Application

Solder paste is applied to the spheres in a doctor-bladed dipping process (Figure 1).

- Typical package-on-package applications only need dipping to 25–45% of the sphere height

Care must be taken to avoid contaminating the bottom of the package itself with PoP paste, as this may cause bridging defects.

Properties

<table>
<thead>
<tr>
<th>Flux Type Classification</th>
<th>Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indalloy® Common Name</td>
<td>SAC305</td>
<td>96.5Sn/3.0Ag/0.5Cu</td>
</tr>
<tr>
<td>Melting Point</td>
<td>220</td>
<td>Liquidus (°C): 428</td>
</tr>
<tr>
<td>Density</td>
<td>7.40</td>
<td>psi: 7,200</td>
</tr>
<tr>
<td>Elastic Modulus</td>
<td>2.41</td>
<td>psi*10: 2.19</td>
</tr>
<tr>
<td>Elongation</td>
<td>19.3</td>
<td>%: 19.3</td>
</tr>
</tbody>
</table>

All information is for reference only. Not to be used as incoming product specifications.

Alloys

PoP Paste Indium9.88 is available with Pb-free alloys, such as SAC305 (96.5Sn/3.0Ag/0.5Cu). The table below shows common alloys and alloy properties.
**PRODUCT DATA SHEET**

**PoP Paste Indium9.88**

*Package-on-Package Paste*

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**Cleaning**

Although designed as a no-clean material, the residue from the **PoP Paste Indium9.88** may be cleaned using appropriate cleaning solutions. Please consult with Indium Corporation Technical Support Engineers for details.

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**Packaging**

**PoP Paste Indium9.88** is available in airless (bubble-free) packaging. For automated dispense applications:

- 100g (30cc) syringes with an air-pressure plunger
- Other packaging may be available to meet specific requirements. Consult with Indium Corporation Sales or Technical Support staff for details.

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**Storage and Handling**

**PoP Paste Indium9.88** syringes and cartridges should be stored tip down at <10°C for a maximum of 6 months. Storage temperatures should not exceed 30°C for more than 4 days. **PoP Paste Indium9.88** should be allowed to stand for at least 4 hours at room temperature before using.

Once removed from cold storage, the solder paste in a sealed syringe may remain at room temperature for up to 7 days before usage and during usage. However, once outside the syringe, its working life is estimated to be 8 hours, and may be less under high-temperature (>25°C) and high-humidity (>70%RH) conditions.

The paste should not be subjected to multiple cold/heat cycles or viscosity changes and/or flux separation may occur.

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**Technical Support**

Indium Corporation sets the industry standard in providing rapid response, onsite technical support for our customers worldwide. Indium Corporation’s team of Technical Support Engineers can provide expertise in all aspects of materials science.

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**Safety Data Sheets**

The SDS for this product can be found online at http://www.indium.com/sds