

Datasheet revision 1.0

**Specifications** 

Micron (µm) Range:

Flux Classification:

Alloy:

Mesh Size:

Flux Type:

Metal Load:

Packaging:

Shelf Life:

Melting Point:

# RMA Solder Paste Sn42/Bi57.6/Ag0.4 Ultra Low Balling T4 (250g jar) ROL0

#### **Product Highlights** Printing speeds up to 100mm/sec Long stencil life Wide process window Clear residue Low voiding

Excellent wetting compatibility on most board finishes Print grade Compatible with enclosed print heads **RoHS 3 and REACH compliant** 

Sn42/Bi57.6/Ag0.4 Synthetic No-Clean 90% Metal by Weight Refrigerated >6 months, Unrefrigerated >2 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 thoroughly for 2-3 minutes before inspection and use.

Chip Quik® solder paste is manufactured using high guality 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

T4

20-38

ROL0

250g jar

138°C (281°F)

**Stencil Life** >8 hours @ 20-50% RH 22-28°C (72-82°F) >4 hours @ 50-70% RH 22-28°C (72-82°F)

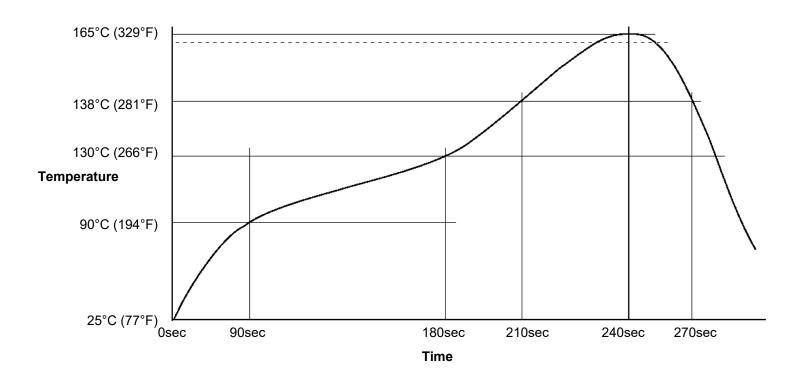
#### Stencil Cleaning Automated stencil cleaning systems for both stencil and misprinted boards. Manual cleaning using isopropyl alcohol (IPA).

# 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.



#### **Test Results**

Test J-STD-004 or other	Test Requirement	Result	
requirements as stated			
Copper Mirror	IPC-TM-650: 2.3.32	M: <50% breakthrough	
Corrosion	IPC-TM-650: 2.6.15	M: minor corrosion (uncleaned)	
Quantitative Halides	IPC-TM-650: 2.3.28.1	M: ≥0.05 and <0.5%	
Electrochemical Migration	IPC-TM-650: 2.6.14.1	M: <1 decade drop (cleaned)	
Surface Insulation Resistance 85°C, 85% RH @ 168 Hours	IPC-TM-650: 2.6.3.7	M: ≥100MΩ (cleaned)	
Tack Value	IPC-TM-650: 2.4.44	35-40g	
Viscosity – Malcom @ 10 RPM/25°C (x10 <sup>3</sup> mPa/s)	IPC-TM-650: 2.4.34.4	Print: 165-225, Dispense: 85-125	
Visual	IPC-TM-650: 3.4.2.5	Clear and free from precipitation	
Conflict Minerals Compliance	Electronic Industry Citizenship Coalition (EICC)	Compliant	
REACH Compliance	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	

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

# CHIPQUIK® RMA Solder Paste Available Products

Alloy	Particle Size	Melting Point	Flux Classification	Percent Metal	Packaging	Part Number
Sn63/Pb37	T4 (20- 38µm)	183°C (361°F)	ROL0	87.00%	10cc/35g syringe	RMA591AX10
				90.00%	250g jar	RMA591AX250
Sn62/Pb36/Ag2	T4 (20-	179°C (354°F)	ROL0	87.00%	10cc/35g syringe	RMA591AXS10
	38µm)			90.00%	250g jar	RMA591AXS250
Sn96.5/Ag3.0/Cu0.5	T4 (20- 38μm)	217-220°C (423- 428°F)	ROL0	86.00%	10cc/35g syringe	RMA591L0SNL10
				88.50%	250g jar	RMA591L0SNL250
			ROM1	86.00%	10cc/35g syringe	RMA591SNL10
				88.50%	250g jar	RMA591SNL250
Sn42/Bi57.6/Ag0.4	T4 (20- 38μm)	138°C (281°F)	ROL0	87.00%	10cc/35g syringe	RMA591L0LT10
				90.00%	250g jar	RMA591L0LT250
			ROM1	87.00%	10cc/35g syringe	RMA591LT10
				90.00%	250g jar	RMA591LT250