

Metalon® Conductive Inks for Printed Electronics

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Metalon® HPS-FG32 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 TPU inlays

Thermal cure data:

Substrate	Cure Temperature (°C)	Cure Time (minutes)	Sheet Resistance $(m\Omega/sq)^1$	Weight Resistivity (Ω-g/m²)	Volume Resistivity ² (μΩ-cm)	Sheet Resistivity³ (mΩ/sq/mil)
Melinex ST505	120	30	25	1.25	23.8	10
	140	10	25	1.25	23.8	9
Polyimide	175	5	23	1.15	21.9	9
	200	5	16	0.80	15.2	6
	250	5	12	0.60	11.4	5

¹ At 0.05 kg/m2 dry ink coverage (150cm²/g wet ink), ²At 50% porosity, ³ Based on 10 micron print with 50% porosity

Physical Properties	General Description				
	Flash PointNon-flammable				
	Particle Size				
	D90 4.0 micron				
	Ag Content75 wt%				
Storage and Printing	StorageRoom temperature				
	Shelf life>6 months				
	Cleaning solvent				
	Screen mesh materialStainless steel or polyester				
	Screen mesh count400 to 80 wires per inch				
Shipping and	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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