



Lead-Free Solder Paste PF606-P

Rev. 2016/03/01 Ver. 02-01

BASIC OVERVIEW



SnAg3.0Cu0.5X Solder Paste Low Halide No Clean Low Voiding

APPLICATIONS

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

FEATURES

Appearance	Gray paste	w/o visib						
Alloy Composition	Sn/Ag3.0/Cu0.5/x					JIS-Z-3282		
Melting Point	217~219 °C							
Particle Size	(Type 3)	+45μm	< 1%	, - 20µm	< 10%	IPC-TM-650, 2.2.14		
	(Type 4)	+38µm	< 1%	, - 20µm	< 10%			
	(Type 5)	+25µm	< 1%	, - 15μm	< 10%			
	(Type 6)	+15μm	< 1%	, - 5μm	< 10%			
Powder Shape	Spherical							
Flux Content	11.5 ± 1.0 wt%					JIS-Z-3197, 8.1.2		
Halide Content	<0.5 wt% (in flux)					J-STD-004		
Viscosity	200 ± 30 Pa.s (25±1°C, 10rpm, Malcom)					JIS-Z-3284 Annex 6		
Flux Type	ROL1					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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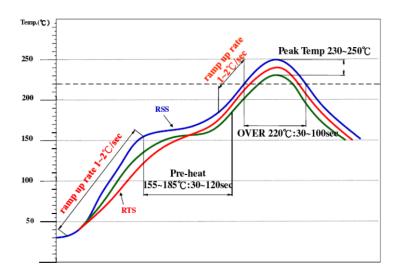
PERFORMANCE & RELIABILITY

Copper Plate Corrosion Test	Pass	JIS-Z-3197, 8.4.1
Spreading Test	> 75%	JIS-Z-3197, 8.3.1.1
Copper Mirror Test	Pass	IPC-TM-650, 2.3.32
Viscosity Test (25°C,10 rpm)	200 ± 30 Pa.s	JIS-Z-3284. Annex 6
Tackiness Test (gf)	> 130 (8hr)	JIS-Z-3284. Annex 9
Slump Test	Pass	JIS-Z-3284. Annex 7,8
Solder Ball Test	Pass	JIS-Z-3284. Annex 11

S.I.R. Test	A	$>$ 1 x 10 9 Ω , 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): 1.0-2.0 °C/sec

Pre-heating Time (155-185°C): 30-120 sec

Time Period Above 220°C: 30-100 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

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 of 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%.

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

HOW TO ORDER

PF606 - P - T3 - 500

Solder Alloy PF606 = SnAg3.0Cu0.5 Flux P = ROL1 Particle Size

 $T4 = 20-38 \mu m$

T5 = 15-25µm

 $T6 = 5-15 \mu m$

Weight / Packaging $T3 = 20-45 \mu m$ 30 = syringe 30g

> 100 = syringe 100g 150 = syringe 150g

250 = plastic jar 250g

500 = plastic jar 500g

600 = small cartridge 600g 1200 = large cartridge 1200g SYRINGE

CARTRIDGE

JAR

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