



Metalon® Conductive Inks for Printed Electronics

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Metalon® JS-A211

Nanosilver Ink – Aqueous dispersion for Inkjet Printing

JS-A211 is an electrically conductive ink designed to produce circuits on non-porous, temperature-sensitive substrates including polycarbonate, PET, polyimide, and glass. The ink contains a fluoropolymer which provides excellent adhesion and water-resistance on most substrates. The JS-A series of 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	Cure temperature (°C)	Cure time (minutes)	Volume Resistivity (Ω-cm)¹	Crosshatch Adhesion	Substrate
	100	60	7.3 E-4	5B	PET
	120	60	2.4 E-4	5B	PET
	140	30	8.6 E-5	5B	PET
	175	10	2.1 E-5	5B	Polyimide
	200	5	1.3 E-5	5B	Polyimide
	250	5	7.7 E-6	5B	Polyimide
	¹ Value calculated based on estimate of 25% porosity of cured print.				
Physical Properties	General Description Water-based Ag ink				
	Flash Point Non-flammable				
		Value	Units		
	Ag content	40	wt%		
	Viscosity	8-12	cP		
	Surface tension	28-32	dyne/cm		
	z-avg particle size ³	30-50	nm		
Specific gravity	1.6	–			
³ 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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