



Lead-Free Solder Paste PF606-PW

Rev. 2017/03/01 Ver. 03-01

BASIC OVERVIEW



SnAg3.0Cu0.5X Solder Paste Lead-Free Water Soluble Zero Halogen

APPLICATIONS

Water Soluble Lead-Free SMD Solder Paste Wide Range of Applications and PCB designs

FEATURES

Appearance	Gray paste w/o visible foreign and clusters							
Alloy Composition	Sn/Ag3.0/Cu0.5/x					JIS-Z-3282		
Melting Point	217~219 °C							
Particle Size	(Type 3) +	45μm	< 1%	, - 20µm	< 10%	J-STD-005		
	(Type 4) +3	38µm	< 1%	, - 20µm	< 10%			
	(Type 5) +2	25μm	< 1%	, - 15μm	< 10%			
Powder Shape	Spherical							
Flux Content	11.0 ± 1.0 wt%					JIS-Z-3197, 8.1.2		
Viscosity	180 ± 30 Pa.s (25±1°C, 10rpm, Malcom)					JIS-Z-3284 Annex 6		
Flux Type	ORH0					J-STD-004		

Alloy Detail Composition

(Sn)	(Ag)	(Cu)	(Ni)	(Ge)	(Zn)	(AI)	(Sb)	(Fe)	(As)	(Bi)	(Cd)	(Au)	(In)	(Pb)
REM.	2.8~	0.3~	0~	0~	0.001	0.001	0.05	0.02	0.03	0.10	0.002	0.05	0.10	0.05
KEIVI.	3.2	0.7	0.01	0.01	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX

Patent No.: Japanese Patent No. 3296289, U.S Patent No. 6179935B1, Germany Patent No.19816671C2

(wt%)

Scan Code for Solder Paste Documents







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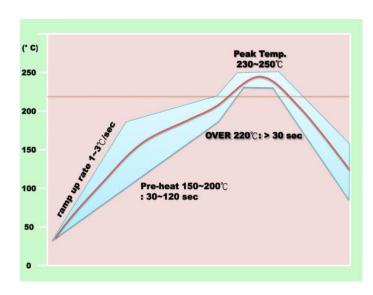
PERFORMANCE & RELIABILITY

Copper Plate Corrosion Test	Pass	IPC-TM-650, 2.6.15
Spreading Test	> 70%	JIS-Z-3197, 8.3.1.1
Copper Mirror Test	Pass	IPC-TM-650, 2.3.32
Viscosity Test (25°C,10 rpm)	180 ± 30 Pa.s	JIS-Z-3284. Annex 6
Tackiness Test (gf)	> 130 (8hr)	JIS-Z-3284. Annex 9

S.I.R. Test	A	Pass	IPC-TM-650, 2.6.3.3
Electro Migration Test	•	Pass	IPC-TM-650, 2.6.14.1

[▲] Test Conditions: 85°C, 85% RH for 168hrs

RECOMMENDED REFLOW PROFILE



Ramp Up Rate (30-150°C): 1.0-3.0 °C/sec

Pre-heating Time (150-200°C): 30-120 sec

Time Period Above 220°C: >30 sec

Ramp Up During Reflow: 1.0-2.0 °C/sec

Peak Temperature: 230-250 °C

Ramp Down Cooling Rate: 1.0-6.0 °C/sec

 $Important\ Note: For\ solder\ paste\ with\ powder\ size\ Type\ 4.5\ or\ smaller,\ nitrogen\ atmosphere\ is\ strongly\ recommended\ for\ best\ soldering\ result.$

Note: The recommended reflow profile is provided as a guideline. Optimal profile may differ due to oven type, assembly layout or other process variables.

Test Conditions: 65°C, 88.5% RH for 596 hrs





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STORAGE & HANDLING:

- Refrigerate the solder paste at 0-10°C. Shelf life is 6 months from production date (sealed package).
- Keep away from direct sunlight.
- Allow the paste to reach defined printing temperature (room temperature) for 3-4 hrs. Do not heat up the solder paste rapidly.
- For jars packaging, mix the solder paste before use for 1-3 mins by plastic spatula.
- It is recommended to finish fresh paste within 24 hrs. Do not store used paste and fresh paste in the same jar.
- If printing process was interrupted for more than 1 hour, remove the remained paste from stencil and seal in the jar.
- Recommended printing environment is 22-28°C and RH 30-60%.
- The residue is easily cleaned by 60±5°C D.I. water with minimum pressure of 60psi, and suggested to be done within 24hrs. These parameters may be adjusted to accommodate various board geometries and the efficiency of the cleaning machine.

Note: For more information, please refer to solder paste application guideline sheet

HOW TO ORDER

PF606 - PW - T3 - 500

Solder Alloy PF606 = SnAg3.0Cu0.5 Flux PW = Water Soluble

Particle Size $T3 = 20-45 \mu m$ 30 = syringe 30g

Weight / Packaging

 $T4 = 20-38 \mu m$ 100 = syringe 100g

 $T5 = 15-25\mu m$ 150 = syringe 150g

250 = plastic jar 250g 500 = plastic jar 500g

600 = small cartridge 600g

1200 = large cartridge 1200g

CARTRIDGE



JAR

SYRINGE

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