

Metalon® Conductive Inks for Printed Electronics

www.novacentrix.com

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		licro ohm–cm	2.8					
	Thin film sheet resistance		1illiohm/square	50					
	Bulk resistivity comparison		(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 PointNon-flammable								
		Units	JS-B25	IV					
	Ag content	wt%	25						
	Viscosity	сP	8	8					
	Surface tension	dyne/o	cm 30-32						
	Z-avg particle size ²	nm	60						
	Specific gravity	_	1.3						
	² Malvern dynamic light scattering	g							
Shipping and	Standard sample order i	is 50 ml	or multiplas of	50 ml Bulk	nackaning is also				

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

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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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