

Datasheet revision 1.2

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# Thermally Stable Solder Paste No-Clean Sn42/Bi57.6/Ag0.4 T4 (35g Syringe)

Product Highlights Revolutionary Formula: No Refrigeration Required! Printing speeds up to 125mm/sec Long stencil life Wide process window Clear residue

Low voiding Excellent wetting compatibility on most board finishes Dispense grade Compatible with enclosed print heads RoHS 3 and REACH compliant

Specifications		
Alloy:	Sn42/Bi57.6/Ag0.4	
Mesh Size:	Τ4	
Micron (µm) Range:	20-38	
Flux Type:	Synthetic No-Clean	
Flux Classification:	ROL0	
Metal Load:	87% Metal by Weight	
Melting Point:	138°C (281°F)	
Packaging:	10cc/35g Syringe	
Shelf Life:	Refrigerated >12 months, Unrefrigerated >12 months	*See notes below:

<u>\*Shelf Life Notes:</u> Chip Quik® solder paste is good past its quoted shelf life, regardless of refrigeration. Before use, visually inspect the solder paste to ensure it is not dried out or clumpy, or check stencil release. If stored in a jar, stir the product thoroughly for 2-3 minutes before inspection and use.

Chip Quik® solder paste is manufactured using high quality synthetic flux and precision atomized metal powder. Chip Quik® solder paste is guaranteed for 12 months from date of manufacture, regardless of refrigeration. If you have any issues with our solder paste, please contact Chip Quik® directly for no charge warranty replacement. Please retain original bill of sale, and solder paste in original container as we may request its return for internal R&D testing purposes.

## **Printer Operation**

Print Speed: 25-125mm/sec Squeegee Pressure: 70-250g/cm of blade Under Stencil Wipe: Once every 10-25 prints, or as necessary

Stencil Life >12 hours @ 20-50% RH 22-28°C (72-82°F) >4 hours @ 50-70% RH 22-28°C (72-82°F)

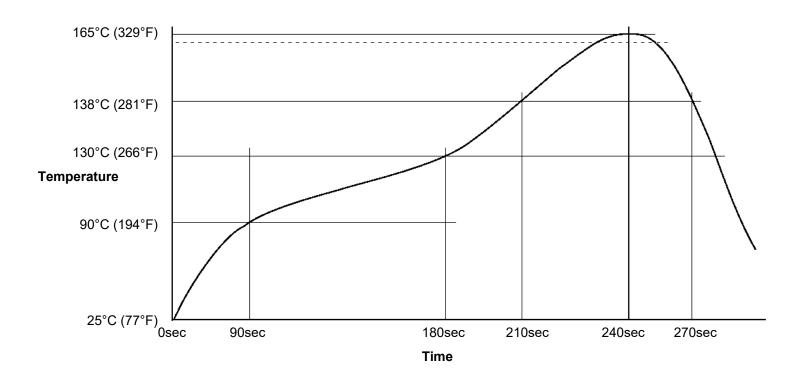
## **Stencil Cleaning** Automated stencil cleaning systems for both stencil and misprinted boards. Manual cleaning using isopropyl alcohol (IPA).

### **Storage and Handling**

Store at room temperature 20-25°C (68-77°F). Do not freeze. Chip Quik Thermally Stable solder paste should be stored at its operating temperature (room temperature) of 20-25°C (68-77°F), therefore no warming time is required before use.

### Transportation

This product has no shipping restrictions. Shipping below 0°C (32°F) or above 25°C (77°F) for normal transit times by ground or air will not impact this product's stated shelf life.



#### **Test Results**

Test Requirement	Result
IPC-TM-650: 2.3.32	L: No breakthrough
IPC-TM-650: 2.6.15	L: No corrosion
IPC-TM-650: 2.3.28.1	L: <0.05%
IPC-TM-650: 2.6.14.1	L: <1 decade drop (No-clean)
IPC-TM-650: 2.6.3.7	L: ≥100MΩ (No-clean)
IPC-TM-650: 2.4.44	33g
IPC-TM-650: 2.4.34.4	Print: 140-195, Dispense: 115-160
IPC-TM-650: 3.4.2.5	Clear and free from precipitation
Electronic Industry Citizenship Coalition (EICC)	Compliant
Articles 33 and 67 of Regulation (EC) No 1907/2006	Contains no substance >0.1% w/w that is listed as a SVHC or restricted for use in solder materials
	IPC-TM-650: 2.3.32   IPC-TM-650: 2.6.15   IPC-TM-650: 2.3.28.1   IPC-TM-650: 2.6.14.1   IPC-TM-650: 2.6.3.7   IPC-TM-650: 2.4.44   IPC-TM-650: 2.4.34.4   IPC-TM-650: 3.4.2.5   Electronic Industry Citizenship   Coalition (EICC)   Articles 33 and 67 of Regulation (EC)

Conforms to the following Industry Standards:	
J-STD-004B, Amendment 1 (Solder Fluxes):	
J-STD-005A (Solder Pastes):	
J-STD-006C, Amendments 1 & 2 (Solder Alloys and Fluxed/Non-Fluxed Solders):	
RoHS 3 Directive (EU) 2015/863:	Yes