

Manufactured for Chip Quik® by Amtech

SMT International, LLC P.O. Box 989

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An ISO 900I Certified Company

## **Product Data Sheet**

# NC-3 No-Clean Solder Paste Chip Quik® Pt. # SMDLTLFP

#### **Product Description**

- Exceptional print definition
- Long stencil life
- Designed for low temperature alloys
- Excellent wetting compatibility on most board finishes

#### **Alloys**

AMTECH manufactures a low-oxide, spherical and uniformly sized powder. NC-31 is available in the following alloys: 42Sn/58Bi and 43Sn/43Pb/14Bi.

#### Powder Distribution

Micron Size	Type	Pitch Requirements	
75 - 45	Type-2	24mil & above	
45 - 25	Type-3	16mil to 24 mil	
38 - 25	Type-4	12mil to 16mil	
32 - 20	Type-5	<12mil	
<20	Type-6	<8mil	

#### Available Packaging

The following packaging options are available for stencil printing and dispensing applications: 250g and 500g jars; 250g and 700g cartridges; 750g ProFlow® cassettes; 35g and 100g syringes;

#### Stencil Life

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## Viscosity

Printing applications: 650 to 850Kcps +/-10% Dispensing applications: 350 to 550Kcps +/-10% Tested according to IPC-TM-650

#### Tack Value

Typical tackiness: 48g force

## **Printing**

The print definition of NC-31 is ideal for fine pitch applications. Consult the powder distribution chart to determine your mesh size requirements.

## **Printer Operation**

The following are general guidelines for stencil printer optimization with NC-31. Some adjustments may be necessary based on your process requirements.

#### Stencil Cleaning

Automated stencil cleaning systems for both stencil and misprinted boards. Manual cleaning using 99% isopropyl alcohol (IPA) works well.

#### Storage and Handling Procedures

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# NC-3 Solder Paste

## J-STD-004 (IPC-TM-650) Test Results

Test	Standard	Values	Results
Flux Designator	IPC-TM-650 2.3.35	NA	REL0
Copper Mirror	IPC-TM-650 2.3.32	NA	PASS
Silver Chromate	IPC-TM-650 2.3.33	NA	PASS
SIR Test	IPC-TM-650 2.6.3.3	2.00E+10	PASS

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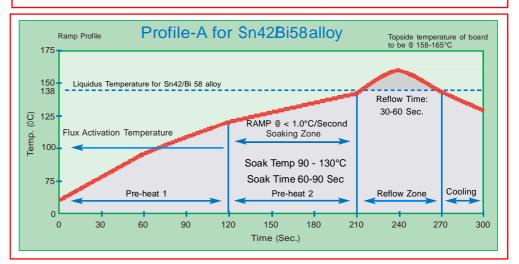
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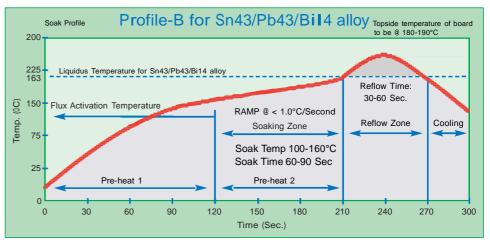
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#### Recommended Profiles:

Profile-B was designed to serve as a starting point for process optimization using NC-31. A cool down rate of (-) 2 - 40C/second is ideal for the formation of a fine grain structure without risking damage to thermally sensitive components.

## Use this Profile. Chip Quik SMDLTLFP, Digikey SMDLTLFP-ND





The information contained herein is based on technical data that we believe to be reliable and is intended for use by persons having technical skill, at their own risk. Users of our products should make their own tests to determine the suitability of each product for their particular process. AMTECH will assume no liability for results obtained or damages incurred through the application of the data presented.

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