

# LINQALLOY SP-SAC305



## SAC305 Solder Paste

- No-clean solder paste
- Lead Free and RoHS compliant
- Excellent printing capabilities

**LINQALLOY-SP-SAC305** is a lead free solder paste comprised of 96.5% tin, 3% silver, 0.5% copper that has been designed for Surface Mount Technology(SMT). This Solder Paste is being offered in two options, **No-Clean** and **Water Soluble**.

**No-clean solder paste** is designed for applications where post-soldering cleaning is unnecessary, providing minimal, non-conductive residues. On the other hand, the **water-soluble solder paste** is crafted with refined tin powder that allows you to clean flux residue left after the reflow process.

This solder paste is crafted with refined tin powder that allows for exceptional printing capabilities and minimal oxide content. The enhanced flux content (higher %) guarantees higher reliability and leaves behind minimal residues post reflow, resulting in exceptionally high insulation resistance and excellent reliability.

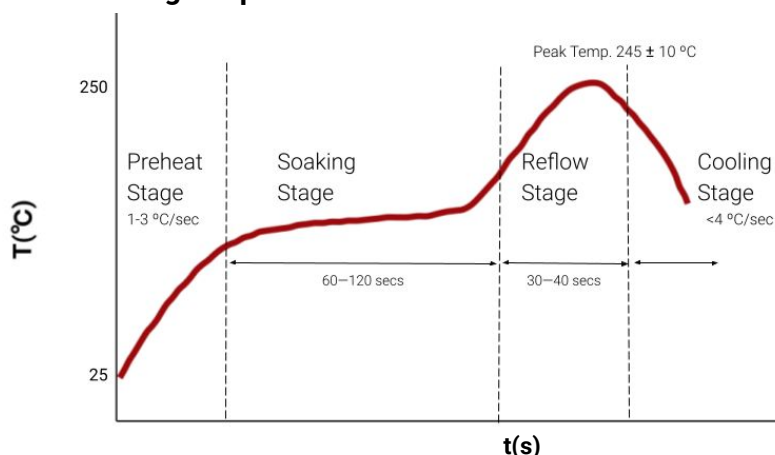
### Chemical composition

Alloy	Chemical composition (wt.%)											
	Sn	Ag	Cu	Ni	Zi	Al	Sb	Fe	As	Bi	Cd	Pb
Sn96.5-Ag3.0 -Cu0.5	Bal.	3.0	0.5	0 ~ 0.01	0.001 [Max]	0.001 [Max]	0.05 [Max]	0.02 [Max]	0.03 [Max]	0.10 [Max]	0.01 [Max]	0.01 [Max]

### Recommended reflow process

Preheating Stage		Soaking Stage		Reflow Stage		Cooling Stage
Preheat Rate °C/sec	Temp. °C	Soaking time secs	Temp. °C	Reflow time secs	Peak Temp.	Cooling Rate °C/sec
1 - 3	150	60–120	150-190	30–40	245°C ±10	<4

### Recommended reflow soldering temperature



#### Europe

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1566JN Assendelft  
The Netherlands  
Phone: +31 (20) 893 2224  
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## Technical Specifications

Item	Specification		Standard
	No-Clean	Water-Soluble	
Alloy	SAC305		JIS-Z-3282
Melting Point [°C]	217		-
Powder Type	Type 3 - Type 5		IPC-TM-650,2.2.14
Metal Content [%]	89		IPC-TM-650 2.2.20
Flux Content wt [%]	11.0 ± 0.5		JIS-Z-3197,8.1.2
Viscosity @ 25°C [Pa.s]	160 ~ 230	160 ~ 230	Malcom PCU 205
Halogen Content	ROL0 / ROL1	ROL0 / ROL1	J-STD-004B
Copper corrosion	PASS		JIS-Z-3197,8.4.
Copper Mirror	PASS		IPC-TM-650,2.3.32
SIR [Ω]	PASS		IPC-TM-650 2.6.3.3

## Storage and handling:

### Before Opening:

- **Storage:**
  - **Temperature:** Ideally, store unopened solder paste in a **refrigerator** at **0°C to 12°C (32°F to 54°F)**. This helps prolong **shelf life [6 months from the manufacturing date]**.
  - **First-In, First-Out (FIFO):** Use older solder paste first to avoid expiration.
  - **Avoid** exposing the paste to **direct sunlight or extreme temperatures**.
- **Transportation:** Keep solder paste cool during transportation. Use insulated containers if necessary.
- Solder paste can endure temperatures up to 35°C for 7 days in transit.

### Opening and Use:

- **Temperature equilibration:** Before opening, allow the sealed container to reach **room temperature (19°C to 25°C or 66°F to 77°F)** for **3-4 hours**. Avoid using forced heating.
- **Opening:** **Do not** use the paste if it is frozen.
- **Use:** Use the paste within its **open time** [usually **3 days** after opening]. Unused paste should be discarded after this period.
- **Hygiene:** Maintain a **clean and dust-free environment** while handling the paste.
- **Mixing:** If necessary, **mix the paste gently** for a short period [3 to 5 minutes] before use to ensure uniform consistency. **Do not** overmix.
- Our packaging is engineered to keep the paste below 35°C for a minimum of 3 days.

### After Opening:

- **Resealing:** After use, **tightly reseal the container** to minimize moisture absorption and oxidation.
- **Storage:** **Do not refrigerate** the paste once opened. Store it at **room temperature**.
- **Labeling:** Consider labeling opened containers with the **date and time of opening** for better tracking.

## Typical Package

500g Bottle

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