

Trade Press Release

Heraeus Debuts New SOL9600 Series to European Market at 27th European Photovoltaic Solar Energy Conference and Exhibition

- **Technology Leader Exhibits New Generation of Higher-Efficiency Front-side Silver Pastes**
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FRANKFURT, GERMANY AND WEST CONSHOHOCKEN, PA. – September 17, 2012 – The Heraeus Photovoltaics Business Unit will highlight its new SOL9600 Series of front-side metallization pastes at this year's 27th Annual European Photovoltaic Solar Energy Conference and Exhibition (PVSEC) from September 24-28 in Frankfurt, Germany.

"Heraeus is eagerly anticipating the European debut of SOL9600," said Andy London, Global Manager of the Photovoltaics Business Unit. "This series of pastes introduces significant improvements over current industry applications and is further indication of Heraeus' leadership in the PV pastes arena."

The SOL9600 series for conventional c-Si solar cells has demonstrated significantly improved contact quality on regular and high sheet emitter wafers (up to 35% decrease in contact resistance), exhibiting an absolute efficiency improvement of up to 0.3%. The SOL9600 Series is a significant improvement over their previous industry leading SOL9235 and SOL9411 pastes for applications requiring higher efficiency and finer line resolution printing. As with all Heraeus metallization pastes, the SOL9600 Series offers a wider processing window during firing, which provides a tighter production output distribution and improves yields.

To learn more about Heraeus' SOL9600 Series of front-side pastes and other metallization pastes for the photovoltaic industry, visit us at this year's PVSEC trade show at the Messe Frankfurt fairground, September 25-28 in Frankfurt, Germany, in Hall 3.0, booth number G16 or go to www.pvsilverpaste.com.

About the Heraeus Photovoltaics Business Unit

The Heraeus Photovoltaics Business Unit is an industry leading developer and manufacturer of silver metallization pastes for the photovoltaic industry. For over 40 years, Heraeus has built a reputation of innovation, extensive research and new product development in thick film technologies. In the field of photovoltaics, the Heraeus Photovoltaics Business Unit applies this history and its innovative technology to offer metallization pastes for solar cell applications. 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 over 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 €4.8 billion and precious metal trading revenues of €21.3 billion, as well as more than 13,300 employees in more than 120 subsidiaries worldwide, Heraeus was recently ranked #293 by the Fortune 500 and holds a leading position in its global markets.

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