PRODUCT INFORMATION SHEET

C2020322P6
Platinum Paste

PRODUCT DESCRIPTION
C2020322P6 is a screen printable platinum paste designed for printing working electrodes in electrochemical sensor applications.

Product Benefits
The paste can be used to detect \( \text{H}_2\text{O}_2 \), is suitable for developing biosensors with oxidase enzymes, DNA or immune-sensors. The paste is designed for curing on polymer substrates. Excellent chemical and environmental resistance. Suitable for fine line printing.

PROCESSING
Screen Printing Equipment
Automatic, Semi-Automatic, manual

Ink Screen Life
>3 hours

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

Typical Drying Conditions
Dry at 130 - 180°C for 30 - 60 minutes in a box oven or belt cure 3 minutes at 130°C

Clean Up Solvent
Ethoxy Propanol

Storage
The product should be kept sealed, in its original temperature between 15°C to 25°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>Specification</th>
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<tbody>
<tr>
<td>Solids Content at 700°C</td>
<td>85.5 – 86.5 %</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Haake RS1 C20/2º Til at 230 sec(^{-1}) at 25°C. 10.0 - 15.0 Pa s</td>
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<tr>
<td>Coverage</td>
<td>Using a 230 mesh stainless steel screen 40-50 cm(^2) per g</td>
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<tr>
<td>Sheet Resistivity</td>
<td>Printed through 230 stainless steel mesh with 13micron emulsion 0.32 Ohms/sq at 25µm</td>
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<tr>
<td>Cured Thickness</td>
<td>Printed through 230 stainless steel mesh with 13micron emulsion 35-40 microns</td>
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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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