Metalon® Conductive Inks for Printed Electronics

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Metalon® HPS-FG53

Nanoflake Silver Screen Ink

Particle: 0.3 micron diameter silver nanoflake
Substrates: Paper, plastics, glass, metals
Features: Solderable, flexible, excellent water resistance
Excellent adhesion to a variety of substrates
Small particle size allows finer line printing

Thermal cure data:

Cure Temperature[1] (°C)	Sheet Resistance[2] (Ω/sq)	Volume Resistivity[3] (Ω-cm)	Sheet Resistivity[3] (Ω/sq/mil)
100	0.045	67 E-06	0.027
125	0.033	50 E-06	0.024
150	0.028	42 E-06	0.020
175	0.020	29 E-06	0.017
200	0.010	16 E-06	0.006
225	0.004	6.5 E-06	0.003
250	0.003	5.5 E-06	0.002
275	0.002	3.5 E-06	0.001

[1] Typical cure time: 10-30 minutes, [2] Based on 15 micron print with 25% porosity, [3]At 25% porosity

Physical Properties	**General Description**.....Ag flake ink in butyl carbitol **Viscosity (typical values)**.....90,000 cP at 1sec^{-1}, 17,000 cP at 10 sec^{-1}, 5000 cP at 100 sec^{-1} **Specific Gravity**.....3.2 **Flash Point**.....99°C (flash point of solvent – closed cup) **Particle Size (typical)**.....D50 0.3 micron D90 0.6 micron **Ag Content**.....77 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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