PRODUCT DATA SHEET

TACFlux®
for Board Assembly and Rework

Introduction

Indium Corporation manufactures a complete line of TACFlux®, which includes no-clean, water-wash, and RMA-based fluxes. Its many uses include: rework and repair of various electronics assemblies and components, SMT component attach (including BGAs and flip-chip), BGA ball-attach, preform soldering, and virtually any application where a flux is required. Cycle times are not critical, as TACFlux® may sit for hours with no reflow degradation.

Description

TACFlux® 007
RMA-based fluxes that are compatible with our SMQ®51 series solder paste.

TACFlux® 012
Formulated for alloys containing indium, this flux is compatible with our NC-SMQ®80 solder paste.

TACFlux® 014
Formulated to be fully compatible with NC-SMQ®92 solder paste.

TACFlux® 018
When the final application requires a conformal coat, this flux can be utilized. It is compatible with NC-SMQ®92, and most common conformal coatings adhere to its hard residue.

TACFlux® 019
This water-cleanable product is designed for use with high temperature alloys. A minimum peak temperature of 250°C is recommended. The flux is compatible with WMA-SMQ®69HT solder paste. The post reflow residue can be easily cleaned with plain DI water combined with spray pressure and elevated temperatures.

TACFlux® 020
Offering easy penetration without clogging crown probes, this flux is recommended for use with our popular NC-SMQ®92J solder paste.

TACFlux® 021
Designed for BiSn low melting alloys, this flux can be reflowed at a minimum of 170°C. The compatible solder paste is made with NC-SMQ®81.

TACFlux® 023
Specifically designed for Pb-free soldering, this flux can be used with our Pb-free solder paste NC-SMQ®230.

TACFlux® 025-NP (Replaces TACFlux® 025)
This is the rework flux for Sn63/Pb37, Pb-free, and high-lead-bearing alloys in an air or inert gas reflow atmosphere. This flux has a shelf life of 3 months when stored at 0-30°C.

Application Method

TACFlux® can be dispensed in dots or lines onto the desired substrate, preform, or BGA sphere. It can also be easily screen printed or stenciled on a desired component footprint.

Shelf Life and Storage

The shelf life of all TACFlux® products listed on this data sheet, except for TACFlux® 025-NP, is one year when stored at 0-30°C. TACFlux® 025-NP has a shelf life of 3 months. Refrigeration is recommended, but not required.

Packaging

TACFlux® is available in 10cc and 30cc syringes or 100g jars.

From One Engineer To Another®
PRODUCT DATA SHEET

TACFlux® for Board Assembly and Rework

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’s 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

Products

<table>
<thead>
<tr>
<th>TACFlux®</th>
<th>Typical Tackiness (grams)</th>
<th>Typical Viscosity (kcps)</th>
<th>Max Temp (°C)</th>
<th>Reflow Residue (%)</th>
<th>Reliability J-STD 004</th>
<th>Flux Classification</th>
<th>Cleaning Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>No-Clean:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>007</td>
<td>190</td>
<td>570</td>
<td>310</td>
<td>47</td>
<td>Pass</td>
<td>R0L1</td>
<td>No-Clean/Semi-aqueous Solution</td>
</tr>
<tr>
<td>012</td>
<td>140</td>
<td>220</td>
<td>250</td>
<td>45</td>
<td>Pass</td>
<td>R0L0</td>
<td>No-Clean/Semi-aqueous Solution</td>
</tr>
<tr>
<td>014</td>
<td>141</td>
<td>351</td>
<td>250</td>
<td>45</td>
<td>Pass</td>
<td>R0L0</td>
<td>No-Clean/Semi-aqueous Solution</td>
</tr>
<tr>
<td>018</td>
<td>160</td>
<td>255</td>
<td>250</td>
<td>36</td>
<td>Pass</td>
<td>R0L0</td>
<td>No-Clean/Semi-aqueous Solution</td>
</tr>
<tr>
<td>020</td>
<td>175</td>
<td>470</td>
<td>250</td>
<td>45</td>
<td>Pass</td>
<td>R0L0</td>
<td>No-Clean/Semi-aqueous Solution</td>
</tr>
<tr>
<td>021</td>
<td>225</td>
<td>365</td>
<td>230</td>
<td>56</td>
<td>Pass</td>
<td>R0L0</td>
<td>No-Clean/Semi-aqueous Solution</td>
</tr>
<tr>
<td>023</td>
<td>225</td>
<td>410</td>
<td>300</td>
<td>42</td>
<td>Pass</td>
<td>R0L1</td>
<td>No-Clean/Semi-aqueous Solution</td>
</tr>
<tr>
<td>Water-Wash:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>019</td>
<td>175</td>
<td>500</td>
<td>325</td>
<td>45</td>
<td>Pass</td>
<td>0RM0</td>
<td>Water</td>
</tr>
<tr>
<td>025-NP</td>
<td>800</td>
<td>10*</td>
<td>370</td>
<td>47</td>
<td>Pass</td>
<td>0RM0</td>
<td>Water</td>
</tr>
</tbody>
</table>

* Brookfield Cone & Plate (CP51, 5 rpm, 5 mins, 25 °C)

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

Contact our engineers today: askus@indium.com
Learn more: www.indium.com
ASIA +65 6268 8678 • CHINA +86 (0) 512 628 34900 • EUROPE +44 (0) 1908 580400 • USA +1 315 853 4900

©2017 Indium Corporation