



Metalon® Conductive Inks for Printed Electronics

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Metalon® JS-A365

Aerosol Ink – Aqueous-based silver dispersion

JS-A365 is an electrically conductive silver nanoparticle ink designed to produce conductive traces on substrates such as paper, PET, glass, and polyimide. JS-A365 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
150	60	1.4 x 10E-4	89
200	60	6.2 x 10E-5	39
300	60	1.3 x 10E-5	8.5
400	60	5.1 x 10E-6	3.2
500	60	3.4 x 10E-6	2.2
700	60	2.4 x 10E-6	1.5
850	40	2.4 x 10E-6	1.5

- Data courtesy of Optomec, Inc.
- Printer: Optomec Aerosol Jet 300 with UA Max (ultrasonic atomizer)
- Measurements performed from prints on ceramic (alumina)

Volume resistivity of 6.4 x 10E-8 (4.0 X bulk Ag) achievable after laser sintering on glass.

Physical Properties	General Description Water-based Ag nanoparticle ink Viscosity 6 – 12 cP Specific Gravity 1.9 Flash Point Non-flammable Average dispersed particle size 35 nm Ag Content 51 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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