faust  
Manager Corporate Communications  
Hammfelddamm 6  
41460 Neuss  
Germany  
Tel.: +49 (0) 2131/16 37 - 188  
Fax: +49 (0) 2131/16 37 - 150  
Mobil: +49 (0) 175/7275706  
daniela.faust@kyocera.de  
[www.kyocera.de](http://www.kyocera.de)

Grayling Frankfurt  
Jan Leder, Elena Lindenzweig  
Hanauer Landstr. 147-149  
60314 Frankfurt am Main  
Germany  
Tel.: +49 (0) 69/96 2219 - 67 / - 66  
Fax: +49 (0) 69/96 2219 - 96  
[jan.leder@grayling.com](mailto:jan.leder@grayling.com)  
[elena.lindenzweig@grayling.com](mailto:elena.lindenzweig@grayling.com)

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excellent interface reliability in the most demanding applications.

The semiconductor industry is making every effort to eliminate high-lead solder in its products, where feasible, due to environmental and health concerns. Many semiconductor devices serve essential safety purposes in automotive and industrial applications. Until now, high-lead alloys – which offer a high melting point and thermal conductivity – were considered necessary to guarantee the required level of reliability. By leveraging the unique properties of nano silver, Kyocera's solution to further enhance semiconductor performance offers a low-temperature, pressureless silver solder option that enhances the performance of high-power semiconductor devices, such as gallium nitride (GaN) and silicon carbide (SiC).

Kyocera is actively engaged in the development of environmentally friendly products and strives to reduce the use of environmentally harmful materials and processes as much as possible in the industries it supports.

**For more information about Kyocera:** [www.kyocera.eu](http://www.kyocera.eu)

### 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 226 subsidiaries (as of March 31, 2015), 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.

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Daniela Faust  
Manager Corporate Communications  
Hammfelddamm 6  
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Germany  
Tel.: +49 (0) 2131/16 37 - 188  
Fax: +49 (0) 2131/16 37 - 150  
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60314 Frankfurt am Main  
Germany  
Tel.: +49 (0) 69/96 2219 - 67/ - 66  
Fax: +49 (0) 69/96 2219 - 96  
[jan.leder@grayling.com](mailto:jan.leder@grayling.com)  
[elena.lindenzweig@grayling.com](mailto:elena.lindenzweig@grayling.com)

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The company is ranked #552 on Forbes magazine's 2015 "Global 2000" listing of the world's largest publicly traded companies.

With a global workforce of over 68,000 employees, Kyocera posted net sales of approximately €11.74 billion in fiscal year 2014/2015. The products marketed by the company in Europe include printers, digital copying systems, microelectronic components, fine ceramic products and complete solar power systems. The Kyocera Group has two independent companies in the Federal Republic of Germany: Kyocera Fineceramics GmbH in Neuss and Esslingen and Kyocera Document Solutions in Meerbusch.

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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Germany  
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60314 Frankfurt am Main  
Germany  
Tel.: +49 (0) 69/96 2219 - 67/ - 66  
Fax: +49 (0) 69/96 2219 - 96  
[jan.leder@grayling.com](mailto:jan.leder@grayling.com)  
[elena.lindenzweig@grayling.com](mailto:elena.lindenzweig@grayling.com)