

Trade Press Release

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Heraeus Highlights SOL9410, SOL9411, and SOL205 at PV Asia Pacific Expo

New Products Reduce Paste Usage for Solar Cells

WEST CONSHOHOCKEN, PA., – October 31, 2011 – The Heraeus Photovoltaic Business Unit, a world leader in developing front and back-side silver pastes for crystalline solar cells, will highlight its SOL9410 and SOL9411 pastes for conventional solar cells, along with its new SOL205 back-side Ag paste at this year's APVIA 2011 PV Asia Pacific Expo, November 1-3 in Singapore.

"We are looking forward to speaking to the industry about our new, highly efficient products, while attending the APVIA trade show in Singapore," said Andy London, Global Manager for the Photovoltaic Business Unit. "We are dedicated to supplying the industry with cost effective products that maintain or achieve higher efficiencies."

Heraeus continues to focus on reducing cell manufacturers' cost-per-watt by introducing new and innovative pastes for solar cells. Heraeus' creation of SOL9410 and SOL9411 has allowed customers to use 40% less paste per cell than its industry leading SOL9235H. While maintaining its high efficiency and processing characteristics, SOL9410 and SOL9411 improves customers' bottom line.

The creation of The Heraeus SOL205 has approximately 30 % less silver content and provides a higher coverage area for reduced paste usage per cell than the typical commercially available pastes. Though there are less solids in this new paste, SOL205 maintains the excellent solderability in both leaded and no lead solders, high adhesion, low contact resistance and the wide processing window possessed by the entire SOL200 Series.

To learn more about Heraeus' SOL9410, SOL9411 and SOL205 pastes and other metallization pastes for the photovoltaic industry, go to HYPERLINK "<http://www.pvsilverpaste.com>" www.pvsilverpaste.com, or visit us at this year's APVIA Trade show at the Sands Expo and Convention Center, in Marina Bay Sands, Singapore, November 1-3, hall B+C booth number 1260.

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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