PRODUCT INFORMATION SHEET

C2000802P2
Carbon Paste

PRODUCT DESCRIPTION
This product is designed to be used for screen-printing working electrodes. This paste has been optimised to give superior electrochemical performance. It combines good line definition and good electrochemical performance with good reversibility when using cyclic voltammetry.

Product Benefits
This paste can be used in conjunction with UV dielectrics and paste is fast drying. For slower drying please see C2030519P4.

PROCESSING
PRODUCT MUST BE STIRRED PRIOR TO USE.

Screen Printing Equipment
Semi-Automatic, manual

Ink Screen Life
>3 hours

Screen Types
Stainless steel, polyester, mesh 156-325tpi

Typical Drying Conditions
For box-oven drying
60°C for 30 minutes or
80°C for 10-15 minutes
For belt-drier ovens
130°C for 10 minutes of element exposure

Clean Up Solvent
Ethoxy Propanol or Sericol

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 minimum 6 months from despatch.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Solids Content at 130°C</td>
<td>39 - 41%</td>
</tr>
<tr>
<td>Viscosity Haake RS1 C20/2º TiL at 230 sec⁻¹ at 25°C.</td>
<td>2.7 - 3.3 Pa s</td>
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<tr>
<td>Coverage Using a 230 mesh stainless steel screen</td>
<td>Typical - 305 cm² per g</td>
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<tr>
<td>Sheet Resistivity Printed through 230 stainless steel mesh with 13 micron emulsion</td>
<td>Below 50Ω/square at 25µm</td>
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<tr>
<td>Cured Thickness Printed through 230 stainless steel mesh with 13 micron emulsion</td>
<td>Typical – 15 microns</td>
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SAFETY AND HANDLING
These pastes 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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