

Metalon® Conductive Inks for Printed Electronics

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Metalon® HPS-FG77

Silver Screen Ink

Particle: 0.3 micron diameter silver flake **Substrates:** Paper, plastics, glass, metals

Features: Fine line printing, solderable, flexible, high Ag loading (85wt%)

Good for dispensing tools as well as screen printing.

Adheres well to a variety of substrates.

Can be cleaned with water.

Thermal cure data (typical values):

Substrate	Cure Temperature (°C)	Cure Time (minutes)	Sheet Resistance (mΩ/sq) ¹	Volume Resistivity ² (μΩ-cm)	Sheet Resistivity³ (mΩ/sq/mil)
Melinex ST505	120	30	17	17.1	6.7
	140	10	15	15.8	5.6
Polyimide	175	5	12	13.0	5.1
	200	5	11	12.0	4.7
	225	5	6	6.2	2.5

¹ At 0.08 kg/m² dry ink coverage, ²At 25% porosity, ³ Based on print with 25% porosity

Physical Properties	General Description	Ag flake ink in butyl carbitol		
,	Viscosity (typical values)25,000 cP at 10 sec ⁻¹ , 5,000 cP at 100 sec ⁻¹			
	Specific Gravity	4.2		
	Flash Point	99C		
	Particle Size (typical values)	D50 0.3 micron		
	, ,	D90 0.5 micron		
	Ag Content	85 wt%		
Storage and Printing	Storage	Room temperature		
5	Shelf life>6 months			
	Cleaning solvent	Water		
	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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