Metalon® Conductive Inks for Printed Electronics

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Metalon® JS-A221AE

Aerosol Ink – Aqueous-based silver dispersion

JS-A221AE is an electrically conductive silver nanoparticle ink designed to produce conductive traces on substrates such as paper, PET, glass, and polyimide. **JS-A221AE** ink is specially formulated for aerosol printing using ultrasonic atomization and contains a polymeric additive for improved adhesion to glass and other substrates. Applications for the ink include high density interconnects and fine line printing.

RESISTIVITY - THERMAL PROCESSING			
Cure temperature (°C)	Cure time (minutes)	Volume Resistivity (Ω-cm)	X Bulk Silver
120	60	4.2 E-4	266
150	60	3.0 E-5	19
200	60	9.1 E-6	5.8

- Data courtesy of Optomec, Inc.
- Printer: Optomec Aerosol Jet 200 with UA Max (ultrasonic atomizer)
- Meaurements performed from prints on glass

ADHESION PERFORMANCE			
SUBSTRATE	Cure temperature (°C)	Cure time (minutes)	Crosshatch Rating
Polycarbonate	120	60	5B
PC-ABS	120	60	5B
PET	120	60	5B
Kapton	200	60	5B
Glass	200	60	5B
Polyamide	200	60	5B

Physical Properties	**General Description**..... Water-based Ag nanoparticle ink **Viscosity** ..... 10 – 20 cP **Specific Gravity**..... 1.8 **Flash Point**..... Non-flammable **Average dispersed particle size**..... 35 nm **Ag Content**..... 50 wt% (Typical values reported)
Shipping and Packaging	Standard sample order is 100g or multiples of 100g. Inquire directly for packaging of larger quantities.

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Contact us today to learn more.
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