

# Metalon<sup>®</sup> Conductive Inks for Printed Electronics

#### www.novacentrix.com

### **Metalon® JR-700HV**

#### Carbon Ink – Aqueous dispersion for Inkjet Printing

**JR-700HV** is a resistive ink designed to be printed on a variety of porous and non-porous substrates including Novele<sup>™</sup>, polycarbonate, PET, polyimide, metals, and glass. The ink can be thermally cured or PulseForge® processed. The JR series of inks is 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	Substrate
	100	30	0.85	PET
	120	10	0.73	PET
	140	10	0.55	PET
	175	5	0.54	Polyimide
	200	5	0.54	Polyimide
	250	5	0.52	Polyimide
	Excellent adhesion and good water resistance.			
	<sup>1</sup> Value calculated based on estimate of 25% porosity of cured print.			
Physical Properties	General Description Water-based carbon ink Flash PointNon-flammable			
		Valu	ue Units	
	Carbon black conten	it 5	wt%	
	Viscosity	8-1	2 cP	
	Surface tension	30-	35 dyne/cm	_
	z-avg particle size <sup>2</sup>	120-	150 nm	_
	Specific gravity	1.	1 –	
	<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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