

Trade Press Release

Hanau, Germany, 2011, 30th August

Heraeus Highlights SOL 9410 and SOL9411 at the 26th European Photovoltaic Solar Energy Conference and Exhibition

- **SOL9410/9411 Reduce Paste Usage for Solar Cells by 20%**

WEST CONSHOCKEN, PA., – August 25, 2011 – The Heraeus Photovoltaic Business Unit, a world leader in developing front and back-side silver pastes for crystalline solar cells, will continue to highlight its SOL9410 and SOL9411 pastes for conventional solar cells at this year's 26th annual European Photovoltaic Solar Energy Conference and Exhibition (PVSEC) from September 5-8 in Hamburg, Germany.

Heraeus has continued to improve its metallization pastes in a strong effort to meet the industry's need to reduce the cost-per-watt of PV systems. Heraeus' creation of SOL9410 and SOL9411 has allowed customers to use 20% less paste per cell than its industry leading SOL9235H. While maintaining its high efficiency and processing characteristics, SOL9410 and SOL9411 improves customers' bottom line.

"SOL9410 and SOL9411 are continuing to provide added benefits to our customers, and the 20% reduction in paste usage improves their cost position in the market. Efficiency is still the primary benefit our customers are finding in this series of paste, but the ability to improve their product's cost structure with our pastes is an added advantage as the market becomes more cost sensitive," said Dr. Weiming Zhang, Vice President of Technology for the Photovoltaic Business Unit."

SOL9410 and SOL9411 are optimized for high efficiency and throughput processing. These pastes exceed the quality of standard pastes and are designed for varying emitter depths and concentrations. This series of paste provides the user with an excellent aspect ratio and contact quality on various emitters and wafers.

"We will be excited to talk to the industry about this and other new products we have developed while we are attending PVSEC in Hamburg," said Andy London, Global Manager for the Photovoltaic Business Unit.

To learn more about Heraeus' SOL9410 and SOL9411 pastes and other metallization pastes for the photovoltaic industry, go to {HYPERLINK "http://www.pvsilverpaste.com"}, or visit us at this year's PVSEC trade

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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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