PRODUCT INFORMATION SHEET

C2130814D2
Carbon Paste

PRODUCT DESCRIPTION
This product is a Carbon paste. It is designed as a screen printable conductive paste for use in a variety of applications.

Product Benefits
This is a highly conductive Carbon Paste which also gives a tough, physically resistant printed film, good flexibility and adhesion. This paste gives good impedance results with a working range of 100kHz to 500Hz.

PROCESSING

Screen Printing Equipment
Semi-Automatic, manual

Ink Screen Life
>3 hours

Screen Types
The paste is 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 30 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>
</tr>
</thead>
<tbody>
<tr>
<td>Solids Content at 130°C, 60 minutes</td>
<td>34.0-38.0%</td>
</tr>
<tr>
<td>Viscosity Haake RS1 C20/2º TIl at 230 sec⁻¹ at 25°C.</td>
<td>5.5 - 10.0 Pas</td>
</tr>
<tr>
<td>Coverage Printed through 230 stainless steel mesh with 13 micron emulsion</td>
<td>1g of paste will cover approximately 400 sq cm.</td>
</tr>
<tr>
<td>Sheet Resistivity Printed through 230 stainless steel mesh with 13 micron emulsion</td>
<td>&lt; 10 ohms/sq normalised to 25µm</td>
</tr>
<tr>
<td>Cured Thickness Printed through a 230 stainless steel mesh with 13 micron emulsion</td>
<td>Typical 15 microns</td>
</tr>
<tr>
<td>Impedance Results Printed using GEM Design with a print thickness of 15 µm</td>
<td>Working Range: 100kHz - 500Hz</td>
</tr>
<tr>
<td></td>
<td>6144 RctΩ at 2947Hz</td>
</tr>
<tr>
<td></td>
<td>Cured @ 130°C</td>
</tr>
<tr>
<td></td>
<td>1529 RctΩ at 2330Hz</td>
</tr>
<tr>
<td></td>
<td>Cured @ 60°C</td>
</tr>
</tbody>
</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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