



## Metalon® Conductive Inks for Printed Electronics

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### Metalon® CI-006

#### Nanocopper Ink for the Aerosol Jetting

**Particle:** 90 nm spherical copper

**Substrates:** Polyimide, PET

**Features:** Solderable, flexible

#### Sintering data:

Polyimide: 830 nm laser under either a nitrogen or hydrogen/nitrogen atmosphere. Volume resistivity from 3.4 to 6.8  $\mu\Omega$ -cm.

PET: 190°C in a formic acid / nitrogen reducing atmosphere gives a volume resistivity of 7.7  $\mu\Omega$ -cm.

**Preparation for Printing:** Mix on rollers at least 30 min, leave on rollers until ready to use

#### Additional Properties:

<b>Physical Properties</b>	<b>General Description</b> .....Spherical copper ink in glycolic solvents <b>Viscosity (typical values)</b> .....30-40 cP <b>Specific Gravity</b> .....2.6 <b>Particle Size</b> .....D50      90 nm  <b>Cu Content</b> .....60 wt%
<b>Storage and Printing</b>	<b>Storage</b> .....Room temperature <b>Shelf life</b> .....>6 months <b>Cleaning solvent</b> .....Isopropanol
<b>Shipping and Packaging</b>	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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