**Introduction**

**WS-366 Interconnect Flux** is a high-viscosity paste-type flux designed for use in BGA bumping and board level attachment. It can also be used wherever a water-soluble flux with excellent cleanability is desired.

**Features**

- Excellent cleanability, residue can be removed with room temperature water
- Can be used for printing, dipping, and pin transfer deposition
- Offers high yields in BGA bumping process
- Excellent solderability
- Wide process window
- Suitable for Sn/Pb, Pb-free, and high lead-containing applications
- Designed for flip-chip applications

**Cleaning**

DI water or water plus cleaner that is room temperature or higher for >1 minute at >60psi.

**Reflow**

Peak reflow temperature should be <350°C in an air or nitrogen atmosphere, with a linear ramp up to 30°C above solidus temperature.

**Storage**

**WS-366** syringes and cartridges should be stored tip down at 0–25°C. **WS-366** should be allowed to stand for 4 hours at room temperature before using.

**Technical Support**

Indium Corporation’s internationally experienced engineers provide in-depth technical assistance to our customers. Thoroughly knowledgeable in all facets of Material Science as it applies to the electronics and semiconductor sectors, Technical Support Engineers provide expert advice in solder properties, alloy compatibility and selection of solder preforms, wire, ribbon, and paste. Indium Corporation Technical Support engineers provide rapid response to all technical inquiries.

**Safety Data Sheets**

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

**Packaging**

**WS-366** is available in SEMCO cartridges, 100g jars or 10–150g syringes; however, other packaging can be provided to meet specific requirements.

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**Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flux Type Classification</td>
<td>H1</td>
</tr>
<tr>
<td>Color</td>
<td>Amber to brown</td>
</tr>
<tr>
<td>Stencil Life</td>
<td>&gt;8 hours at room temperature</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>6 months at -20 to +5°C 3 months at 5 to 25°C</td>
</tr>
<tr>
<td>SIR (Ohms, post cleaning)</td>
<td>Pass (&gt;-10^6 after 7 days @ 85°C and 85% RH)</td>
</tr>
<tr>
<td>Typical Viscosity: Brookfield</td>
<td>425kcp at 5rpm</td>
</tr>
<tr>
<td>Halide Content</td>
<td>&lt;3% Cl equivalent</td>
</tr>
<tr>
<td>Acid Value</td>
<td>30–50</td>
</tr>
<tr>
<td>Tack Strength</td>
<td>100–400g</td>
</tr>
</tbody>
</table>

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

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**From One Engineer To Another**

Contact our engineers today: [askus@indium.com](mailto:askus@indium.com)

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