



Metalon® Conductive Inks for Printed Electronics

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Metalon® JG-014UA

Aerosol Ink – Aqueous-based gold dispersion

JG-014UA is an electrically conductive gold nanoparticle ink designed to produce conductive traces on substrates such as paper, PET, glass, and polyimide. JG-014UA ink is specially formulated for aerosol printing using ultrasonic atomization and contains a polymeric additive for improved adhesion to a variety of substrates. Cured prints are also resistant to water and isopropanol. Applications for the ink include general purpose printing as well as biomedical applications, high density interconnects, and fine line printing.

RESISTIVITY - THERMAL PROCESSING			
Cure temperature (°C)	Cure time (minutes)	Volume Resistivity (Ω-cm)	X Bulk Gold
140	30	4.2 E-4	187
175	30	4.0 E-5	18
200	10	2.6 E-5	12
225	5	1.9 E-5	8.4

- Data collected using #10 Meyer Rod on Melinex ST505 and polyimide substrates
- Thermally cured in a convection oven

Physical Properties	<p>General Description Water-based Au nanoparticle ink</p> <p>Viscosity..... 6 – 10 cP</p> <p>Specific Gravity..... 1.9</p> <p>Flash Point Non-flammable</p> <p>Average dispersed particle size 30-50 nm</p> <p>Au Content 50 wt%</p> <p>(Typical values reported)</p>
Shipping and Packaging	<p>Standard sample order is 3 mL. Inquire directly for packaging of larger quantities.</p> <p>Product should be refrigerated at ~4C for longest shelf life.</p>

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 Contact us today to learn more.
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