Metalon® Conductive Inks for Printed Electronics

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Metalon® JS-A554

Aerosol Ink – Aqueous-based silver ink

(specifically formulated for printing with the NanoJet from IDS)

JS-A554 is an electrically conductive silver nanoparticle ink designed to produce conductive traces on substrates such as paper, PET, glass, and polyimide. **JS-A554** ink is specially formulated for aerosol printing using ultrasonic atomization with the NanoJet from IDS. The ink 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
125	30	110 E-6	70
150	30	26.4 E-6	16.7
175	30	13.5 E-6	8.5
200	30	10.2 E-6	6.5
225	30	8.0 E-6	5.1
250	30	6.3E-6	4.0
275	30	4.2 E-6	2.7

- Data collected from drawdowns on Kapton HN using a #10 Meyer rod.
- Resistivity calculated using an estimated porosity of 25%

ADHESION PERFORMANCE	
SUBSTRATE	Crosshatch Rating
PET	5B
Kapton	5B
Glass	5B

Physical Properties	**General Description** ..... Water-based Ag nanoparticle ink **Viscosity** ..... 3 - 5 cP **Specific Gravity**..... 1.3 **Flash Point** ..... Non-flammable **Average dispersed particle size** ..... 35 nm **Ag Content**..... 25% w/w (Typical values reported)
Shipping and Packaging	Standard sample order is 50 mL or multiples of 50 mL. Inquire directly for packaging of larger quantities.

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Contact us today to learn more.
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