



Metalon® Conductive Inks for Printed Electronics

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Metalon® JS-B25P

Nanosilver Inkjet Ink – Aqueous dispersion for Dimatix and Epson Printheads

JS-B25P is an electrically conductive ink designed to produce circuits on substrates such as Novele™ (PET with a microporous inkjet receptive coating) and photo paper. JS-B25P is specially formulated for compatibility and stability with piezo-inkjet printheads such as those used in Epson desktop printers and the Dimatix Samba system.

Performance Properties	<p>Metalon JS-B25P when printed and cured, produces conductive traces that can attain weight resistivity of 3x – 5x bulk Ag.</p> <p>Typical Performance</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%;">JS-B25P</th> <th style="width: 20%;">Units</th> </tr> </thead> <tbody> <tr> <td>Sheet resistance¹</td> <td>60 - 70</td> <td>milli-ohm/square</td> </tr> <tr> <td>Adhesion</td> <td>5B</td> <td>–</td> </tr> <tr> <td>Pencil hardness</td> <td>>4H</td> <td>–</td> </tr> </tbody> </table> <p>Sample Information</p> <p>Substrate²: Novele™ IJ-220 (a coated PET) Printer: Low-cost consumer inkjet, single pass Post-Process Tool: PulseForge® 1200 Environment: Atmosphere – no special preparation</p>		JS-B25P	Units	Sheet resistance ¹	60 - 70	milli-ohm/square	Adhesion	5B	–	Pencil hardness	>4H	–						
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Physical Properties	<p>General Description Water-based Ag ink Flash Point Non-flammable</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 20%;">JS-B25P</th> <th style="width: 40%;">Units</th> </tr> </thead> <tbody> <tr> <td>Ag content</td> <td>25</td> <td>wt%</td> </tr> <tr> <td>Viscosity</td> <td>3 - 5</td> <td>cP</td> </tr> <tr> <td>Surface tension</td> <td>28 - 32</td> <td>dyne/cm</td> </tr> <tr> <td>z-average size²</td> <td>60 - 80</td> <td>nm</td> </tr> <tr> <td>Specific gravity</td> <td>1.3</td> <td>–</td> </tr> </tbody> </table> <p><small>² Malvern dynamic light scattering</small></p>		JS-B25P	Units	Ag content	25	wt%	Viscosity	3 - 5	cP	Surface tension	28 - 32	dyne/cm	z-average size ²	60 - 80	nm	Specific gravity	1.3	–
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Shipping and Packaging	Standard sample order is 50 mL or multiples of 50 mL. Bulk packaging is also available.																		

¹Using max ink output settings on desktop printer.

²Recommended for use on the following substrates: photo paper, Novele™ IJ-220
 not currently recommended for use on the following substrates: uncoated PET, glass, ITO

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Contact us today to learn more.
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