

## **Metalon® Conductive Inks for Printed Electronics**

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## Metalon<sup>®</sup> JS-A101A and JS-A102A

## Nanosilver Ink – Aqueous dispersions for Inkjet Printing

**JS-A101A and JS-A102A** are electrically conductive inks designed to produce circuits on non-porous, temperature-sensitive substrates including polycarbonate and PET. The inks can be thermally cured or PulseForge<sup>®</sup> processed. The JS-A series inks are specially formulated for compatibility and stability with various printheads including those manufactured by Dimatix, Xaar and HP. Printing waveforms are available by request.

Performance		PulseFor	ge 1200	Thermal <sup>3</sup>		
Properties		JS-A101A	JS-A102A	JS-A101A	JS-A102A	Units
	Sheet resistance <sup>1</sup>	25	25	< 100	< 100	milli-ohm/square
	Volume resistivity <sup>2</sup>	7.8E-06	7.8E-06	< 3.1E-05	< 3.1E-05	ohm-cm
	Pencil hardness	>4H	>4H	>4H	>4H	
	Printed on Melinex ST505 with Dimatix DMP-2831 at 20 micron drop spacing.					
	The inks also display excellent crosshatch adhesion and water resistance after full curing.					
	<sup>1</sup> Typical values.					
	<sup>2</sup> Value calculated based on estimate of 50% porosity in cured print.					
	<sup>3</sup> Thermal cure: 140C 10 minutes					
Physical Properties	General Description Water-based Ag ink Flash PointNon-flammable					
		JS-A1	01 J	IS-A102	Units	
	Ag content	40		40	wt%	
	Viscosity	5-7		8-12	сP	
	Surface tension	19-30	)	19-30	dyne/cm	1
	z-avg particle size4	30-50	)	30-50	nm	
	Specific gravity	1.6		1.6	_	
	<sup>4</sup> Malvern dynamic light scattering					
Shipping and Packaging	Standard sample order is 50 mL or multiples of 50 mL. Bulk packaging is also available.					

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