

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

novacentrix.com

### Metalon<sup>®</sup> CP-009

#### Copper Paste for Laser & Photonic Sintering

##### Product Overview

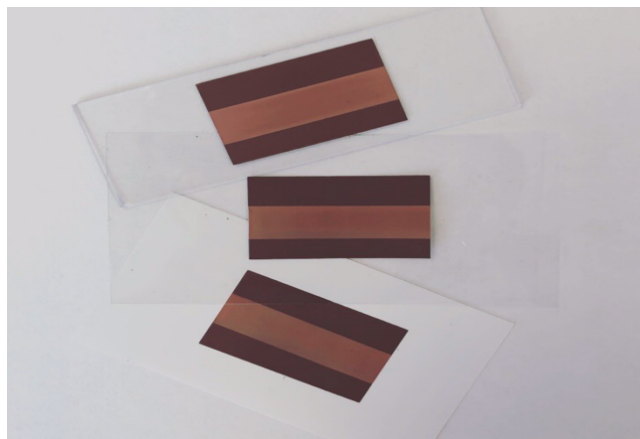
CP-009 is a screen printable copper paste, suitable for fine line, high resolution printing, is formulated to provide excellent conductivity and adhesion using laser or photonic sintering, and can be used on a variety of substrates including glass, ceramic, fabrics, PET (Melinex ST506) & paper.

##### Applications

CP-009 paste formulation is designed to be compatible with both PET & glass. The paste can also be used with a variety of other substrates common in industries such as consumer electronics and automotive. Applications include: displays, microelectronics, and sensors & antennas.

##### General Use, Storage and Shelf Life

The product should be kept sealed in its container and stored at room temperature (<25°C). The shelf life of unopened containers is six months from date of shipment. Prior to use, please ensure that the paste is mixed thoroughly for a few minutes taking care to avoid introducing air to the paste.



screen printed & cured on PET, glass and paper.

##### Safety and Handling

For safety and handling information, please refer to the Material Safety Data Sheet (MSDS).

<b>Typical Compositional Properties</b>	<b>Solids Content</b> (Weight %) ..... ~ 82%  <b>Viscosity [Pa.S]</b> (Anton Paar MCR-301 at 50 <sub>s</sub> <sup>-1</sup> @ 25°C) ..... 25 – 35  <b>Density [g/ml]</b> ..... ~ 3.1
<b>Typical Electrical &amp; Physical Properties (Cured)</b>	<b>Sheet Resistance</b> [mΩ/sq/25μm] ..... ~ 10  <b>Adhesion</b> (ASTM D3359)..... 5B  <b>Cured Thickness [μm]</b> ..... 10 – 15

Contact us today to learn more.

For detailed application information or additional assistance: [inktechnicalsupport@novacentrix.com](mailto:inktechnicalsupport@novacentrix.com)  
 Ink can be ordered at [store.novacentrix.com](http://store.novacentrix.com)





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<b>Processing</b>	<b>Printing Equipment</b>	Flatbed Screen Printing <i>(both sheet and reel-to-reel)</i>
	<b>Screen Type</b>	Stainless steel mesh and polyester mesh
	<b>Line Thickness/Height</b> <i>(sintered)</i>	Typically 15 µm <i>(Depending on screen)</i>
	<b>Line Width</b>	Typically 125 µm
	<b>Ink on Screen (Printing Life)</b>	> 5 hours - <i>(Depending on printing process)</i>
	<b>Substrates</b>	PET, glass, ceramic, fabric & paper
	<b>Clean up solvent</b>	Isopropanol, acetone
	<b>Diluent/Thinner</b>	Formula available with order
	<b>Typical Drying Conditions</b>	Can be dried in standard convection ovens and vacuum ovens @ 60°C 30 – 60 minutes  Under IR Dryer @ 80°C 15 – 30 minutes  Forced air convection @ 80°C 15 – 30 minutes
	<b>Typical Sintering Conditions</b>	Laser processing 808 nm – 1064 nm NovaCentrix system or Xenon system
<b>Shipping and Packaging</b>	Standard sample order is 100g or multiples of 100g. Bulk packaging is also available.	

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