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.

D2020409P8
Dielectric for Stainless Steel

PRODUCT DESCRIPTION
Dielectric is suitable for use as an insulation layer when printed and fired on to Stainless Steel. The Thermal Coefficient of Expansion (TCE) of this product has been matched to the TCE of Stainless Steel. It is compatible with a range of high temperature conductors available from the GEM product range.

Product Benefits
- It is suitable for printing directly on to stainless steel

PROCESSING

Screen Printing Equipment
Semi-Automatic, automatic

Ink Screen Life
>3 hours

Screen Types
Stainless steel, polyester. Mesh 156-325 tpi

Typical Drying Conditions
Dry at 150°C for 10 minutes in a box oven.

Typical Firing Conditions
Fire at 850°C peak for 10 minutes.

Clean Up Solvent
Ethoxy Propanol or Sericol

Substrate
Stainless Steel

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 12 months from despatch.

Diluent/ Thinner
S70204D5.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Solids Content at 700°C</th>
<th>69.5 - 70.5 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>18 - 25 Pa s</td>
</tr>
<tr>
<td>Haake RS1 C20/2º TiL at 230 sec⁻¹ at 25°C.</td>
<td></td>
</tr>
<tr>
<td>Coverage</td>
<td>120 cm² per g</td>
</tr>
<tr>
<td>Using a 230 mesh stain- less steel screen</td>
<td></td>
</tr>
<tr>
<td>Print Thickness</td>
<td>32 microns</td>
</tr>
<tr>
<td>230 mesh stainless steel screen with 13 micron emulsion back off.</td>
<td></td>
</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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