



FORMOSA No-Clean Solder Paste

Model: P606-P26

-Specification—



Rev. 2010/03/10 Ver. 3

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	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	IPC-TM-650, 2.2.14			
Powder Shape	Spherical				
Flux Content	12.0 ± 1.0wt%	JIS-Z-3197, 8.1.2			
Halide Content	0.0 wt% (in flux)	J-STD-004B			
Viscosity	200 ± 30 Pa \cdot s (25±1 $^\circ\!\mathrm{C}$, 10rpm, Malcom)	JIS-Z-3284, Annex 6			
Flux Type	ROL0	J-STD-004B			

Test Content-

Test Item	Test Result	Test Method			
Copper Plate Corrosion Test	Pass	JIS-Z-3197, 8.4.1			
Spreading Test	>70%	JIS-Z-3197, 8.3.1.1			
Ion Chromatography Test	0.0 wt%	IPC-TM-650 Method 2.3.28.1			
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		> 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 C, 85% RH for 168 hrs ◆Test Conditions : 65 C, 85% RH for 596 hrs





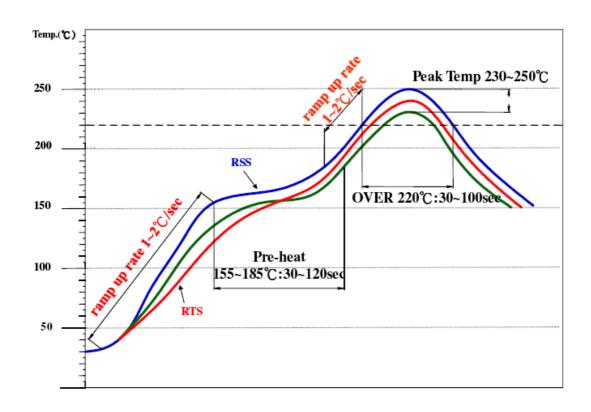
- Alloy Composition-

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

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

(Wt%)

- Temperature Profile-



ramp up rate(30~150 $^{\circ}$ C) :	1.0~2.0 °C/sec
pre-heating time(155~185 °C) :	30~120 sec
time period above 220 ${}^{\circ}\!\!{}^{\circ}$:	30~100 sec
ramp up rate during reflow:	1.0~2.0 °C/sec
peak temperature:	230~250 °C
ramp down rate during cooling:	1.0~6.0 °C/sec





- Handling and Storage Instructions-

1. Storage

- 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

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BRANCHES:

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