

Xerox Silver Complex Pneumatic Aerosol Jet Ink Product Code: xcm-csPA

Xerox silver complex ink is a particle-free, thermal decomposition ink designed and manufactured at the Xerox Research Centre of Canada.

Technology

- Silver-based particle-free ink
- Resistivity up to 10x bulk silver
- Alcohol-based ink vehicle
- Compatibility with a wide variety of substrates: PC, PET, PI, PC-ABS, glass
- Customization available
- Produced at kilo-scale in XRCC pilot plant with consistent lot-to-lot reproducibility



Ink Characteristics

Viscosity	150 cps
Surface Tension	25 – 28 mN/m
Ink Vehicle	alcohol
Metal Content	20 wt %
Cure (thermal under ambient)	130 °C and above / > 10 minutes

Materials Performance

Sheet Resistance	0.2 – 0.3 Ω / square
Conductivity	$> 6 \times 10^4$ S-cm ⁻¹

Conductive traces were printed using an Optomec Sprint print system. Printed line widths of 1 - 2 mm with sintered pile heights of 1.5 μ m were achieved when printed using the following conditions: 300 μ m nozzle, 50 sccm sheath gas (N₂), 40 sccm push gas (N₂).

Engage Us

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