

PRODUCT DATA SHEET

NC-585

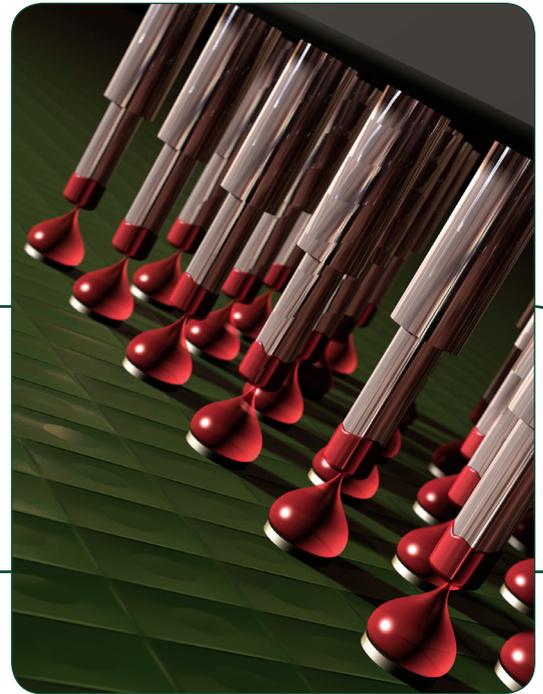
Ball-Attach Flux

Introduction

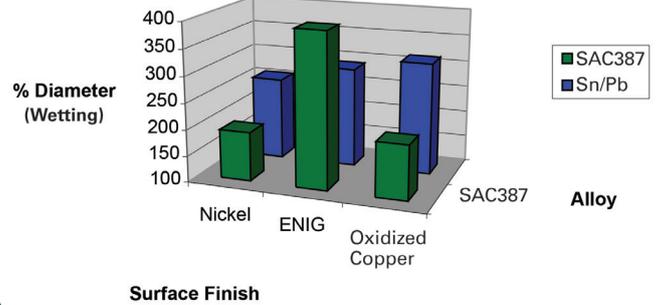
Ball-Attach Flux NC-585 is a low-viscosity thixotropic no-clean flux designed for use in ball-attachment to substrates (BGA manufacturing). It is especially useful in applications requiring soldering to surface finishes with tenacious oxides, such as nickel. It can also be used wherever a no-clean ball-attach flux is needed, and is suitable for a variety of different deposition methods.

Features

- Halogen-free, no-clean residue
- Suitable for pin grid array and standard ball grid array applications
- Airless packaging
- Excellent solderability to all common surface metallizations
- No-clean residue
- Can be used for printing, dipping, and pin transfer deposition
- Offers high yields in BGA bumping process
- Suitable for both Pb-free or SnPb applications



Solder Wetting Test



Properties

	Value	Test Method
Flux Type Classification	ROLO	J-STD-004 (IPC-TM-650: 2.3.32 and 2.3.33)
Typical Viscosity	8kcps	Brookfield HB DVII ⁺ -CP (5rpm)
SIR (Ohms)	Pass (>10 ⁸ after 7 days @ 85°C and 85% RH)	J-STD-004 (IPC-TM-650: 2.6.33 IPC-B-24)
Typical Acid Value	80mg KOH/g	Titration
Typical Tack Strength	170g	J-STD-005 (IPC-TM.650: 2.4.44)
Shelf Life	0–30°C for 6 months	Viscosity change/ microscope examination
Post Reflow Flux Residue	45%	ICA Test Method

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

Application

Pin transfer volumes can be optimized by changing equipment parameters. Key variables of pin transfer include pin shape, pin diameter, shear speed, dwell, and depth of immersion.

Cleaning

NC-585 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 Service Engineer for recommendations of cleaners to suit your process needs.



From One Engineer To Another[®]



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NC-585 Ball-Attach Flux

Packaging

NC-585 is available in airless (bubble-free) 30cc syringes. Other packaging can be provided to meet specific requirements.

Storage

NC-585 syringes and cartridges should be stored tip down at 0–30°C for maximum shelf life. After removing from cold storage, NC-585 should be allowed to stand for a minimum of 4 hours at room temperature before using.

Technical Support

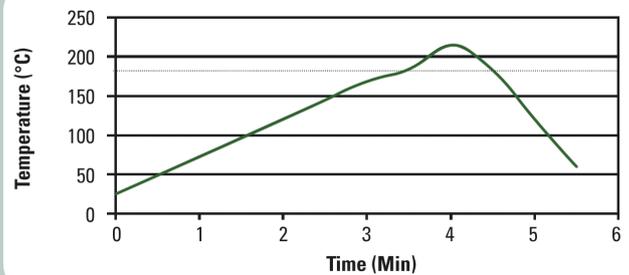
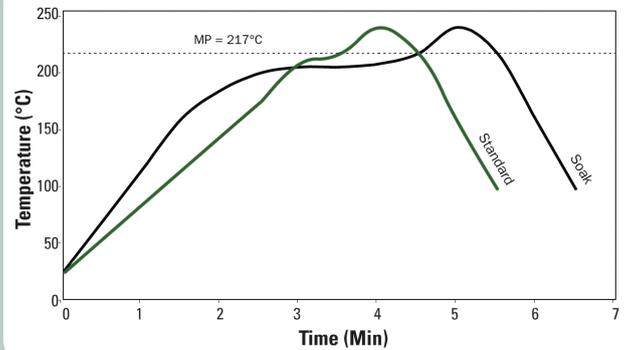
Indium Corporation sets the industry standard in providing rapid response, onsite technical support for our customers worldwide. Indium Corporation's team of Technical Support Engineers can provide expertise in all aspects of Materials Science and Semiconductor Packaging process applications.

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><260^{\circ}\text{C}</math> in an air or nitrogen atmosphere (<math><500\text{ppm O}_2</math>), with a linear ramp up to 30°C above liquidus temperature. These profiles are recommended to the user as starting points, and should be optimized by the user to meet their individual process needs.

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. All Indium Corporation's products and solutions are designed to be commercially available unless specifically stated otherwise.

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