PRODUCT INFORMATION SHEET

C2120309D4
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.

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 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.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Solids Content at 130°C, 90 minutes</td>
<td>41.0—42.5 %</td>
</tr>
<tr>
<td>Viscosity Haake RS1, C20/2° At 230sec⁻¹</td>
<td>4-8 Pa s</td>
</tr>
<tr>
<td>Coverage Using a 230 mesh stainless steel screen</td>
<td>268 cm² per g</td>
</tr>
<tr>
<td>Sheet Resistivity Printed through 230 stainless steel mesh with 13 micron emulsion</td>
<td>≤137Ω/square (Normalised to 25µm)</td>
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<tr>
<td>Cured Thickness Printed through a 230 stainless steel mesh with 13 micron emulsion</td>
<td>14 microns</td>
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</table>

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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