

Product Data Sheet

# Package-on-Package (PoP) Flux 89-LV

## Features

- Application by dipping or dispensing
- Optimized for Pb-Free (SAC alloy) applications
- Excellent solderability with Cu-OSP, Au/Ni, and Immersion Ag finishes
- Air reflow
- Bubble-free packaging

## Introduction

**PoP Flux 89-LV** is a thixotropic no-clean flux designed for package-on-package applications with Pb-free solders. **PoP Flux 89-LV** has a unique activator system that provides enhanced solderability onto all common metallizations.

## Properties

	Value	Test Method
Flux type Classification:	ROL1	J-STD-004 (IPC-TM-650: 2.3.32 and 2.3.33)
Typical Viscosity:	12.5kcps	Cone and plate viscosity (5 minutes)
SIR (ohms, after reflow):	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)
Typical Acid Value:	120mg KOH/g	Titration
Typical Tack Strength:	240g	J-STD-005 (IPC-TM-650: 2.4.44)
Shelf Life:	1 year (0° - 30°C)	Viscosity change/microscope examination
Color:	Light Amber	Visual

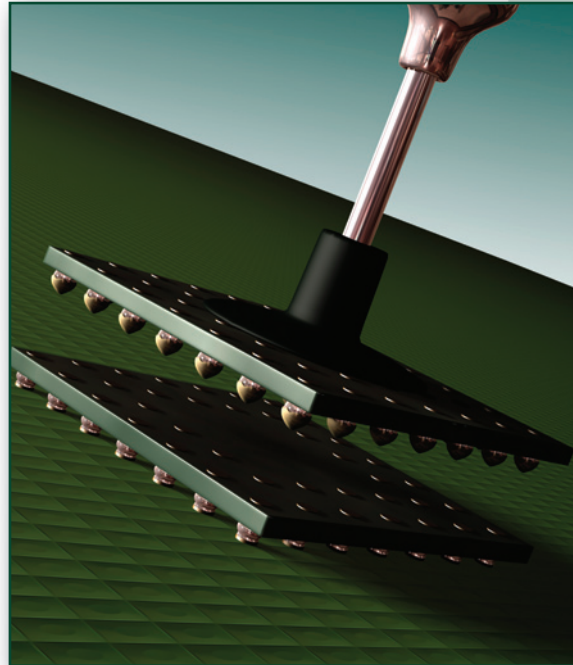
All information is for reference only. Not to be used as incoming product specifications.

## 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 89-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 89-LV** is only available in air-free 10cc or 30cc syringes.



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Form No. 98511 (A4) R0

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## PoP Flux 89-LV

### Storage

For maximum shelf life, **PoP Flux 89-LV** syringes and cartridges should be stored tip down. Storage temperatures should never exceed 30°C. After removing from cold storage, **PoP Flux 89-LV** should be allowed to stand for at least 4 hours at room temperature before using.

### Technical Support

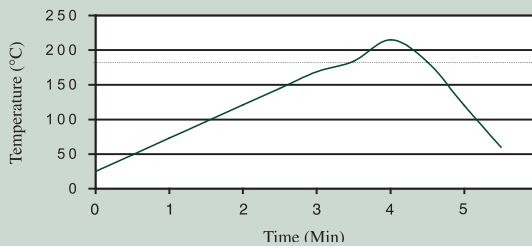
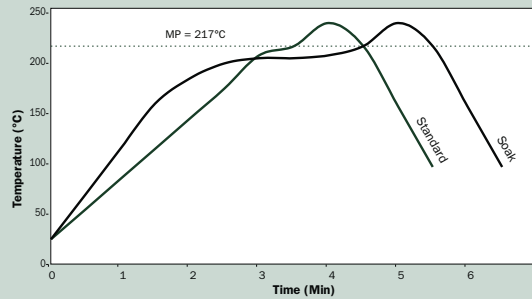
Indium Corporation sets the industry standard in providing rapid response, on-site technical support for our customers worldwide. Indium's team of Technical Support Engineers can provide expertise in all aspects of Materials Science and Semiconductor Packaging process applications.

### 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.

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