# **CHIPQUIK®**

# NC191LT50T5

Datasheet revision 1.1 www.chipquik.com

# Smooth Flow™ Solder Paste No-Clean Sn42/Bi57.6/Ag0.4 T5 (50g Jar)

#### **Product Highlights**

## Smooth Flow<sup>™</sup> Technology

Developed with a lower density flux vehicle for better shear spread and improved flow during heating

Printing speeds up to 125mm/sec Long stencil life, Wide process window Halogen Free (EN14582 test method) Clear residue
Low voiding
Excellent wetting compatibility on most board finishes
Print grade
RoHS 3 and REACH compliant

#### **Specifications**

Alloy: Sn42/Bi57.6/Ag0.4

Mesh Size: T5
Micron (µm) Range: 15-25

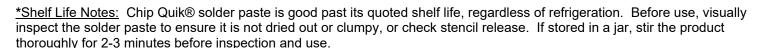
Flux Type: Synthetic No-Clean

Flux Classification: ROL0

Metal Load: 89.25% Metal by Weight

Melting Point: 138°C (281°F) Packaging: 50g Jar

Shelf Life: Refrigerated >6 months, Unrefrigerated >2 months \*See notes below:



Chip Quik® solder paste is manufactured using Made in USA 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**

>8 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

Refrigerate at 3-8°C (37-46°F). Do not freeze. Allow 4 hours for solder paste to reach an operating temperature of 20-25°C (68-77°F) before use.

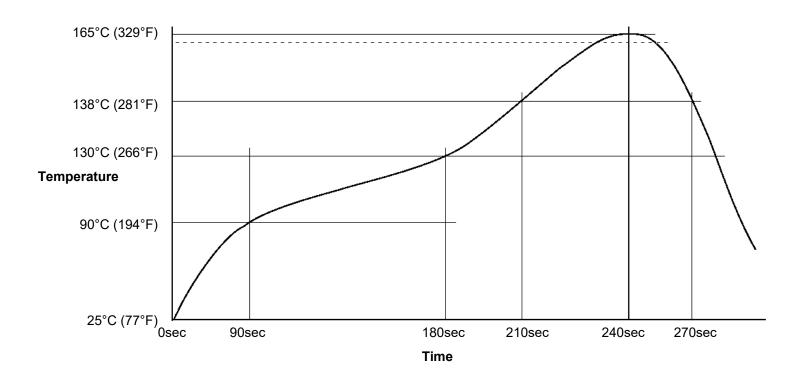
#### **Transportation**

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.



#### **Recommended Profile**

Reflow profile for Sn42/Bi57.6/Ag0.4 solder assembly, designed as a starting point for process optimization.



#### **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	34g
IPC-TM-650: 2.4.34.4	Print: 130-185, Dispense: 105-150
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):	Yes
J-STD-005A (Solder Pastes):	Yes
J-STD-006C, Amendments 1 & 2 (Solder Alloys and Fluxed/Non-Fluxed Solders):	Yes
RoHS 3 Directive (EU) 2015/863:	Yes