PRODUCT INFORMATION SHEET

C51002P6
Platinum Paste

PRODUCT DESCRIPTION
Platinum Paste is a screen printable paste designed for printing working electrodes in electrochemical sensor applications.

Product Benefits
The paste is designed for firing at high temperatures on ceramic substrates.

PROCESSING
Screen Printing Equipment
Automatic, Semi-Automatic, manual

Ink Screen Life
>3 hours

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

Typical Drying Conditions
120-150°C 10 minutes in a box oven.

Typical Firing Conditions
780° to 800°C peak for 10 minutes using a 50-minute cycle.

Clean Up Solvent
Ethoxy Propanol

Substrate
96% Alumina, or similar ceramic

Storage
The product should be kept sealed, in its original temperature between 15ºC to 25ºC

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

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Solids Content at 700°C</th>
<th>73.5-74.5 %</th>
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</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>51.0 – 61.0 Pa s</td>
</tr>
<tr>
<td>(Haake RS1 C20/2º TlL at 230 sec⁻¹ at 25°C)</td>
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<tr>
<td>Coverage</td>
<td>140 cm² per g</td>
</tr>
<tr>
<td>Using a 230 mesh stainless steel screen</td>
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<tr>
<td>Sheet Resistivity</td>
<td>320 mΩ/square @ 25µm</td>
</tr>
<tr>
<td>Printed through 230 stainless steel mesh with 13micron emulsion</td>
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<tr>
<td>Cured Thickness</td>
<td>Typical 7.5 microns</td>
</tr>
<tr>
<td>Printed through 230 stainless steel mesh with 13micron emulsion</td>
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</tbody>
</table>

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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