Media Release

Clariant’s nano silver conductive inks for printed electronics enjoy drupa premiere

• Allow direct printing of electrical traces onto any surface
• Support sustainable & environmental benefits - fewer manufacturing steps & eliminates toxic chemicals and waste water
• Customer-tailored inks made first-ever drupa appearance

Muttenz, June 14, 2016 – Clariant, a world leader in specialty chemicals, is opening up the sustainability and performance advantages of direct printing of high-conductivity electrical traces to new areas of the Electronics Manufacturing Industry through its customized nano silver conductive inks.

Presented for the first time at a drupa international tradeshow, visitors to this year’s exhibition were able to experience the benefits of Clariant’s PRELECT® TPS Nano Silver Conductive Inks for Ink- and Aerosol Jet application. The water based inks feature functional Silver Nano particles with specifically developed dispersants and capping agents from Clariant’s own portfolio. The inks, which offer excellent product performance, enable manufacturers to print highly-defined electric patterns directly onto any surface for a number of environmental and manufacturing efficiency benefits.

From an environmental standpoint, manufacturers can eliminate hazardous chemical metallization processes which use toxic chemicals and generate contaminated waste water. Productivity-wise, depending on the application, the direct printing of electrical traces in connection with additive manufacturing cuts down on the number of manufacturing steps compared to electroplating.

Carsten Schauer, Head of New Business Project Electronic Materials at Clariant, comments: “Customers choosing PRELECT TPS Nano Silver Conductive Inks benefit from an optimized solution, fit for industrial application, that draws on Clariant’s expertise in producing and combining particles and critical additives for functional inks. Our mass production capabilities also mean we can respond quickly to individual customer delivery requirements. These factors create added value for customers in the printed electronics segment.”

PRELECT TPS Nano Silver Conductive Inks are already proving their value on a range of specialized devices and very thin surface layers requiring high conductivity. For example, printed cell collection grids in photovoltaic, printed cell phone antennae, RFIP antennae, printed touch sensor interconnects and EMI shielding layers.
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For more information visit: http://www.clariant.com/drupa
and http://www.clariant.com/en/Solutions/Products/2014/10/12/12/58/PRELECT-TPS-35HE

Clariant’s nano silver conductive inks for printed electronics offer sustainable and environmental benefits. (Photo: Clariant)

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Clariant is a globally leading specialty chemicals company, based in Muttenz near Basel/Switzerland. On 31 December 2015 the company employed a total workforce of 17,213. In the financial year 2015, Clariant recorded sales of CHF 5.807 billion for its continuing businesses. The company reports in four business areas: Care Chemicals, Catalysis, Natural Resources, and Plastics & Coatings. Clariant’s corporate strategy is based on five pillars: increase profitability, reposition portfolio, add value with sustainability, foster innovation and R&D, and intensify growth.