



Metalon® Conductive Inks for Printed Electronics

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Metalon® HPS-FG57B Silver Screen Ink

- Particle:** 1.5 micron silver flake
Substrates: Paper, plastics, glass, metals, fabrics
Features: Solderable, flexible, excellent water resistance
 Printable on permeable substrates and textiles, resistant to wash cycles
 Adheres well to a variety of substrates.

Thermal cure data:

Substrate	Cure Temperature (°C)	Cure Time (minutes)	Sheet Resistance (mΩ/sq) ¹	Weight Resistivity (Ω-g/m ²)	Volume Resistivity ² (μΩ-cm)	Sheet Resistivity ³ (mΩ/sq/mil)
Melinex ST505	120	30	23	1.14	27.0	11
	140	10	20	1.03	24.3	10
Polyimide	175	5	16	0.80	17.6	7
	200	5	15	0.74	26.4	7
	250	5	10	0.48	11.4	4

¹ At 0.05 kg/m² dry ink coverage (150cm²/g wet ink), ²At 25% porosity, ³ Based on 10 micron print with 25% porosity

Physical Properties	General Description Ag flake ink in butyl carbitol Viscosity (typical values) 105,000cP at 0.1sec ⁻¹ , 22,000cP 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.
inktechnicalsupport@novacentrix.com