

Press Release

Heraeus Introduces New Products for Low-Temperature Solar Cell Applications

The latest family of pastes designed to meet next-generation PV requirements.

TOKYO- March 2, 2016- Heraeus Photovoltaics, the worldwide leading supplier of metallization solutions to the PV industry, announced the introduction of a new family of low-temperature Ag-pastes at the PV Expo show, Tokyo. Both pastes are designed for emerging solar cell architectures of third-generation PV such as heterojunction or organic pv solar cells. These pastes accommodate the technical requirements of innovative grid and busbar applications in manufacturing advanced solar cell concepts.

The new SOL500 series is formulated for the processing of solar cell types which cannot withstand high firing temperatures. The SOL560 is designed for the curing temperature range of heterojunction solar cells of less than 200 °C, the SOL530 accommodates the 125-135°C range required in the production of organic solar cells. Both pastes show an excellent adhesion on ITO or other TCO materials and provide PV cell manufacturers with improved printability and adhesion, excellent line conductivity and minimal pinholes. The SOL560 can be stored and processed at room temperature, which relieves PV cell manufacturers from time-consuming freeze and unfreeze processes.

Commenting on the new products, Dr. Matthias Hoerteis, Director Innovations of Heraeus Photovoltaics, said, "Our innovation philosophy is guided by a simple principle: everything we do is focused on delivering superior performance for our PV cell manufacturing customers. As solar systems push for greater performance and functionality, these new pastes are perfectly qualified to meet these rigorous standards."

About the Heraeus Photovoltaics Global 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 technology group headquartered in Hanau, Germany, is a leading international family-owned company formed in 1851. With expertise, a focus on innovations, operational excellence and an entrepreneurial leadership, we strive to continuously improve our business performance. We create high-quality solutions for our clients and strengthen their competitiveness in the long term by combining material expertise with technological know-how. Our ideas are focused on themes such as the environment, energy, health, mobility and industrial applications. Our portfolio ranges from components to coordinated material systems which are used in a wide variety of industries, including the steel, electronics, chemical, automotive and telecommunications industries. In the 2014 financial year, Heraeus generated product revenues of €3.4 bn and precious metal revenues of €12.2bn euros. With around 12,600 employees worldwide in more than 100 subsidiaries in 38 countries, Heraeus holds a leading position in its global markets.

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