

Metalon™ Conductive Inks for Printed Electronics

Metalon™ JS-011

Nanosilver Ink – Aqueous dispersion

JS-011 is an electrically conductive ink designed to produce circuits on porous substrates, such as paper. **JS-011** ink is especially formulated to produce a stable ink dispersion necessary for ink jet printing methods.

Performance properties	<p>Metalon JS-011 when printed and cured produces conductive traces that attain 5x-10x bulk Ag resistivity.</p> <p>Conductivity: Performance properties on inkjet photo paper After thermal processing (30 min @100°C) At 0.3-0.4 microns</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">Units</th> <th style="width: 25%;">JS-011</th> </tr> </thead> <tbody> <tr> <td>Resistivity</td> <td>Micro ohm-cm</td> <td>18</td> </tr> <tr> <td>Sheet Resistance</td> <td>milliOhm/Square</td> <td>500</td> </tr> <tr> <td>Bulk conductivity</td> <td>Rho Film/Bulk Ag</td> <td>11</td> </tr> </tbody> </table> <p>Conductivity: Performance properties on inkjet photo paper After PulseForge™ processing At 0.3-0.4 microns</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">Units</th> <th style="width: 25%;">JS-011</th> </tr> </thead> <tbody> <tr> <td>Resistivity</td> <td>Micro ohm-cm</td> <td>10</td> </tr> <tr> <td>Sheet Resistance</td> <td>milliOhm/Square</td> <td>300</td> </tr> <tr> <td>Bulk conductivity</td> <td>Rho Film/Bulk Ag</td> <td>7</td> </tr> </tbody> </table>		Units	JS-011	Resistivity	Micro ohm-cm	18	Sheet Resistance	milliOhm/Square	500	Bulk conductivity	Rho Film/Bulk Ag	11		Units	JS-011	Resistivity	Micro ohm-cm	10	Sheet Resistance	milliOhm/Square	300	Bulk conductivity	Rho Film/Bulk Ag	7
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Physical Properties	<p>General DescriptionWater based Ag ink Viscosity 1-5 cps Specific Gravity1.1 (8.9 lbs./gal.) Flash Point Non Flammable Particle Size</p> <p style="text-align: center;">Horiba Light Scattering Method</p> <p style="text-align: center;">D50 200 nm D95 400 nm</p> <p>Ag Content 10%</p>																								
Shipping and Packaging	Available in 4oz – 32 oz containers, as well as 1 and 5 gallon pails																								

Contact us today to learn more.

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