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PRODUCT FEATURES

- ✓ Excellent screen printing properties on various substrates
- ✓ Very good adhesion on paper, PET, mylar, glass, epoxy, polyamide, silicon oxide other substrate
- ✓ Dries quickly at low temperature
- ✓ Excellent resistant to abrasion, scratching, flexing and creasing
- ✓ Easy & Economic in use
- ✓ Good printability
- ✓ Good screen residence time

CONDUCTIVE CARBON INK-PASTE



Product Description

Carbon inks are lubricious, providing low friction and excellent thermal stability. They are also chemically inert, with low reactivity to solvents and other chemicals. Our carbon inks can be applied by screen-printing, dipping, and syringe dispensing and feature excellent adhesion to Kapton, Mylar, glass and a variety of other substrates. Unlike conventional conductive materials, carbon inks are very resistant to abrasion, scratching, flexing and creasing.



CONDUCTIVE CARBON INK-PASTE

Quick Facts

CAS	:	7440-44-0
Purity	:	99.9%
APS	:	<80nm
Appearance	:	Semi-Solid Paste

PROPERTIES

Viscosity	23500 cPs
Surface Resistivity	10.8 $\mu\Omega$.cm
Flash Point	>290°C
Curing Conditions	150°C x40min
Density	1.3g/cm ³
Hardness	>4H
Adhesion	100/100
Storage Temp.	7-15°C

To avoid premature solvent evaporation and lower risks of screen blockage the paste should be print-flood processed.

Application

- ✓ Photovoltaics
- ✓ Printed circuit board
- ✓ Power electronics
- ✓ EMI shielding
- ✓ In-mold electronics (automotive, home appliance, etc.)
- ✓ Electronic textile and wearable electronics
- ✓ 3D antennas and conformal printing
- ✓ Flexible hybrid electronics (FHE)
- ✓ Touch screen edge electrodes, automotive (defoggers, seat occupancy sensors, seat heaters, etc.)
- ✓ 3D printed electronics
- ✓ Multi-layer ceramic capacitors (MLCC)
- ✓ ITO replacement (hybrid, direct printing, etc)
- ✓ Printed piezoresistive
- ✓ Capacitive and biosensors
- ✓ PCB (DIY/hobbyist, professional, seed-and-plate)
- ✓ RFID (HF, UHF)
- ✓ Printed TFT and memory
- ✓ OLED and large-area LED lighting
- ✓ Flexible e-readers and reflective displays
- ✓ Large-area heaters (battery, plant, seat, etc.)
- ✓ Conductive pens
- ✓ Digitizers

CLEAN-Up

Clean the equipment by alcohol such as propanol or our thinner.

STORAGE AND shelf-life

Close the cap tightly and store the container at room temperature. Containers should be stored at room temperature (10-25oC) with lids tightly sealed.

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