

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 coated substrates including NoveleTM, various photo papers, and inkjet papers. JS-B25HV ink is specially formulated for compatibility and stability with Dimatix printheads. A printing waveform for the Dimatix DMP 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							
		U	Inits	JS-B25HV				
	Thin film resistivity	Micro of	nm-cm	2.8				
	Thin film sheet resistance	Milliohm	/square	50				
	Bulk resistivity comparisor	istivity comparison $\rho(\text{film})/\rho(\text{bulk Ag})$		1.8				
	Sample Information							
	Substrate¹: 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 PointNon-flammable							
	Property (typical value)	Units	JS-B25H	IV				
	Ag content	wt%	25					
	Viscosity	cР	8-10					
	Surface tension	dyne/cm	30-32					
	z-avg particle size ²	nm	60-80					
	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.							

¹recommended for use on the following substrates: inkjet paper, Novele™ IJ-220, various photo papers

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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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