

PRODUCT DATA SHEET

LV1000 Flux Coating

Features

- Low voiding
- Halide-free; meets ROLO requirements
- Coatings are uniform and level
- Durability for pick-and-place equipment
- Passes Telecordia (Bellcore) testing in activated and unactivated states

Introduction

With the increased demand for flux coatings that have lower voiding, Indium Corporation has developed the next generation of flux coatings. The LV-Series of flux coatings offers low voiding, especially in situations where the component footprint will not allow for proper outgassing of volatilized flux.

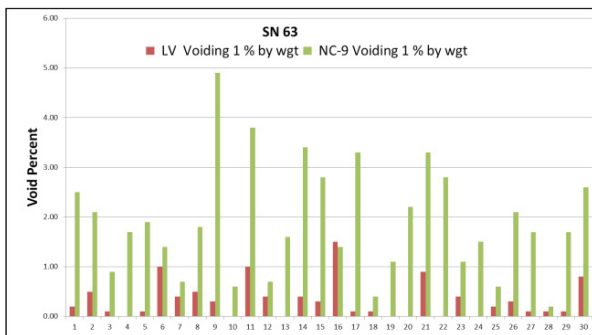
The glossy, even coating of the flux is durable so it can be used as a drop-in replacement in an automated assembly process.

The LV-Series of flux coatings is versatile, allowing for the coating of unique geometries and sizes.

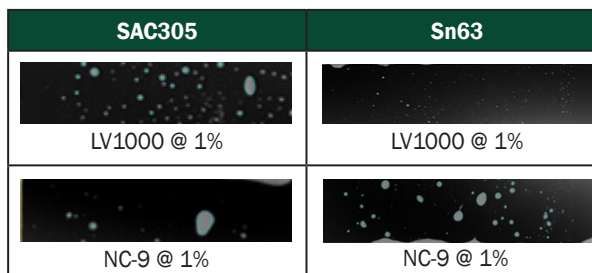
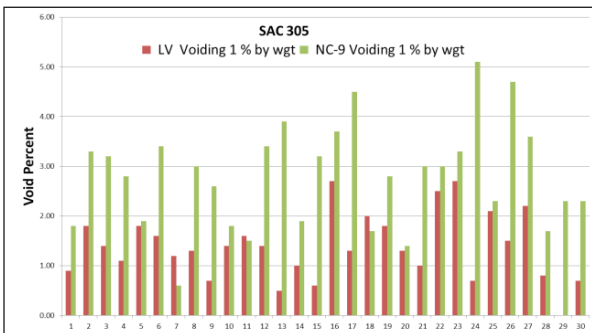
The LV-Series is halide-free, meeting the ROLO requirement without sacrificing strength. The coating tolerances are well-controlled—down to 0.5% by weight—to ensure there is no more flux than required by your process.



LV Flux Coating vs. NC-9 in Sn63

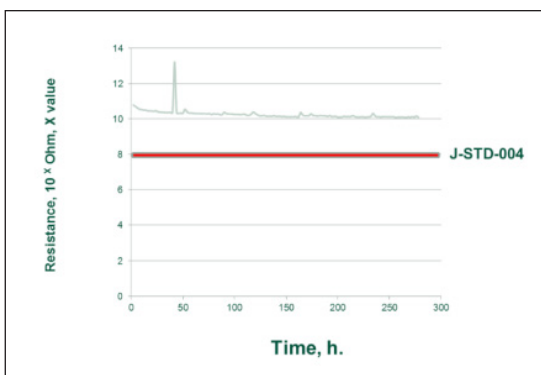


LV Flux Coating vs. NC-9 in SAC 305



Performance

Our NC-9 flux coating has been an industry leader for years, making it an ideal performance benchmark for the LV1000. While NC-9 will still be part of our offering for many applications, LV1000 is specifically designed to reduce voiding under sensitive components where a good thermal path and structural integrity are important to performance and reliability.



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ISO 9001
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LV1000 Flux Coating

IPC-TM-650 2.6.3.3 - SIR*

Board Identifier	Sample	Comb	Ambient Prior to Conditioning	24 Hours at Conditions	96 Hours at Conditions	Ambient After Conditioning
LV1000 Activated	1	A	12.71	13.55	12.43	12.93
		B	12.73	12.90	13.11	14.14
		C	12.60	12.11	12.81	13.75
		D	12.65	12.80	11.72	14.23
	2	A	12.47	13.08	12.48	14.25
		B	12.46	11.09	12.53	14.30
		C	12.51	11.29	12.66	14.06
		D	12.59	12.16	12.69	14.00
	3	A	12.39	12.80	12.51	14.18
		B	12.48	13.22	12.63	14.24
		C	12.46	12.21	12.57	14.46
		D	12.66	11.26	13.15	14.36
	4	A	12.50	12.80	12.50	14.19
		B	12.60	14.25	12.68	14.83
		C	12.59	10.73	12.67	14.23
		D	12.49	12.53	12.62	13.77
Controls	1	A	12.42	12.24	12.75	13.37
		B	12.56	12.80	13.38	14.47
		C	11.81	12.88	12.81	15.05
		D	12.52	12.85	13.61	13.63
	2	A	12.33	11.57	13.28	13.31
		B	12.58	11.06	11.38	13.57
		C	12.75	10.96	11.22	13.77
		D	12.44	13.77	13.00	14.74
	3	A	12.38	11.04	11.64	14.30
		B	12.57	12.39	14.01	15.44
		C	12.57	12.87	12.98	14.06
		D	12.76	13.04	12.88	13.39

