# LINQALLOY SP-SAC105



# SAC105 Solder Paste

- Pb-free Sn98.5-Ag1-Cu0.5 alloy
- Solder paste for surface mount technology
- RoHS compliant

**LINQALLOY SP-SAC105** is a Pb-free solder paste composed of 98.5% Sn, 1% Ag, and 0.5% Cu. It has been designed for surface mount technology (SMT). **SP-SAC105** 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.

**LINQALLOY SP-SAC105** is produced using refined Sn powder and minimal oxide content, enabling exceptional printing capabilities. Our SAC105 solder paste offers a compelling combination of properties for reliable and high performance electronics assembly.

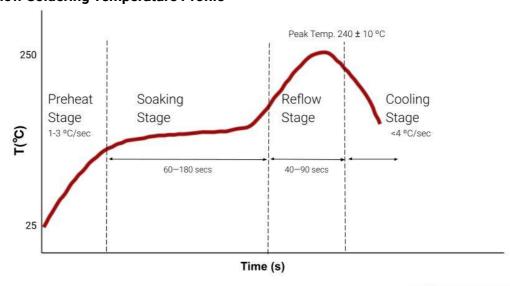
# **Chemical Composition**

Element	Sn	Ag	Cu	Al	Fe	Zn	As	Cd	Sb	Pb
Concentration [wt%]	Balance	1±0.1	0.5	≤0.001	≤0.02	≤0.001	≤0.03	≤0.01	≤0.1	≤0.05

#### **Recommended Reflow Process**

Preheating Stage		Soakin	g Stage	Reflow	Cooling Stage	
Preheat Rate (° C/s)	Temperature (°C)	Soaking Time (s)	Temperature (° C)	Reflow Time (s)	Peak Temperature (° C)	Cooling Rate (° C/s)
1 -3	150	60-180	150-200	40-90	240±10	<4

### **Recommended Reflow Soldering Temperature Profile**



#### Europe

Industrieweg 15E, 1566JN Assendelft The Netherlands Phone: +31 (20) 893 222

Phone: +31 (20) 893 2224 Email: info@caplinq.com

#### Canada

80 Sirocco Crescent Ottawa ON, K2S 2C9 Canada Phone: +1 (613) 482-2215

Email: info@caplinq.com



#### North America

36927 Schoolcraft Rd Livonia, MI 48150 United States Phone: +1 (313) 558-8243

Email: info@caplinq.com

#### **South East Asia**

S-08-07 Persiaran Triangle B Lepas, Penang 11900 Malaysia

Phone: +60 (12) 4302223 Email: info@caplinq.com



## **Technical Specifications**

ater-Soluble	Standard JIS-Z-3282		
	JIS-Z-3282		
219/223 [Solidus/Liquidus]			
Type 3-Type 5			
90			
10.0±0.5			
160-220	Malcom PCU 205		
ORL0/ORL1	IPC-J-STD-004		
Corrosion PASSED			
PASSED		IPC-TM-650 2.3.	
PASSED		PASSED IPC J-STD-	
	-		

#### **Precautions for Use**

- 1. Do not use the paste if frozen. Allow the sealed container to reach room temperature (19 to 25 °C) for 3-4 hours before opening. Avoid forced heating. Our packaging is designed to keep the paste below 35 °C for a minimum of 3 days.
- 2. Maintain a clean, dust-free environment while handling the paste.
- 3. If needed, gently mix the paste for 3 to 5 minutes before use for uniform consistency. Avoid overmixing.
- 4. After use, tightly reseal the container to minimize moisture absorption and oxidation.
- 5. Do not refrigerate the paste once opened. Store at room temperature.
- 6. Use the paste within its open time, usually 3 days after opening. Discard unused paste after this period.
- 7. Consider labeling opened containers with the date and time of opening for tracking.

Please note that the provided information is based on available data and typical conditions. For specific applications and detailed test results, refer to the actual test data and conduct appropriate certifications.

# Storage and Handling

LINQALLOY SP-SAC105 is typically available in 500g bottles. Store unopened solder paste at 0 to 12 °C (32 to 54°F) to prolong shelf life. At proper storage conditions, the shelf life is 6 months from the manufacturing date. Avoid exposure to direct sunlight or extreme temperatures. Employ First-In, First-Out (FIFO) approach to usage, prioritizing older solder paste to prevent expiration. Transport solder paste in insulated containers to maintain cool temperatures. Solder paste can withstand temperatures of up to 35 °C for 7 days during transit.

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