

Creative Materials, Inc.
12 Willow Road
Ayer, MA 01432T 978.391.4700
F 978.391.4705**128-24****ECONOMICAL GOLD-FILLED CONDUCTIVE INK**

DESCRIPTION: 128-24 is a gold filled electrically conductive ink, coating and adhesive suitable for application by screen-printing, stenciling, and syringe dispensing. This product is also suitable for dipping and spraying with dilution. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. This product is useful for printing non-oxidizing gold electrodes when smooth surfaces or fine features are not required. Unlike typical gold inks 128-24 offers high coverage and lower cost. 128-24 relies solely on gold as a conductor and contains no conductive materials other than gold. Some applications for 128-24 include, but are not limited to, transdermal drug delivery, ECG electrodes, tens electrodes and muscle stimulator electrodes.

TYPICAL CURED PROPERTIES:

Viscosity (cps)	5,000
Filler	Gold
Volume Resistivity (Ω -cm)	0.025
Sheet Resistivity (Ω /sq./mil)	< 10
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to +200
Thermal Stability ($^{\circ}$ C)	Good to +250
Dry Film Coverage (in ² /gm/mil)	15

SUGGESTED HANDLING & CURING: 128-24 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner 120-08 and/or 113-12. Prior to using, be certain to resuspend gold. Best properties, for most applications, result when cured for several minutes at 170°C to 180°C. Good properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 50°C to 180°C. End user is advised to experimentally determine temperature and time best suited for individual applications. For screen-printing low thread count screens are required. For dispensing larger orifice needles are required.

STORAGE: Shelf Life - 6 months at 25°C; or 9 months at 5°C; or 12 months at -10°C.

SAFETY & HANDLING: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to results or possible infringements on patents.

REVISION DATE: 02/13/20 REVISION: B