

No-Clean Solder Paste

Model: PF606-P

Rev. 2010/03/10 Ver. 8

-Specification-

Item	Specification	Standard		
Appearance	Gray paste w/o visible foreign and clusters			
Alloy composition	Sn/Ag3.0/Cu0.5/x	JIS-Z-3282		
Melting Point	217~219 ℃			
Particle Size	$\begin{array}{llllllllllllllllllllllllllllllllllll$	IPC-TM-650,2.2.14		
Powder Shape	Spherical			
Flux Content	11 ± 1.0wt%	JIS-Z-3197, 8.1.2		
Viscosity	200 ± 30 Pa ⋅ s (25±1°C, 10rpm,Malcom)	JIS-Z-3284, Annex 6		
Flux Type	ROL1	J-STD-004B		

- Test Content-

Test Item	Test Result	Test Method		
Copper Plate Corrosion Test	Pass	JIS-Z-3197, 8.4.1		
Spread Test	> 75%	JIS-Z-3197, 8.3.1.1		
Copper Mirror Test	Pass	IPC-TM-650, 2.3.32		
Viscosity Test(25 °C,10rpm)	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		

Reliability Test

S.I.R. Test	A	> 1×10 ⁹ Ω, Pass	IPC-TM-650, 2.6.3.3			
Electro Migration Test •		Pass	IPC-TM-650, 2.6.14.1			

[▲]Test Conditions: 85 $^{\circ}$ C, 85% RH for 168 hrs ϕ Test Conditions: 65 $^{\circ}$ C, 85% RH for 596 hrs

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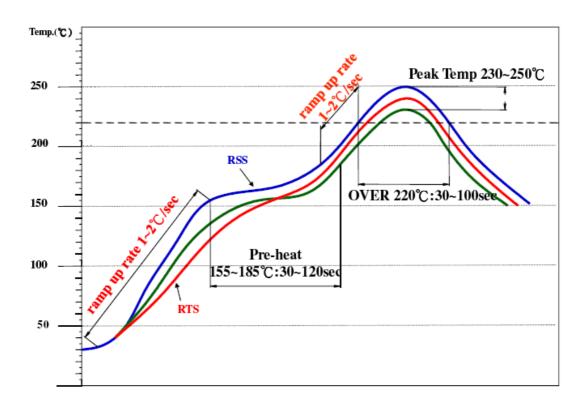
– Alloy Composition –

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

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

(Wt%)

- Temperature Profile—



ramp up rate($30\sim150~$ °C): $1.0\sim2.0~$ °C/sec pre-heating time($155\sim185~$ °C): $30\sim120~$ sec time period above 220~°C: $30\sim100~$ sec ramp up rate during reflow: $1.0\sim2.0~$ °C/sec peak temperature: $230\sim250~$ °C ramp down rate during cooling: $1.0\sim6.0~$ °C/sec

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Handling and Storage Instructions—

1. Storage

- (1) Refrigerate pastes at 0~10 °C helps prolong shelf life; normal shelf life is 6 months from production date (sealed jars).
- (2) Keep away from direct sunlight.

2. Operation Manual (Sealed)

- (1) Allow pastes to reach ambient printing temperature prior to use for 3 4 hrs. Do not heat to raise temperature abruptly.
- (2) Well mix paste with plastic spatula for 1-3 mins before use. Mixing time depends on tool type.

3. Operation Manual (Opened)

- (1) At first, add 2/3 jar of solder paste onto the stencil. Do not add more than 1 jar.
- (2) Add a little amount of paste at a time on the stencil according to printing speed.
- (3) It is recommended to finish fresh paste within 24 hrs. To maintain paste quality, make sure not to store used paste and fresh paste in the same jar.
- (4) After printing, it is suggested to place components to be mounted on the circuit board and reflow within 4 − 6 hrs.
- (5) If printing process was interrupted for more than 1 hr, be sure to remove paste remnant from stencil and seal them in the jar.
- (6) It is recommended to keep printing environment at 22~28 °C and RH of 30~60%.
- (7) To clean up printed circuit boards, it is suggested to use ethanol or isopropanol.

Contact Information

MANNCORP (East)

2845 Terwood Road, Willow Grove, PA 19090

Tel: 215.830.1200 Fax: 215.830.1206

Mail: sales@smtsolderpaste.com

MANNCORP (West)

4901 Morena Blvd #314, San Diego, CA 92117

Tel: 858.490.6266 Fax: 858.581.0595

Mail: sales@smtsolderpaste.com

Please refer to our website.

Website: www.smtsolderpaste.com