

Chip Quik SMD291NL

Manufactured for Chip Quik by AMTECH

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SynTECH-LF-TF, No-Clean Tacky Flux

Product Data Sheet

Product Highlights

- n ROLO flux classification
- n Wide process window
- n Excellent wetting compatibility on most board finishes
- n Clear residue
- n Low voiding
- n REACH compliant

Application

SynTECH-LF-TF is formulated for syringe, stencil printing, and rework applications on all PCB surface finishes.

SynTECH-LF-TF may be used for BGA sphere attachment and reballing. SynTECH-LF-TF is also designed to work on all flip chip bumping and chip scale packaging sites.

Compatible Alloys

Alloy	Temp °C	Temp °F
42Sn/58Bi	138	280
42Sn/57Bi/1Ag	138	280
96.5Sn/3.0Ag/0.5Cu	217-220	423-428
99.0Sn/0.3Ag/0.7Cu	217-221	423-430
96.5Sn/3.5Ag	221	430
99.3Sn/0.7Cu	227	441
95Sn/5Sb	235-240	455-464
95Sn/5Ag	221-245	430-473

Test Results

Test J-STD-004 or other requirements (as stated)	Test Requirement	Result
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: <0.5%
Electrochemical Migration	IPC-TM-650: 2.6.14.1	L: <1 decade drop (no-clean)
Surface Insulation Resistance 85 °C, 85% RH @ 168 Hours	IPC-TM-650: 2.6.3.7	L: 100 M (no-clean)
Viscosity - Malcom @ 10 RPM/25 °C (x10³mPa/s)	IPC-TM-650: 2.4.34.4	53-72
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

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Cleaning

SynTECH-LF-TF is a no-clean tacky flux that can be left on the board for many SMT assemblies. For applications requiring cleaning, SynTECH-LF-TF can be cleaned using commercially available flux residue removers such as Kyzen Aquanox A4241, A4520, A4625 and A4625B (Batch Cleaners). Kyzen brand cleaners are available from Amtech.

Storage and Handling

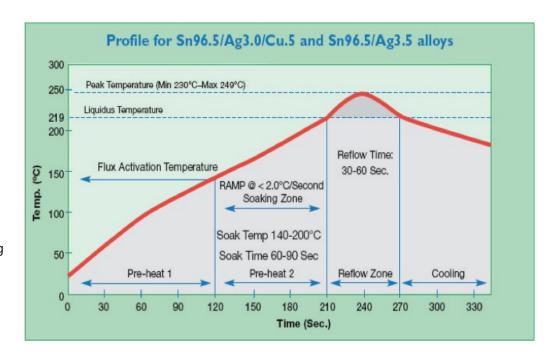
Tacky flux should be stored at room temperature (20-25 °C). Syringes and cartridges should be stored vertically with the dispensing tip down. Properly stored tacky flux has a 12 month shelf life.

Packaging

10 & 30cc syringes75 & 150 gram jars170 & 340 gram cartridges

Recommended Profile

This profile is designed to serve as a starting point for process optimization using 4300/LF-4300-TF. To achieve better results with voiding or to reduce tombstoning, consider using a longer soaking zone for 60-90 seconds, with a rapid pre-heat stage. If there is evidence of solder de-wetting, consider lowering the peak reflow temperature, or reduce the time above liquidus to <60 seconds.



AMTECH Part Numbers

SynTECH-LF-TF, 30cc syringe: Part Number: 16460 SynTECH-LF-TF, 340 gram cartridge: Part Number: 16450 Other packaging available upon request.