PRODUCT INFORMATION SHEET

C2041206P2
Gold Paste

PRODUCT DESCRIPTION
This paste is a screen printable gold polymer paste designed as a working electrode in electrochemical biosensors. This is used as a working electrode in Medical Diagnostics, Environmental Sensor and the ‘Agri-Food’ Industries, in conjunction with our counter electrodes and reference electrodes.

Product Benefits
Suitable for Self-assembled monolayers, DNA and Immuno-sensors.

PROCESSING
Screen Printing Equipment
Automatic, Semi-Automatic, manual

Ink Screen Life
>3 hours

Screen Types
Stainless steel, polyester, mesh 230-325tpi

Typical Drying Conditions
80°C in a Box Oven for 30 minutes.

Clean Up Solvent
Ethoxy Propanol

Substrate
Polyester, PVC, Polycarbonate or ceramic

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>Solids Content at 700°C</th>
<th>80.0 - 82.0 %</th>
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</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>14.5 - 18.0 Pa s</td>
</tr>
<tr>
<td>Haake RS1 C20/2º TIL at 230 sec⁻¹ at 25°C.</td>
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<tr>
<td>Coverage</td>
<td>90 cm² per g</td>
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<tr>
<td>Using a 230 mesh stainless steel screen</td>
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<tr>
<td>Sheet Resistivity</td>
<td>80 mΩ/square at 25°C</td>
</tr>
<tr>
<td>Printed through 230 stainless steel mesh with 13micron emulsion, dried at 80°C</td>
<td></td>
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<tr>
<td>Cured Thickness</td>
<td>Typical 15 microns ±2 microns</td>
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<tr>
<td>Printed through 230 stainless steel mesh with 13micron emulsion</td>
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</tr>
</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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Our Products are intended for sale to professional users. The information herein is general information designed to assist customers in determining the suitability of our products for their applications. All recommendations are made without guarantee, since the application and conditions of use are beyond our control. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. There is no implied warranty of merchantability or fitness for purpose of the product or products described herein. In no event shall Sun Chemical be liable for damages of any nature arising out of the use or reliance upon this information. Modifications of the product for reasons of improvements might be made without further notice.