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125-13HV

ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 125-13HV is an electrically conductive ink and coating suitable for application by screen-printing, stenciling, and syringe dispensing. Unlike conventional conductive materials, 125-13HV is capable of being printed at very fine line widths and spaces. This product features excellent adhesion to Kapton, Mylar, ITO sputtered surfaces, glass and a variety of other surfaces. This product is very resistant to flexing and creasing. Some applications for 125-13HV include, but are not limited to, bus bars for displays and touch panels, membrane switch, and fine feature flexible conductive features. 125-13HV has superior screen life when compared to other fine line conductive inks. 125-13HV is a version of 125-13 which is designed to print taller narrow lines with minimal spreading.

TYPICAL CURED PROPERTIES:

Consistency	Thick Paste
Filler	Silver
Percent Silver, cured	84
Crease Resistance	Excellent
Volume Resistivity (Ω -cm)	0.00004
Sheet Resistivity (Ω /sq/mil)	0.015
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to +200
Specific Gravity	3.38

SUGGESTED HANDLING & CURING: 125-13HV is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner 102-03 and/or butyl cellosolve acetate. Prior to using, be certain to resuspend silver. Best properties, for most applications, result when cured for several minutes at 170 $^{\circ}$ C to 180 $^{\circ}$ C. Good properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 50 $^{\circ}$ C to 150 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications. Stainless steel screen mesh of 400 threads/in and higher are recommended for finest features.

STORAGE: Shelf Life - 6 months at 25 $^{\circ}$ C; or 9 months at 5 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ 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: 11/20/13 REVISION: B