



## Metalon<sup>®</sup> Conductive Inks for Printed Electronics

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### Metalon<sup>®</sup> PSPI-0250 Conductive Silver Spray Ink

#### Product Description

PSPI-0250 is a water-based, silver nanoparticle spray ink which exhibits low viscosity and is suitable for applications where high electrical conductivity is required.

#### Key Benefits

- Excellent flow properties and spray coverage
- Cured films with high electrical conductivity
- Good water and alcohol resistance
- Good adhesion to PET, polycarbonate, and polyimide
- Easy cleanup with soap and water

#### Physical Properties

Silver Content (wt. %)	40 (± 2)
Density (wet ink)	1.5 - 1.7 g / mL (13 - 14 lb / gal)
Viscosity @1 s <sup>-1</sup>	10 - 30 cP
Viscosity @1000 s <sup>-1</sup>	10 - 30 cP
pH	5.70 to 5.90
Volume Resistivity <sup>†</sup>	9 - 11 μΩcm
Sheet Resistance	90 to 110 mΩ / sq at 1 μm (typical DFT)
Shelf Life	> 8 months with refrigeration and pH adjustment

<sup>†</sup> A cure temperature of 140°C was used

#### Typical Results

- 2 μm cured film thickness can be deposited with a single spraying step, 0.2 - 0.8 mm<sup>2</sup> nozzle delivery area, 20 - 30 psi
- 30 minutes at 70°C (convection heating)
- 10 minutes at 100°C (convection heating)
- 5 minute at 120°C (convection heating)

Please contact us at [inktechnicalsupport@novacentrix.com](mailto:inktechnicalsupport@novacentrix.com) to learn more, for detailed application information, or for assistance. Ink can be ordered at [store.novacentrix.com](http://store.novacentrix.com)