

Trade Press Release

Hanau, Germany, 2011, 1st September

Heraeus Exhibits New SOL500 Series at the 26th European Photovoltaic Solar Energy Conference and Exhibition

- **Industry Leader Exhibits New Ag Pastes for Low Temperature Processing of Thin Film and c-Si Solar Cell Technologies**

WEST CONSHOCKEN, PA., – September 1, 2011 – The Heraeus Photovoltaics Business Unit, a world leader in developing front and back-side silver pastes for crystalline solar cells, will introduce its new SOL500 Series of Ag paste at this year's 26th annual European Photovoltaic Solar Energy Conference and Exhibition (PVSEC) from September 5-8 in Hamburg, Germany.

Heraeus' new SOL500 Series of metallization pastes were formulated for low temperature processing of Thin Film and Crystalline Silicon solar cells. Designed for a variety of applications, Heraeus' SOL530, SOL540 and SOL550 all possess faster cure times, higher efficiencies and greater adhesion than commercially available materials. Heraeus' SOL530 is designed for organic photovoltaic cells. SOL530 provides organic PV cell manufacturers with the advantage of printing over a large area with minimal pinholes. Heraeus' SOL540 was formulated for front-side and back-side busbars on advanced cell designs such as PERL solar cells, providing demonstrated adhesion strengths greater than 3 Newtons. Heraeus' SOL550 was developed for applications such as HIT cells possessing low resistivity with a high aspect ratio. Due to the faster cure times and lower temperature processing requirements of the SOL500 Series, all have low resistivity thus providing a higher efficiency for solar cell applications.

To learn more about Heraeus' SOL500 Series and other metallization pastes for the photovoltaic industry, go to <http://www.pvsilverpaste.com>, or visit us at this year's PVSEC trade show at the CCH Congress Center and International Fair in Hamburg, Germany, September 5 – 8, Hall A4 booth number B9.

About the Heraeus Photovoltaics Business Unit

Heraeus manufactures high volumes of thick film pastes for some of the most prominent companies within a variety of industries. For over 40 years, it has built a reputation of innovation, extensive research and new product development. The Heraeus Photovoltaics Business Unit applies its innovative technology to the field of photovoltaics, offering silver pastes for crystalline solar cells. The Heraeus SOL Series of silver pastes is specially formulated to provide higher efficiencies and wider processing windows, resulting in better yields and higher output for cell manufacturers.

Heraeus, the precious metals and technology group headquartered in Hanau, Germany, is a global, private company with 160 years of tradition. Our fields of competence include precious metals, materials, and technologies, sensors, biomaterials, and medical products, as well as dental products, quartz glass, and specialty light sources. With product revenues of €4.1 billion and precious metal trading revenues of €17.9 billion, as well as more than 12,900 employees in over 120 subsidiaries worldwide, Heraeus holds a leading position in its global markets.

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