



C2050517P1
Carbon Paste

PRODUCT DESCRIPTION

This is designed for screen-printing of working electrodes for electrochemical sensors. The paste is highly thixotropic which gives it very good definition on printing.

This product has been designed to be compatible with Polymer Silver which can be printed underneath the carbon to improve the conductivity of the printed electrodes.

Product Benefits

- Low coefficient of variation (CV%).
- This product has no significant hazardous materials.

PROCESSING

Screen Printing Equipment

Semi-Automatic, manual

Ink Screen Life

>3 hours

Screen Types

Stainless steel, polyester

Suitable for use with polyester or stainless steel meshes in the range of 156 to 230 tpi.

Typical Drying Conditions

Dry at 130°C for 10-15 minutes in a box oven.

Jet drying, infra-red, high speed and reel-to-reel equipment can be used successfully

Clean Up Solvent

Ethoxy Propanol

Substrate

Polyester, PVC, Polycarbonate or Ceramic.

Storage

The product should be kept sealed, in its container, and stored at room temperature (20°C)

Shelf Life

In a sealed container, stored correctly, the shelf life is minimum 6 months from despatch.

Diluent/ Thinner

S2080305D15.

PHYSICAL PROPERTIES

Solids Content at 130°C, 90 minutes	40.59 - 44.41%
Viscosity Haake RS1 C20/2° TiL at 230 sec ⁻¹ at 25°C.	3.4 - 4.6 Pa s
Coverage Using a 230 mesh stainless steel screen	541 cm ² per g
Sheet Resistivity Printed through 230 stainless steel mesh with 13 micron emulsion	107Ω/square
Cured Thickness Printed through a 230 stainless steel mesh with 13 micron emulsion	24 microns

SAFETY AND HANDLING

These inks are intended for industrial use by trained personnel. It is important for workers to avoid overexposure to chemicals contained in these products.

Read the Material Safety Data Sheet (MSDS) and product labels before using the products.

Keep product container closed when not in use to prevent solvent evaporation and spilling hazard

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