

PRODUCT DATA SHEET

PoP Flux 30B

Package-on-Package

Introduction

PoP Flux 30B is a thixotropic no-clean flux designed for package-on-package applications with Pb-free solders. **PoP Flux 30B** has a unique halide-free activator system that passes IPC SIR tests even before reflow. Precise control of flux volume and reflow are, therefore, not needed, and the flux may be dispensed, as well as dipped in the usual manner, offering significant equipment cost savings.

Features

- Application by dipping or dispensing
- Halide-free
- Optimized for Pb-free (SAC alloy) applications
- Excellent solderability with Cu-OSP, AuNi, and immersion Ag finishes
- Air reflow
- Bubble-free packaging

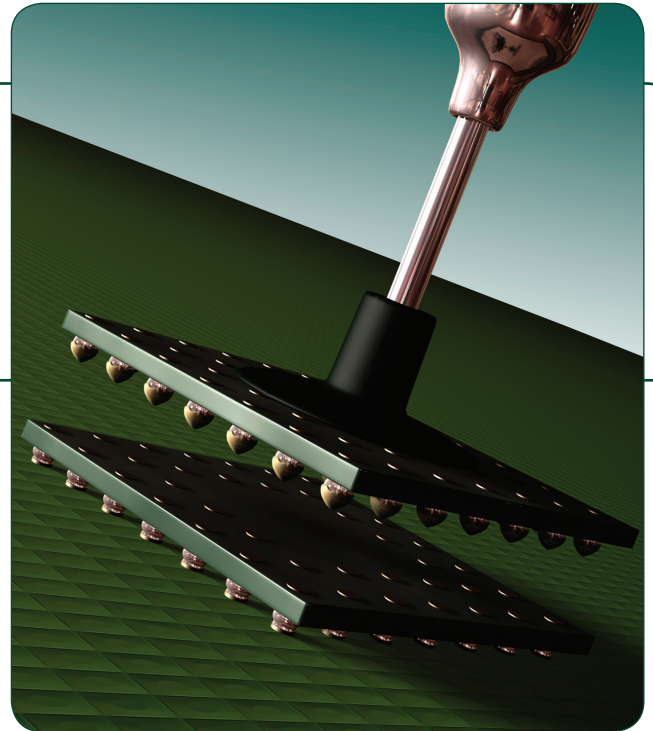
Properties

| | Value | Test Method |
|--------------------------|--|---|
| Flux Type Classification | ROLO | J-STD-004 (IPC-TM-650: 2.3.32 and 2.3.33) |
| Typical Viscosity | 130kcps | Brookfield RVT - TF Spindle (5rpm) J-STD-004 (IPC-TM-650) |
| SIR (Ohms, unreflowed) | Pass (>10 ⁸ after 7 days @ 85°C and 85% RH) | J-STD-004 (IPC-TM-650: 2.6.3.3 IPC-B-24) |
| SIR (Ohms) | Pass (>10 ⁸ after 7 days @ 85°C and 85% RH) | J-STD-004 (IPC-TM-650: 2.6.3.3 IPC-B-24) |
| Typical Acid Value | 102mg KOH/g | Titration |
| Typical Tack Strength | 140g | J-STD-005 (IPC-TM-650: 2.4.44) |
| Shelf Life | 12 months (0–30°C) | Viscosity change/ microscope examination |
| Color | Yellow | 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 30B 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.

Packaging

PoP Flux 30B is available only in air-free 30cc syringes.



Storage

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

From One Engineer To Another®



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Technical Support

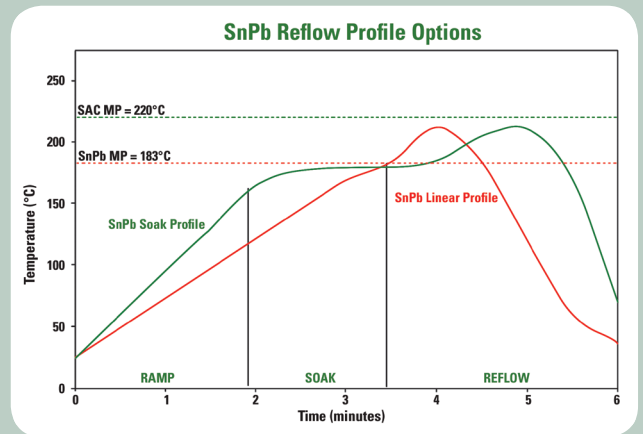
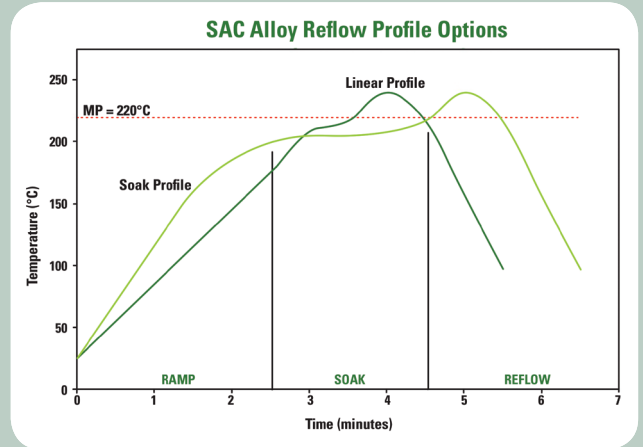
Indium Corporation sets the industry standard in providing rapid response, onsite technical support for our customers worldwide. Indium Corporation's team of Technical Support Engineers can provide expertise in all aspects of Materials Science and Semiconductor Packaging process applications.

Safety Data Sheets

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

Reflow

Recommended Profile:



Peak reflow temperature should be <math><250^{\circ}\text{C}</math> in an air or nitrogen atmosphere, with a linear ramp up to approximately

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