

## Metalon® Conductive Inks for Printed Electronics

## www.novacentrix.com

## Metalon® JS-B40G

## Nanosilver Ink - Aqueous dispersion for Dimatix Printheads

**JS-B40G** is an electrically conductive ink designed to produce circuits on non-porous substrates including ITO-coated substrates, PET, polyimide, and glass. JS-B40G ink is specially formulated for compatibility and stability with Dimatix printheads. A printing waveform for Dimatix DMP heads is available.

Performance Properties	<b>Metalon JS-B40G</b> when printed and cured, produces conductive traces that can attain weight resistivity <2x bulk Ag.			
	Typical Performance			
	Thermal processing (min 180°C required)			
	Glass (10min@250C) – 1.7x bulk Ag (based on weight resistivity)			
	Polyimide (10min@250C) – 4.4x bulk Ag (based on weight resistivity)			
	Polyimide (20min@250C) – 3.2x bulk Ag (based on weight resistivity)			
	>4H, water / IPA / acetone resistant			
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	PulseForge processing			
	Polyester – <500 milli-ohm/square			
	Polycarbonate – <500 milli-ohm/square			
Physical	General Description Water-based Ag ink Flash PointNon-flammable			
Properties	Fiasii FuiiiNuii-iidiiiiiabie			
		JS-B40G	Units	
	Ag content	40	wt%	
	Viscosity	8-12	cP	
	Surface tension	28-32	dyne/cm	
	z-avg particle size <sup>2</sup>	60-80	nm	
	Specific gravity	1.56	_	
	<sup>2</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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Contact us today to learn more.

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