



Metalon® Conductive Inks for Printed Electronics

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Metalon® ICI-021 Copper Oxide Screen Ink – Aqueous dispersion

ICI-021 is a copper oxide ink which is chemically reduced post-printing into metallic copper by processing with PulseForge® tools. ICI-021 is designed to produce conductive traces on porous, low temperature substrates such as paper. ICI-021 ink is specially formulated for screen printing.

Performance Properties	<p>Metalon ICI-021 when printed and cured, produces conductive traces. ICI-021 prints MUST be processed by PulseForge® tools from NovaCentrix to become conductive. Thermal curing is not applicable. Printed traces of ICI-021 are not conductive prior to processing with PulseForge tools.</p> <p>Sheet resistance as low as 20 milliohm/square is achievable on paper using a 165 mesh screen.</p> <p>Print Information</p> <p>Substrate¹: Paper (Exact® Index – 110 lb. – Wausau Paper) Printer: Flat-bed manual screen printer (165 mesh screen) Post-Process Tool: PulseForge® 3200 or 3300 Environment: Atmosphere – no special preparation</p>
Physical Properties	<p>General Description.....Water-based copper oxide ink</p> <p>Viscosity..... Approx. 300,000 cP (Brookfield spindle LV #4, 1.5 rpm)</p> <p>Specific Gravity2.0</p> <p>Flash PointNon-flammable</p> <p>Particle SizeMalvern DLS method</p> <p> Z-average: approximately 250 nm</p> <p>CuO Content57.5 wt%</p>
Shipping and Packaging	Standard sample order is 100 g or multiples of 100 g. Inquire directly for packaging of larger quantities.

¹recommended for use on the following substrates: paper

not currently recommended for use on the following substrates: Novele™ IJ-220, glass, uncoated PET

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Contact us today to learn more.
Stan Farnsworth: 512 491 9500 x210
stan.farnsworth@novacentrix.com