

Availability

alloy	metal content	powder size	packaging
Sn63Pb37 Sn62Pb36Ag2	printing: ~ 89,5%	type 3 type 4 type 5 for certain alloys	jars :250g/500g <u>cartridges:</u> 6Oz: 500g/600g/700g 12Oz: 1kg/1,2kg/1,3kg/1,5kg <u>syringes</u> : 5CC/10CC/ 30CC
Other alloys upon request			other packaging upon re- quest

Technical Data LP 5720 SnPb(Ag) Ver: 4.2 04-04-17 S.A. INTERFLUX[®] ELECTRONICS N.V - Eddastraat 51 - BE-9042 Gent - Belgium tel.: +32 9251 49 59 - fax.: +32 9251.4970 www.interflux.com - Info@interflux.com



Absolutely halogen free

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Profile recommendations for LP 5720 SnPb(Ag)

LP 5720 SnPb(Ag) has been designed for a large process window in reflow. The solder paste can cope with both long and high as well as short and low profiles.

In general a profile with limited soak is advised. Also linear ramp profiles and soak profiles are possible. Soak profiles may be used when temperature differences across a board, due to a high mix of components or large board sizes, need to be levelled out or when voids, if present, need to be decreased.

It is very important to know the temperature limitations of the components used on the board. To get a good thermal mapping of the board it is advised to use thermocouples and a thermal measuring tool. Measure on small outline, big outline and temperature sensitive components. Measure on the board side near the conveyor chain, in the middle of the board and close to, or on heat sinks.

Preheat

To allow absorbed moisture in the components to evaporate slowly and avoid component cracking, keep a steady heating rate between 1-3°C/s until about 170°C. For that purpose try to avoid a hot air temperature setting in the first heating zone above 150°C.

<u>Soak</u>

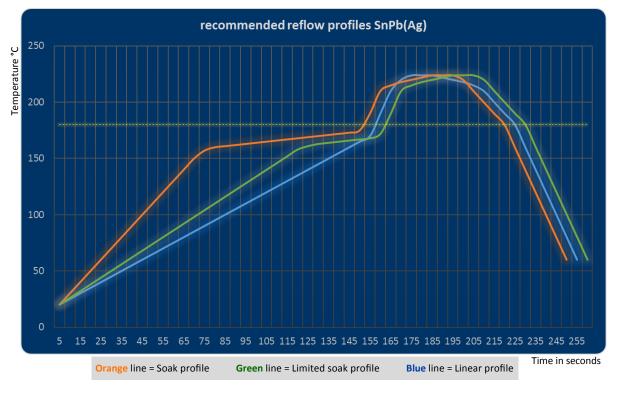
A soak zone between 150°C and 170°C can be used to level out temperature differences and/or reduce voiding.

<u>Reflow</u>

Peak temperature used is related to component specifications. In general between 200°C and 230°C. The time in liquidus (over melting point of the alloy used) could be between 45s and 90s.

Cooling

It is advised to cool not faster than -4°C/s because of differences in thermal expansion of different materials (component and boards). Faster cooling in general gives stronger solder joints.



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Handling

Storage

Store the solder paste in the original packaging, tightly sealed at a preferred temperature of 3° to 7°C. Shelf life is 6 months.

Handling

Let the solder paste reach room temperature prior to opening the packaging. Stir well before use.

Printing

Assure good sealing between PCB and stencil. A negative print gap of 0,2 to 0,4mm is advisable. Apply no more than enough squeegee pressure to get a clean stencil. Apply enough solder paste to the stencil to allow smooth rolling during printing. Regular replenish fresh solder paste.

<u>Maintenance</u>

Set an under stencil clean interval which provides continuous printing quality. **ISC8020** is recommended as cleaning agent in pre saturated wipes and USC liquid.

<u>Reuse</u>

Avoid mixing used and fresh paste in a jar. Do not put packages back into refrigeration when already opened. Store used paste in a separate jar at room temperature. A test board before reusing in production is advisable.

Test results

conform ID		B/J-STD-005
	2 J-2 I D-004	-D/J-JID-003

Property	Result	Method
Chemical		
qualitative copper mirror	pass	J-STD-004A IPC-TM-650 2.3.32
halide content	0,00%	J-STD-004A IPC-TM-650 2.3.28.1
silver chromate (Cl, Br)	pass	J-STD-004A IPC-TM-650 2.3.33
flux classification	RO LO	J-STD-004A
Environmental SIR test	pass	J-STD-004A IPC-TM-650 2.6.3.7

Property		Result	Method
Mechanical			
solder ball test	after 15min	pass	J-STD-005 IPC-TM-650 2.4.43
	after 4h	pass	J-STD-005 IPC-TM-650 2.4.43
wetting test		pass	J-STD-005 IPC-TM-650 2.4.45
slump test	after 15min at 25°C	pass	J-STD-005 IPC-TM-650 2.4.35
	after 10min at 150°C	pass	J-STD-005 IPC-TM-650 2.4.35

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Health and safety

Please always consult the safety datasheet of the product.

Operating parameter recommendations

Printing

speed: squeegee pressure: 250g-350g/cm length U.S.C. interval: Preferred temperature range: Preferred humidity range: Stencil life:

Mounting tack time:

Reflow reflow profile: heating type:

every 10 boards 15 to 25°C 40% to 75% r.H. >24hrs >8 hours

linear and soak

convection, ...

10-100 mm/sec

I.C.T flying probe testable pin-bed testable

Cleaning

Cleaning of the paste from stencils and tools is recommended with Interflux[®] ISC 8020.

The post reflow residues of LP 5720 SnPb(Ag) are highly reliable and do not need to be cleaned, however they can be cleaned if desired.

Trade name : LP 5720 SnPb(Ag) No-Clean, Halide Free, Solder Paste

Disclaimer

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