

PRODUCT DATA SHEET

Flux Pens

Introduction

Indium Corporation offers a full line of flux pens in standard industry packaging. The technologically advanced pen has exceptional leak control and dispensing capability. Each pen contains 10ml of one of Indium Corporation's state-of-the-art fluxes designed for printed circuit board or other electronic/electrical assemblies, and is compatible with both tin-lead and lead-free soldering processes.

Products Available

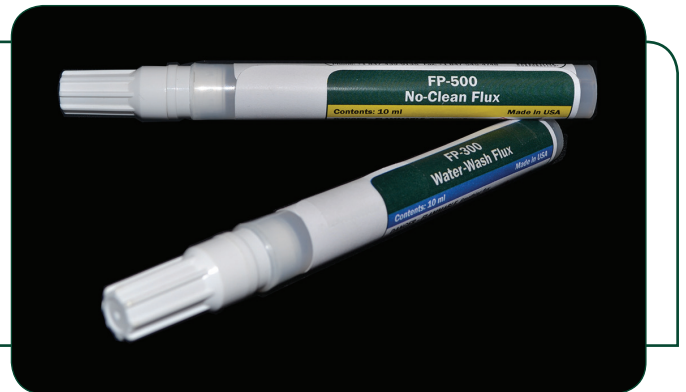
- FP-300 Water-soluble
- FP-500 Rosin-containing, no-clean
- NC-771 Rosin-free, no-clean

FP-300

FP-300 is an alcohol-based, water-soluble flux available in a pen and is designed for touch-up of printed circuit boards. **FP-300** cleans easily with warm DI water. For best residue removal results, clean as soon as soldering is complete.

Physical Properties

Test	Result
Classification J-STD-004	ORM0
Flux Color	Amber
Viscosity	11cs
Specific Gravity @ 25°C	0.905
Acid Value	42
Boiling Point	83°C
Flash Point	11°C
Residue Removal	Warm DI Water



FP-500

FP-500 is a no-clean, rosin-containing, alcohol-based flux in an applicator pen, designed for touch-up and repair of electronic assemblies. By adding a small amount of rosin to the flux, the residue blends in better with the surface of the circuit board, eliminating the chance of any visible white residue.

- Rosin-containing for additional heat stability
- No visible residue with or without cleaning
- Halogen-free

Physical Properties

Test	Result
Classification J-STD-004	ROLO
Specific Gravity @ 25°C	0.812
Acid Value	29.5
Solids Content	11.4
Flash Point (TCC)	54°C
SIR (Bellcore)	Pass

For specific SIR data, please see the FP-500 individual product data sheet.

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NC-771

NC-771 is an alcohol-based, rosin-free, no-clean flux in an applicator pen.

- Passes J-STD-004A SIR in the un-reflowed state
- Halogen-free
- Benign non-sticky post-soldering residue
- Excellent wetting
- Wide process window
- Clear appearance
- Flashpoint (TCC) 12°F

J-STD-004A Testing

Test	Result
Classification	ORLO
SIR	Pass
Copper Mirror	Pass "L"
Silver Chromate	Pass
Fluoride Spot	Pass
Corrosion	Pass
Acid Value	35mg KOH/gm
Specific Gravity @ 25°C	0.825
Flux Solids	5.00%

Packaging and Shipping

- Each flux pen contains 10ml of flux
- Flux pens are packaged 20 per box with a plastic (bag) liner
- Due to the low quantity exemption, flux pens can be shipped as non-hazardous by land
- Air shipment of flux pens are considered AITA hazardous and incur additional charges for special packaging and freight terms

Shelf Life

Unopened flux pens have a shelf life of 2 years.

Technical and Customer Support

Indium Corporation's internationally experienced engineers provide in-depth technical assistance to our customers. Thoroughly knowledgeable in all facets of Materials 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 SDSs for these products can be found online at <http://www.indium.com/sds>

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.

All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

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