# **CHIPQUIK®**

## WS430SNL500T4C

Datasheet revision 1.3 www.chipquik.com

#### Solder Paste Sn96.5/Ag3.0/Cu0.5 T4 88.75% Water-Washable No-Clean 500g Cartridge Thermally Stable

Low voiding

Print grade

Compatible with most board finishes

Compatible with enclosed print heads

#### **Product Highlights**

Revolutionary Formula: No Refrigeration Required!

Printing speeds up to 100mm/sec

Long stencil life Wide process window Excellent Wetting

Water-Washable Easily cleaned with water (60°C+)

**Specifications** 

Alloy: Sn96.5/Ag3.0/Cu0.5

Mesh Size: T4
Micron (µm) Range: 20-38

Flux Type: Synthetic Water-Soluble

Flux Classification: REL0 (Residue can be washed off with hot water (60°C+), or left on (no-clean) for most applications)

Metal Load: 88.75% Metal by Weight

thoroughly for 2-3 minutes before inspection and use.

Melting Point: 217°C (423°F) Packaging: 500g Cartridge

Shelf Life: Refrigerated >12 months, Unrefrigerated >12 months \*See notes below:



\*Shelf Life Notes: 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

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: 25-100mm/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**

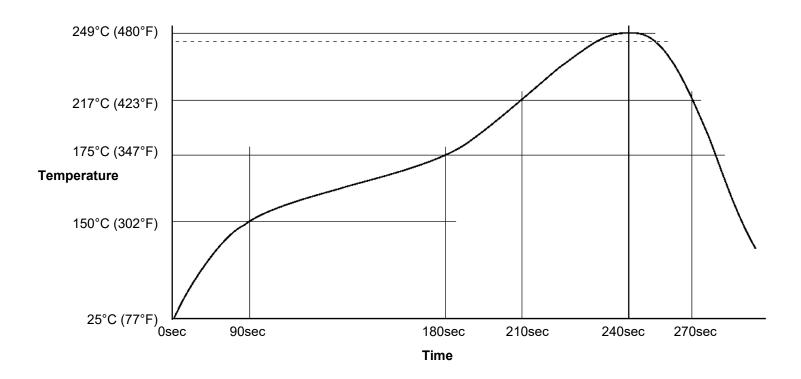
Store at 3-25°C (37-77°F). Do not freeze. Refrigeration is not required, but will extend shelf life. Allow 4 hours for solder paste to reach an operating temperature of 20-25°C (68-77°F) before use.

#### **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 Sn96.5/Ag3.0/Cu0.5 solder assembly, designed as a starting point for process optimization.



#### **Test Results**

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Test J-STD-004 or other	Test Requirement	Result
requirements as stated		
Copper Mirror	IPC-TM-650: 2.3.32	L: No breakthrough
Corrosion	IPC-TM-650: 2.6.15	L: No corrosion
Quantitative Halides	IPC-TM-650: 2.3.28.1	L: <0.05%
Electrochemical Migration	IPC-TM-650: 2.6.14.1	L: <1 decade drop
Surface Insulation Resistance 85°C,	IPC-TM-650: 2.6.3.7	L: ≥100MΩ
85% RH @ 168 Hours		
Tack Value	IPC-TM-650: 2.4.44	37g
Viscosity – Malcom @ 10 RPM/25°C	IPC-TM-650: 2.4.34.4	Print: 155-215
_(x10 <sup>3</sup> mPa/s)		
Visual	IPC-TM-650: 3.4.2.5	Clear and free from precipitation
Conflict Minerals Compliance	Electronic Industry Citizenship	Compliant
	Coalition (EICC)	
REACH Compliance	Articles 33 and 67 of Regulation (EC)	Contains no substance >0.1% w/w that
	No 1907/2006	is listed as a SVHC or restricted for
		use in solder materials

### **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