Solder paste NP303-COSMO-LH-T5 DISPENSER

GENMA EUROPE

Product description

GENMA solder paste – our proven COSMO solder paste is now halide free available. The NP303-COSMO-LH-T5 SMD solder paste impresses with highly precise contours, long open time, and consistent adhesiveness in the pick-and-place process. Its extremely good wetting properties, also on difficult surfaces, produce perfect soldering joints. Its extraordinarily consistent viscosity allows storage of up to 12 months which facilitates material planning. Due to its long shelf life and stability at room temperature, the paste is also ideal for rework with low consumption. Our NP303-COSMO-LH-T5 is vacuum degassed, which ensures uninterrupted dispensing in automated applications. Furthermore, solder paste can be transported without cooling. Hardly any voids in the solder connections. Cleaning after soldering is not necessary. The solder paste can be soldered under air or nitrogen reflow. The dispenser solder paste is available in 5cc, 10cc and 30cc cartridges.

Technical properties

	Specific value	Testing method
Alloy	Sn 96,5 / Ag 3,0 / Cu 0,5 / SAC305	
Melting temperature range	217 - 221	IEC61189-11
Powder size (µm)	10 - 25, Type 5	IPC-TM-650-2.2.14.2
Viscosity (Pa · s)	200 ± 20	IPC-TM-650-2.4.34.3
Flux content (wt %)	11,5 ± 0,5	IPC-TM-650-2.3.34.1
Flux type	ROL0, no clean	IPC J-STD-004B
Printing pitch (mm)	0,3	
Halide content (wt %)	< 0,01	IPC-TM-650-2.3.35
Slump in heat (mm)	≤ 0,3	IPC-TM-650-2.4.35 (150°C / 60sec)
Insulation resistance (Ω)	≥ 1 x 10^{11} (40°C 90 % r. L)	IPC-TM-650-2.6.3.3
Insulation resistance (Ω)	≥ 5 x 10^{8} (85°C 85 % r. L)	IPC-TM-650-2.6.3.3
Migration test	No migration	IPC-TM-650-2.6.14.1
Copper mirror test	No corrosion	IPC-TM-650-2.3.32
Packaging	Cartridge 5cc, 10cc, 30cc	
Shelf life	12 months at 0-10°C, 3 months at < 35°C	
Transport	Without cooling	

Compliance

Dated 13.11.2025

Conform with RoHS-Regulation 2011/65/EU and 2015/863/EU.

Contains no substances (SVHC-list) more than threshold (0,1%) according to REACH legislation EG Nr. 1907/2006.

Contains no substances as defined by the Toxic Substance Control Act (TSCA) of the United States Environmental Protection Agency.

Contains no substances according to POP Regulation EU 2019/1021.

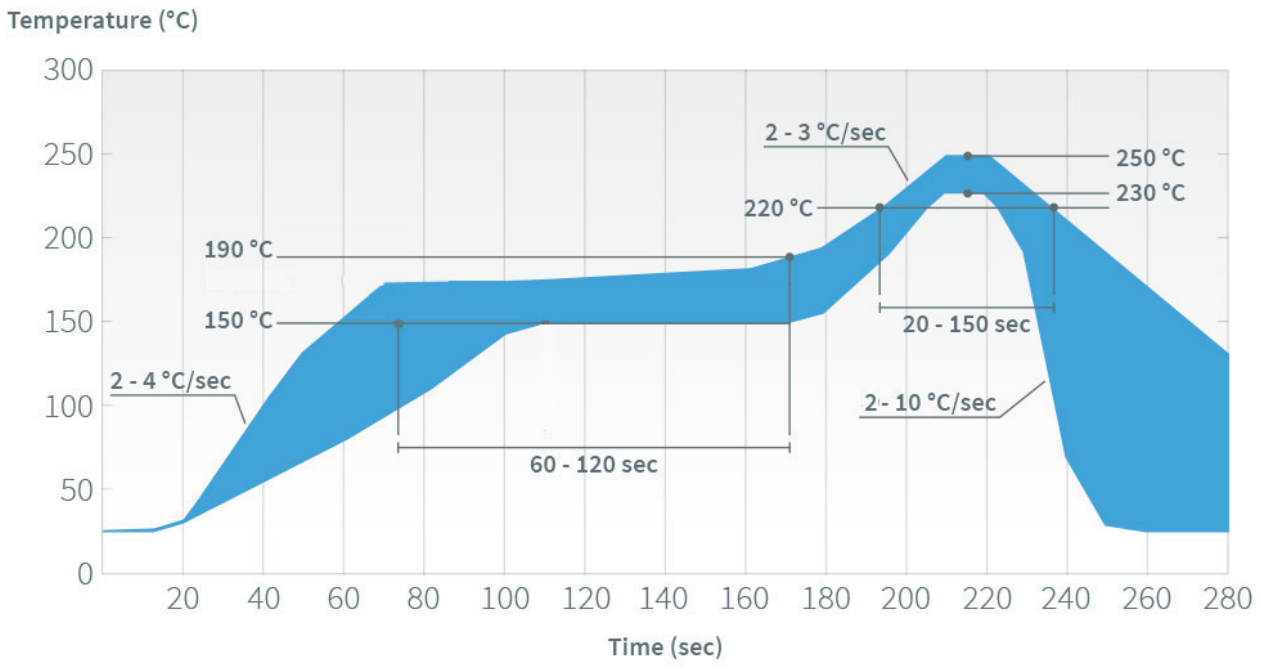
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Contains no Per- and PolyFuluoroAlkyl Substances (PFAS).

Contains no phthalates or latex.

Contains no substances according to California Proposition 65.

Recommended Reflow Profile



Preheating

The temperature increase should be 2°C to 4°C/sec until the preheating zone is reached. If the temperature rises too quickly this may cause a running of the solder paste.

To achieve a temperature spread (⊿t) on the circuit board that is as limited as possible, the temperature in the preheating zone should be between 150 and 190°C and the preheating time should be 60 to 120 seconds. If the temperature is too low or the preheating time too short, the temperature spread (⊿t) on the circuit board will be too high. If the temperature is too high and the preheating time too long the activators will get lost which may lead to poor melting of the solder paste.

Reflow peak

We recommend keeping the temperature at 220°C for 20 to 150 seconds, if possible. If this is impossible, a temperature of up to 250°C can be maintained for a shorter period of time. It must be ensured, however, that the components are suited for the higher temperature.

Cooling down

The cooling rate should be between 2 and 10°C/sec. If the cooling rate is too low components may be displaced or come up and reduce the strength of the solder connections. If the cooling rate is too high, however, components can be damaged through thermal shock.