



## Metalon® Conductive Inks for Printed Electronics

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### Metalon® JS-A191

#### Nanosilver Ink – Aqueous dispersion for Inkjet Printing

**JS-A191** is an electrically conductive ink designed to produce circuits on non-porous, temperature-sensitive substrates including polycarbonate and PET. The ink can be thermally cured or PulseForge® processed. The JS-A series inks are specially formulated for compatibility and stability with various printheads including those manufactured by Dimatix and Xaar. Printing waveforms are available by request.

<b>Performance Properties</b>	<b>PulseForge 1200</b>	<b>Thermal<sup>2</sup></b>	<b>Units</b>	
	<b>Sheet resistance</b>	25	< 100	milli-ohm/square
	<b>Volume resistivity<sup>1</sup></b>	7.8E-06	< 3.1E-05	ohm-cm
	<b>Crosshatch adhesion</b>	5B	5B	--
	<b>Pencil hardness</b>	>4H	>4H	--
<p>Printed on Melinex ST505 with Dimatix DMP-2831 at 20 micron drop spacing.</p> <p><sup>1</sup>Value calculated based on estimate of 50% porosity of cured print.</p> <p><sup>2</sup>Thermal cure: 140C 10 minutes</p>				
<b>Physical Properties</b>	<b>General Description</b> ..... Water-based Ag ink			
	<b>Flash Point</b> .....Non-flammable			
		<b>Value</b>	<b>Units</b>	
	Ag content	40	wt%	
	Viscosity	8-12	cP	
	Surface tension	28-32	dyne/cm	
	z-avg particle size <sup>3</sup>	30-50	nm	
Specific gravity	1.6	–		
<sup>3</sup> Malvern dynamic light scattering				
<b>Shipping and Packaging</b>	Standard sample order is 50 mL or multiples of 50 mL. Bulk packaging is also available.			

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**Contact us today to learn more.**  
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