

Product Data Sheet

TACFlux for Board Assembly and Rework

Introduction

Indium Corporation manufactures a complete line of TACFlux, which include no-clean, water-wash and RMA-based fluxes. Its many uses include: rework and repair of various electronics assemblies & components, SMT component attach (including BGA's & Flip Chip's), 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

This is an RMA-based flux and is compatible with our SMQ51 series solder paste.

TACFlux 009

Compatible with WMA-SMQ65 solder paste, the post reflow residues can be easily cleaned with plain DI water combined with spray pressure and elevated temperatures.

TACFlux 010

Exhibiting ultra-low post reflow flux residue, this flux is popular where an underfill is required. It is compatible with our NC-SMQ75 solder paste. An inert atmosphere is required with this product, which can be utilized at very high reflow temperatures.

TACFlux 012

Formulated for alloys containing indium, this flux is compatible with our NC-SMQ80 solder paste.

TACFlux 013

Compatible with WMA-SMQ64A solder paste, this water-cleanable product is designed for use with low temperature alloys. The post reflow residue can be easily cleaned with plain DI water combined with spray pressure and elevated temperatures.

TACFlux 014

Formulated to be fully compatible with NC-SMQ92 solder paste.

TACFlux 018

When the final application requires a conformal coat, this flux can be utilized. It is compatible with NC-SMQ92, 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-SMQ69HT 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 of crown probes, this flux is recommended for use with our popular NC-SMQ92J solder paste.

TACFlux 020B

This flux has been designed to pass SIR in the unreflowed state. It is also compatible with our popular NC-SMQ92J solder paste, and can be used with our Pb-Free solder pastes, Indium5.1 and Indium5.8LS.

TACFlux 021

Designed for Bi/Sn low melting alloys, this flux can be reflowed at a minimum of 170°C. The compatible solder paste is made with NC-SMQ81.

TACFlux 023

Specifically designed for Pb-free soldering, this flux can be used with our Pb-free solder paste NC-SMQ230.

TAXFlux 025

This is the rework flux for Sn63Pb37, Pb-free, and high lead-bearing alloys in an air or inert gas reflow atmosphere.



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Form No. 97776 R4

S O L D E R

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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 datasheet is one year when stored at 0-30°C. Refrigeration is recommended, but not required.

Packaging

TACFlux is available in various size syringes, jars or cartridges.

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.

Material Safety Data Sheet

The MSDS for this product can be found online at <http://www.indium.com/techlibrary/msds.php>

Products

TACFlux	Typical Tackiness (grams)	Typical Viscosity (kcps)	Max Temp (°C)	Reflow Residue (%)	Reliability J-STD 004	Halide Containing	Cleaning Method
No-Clean Rosin							
007	190	570	310	47	Pass	Y	No-Clean/Semi-aqueous Solution
010	232	67	450	4	Pass	N	No-Clean/Semi-aqueous Solution
012	140	220	250	45	Pass	N	No-Clean/Semi-aqueous Solution
014	141	351	250	45	Pass	N	No-Clean/Semi-aqueous Solution
018	160	255	250	36	Pass	N	No-Clean/Semi-aqueous Solution
020	175	470	250	45	Pass	N	No-Clean/Semi-aqueous Solution
020B	250	800	230	48	Pass	N	No-Clean/Semi-aqueous Solution
021	225	365	230	56	Pass	N	No-Clean/Semi-aqueous Solution
023	225	410	300	42	Pass	Y	No-Clean/Semi-aqueous Solution
Water Wash							
009	365	390	275	30	Pass	N	Water
013	322	72	250	48	Pass	N	Water
019	175	500	325	45	Pass	N	Water
025	550	850	370	47	Pass	N	Water

This product data sheet is provided for general information only. It is not intended, described which are sold subject exclusively to written warranties and limitations and shall not be construed, to warrant or guarantee the performance of the products thereon included in product packaging and invoices.

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