

# Xerox Silver Nanoparticle Flexographic Ink

## Product Code: xcm-nsFLX

Xerox silver nanoparticle ink is based on proprietary silver nanoparticles designed and created at the Xerox Research Centre of Canada.

### Technology

- Low annealing temperature (120 °C) enabled by small and uniform particles (8 nm ± 2 nm)
- Benchmark resistivity: up to 1.5x bulk silver
- Hydrocarbon-based ink vehicle
- Customization available
- Produced at kilo-scale in XRCC pilot plant with consistent lot-to-lot reproducibility

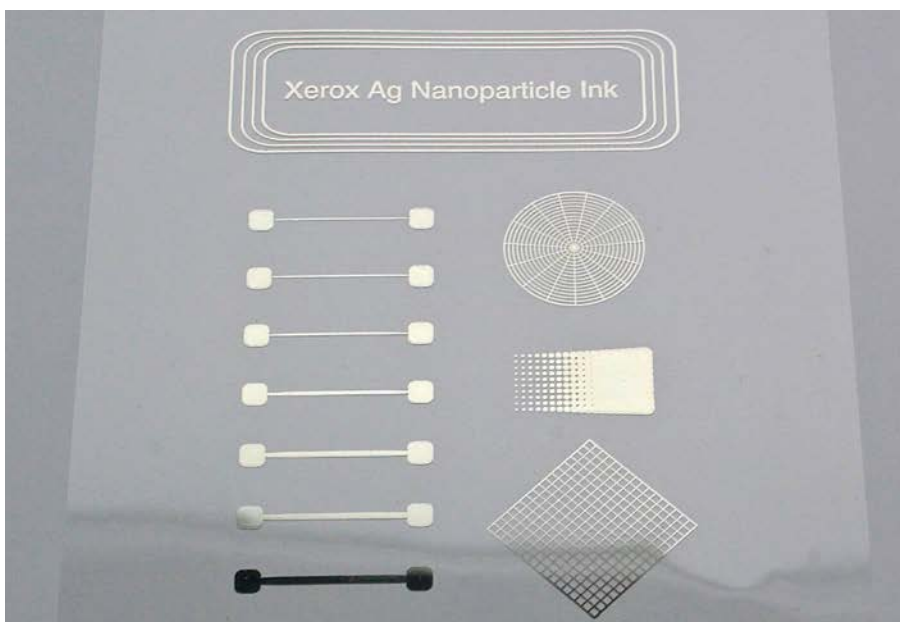
### Ink Characteristics

Viscosity	tunable
Surface Tension	23 – 30 mN/m
Ink Vehicle	hydrocarbon
Metal Content	tunable
Particle Size	< 20 nm
Cure (thermal under ambient)	120 °C and above / 10 minutes or less

### Materials Performance

Sheet resistance	0.1 – 0.3 Ω / square
Conductivity	> 1 x 10 <sup>5</sup> S·cm <sup>-1</sup>

Sheet resistance was measured by spin coating onto glass at 2000 rpm and curing at 140 °C for 9 minutes.



### Engage Us

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