

Press Release

February 20, 2007

New Line of Conductive Adhesives Introduced by Heraeus CMD

An innovative line of thermosetting, polymer silver conductive adhesives was introduced by the Contact Materials Division (CMD) of Heraeus during the annual APEX conference and exposition held in Los Angeles, California this week. The PC 3000 Series of one-component, solvent- and lead-free fast-curing conductive adhesives is designed for the connection of components (SMDs, LED's and bare dies) with LTCC, flexible and ceramic substrates.

With excellent electrical and thermal conductivity properties, the PC 3000 Series of isotropic conductive adhesives (ICA) offers high reliability and is complementary to processes involving dispensing, screen and stencil printing. The Heraeus line of conductive adhesives produces minimal outgassing during the curing process.

The use of conductive adhesives is ideal for processes involving sensitive substrates and components and has advantages in fine pitch or flips chip applications. The PC 3000 Series of flexible ICAs can be used to assemble dies and components to substrates for high temperature automotive applications such as engine control modules, motor controls and safety equipment. Other applications for conductive adhesives include die attach on lead frames or flex PCB materials for electronic and semiconductor components or assembly of flexible circuits used in cellular phones or other communication devices.

"The PC3000 Series of conductive adhesives was developed in partnership with several automotive companies which ensures state-of-the-art performance for the product line," said Brian Bauer, business manager for Surface Mount Materials at Heraeus CMD. "Additionally the automotive functionality means that the quality and consistency of the product is second to none".

The Heraeus Contact Materials Division (CMD) is part of the W.C. Heraeus GmbH & Co. global enterprise that pioneered industrial technologies based on precious metals. The Contact Materials Division is one of the world's leaders in the processes and products used to manufacture high-performance circuitry, semiconductors and surface mount assemblies.

Products include bonding wire, solder pastes, adhesives and fluxes; conductive adhesives; and a full line of lead-free products. The PC 3000 Series, like every Heraeus product, is backed by a global technical support team designed to assist in the changeover to lead-free products.

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All Heraeus product lines are supported by in-depth process knowledge, personalized service and custom solutions to emerging applications. Through a global network of production and support facilities, with multiple sites for both R&D and technical support, the CMD division of Heraeus continually introduces new products to meet specialized requirements. The goal is to achieve a level of quality where customers look upon Heraeus CMD products and services as an extension of their own facilities or capabilities.

Founded in 1851, Heraeus Incorporated is a \$9 billion company with an ongoing commitment to investing in research programs and products for a full range of electronics applications.

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