



# Metalon® Conductive Inks for Printed Electronics

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## Metalon® HPSC-U335

### High Conductivity Silver-Coated Copper Screen Ink

#### GENERAL INFORMATION

- Particle:** 3-micron silver-coated copper particles (35% w/w Cu)
- Substrates:** Paper, plastics, glass, metals
- Features:**
- Economical pricing
  - High metal loading (87% w/w metal)
  - High conductivity for low temperature curing
  - Excellent water and alcohol resistance
  - Flexible and good adhesion
  - Printing equipment cleans with isopropanol
  - Conductivity can be adjusted with Ag amount
  - Solderable

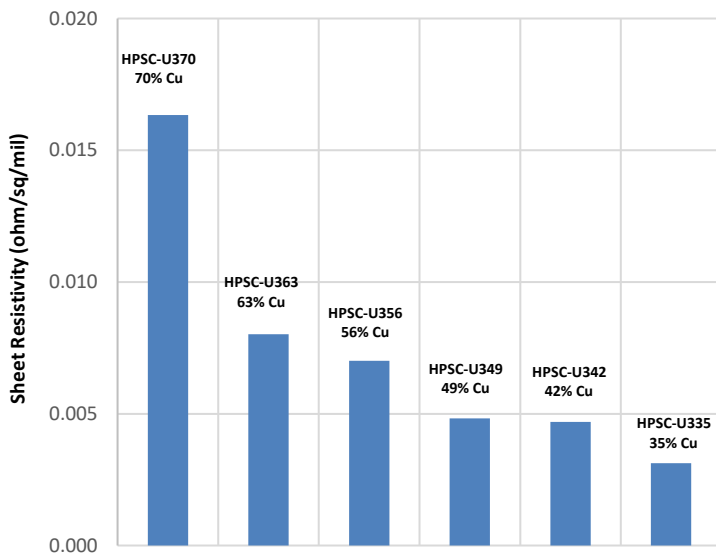
#### THERMAL CURE DATA

Cure Temperature <sup>1</sup> (°C)	Cure Time (minutes)	Volume Resistivity <sup>2</sup> (Ω-cm)	Sheet Resistivity <sup>2</sup> (Ω/sq/mil)
80	120	6.1E-05	0.024
100	120	2.1E-05	0.008
120	30	1.1E-05	0.004
140	15	0.8E-05	0.003
150	15	0.8E-05	0.003
175	15	0.8E-05	0.003
200	10	0.8E-05	0.003

<sup>1</sup>Pre-cure drying at 140C for 10 minutes for cure ≥ 175C

<sup>2</sup>Typical value (#10 drawdown and 25% porosity - typical dried coating 0.013g/cm<sup>2</sup>)

#### HPSC-U Silver-coated copper inks (cured at 140C)



<b>Physical Properties</b>	General description.....	Ag-coated Cu particle ink
	Viscosity (typical values)...	187,000 cP at 10 sec <sup>-1</sup> 61,000 cP at 100 sec <sup>-1</sup>
	Specific gravity.....	4.5
	Particle size.....	D50 - 3 microns
	Metal content.....	87% w/w
<b>Storage and Printing</b>	Storage.....	Refrigerated at 4-7 °C
	Shelf life.....	> 6 months
	Cleaning solvent.....	Isopropanol
	Screen mesh material.....	Stainless steel or polyester
	Screen mesh count.....	325 to 80 wires per inch
<b>Shipping and Packaging</b>	MOQ - 100 grams	

www.novacentrix.com  
 Contact us today to learn more.  
 nova.sales@novacentrix.com