



Metalon[®] Conductive Inks for Printed Electronics

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Metalon[®] JS-A010ET

Nanoparticle Silver Ink – Aqueous formulation for Consumer Desktop Printers

JS-A010ET is an electrically conductive ink designed to produce prints on a variety of substrates including Novele, Epson photo paper, PET, polyimide, and polycarbonate. The ink can be loaded directly into consumer desktop printers for quick testing of various images. This formulation has been specifically tested with the EPSON EcoTank ET-M1170.

Performance Properties	Cure temperature (°C)	Cure time (minutes)	Volume Resistivity (Ω-cm)¹	Substrate
	Room temperature	NA	< 0.15 ohm/square ²	Novele
	Room temperature	NA	< 0.20 ohm/square ²	Epson photo paper
	100	60	3.2 E-5	PET
	120	60	2.1 E-5	PET
	140	30	1.8 E-5	PET
	175	15	7.1 E-6	Polyimide
	200	15	4.1 E-6	Polyimide
	225	15	3.6 E-6	Polyimide
	250	15	2.4 E-6	Polyimide
	275	15	1.8 E-6	Polyimide
¹ Typical value calculated based on estimate of 25% porosity of cured print.				
² Typical sheet resistance reported instead of volume resistivity.				
Physical Properties	General Description: Water-based Ag ink			
	Flash Point: Non-flammable			
		Typical Value	Units	
	Ag content	30	% w/w	
	Viscosity	3 - 5	cP	
	Surface tension	22 - 25	dyne/cm	
	z-avg particle size ³	30-40	nm	
Specific gravity	1.4	—		
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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