



Trade Press Release

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Heraeus Offers High Adhesion Metallization Pastes

The adhesion of silver metallization pastes to silicon is a vital requirement in the production of solar cells and modules. Experts at the Heraeus Photovoltaics Business Unit believe this is a very important parameter which should be viewed along with the electrical performance. Mechanical reliability is critical in how modules are evaluated.

"During our product development, we focus on improving paste formulations to increase the electrical and mechanical performance of solar cells. Adhesion is a very critical component to mechanical performance of cells. We will not sacrifice the mechanical performance and reliability of cells during our paste development process," stated Dr. Weiming Zhang, Vice President of Technology for the Heraeus Photovoltaic Business Unit. He continues to say, "We believe that maintaining a high adhesion of the metallization paste to the solar cells is an important characteristic for cell production."

The Heraeus Photovoltaics Business Unit, a recognized leader in the development of thick film pastes for the solar industry, continues to focus their research and development on the performance of their metallization pastes for crystalline solar cells. Though efficiency and lowering the cost per watt per solar cell are critical goals of their research and development, the adhesion of the paste to the cell is viewed as critical as well.

To learn more about adhesion, Heraeus and our products and services for the photovoltaic industry, visit us at www.pvsilverpaste.com to locate your closest technical service representative.

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 for some of the most prominent companies within a variety of industries. 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 more than 160 years of tradition. Our fields of competence include precious metals, materials and technologies, sensors, biomaterials and medical products, quartz glass, and specialty light sources. In the financial year 2012 Heraeus generated product revenues of €4.2 billion and precious metal trading revenues of €16 billion. With more than 12,200 employees in over 100 subsidiaries worldwide, Heraeus holds a leading position in its global markets.

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