

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

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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	NovaCentrix Pulse Forge system Laser processing 808 nm – 1064 nm	
Shipping and Packaging	Standard sample order is 100g or multiples of 100g. Bulk packaging is also available.	

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