

PRODUCT DATA SHEET

NC-826

Flip-Chip Flux

Introduction

Flip-Chip Flux NC-826 is a halogen-free, no-clean flip-chip dipping flux which is designed to leave a completely benign, clear residue. The reduction in residue optimizes underfill adhesion and decreases possible outgassing during underfill cure.

Features

- Designed for copper-pillar flip-chip dipping applications
- Tackiness suitable for holding multicore die during assembly
- Compatible with underfills
- No wetting onto die surface
- Dipping with minimal bridging
- Bubble-free airless packaging
- Low-residue
- Halogen-free
- No-clean

Properties

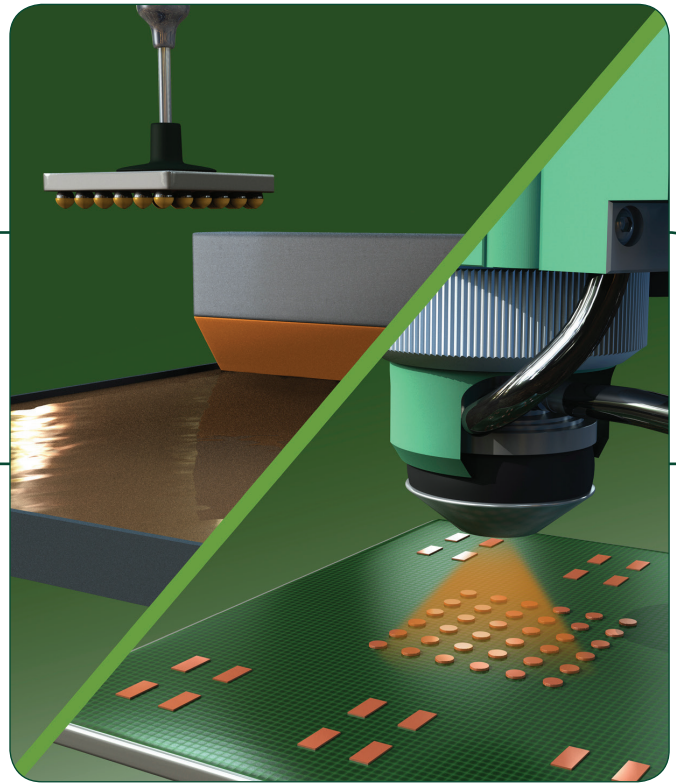
	Value	Test Method
Flux Type	RELO	J-STD-004 (IPC-TM-650: 2.3.32 and 2.3.33)
Color	Light yellow	Visual
Typical Viscosity	13kcps	Brookfield DV-I. 51CPE Spindle @ 20rpm after 5 minutes
Typical Acid Value	39mg KOH/g	Titration
SIR (Ohms)	Pass	J-STD-004 (IPC-TM-650: 2.6.3.3 IPC-B-24)
Typical Post Reflow Residual Weight	<10%	TGA data
Working Life	≥8 hours	Customer experience (dipping)
Shelf Life	6 months when stored at 0 to 30°C	Viscosity change/ microscope examination

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

Application

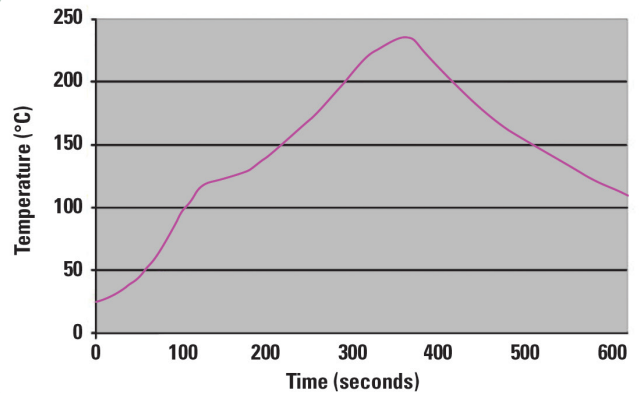
Flip-Chip Flux NC-826 will have strong adhesion to epoxy-based underfill materials, especially epoxy-amine and epoxy-acid based chemistries. **Flip-Chip Flux NC-826** should also be suitable for use with many epoxy-anhydride systems.

From One Engineer To Another®



Reflow

Recommended Profile:



Flip-Chip Flux NC-826 is intended to be used in a nitrogen reflow environment of 100ppm oxygen or less. Some applications can utilize this material in an air environment, although best results will be obtained in an inert atmosphere. **Flip-Chip Flux NC-826** can be used on many surface finishes including immersion Ag, Cu, and AuNi. These surfaces can be soldered with Pb-free alloys, but require nitrogen if reflow temperatures exceed 240°C.



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Cleaning

Flip-Chip Flux NC-826 is designed for no-clean applications. If necessary, the flux can be removed by using a commercially available flux cleaner. Please contact an Indium Corporation Technical Support Engineer for recommendations of cleaners to suit your process needs.

Packaging

Flip-Chip Flux NC-826 is most commonly available in 10–30g syringes. Other packaging can be provided to meet specific requirements.

Storage

Flip-Chip Flux NC-826 syringes and cartridges should be stored tip down for maximum shelf life. **Flip-Chip Flux NC-826** should be allowed to reach ambient temperature before use if stored cold.

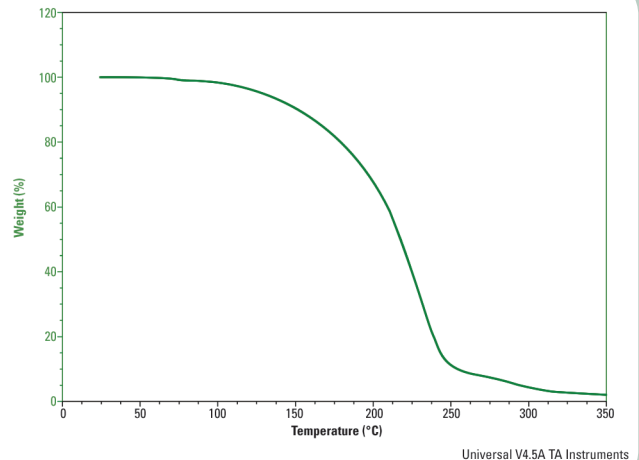
Technical Support

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>

Thermogravimetric Analysis (TGA)



TGA was performed at a ramp rate of 10°C per minute.

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