Metalon® Conductive Inks for Printed Electronics

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Metalon® JS-B25HV

Nanosilver Ink – Aqueous dispersion for Dimatix Printheads

JS-B25HV is an electrically conductive ink designed to produce circuits on porous and non-porous substrates including inkjet papers, PET, polyimide, and glass. JS-B25HV ink is specially formulated for compatibility and stability with Dimatix printheads. A printing waveform for Dimatix DMP heads is available.

Performance Properties

Metalon JS-B25HV when printed and cured, produces conductive traces that attain as low as 2× bulk Ag resistivity.

Sample Conductivity

	Units	JS-B25HV
Thin film resistivity	Micro ohm–cm	2.8
Thin film sheet resistance	Milliohm/square	50
Bulk resistivity comparison	ρ(film)□/ρ(bulk Ag)	1.8

Sample Information

Substrate[1]: Novele™ IJ-220 (a coated PET)
Printer: Dimatix Materials Printer (DMP-2800 Series)
Post-Process Tool: PulseForge® 3100 in 6" configuration
Environment: Atmosphere – no special preparation

Physical Properties

General Description ..... Water-based Ag ink
Flash Point .....Non-flammable

	Units	JS-B25HV
Ag content	wt%	25
Viscosity	cP	8
Surface tension	dyne/cm	30-32
Z-avg particle size[2]	nm	60
Specific gravity	–	1.3

[2] Malvern dynamic light scattering

Shipping and Packaging

Standard sample order is 50 mL or multiples of 50 mL. Bulk packaging is also available.

[1]recommended for use on the following substrates: inkjet paper, Novele™ IJ-220, PET, Polyimide, glass

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Contact us today to learn more.
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Performance with Traditional Oven Thermal Processing on Novele™ IJ-220

	Resistivity (µohm-cm)			
Time (min)	**25C**	**60C**	**100C**	**125C**
0	31	35	38	35
5	25	9.8	6.9	5.8
480 (8 hours)	8.0	7.4	6.5	5.7

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