Metalon® Conductive Inks for Printed Electronics

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Metalon® JS-A101 and JS-A102

Nanosilver Ink – Aqueous dispersions for Inkjet Printing

JS-A101 and JS-A102 are electrically conductive inks designed to produce circuits on non-porous substrates including polycarbonate, PET, and polyimide. The inks 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.

Performance Properties

	PulseForge 1200		Thermal[2]		
	JS-A101	**JS-A102**	**JS-A101**	**JS-A102**	**Units**
Sheet resistance	20-25	20-25	150-200	150-200	milli-ohm/square
Volume resistivity[1]	3.9E-06	3.9E-06	4.7E-05	4.7E-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.

[1]Value calculated based on estimate of 50% porosity of cured print.

[2]Thermal cure: 140C 10 minutes

Physical Properties

General Description ..... Water-based Ag ink
Flash Point .....Non-flammable

	JS-A101	**JS-A102**	**Units**
Ag content	40	40	wt%
Viscosity	5-7	8-12	cP
Surface tension	25-30	25-30	dyne/cm
z-avg particle size[2]	40-60	40-60	nm
Specific gravity	1.6	1.7	–

[2] 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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Contact us today to learn more.
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