

News Release

October 11, 2005

High Speed, Low Temperature Nano Silver Ink Developed for Consumer Electronics

PChem Associates' CEO, Dr. Greg Jablonski, announced that PChem's new high speed, conductive ink for flexographic printing is available for shipment. The new ink is ideally suited for high volume production of consumer electronics circuitry in a thickness range of 500 nanometers to 2 microns on a variety of low cost plastic substrates.

Dr. Jablonski stated, "We see a demand for a conductive ink to support high volume print runs of electronic circuitry for consumer electronics. Our customers need inks that can process quickly; that cure to a high level of conductivity at low temperatures. Our silver nanopowder is the perfect platform for this type of application. The unique properties of our silver nanoparticles make them ideal materials for these types of high volume applications. Our nanopowders exhibit properties not found with larger, micron sized metals, enabling our nanopowder based inks to work where other more traditional inks have failed."

Printing electronic circuits at 200 feet per minute poses significant challenges for existing high speed printing presses. The new silver nano ink is designed to overcome the many problems inherent in the printing of electronic circuitry on graphic print presses. Existing conductive inks require high temperatures to cure the ink and provide an adequate level of conductivity. Most graphic printers do not have that level of temperature curing on their print lines. Dr. Jablonski and team created an ink containing silver nanoparticles to deliver high conductivity with low temperature curing using the already installed base of existing flexography printing presses. The new ink opens up new markets for graphics printers seeking to add printed electronics to their service offerings.

For additional information on high print speed Nano Ink, contact Jack Kerins or visit www.nanopchem.com

About PChem Associates

PChem Associates, located in Monmouth Junction NJ, has developed a unique nanomaterial technology for printed electronics. PChem's technology delivers superior conductivity at a lower cost, with shorter processing times at lower temperatures. The unique silver nanopowder has a clear and distinct advantage when compared to existing alternatives. The technology has broad application with its initial focus on the Printed Electronics Industry.

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