



Metalon® Conductive Inks for Printed Electronics

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**Metalon® HPS-U57B
High Conductivity Silver Screen Ink**

- Particle:** 1.5 micron silver flake
- Substrates:** Paper, plastics, glass, metals, fabrics
- Features:**
- Very high conductivity for low temperature curing
 - Excellent water and alcohol resistance
 - Flexible and good adhesion to a variety of substrates
 - Printing equipment cleans with isopropanol

Thermal cure data:

Substrate	Cure Temperature ¹ (°C)	Cure Time (minutes)	Volume Resistivity ² (Ω-cm)	Sheet Resistivity ² (Ω/sq/mil)
PET - Melinex ST505	100	60	1.7E-05	0.0065
	120	30	1.0E-05	0.0040
	140	30	9.2E-06	0.0036
Polyimide – Kapton HN	175	15	8.6E-06	0.0034
	200	15	8.3E-06	0.0033
	225	15	8.0E-06	0.0031
	250	15	7.8E-06	0.0031
	275	15	7.4E-06	0.0029

¹Pre-cure drying at 120C for 10 minutes for cure >175C, ²Typical value based on #10 drawdown and 25% porosity, typical dried coating 0.005g/cm²

Physical Properties	General Description	Ag flake ink in butyl carbitol
	Viscosity (typical values)	60,000 cP at 1sec ⁻¹ , 20,000 cP at 100 sec ⁻¹
	Specific Gravity	2.6
	Flash Point	Non-flammable
	Particle Size	D50 1.5 micron D90 4.0 micron
	Ag Content	70 wt%
Storage and Printing	Storage	Room temperature
	Shelf life	>6 months
	Cleaning solvent	Isopropanol
	Screen mesh material	Stainless steel or polyester
	Screen mesh count	400 to 80 wires per inch
Shipping and Packaging	Standard sample order is 100g or multiples of 100g. Inquire directly for packaging of larger quantities.	

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 Contact us today to learn more.
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