

Metalon® Conductive Inks for Printed Electronics

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Metalon® JS-A102A

Nanosilver Ink - Aqueous dispersions for Inkjet Printing

JS-A102A is an electrically conductive ink designed to produce circuits on porous and non-porous substrates such as coated papers and polymeric films including polycarbonate and PET. This ink can be thermally cured at temperatures as low as 100°C or PulseForge® processed for enhanced conductivity. The ink is formulated for printing from the Dimatix DMP series printers. Please inquire about suitability for other print heads.

Performance		B E 4000	- 1 13	1
Properties		PulseForge 1200	Thermal ³	
оро. шоо		JS-A102A	JS-A102A	Units
	Sheet resistance ¹	25	< 100	milli-ohm/square
	Volume resistivity ²	7.80E-06	< 3.1E-05	ohm-cm
	Pencil hardness	>4H	>4H	
	Printed on Melinex ST505 with Dimatix DMP-2831 at 20 micron drop sp			
	The inks also display excellent crosshatch adhesion and water resistant curing.			
	¹ Typical values.			
	² Value calculated based on estimate of 50% porosity in cured print.			
	³ Thermal cure: 140C 10) minutes		
Physical Properties	General Description Water-based Ag ink Flash PointNon-flammable			
		JS-A10	2 Units	
	Ag content	40	wt%	
	Viscosity	8-12	cP	
	Surface tension	19-30	dyne/cm	
	z-avg particle size	4 30-50	nm	
	Specific gravity	1.6	_	
	⁴Malvern dynamic light scattering			
Shipping and Packaging	Standard sample order is 50 mL or multiples of 50 mL. Bulk packaging available.			

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Contact us today to learn more.

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