



# PRODUCT DATA SHEET

# GS-5425

## Solar-Grade Tabbing Flux

### Introduction

**GS-5425 Tabbing Flux** is a no-clean flux for solar tabbing/stringing applications. It is formulated to provide a wide process window and can be used with Sn/Pb/Ag, Sn/Ag/ Cu, and Sn/Pb alloys.

### Features

- Very low solids content
- Good solderability

### Process Recommendations

**GS-5425 Tabbing Flux** can be applied via dipping tank or sprayed. It should not require thinning; however, if thinning is required, use Indium Corporation's 16-3000 flux thinner.

### Physical Properties

Test	Result	
	GS-5425	16-3000
Color	Clear	Clear
Specific Gravity: @25°C (77°F) @15.5°C (60°F)	0.806 0.813	0.783 0.799
Acid Value	22.0	0
Solids Content	2.5	0
Flash Point (°F TCC)	54	54
J-STD-004 Flux Type	ORLO	N/A
Shelf Life	2 years	N/A

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

### Packaging

- 1 pint evaluation size container
- 1 gallon container
- 5 gallon container
- 5 liter container
- Other packaging available upon request

### Safety

Any fluxes with low flash points should be handled with caution. Store in a dry, well ventilated area away from sparks, flames, and direct heat. Consult Material Safety Data Sheet for full details.

### Bellcore Surface Insulation Resistance Test

Test Pattern	Boards	Initial Reading*	Final Reading*
Standard Bellcore	Control	$7.06 \times 10^{13}$	$8.11 \times 10^{13}$
	Pattern Up	$4.19 \times 10^{10}$	$4.88 \times 10^{11}$
	Pattern Down	$3.43 \times 10^{12}$	$8.55 \times 10^{13}$

*\*All readings expressed in Ohms.*

### Bellcore Electromigration Resistance Test

Test Pattern	Boards	Initial Reading*	Final Reading*
IPC B25A	Control	$1.33 \times 10^{10}$	$1.42 \times 10^{10}$
	Pattern Up	$5.38 \times 10^9$	$8.79 \times 10^9$
	Pattern Down	$1.69 \times 10^9$	$3.94 \times 10^8$

*\*All readings expressed in Ohms.*

### Technical 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 solar, 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

Please refer to the SDS document within the product shipment, or contact our local team to receive a copy.

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.*

## From One Engineer To Another®

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