

PRODUCT DATA SHEET

TACFlux®

for Board Assembly and Rework

Introduction

Indium Corporation manufactures a complete line of **TACFlux®**, which includes no-clean, water-wash, and RMA-based fluxes. Its many uses include: rework and repair of various electronics assemblies and components, SMT component attach (including BGAs and flip-chip), BGA ball-attach, preform soldering, and virtually any application where a flux is required. Cycle times are not critical, as **TACFlux®** may sit for hours with no reflow degradation.

Description

TACFlux®007

RMA-based fluxes that are compatible with our SMQ®51 series solder paste.

TACFlux®012

Formulated for alloys containing indium, this flux is compatible with our NC-SMQ®80 solder paste.

TACFlux®014

Formulated to be fully compatible with NC-SMQ®92 solder paste.

TACFlux®018

When the final application requires a conformal coat, this flux can be utilized. It is compatible with NC-SMQ®92, and most common conformal coatings adhere to its hard residue.

TACFlux®019

This water-cleanable product is designed for use with high-temperature alloys. A minimum peak temperature of 250°C is recommended. The flux is compatible with WMA-SMQ®69HT solder paste. The post reflow residue can be easily cleaned with plain DI water combined with spray pressure and elevated temperatures.

TACFlux®020

Offering easy penetration without clogging crown probes, this flux is recommended for use with our popular NC-SMQ®92J solder paste.

TACFlux®021

Designed for BiSn low-melting alloys, this flux can be reflowed at a minimum of 170°C. The compatible solder paste is made with NC-SMQ®81.

TACFlux®023

Specifically designed for Pb-free soldering, this flux can be used with our Pb-free solder paste NC-SMQ®230.

TACFlux®025-NP (Replaces TACFlux®025)

This is the rework flux for Sn63/Pb37, Pb-free, and high-lead-bearing alloys in an air or inert gas reflow atmosphere. This flux has a shelf life of 3 months when stored at 0–30°C.

Application Method

TACFlux® can be dispensed in dots or lines onto the desired substrate, preform, or BGA sphere. It can also be easily screen printed or stenciled on a desired component footprint.

Shelf Life and Storage

The shelf life of all **TACFlux®** products listed on this data sheet, except for **TACFlux®025-NP**, is one year when stored at 0–30°C. **TACFlux®025-NP** has a shelf life of 3 months.

Packaging

TACFlux® is available in 10 and 30cc syringes or 100g jars.

From One Engineer To Another®



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Technical Support

Indium Corporation's internationally experienced engineers provide in-depth technical assistance to our customers. Thoroughly knowledgeable in all facets of Material Science as it applies to the electronics and semiconductor sectors, Technical Support Engineers provide expert advice in solder properties, alloy compatibility, and selection of solder preforms, wire, ribbon, and paste. Indium Corporation's Technical Support Engineers provide rapid response to all technical inquiries.

Safety Data Sheets

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

Products

TACFlux [®]	Typical Tackiness (grams)	Typical Viscosity (kcps)	Max Temp (°C)	Reflow Residue (%)	Reliability J-STD-004	Flux Classification	Cleaning Method
No-Clean:							
007	190	570	310	47	Pass	R0L1	No-Clean/Semi-Aqueous Solution
012	140	220	250	45	Pass	R0L0	No-Clean/Semi-Aqueous Solution
014	141	351	250	45	Pass	R0L0	No-Clean/Semi-Aqueous Solution
018	160	255	250	36	Pass	R0L0	No-Clean/Semi-Aqueous Solution
020	175	470	250	45	Pass	R0L0	No-Clean/Semi-Aqueous Solution
021	225	365	230	56	Pass	R0L0	No-Clean/Semi-Aqueous Solution
023	225	410	300	42	Pass	R0L1	No-Clean/Semi-Aqueous Solution
Water-Wash:							
019	175	500	325	45	Pass	ORM0	Water
025-NP	800	10*	370	47	Pass	ORM0	Water

*Brookfield Cone & Plate (CP51, 5rpm, 5 minutes, 25°C)

All information is for reference only.

Not to be used as incoming product specifications.

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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