

Metalon[®]CP-009

Copper Paste for Laser & Photonic Sintering

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.



CP-009 screen printed & cured on PET, glass and paper.

Safety and Handling

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

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

Contact us today to learn more.

For detailed application information or additional assistance: inktechnicalsupport@novacentrix.com
 Ink can be ordered at store.novacentrix.com



Metalon® Conductive Inks for Printed Electronics

novacentrix.com

Metalon® CP-009

Nanocopper Paste for Laser & Photonic Sintering

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

Contact us today to learn more.

For detailed application information or additional assistance: inktechnicalsupport@novacentrix.com
Ink can be ordered at store.novacentrix.com