

Product Data Sheet

# Package on Package (PoP) Flux 8.9HF-LV

## Features

- Application by dipping or dispensing
- Halogen-free (no intentionally-added halides)
- Optimized for Pb-free (SAC alloy) applications
- Excellent solderability with Cu-OSP, AuNi, and immersion Ag finishes
- Air reflow
- Bubble-free packaging

## Introduction

PoP Flux 8.9HF-LV is a thixotropic no-clean flux designed for package-on-package applications with Pb-free solders. PoP Flux 8.9HF-LV has a unique halogen-free activator system.

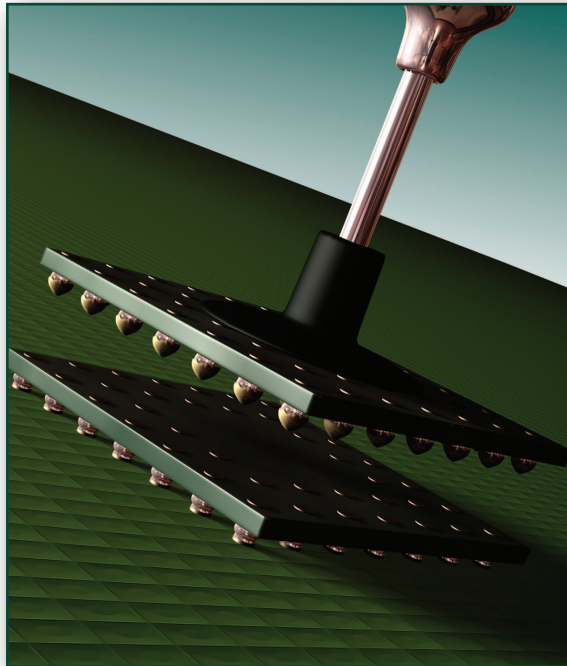
## Properties

	Value	Test Method
<b>Flux Type Classification:</b>	ROLO	J-STD-004 (IPC-TM-650: 2.3.32 and 2.3.33)
<b>Typical Viscosity:</b>	8.5kcps	Cone and plate viscosity (5 minutes)
<b>SIR (ohms, after reflow):</b>	Pass (>10 <sup>8</sup> after 7 days @ 85°C & 85% RH)	J-STD-004 (IPC-TM-650: 2.6.3.3 IPC-B-24)
<b>Typical Acid Value:</b>	120mg KOH/g	Titration
<b>Typical Tack Strength:</b>	170g	J-STD-005 (IPC-TM-650: 2.4.44)
<b>Shelf Life:</b>	1 year (0°C - 30°C)	Viscosity change/microscope examination
<b>Color:</b>	Light Amber	Visual

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

## Application

The volume of flux on the package can be optimized by changing equipment parameters. Key variables include: sphere size, sphere pitch, flux shear speed and dwell. Viscosity can be optimized per application by appropriate equipment setup.



## Cleaning

PoP Flux 8.9HF-LV is designed for no-clean applications, and can be left in place on the final package. If necessary, flux residues can be removed by using a commercially available flux cleaner. Contact an Indium Corporation Technical Support Engineer for recommendations on flux cleaners.



## Packaging

PoP Flux 8.9HF-LV is only available in air-free 10cc or 30cc syringes.

OVER →

Form No. 98508 R2

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## Package on Package (PoP) Flux 8.9HF-LV

### Storage

For maximum shelf life, **PoP Flux 8.9HF-LV** syringes and cartridges should be stored tip down. Storage temperatures should never exceed 30 °C. After removing from cold storage, **PoP Flux 8.9HF-LV** should be allowed to stand for at least 4 hours at room temperature before using.

### Technical Support

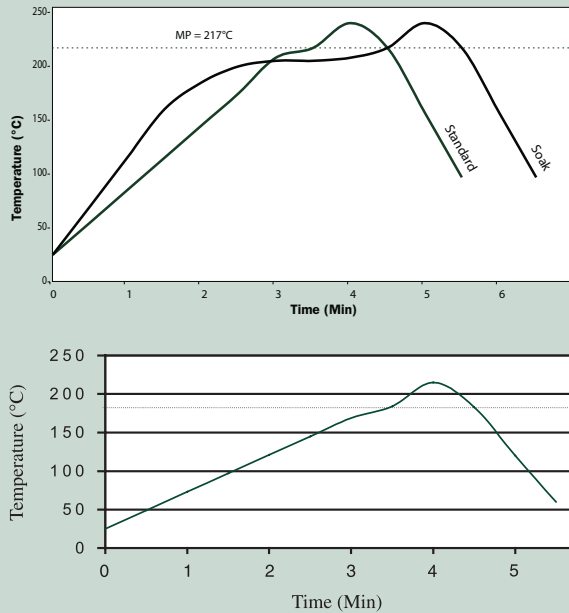
Indium Corporation sets the industry standard in providing rapid response, on-site technical support for our customers worldwide. Indium Corporation's team of Technical Support Engineers can provide expertise in all aspects of Materials Science and Semiconductor Packaging process applications.

### Material Safety Data Sheets

The MSDS for this product can be found online at <http://www.indium.com/techlibrary/msds.php>

### Reflow

#### Recommended Profile:



Peak reflow temperature should be <250 °C in an air or nitrogen atmosphere, with a linear ramp up to approximately 30 °C above the solidus temperature.

This product data sheet is provided for general information only. It is not intended, and shall not be construed, to warrant or guarantee the performance

of the products described which are sold subject exclusively to written warranties and limitations thereon included in product packaging and invoices.

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