PRODUCT INFORMATION SHEET

C2140310D1
Silver/Silver Chloride Paste 80:20

PRODUCT DESCRIPTION
Silver/Silver Chloride Paste has a ratio of Silver to Silver Chloride of 80/20. C2140310D1 has been developed to have improved wetting, with a lower contact angle than C2130429D3.

Product Benefits
Applications in Medical Diagnostics, Environmental Sensor and the ‘Agri-Food’ Industries.
High Conductivity
Low curing temperature
Improved Hydrophilicity

PROCESSING
Screen Printing Equipment
Semi-Automatic, manual

Ink Screen Life
>3 hours

Screen Types
Polyester, mesh 156 to 230 tpi
Stainless Steel mesh is not recommended since a paste component can become corrosive in the presence of moisture. Also, plastic palette knives should be used instead of metal knives.

Typical Drying Conditions
Dry at 60°C for 30 minutes or 80°C for 10 minutes in a box oven.

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)

Sheet Life
In a sealed container, stored correctly, the shelf life is minimum 3 months from despatch.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids Content at 130°C</td>
<td>81.14 - 83.14%</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Haake RS1 C20/2° TIL at 230 sec⁻¹ at 25°C</td>
</tr>
<tr>
<td></td>
<td>2.0 - 5.0 Pa s</td>
</tr>
<tr>
<td>Coverage</td>
<td>Using a 230 mesh stainless steel screen</td>
</tr>
<tr>
<td></td>
<td>Typical—150 cm² per g</td>
</tr>
<tr>
<td>Sheet Resistivity</td>
<td>Printed through 230 stainless steel mesh</td>
</tr>
<tr>
<td></td>
<td>with 13 micron emulsion</td>
</tr>
<tr>
<td></td>
<td>&lt;40 mΩ/sq @ 25µm</td>
</tr>
<tr>
<td>Cured Thickness</td>
<td>Using 230 stainless steel mesh, 13 micron</td>
</tr>
<tr>
<td></td>
<td>emulsion</td>
</tr>
<tr>
<td></td>
<td>Typical—20 microns</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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