



Metalon® Conductive Inks for Printed Electronics

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Metalon® JS-A426

Aerosol Ink – Aqueous-based silver dispersion

JS-A426 is an electrically conductive silver nanoparticle ink designed to produce conductive traces on substrates such as paper, PET, glass, and polyimide. JS-A426 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 high density interconnects and fine line printing.

RESISTIVITY - THERMAL PROCESSING			
Cure temperature (°C)	Cure time (minutes)	Volume Resistivity (Ω-cm)	X Bulk Silver
100	60	7.0 x 10E-4	443
120	30	2.8 x 10E-4	178
140	30	1.8 x 10E-4	116
175	20	3.9 x 10E-5	25
200	10	2.2 x 10E-5	14
250	5	1.2 x 10E-5	7.5

- Data collected using #5 Meyer Rod on Melinex ST505 and polyimide substrates
- Thermally cured in a convection oven

Physical Properties	General Description Water-based Ag nanoparticle ink Viscosity 6 – 10 cP Specific Gravity 1.9 Flash Point Non-flammable Average dispersed particle size 30-40 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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