Solder paste NP303-DPS501-T4

GENMA EUROPE

Product description

GENMA SMD solder paste – our dispenser solder paste NP303-DPS501-T4 was developed to meet the high requirements during laser-soldering and it also makes for excellent results with reflow soldering. The solder paste does not splatter and creates no tin beads or flux spatter beside the soldering joint. It produces attractive soldering joints that are surrounded by clear flux residues. The solder paste features a consistent adhesiveness during the pick-and-place process. Its consistent viscosity provides for an even and reproducible dispenser application. Our NP303-DPS501-T4 is vacuum degassed, which ensures uninterrupted dispensing even in automated applications. Cleaning after soldering is not necessary. The solder paste can be soldered under air or nitrogen reflow.

Technical properties

	Specific value	Testing method
Alloy	Sn 96,5 / Ag 3,0 / Cu 0,5 / SAC305	
Melting temperature range	217 - 221	IEC61189-11
Alloy (wt %)	Sn 96,5 / Ag 3,0 / Cu 0,5 / SAC305	
Powder size (µm)	22 - 38, type 4	JIS Z 3284 2 4.1
Viscosity (Pas)	100 ± 20	Malcom PCU 2, 5, 205
Flux content (wt %)	11,5 -14,5	JIS Z 3197 8.1.2
Flux type	ROL1, contains halogen	
Halide content (wt %)	0,3 - 0,5	JIS Z 3197 8.1.4.2.1
Insulation resistance (Ω)	≥ 1,0 x 10^{11} (40°C 90 % r. L)	IPC-TM-650-2.6.3.3
Insulation resistance (Ω)	≥ 1,0 x 10^{8} (85°C 85 % r. L)	IPC-TM-650-2.6.3.3
Migration test	No migration	JIS Z 3197 8.5.4
Copper mirror test	No corrosion	JIS Z 3197 8.4.1
Packaging	cartridges 10cc, 30cc	
Shelf life	3 months at 0-10°C	
Transport	keep cool	
Tempering the solder paste	Set to room temperature before opening to avoid condensation.	
Recommended temperature during dispensing (°C)	25 ± 3	
Recommended relative humidity in % during dispensing	50 ± 20	

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.

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

Contains no Per- and PolyFuluoroAlkyl Substances (PFAS).

Contains no phthalates or latex.

Contains no substances according to California Proposition 65.