GR-78 CORE ECM Testing*

Board Identifier	Sample	Comb	Ambient Prior to Conditioning	96 Hours at Conditions	500 Hours at Conditions	Ambient After Conditioning	
LV1000 Activated	1	1-2	13.14	11.87	11.75	12.86	
		2-3	13.40	12.79	11.51	12.86	
		3-4	12.53	12.13	11.53	12.70	
		4-5	12.54	12.08	11.89	12.95	
	2	1-2	11.57	12.58	12.07	13.46	
		2-3	12.18	12.26	11.69	13.29	
		3-4	11.72	12.37	11.68	13.07	
		4-5	12.89	12.18	12.15	13.11	
	3	1-2	12.28	11.97	12.16	12.08	
		2-3	13.23	12.16	11.74	13.19	
		3-4	14.19	12.38	11.72	13.16	
		4-5	12.59	11.96	12.10	13.41	
	4	1-2	14.32	12.01	12.04	13.33	
		2-3	12.95	12.26	11.67	13.17	
		3-4	13.18	12.24	11.58	13.13	
		4-5	13.53	11.78	11.88	13.36	
LV1000 Un-Activated	5	1-2	11.91	10.84	10.83	13.49	
		2-3	13.31	10.93	11.20	13.60	
		3-4	12.74	9.37	10.88	13.53	
		4-5	12.84	11.02	10.99	13.61	
	6	1-2	11.46	10.93	10.98	14.32	
		2-3	11.70	9.42	10.81	12.52	
		3-4	11.67	9.40	10.75	13.42	
		4-5	11.91	11.52	11.19	13.39	
	7	1-2	12.65	9.39	11.61	13.99	
		2-3	12.77	9.60	10.88	13.37	
		3-4	13.05	9.56	10.82	13.41	
		4-5	13.41	11.05	11.20	13.63	
	Controls	8	1-2	13.16	12.05	11.43	13.62
			2-3	12.99	11.28	11.08	13.40
			3-4	14.37	11.29	11.05	13.39
			4-5	13.46	12.26	11.42	13.63
9		1-2	13.90	12.10	11.66	13.63	
		2-3	13.42	11.47	11.23	13.44	
		3-4	13.46	11.52	11.17	13.43	
		4-5	13.41	12.01	11.62	13.65	
10		1-2	12.99	12.14	11.64	13.63	
		2-3	13.32	11.51	11.27	13.46	
		3-4	13.98	11.51	11.23	13.44	
		4-5	13.90	12.42	11.52	13.64	

IPC-TM-650 2.6.3.3 - SIR*

Board Identifier	Sample	Comb	Ambient Prior to Conditioning	24 Hours at Conditions	96 Hours at Conditions	Ambient After Conditioning
LV1000 Un-Activated	1	A	10.96	12.42	11.47	13.24
		B	10.96	11.09	11.35	12.98
		C	10.83	10.75	11.26	12.91
		D	11.11	11.24	11.56	13.03
	2	A	11.12	11.78	11.45	12.95
		B	11.29	11.17	11.27	12.74
		C	11.10	10.78	11.17	12.84
		D	11.49	11.29	11.52	12.98
	3	A	12.89	12.82	11.61	12.90
		B	12.71	11.43	11.39	12.76
		C	12.77	11.18	11.31	12.71
		D	13.30	11.67	11.60	13.19
Controls	1	A	12.42	12.24	12.75	13.37
		B	12.56	12.80	13.38	14.47
		C	11.81	12.88	12.81	15.05
		D	12.52	12.85	13.61	13.63
	2	A	12.33	11.57	13.28	13.31
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	3	A	12.38	11.04	11.64	14.30
		B	12.57	12.89	14.01	15.44
		C	12.57	12.87	12.98	14.06
		D	12.76	13.04	12.88	13.39

Packaging

This flux coating will work with all pack methods, including tape & reel, tray pack, or loose pack.

Technical Support

Indium Corporation sets the industry standard in providing rapid response, on-site 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.

*Testing performed by Robisan Laboratory, Inc., 6502 E. 21st Street, Indianapolis, IN 46219

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