Intrinsiq Materials Develop Copper Ink for Optomec's Aerosol Jet Direct Write Print Systems

Capable of Achieving 2X Bulk Resistivity

March 30, 2018: Intrinsiq Materials, an advanced materials company and industry leader in the field of nanomaterial technology, has developed a high performance, production ready nanoparticle copper ink, IMC-2501, for use with Optomec's Aerosol Jet production scale print systems. The IMC-2501 copper ink has been successfully deployed by several Aerosol Jet customers, achieving printed features of >10 microns in height and less than 75 microns in width. Using Optomec's shroud-gas-shielded laser system, Aerosol Jet customers have achieved resistivities as low as 2X that of bulk copper

The IMC-2501 ink is formulated with Intrinsiq Material's proprietary copper nanoparticles providing extended print stability and excellent substrate adhesion all while printing at ambient temperatures

Ian Clark, Sales & Marketing Director at Intrinsiq Materials states, 'Recent interest in our Aerosol Jet ink has been phenomenal and we expect this to continue as industry increasingly sees the benefits and flexibility of Aerosol Jet's ability to print functional inks on planar and non-planar substrates while maintaining feature sizes as small as 10 microns. The partnership with Optomec moves us closer to offering a range of nanocopper based products for the full range of deposition techniques, including ink jet and screen printing, all used in next generation electronics production processes. We look forward to continuing our collaboration with Optomec'.

'Optomec are pleased to be working in partnership with Intrinsiq Materials on bringing this new generation of copper inks into industrial settings' said Mike Renn, Optomec CTO. 'Having a source of production ready nanocopper which is close to bulk resistivity, when used in conjunction with our in-situ laser sintering process, extends the range of applications in which our Aerosol Jet technology can be deployed'

Please contact Intrinsiq Materials or Optomec for more information about our products, pricing and services

About Intrinsiq Materials

Intrinsiq Materials is a recognized leader in the manufacture of nanomaterials and creating nanocopper based inks and pastes, primarily for electronic applications. Intrinsiq's expertise includes material formulation and process development (dispensing, drying, sintering, and other post processes) related to copper inks and pastes. Other recent work includes sintering developments on low temperature substrates and thermoplastics, creating conductive copper vias in glass and PCB, copper chip attach pastes and the development of printed thermoelectrics. Markets being addressed include automotive, microelectronics, display, semiconductor, security, defence, lighting, medical, PV, aerospace and consumer electronics. For more information about Intrinsiq Materials, visit www.intrinsiqmaterials.com

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About Optomec

Optomec is a privately-held, rapidly growing supplier of Additive Manufacturing systems. Optomec's patented Aerosol Jet Systems for printed electronics and LENS 3D Printers for metal components are used by industry to reduce product cost and improve performance. Together, these unique printing solutions work with the broadest spectrum of functional materials, ranging from electronic inks to structural metals and even biological matter. Optomec has more than 200 marquee customers around the world, targeting production applications in the electronics, energy, life sciences and aerospace industries. For more information about Optomec, visit http://optomec.com.

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