



Metalon™ Conductive Inks for Printed Electronics

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Metalon™ JS-015

Nanosilver Ink – Aqueous dispersion

JS-015 is an electrically conductive ink designed to produce circuits on porous substrates, such as paper, and non-porous substrates such as PET or glass. **JS-015** ink is especially formulated to produce a stable ink dispersion necessary for ink jet printing methods.

Performance properties	<p>Metalon JS-015 when printed and cured produces conductive traces that attain 2x-5x bulk Ag resistivity.</p> <p>Conductivity: Performance properties on inkjet photo paper After thermal processing (20 min @110°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-015</th> </tr> </thead> <tbody> <tr> <td>Resistivity</td> <td>Micro ohm-cm</td> <td style="text-align: center;">48</td> </tr> <tr> <td>Sheet Resistance</td> <td>milliOhm/Square</td> <td style="text-align: center;">1600</td> </tr> <tr> <td>Bulk conductivity</td> <td>Rho Film/Bulk Ag</td> <td style="text-align: center;">31</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-015</th> </tr> </thead> <tbody> <tr> <td>Resistivity</td> <td>Micro ohm-cm</td> <td style="text-align: center;">2.4</td> </tr> <tr> <td>Sheet Resistance</td> <td>milliOhm/Square</td> <td style="text-align: center;">105</td> </tr> <tr> <td>Bulk conductivity</td> <td>Rho Film/Bulk Ag</td> <td style="text-align: center;">2.0</td> </tr> </tbody> </table>		Units	JS-015	Resistivity	Micro ohm-cm	48	Sheet Resistance	milliOhm/Square	1600	Bulk conductivity	Rho Film/Bulk Ag	31		Units	JS-015	Resistivity	Micro ohm-cm	2.4	Sheet Resistance	milliOhm/Square	105	Bulk conductivity	Rho Film/Bulk Ag	2.0
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Physical Properties	<p>General DescriptionWater based Ag ink Viscosity 1-5 cps Specific Gravity1.2 (10.0 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 15%</p>																								
Shipping and Packaging	Available in 4oz – 32 oz containers, as well as 1 and 5 gallon pails																								

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See reverse for thermal processing data

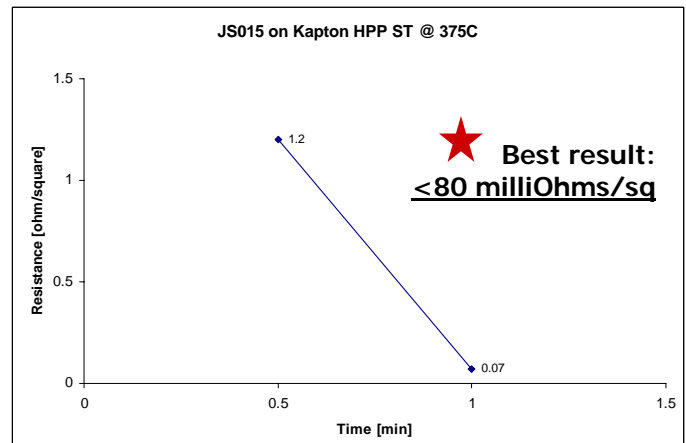
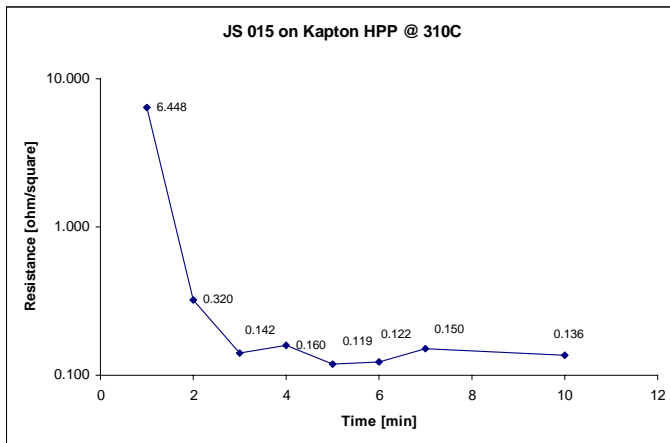
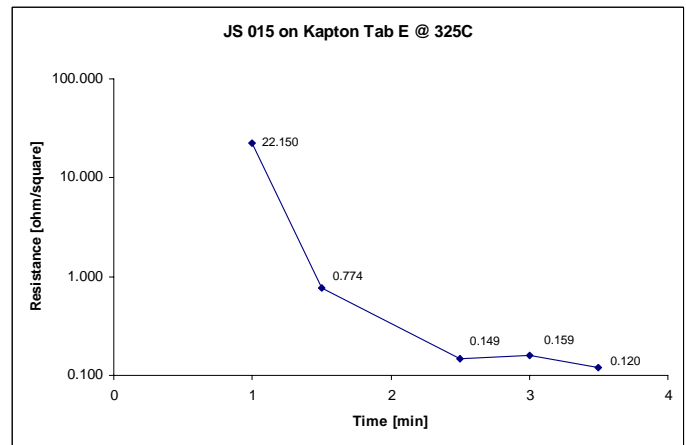
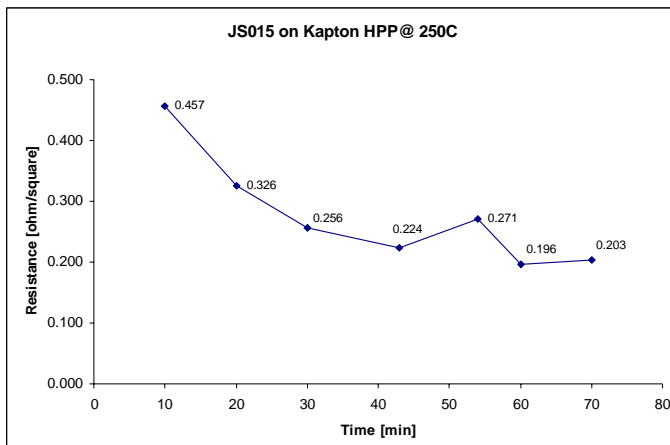
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Performance with Traditional Thermal Processing on Polyimides



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