

Product Data Sheet for Chip Quik® Pt # SMD4300AX10 w/lead

4300 Water Washable No-Clean Solder Paste

Product Description

- Synthetic activator
- Long stencil life
- Wide process window
- Excellent wetting compatibility on most board finishes
- Low voiding, no beading, anti-tombstoning
- Compatible with enclosed printing heads

Alloys

AMTECH manufactures a low-oxide, spherical and uniformly sized powder. 4300 is available in the following alloys: 63Sn/37Pb, 62Sn/36Pb/2Ag, 60Sn/Pb40, 43Sn/43Pb/14Bi and 42Sn/58Bi.

Powder Distribution

Micron Size	Type	Pitch Requirements
75 - 45	Type-2	24mil & above
45 - 25	Type-3	16mil to 24 mil
38 - 20	Type-4	12mil to 16mil
25 - 15	Type-5	<12mil
15 - 5	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; 2,500g FreshMix® Kits.

Stencil Life

- >8 hrs. @ 30–45% RH & 22–25°C
- ~4 hrs. @ 45–70% RH & 22–25°C

Viscosity

Printing applications: 600 to 900Kcps +/-10%
Dispensing applications: 450Kcps +/-10%
Tested according to IPC-TM-650

Tack Value

Typical tackiness: 34g force

Printing

The print definition of 4300 is ideal for fine pitch applications. The stencil life of this water-soluble product virtually eliminates waste of solder paste. Consult the powder distribution chart to determine your mesh size requirements.

Printer Operation

The following are general guidelines for stencil printer optimization with 4300. Some adjustments may be necessary based on your process requirements.

Print Speed: 25–100mm/sec

Squeegee Pressure: 0.2–0.7kg/inch of blade

Under Stencil Wipe: Once every 10–25 prints or as necessary

Stencil Cleaning

Automated stencil cleaning systems for both stencil and misprinted boards. Manual cleaning using water at 50°C or 99% isopropyl alcohol (IPA). Post-reflow cleaning using water at 50°C with 50 PSI pressure.

Storage and Handling Procedures

Refrigerated storage at 42–47°F will prolong the solder paste shelf life to no less than 6 months. Syringes & cartridges should be stored vertically with the dispensing tip down. Solder paste should be allowed to reach ambient temperature naturally, prior to use (about 6-8 hours). NEVER FREEZE SOLDER PASTE.

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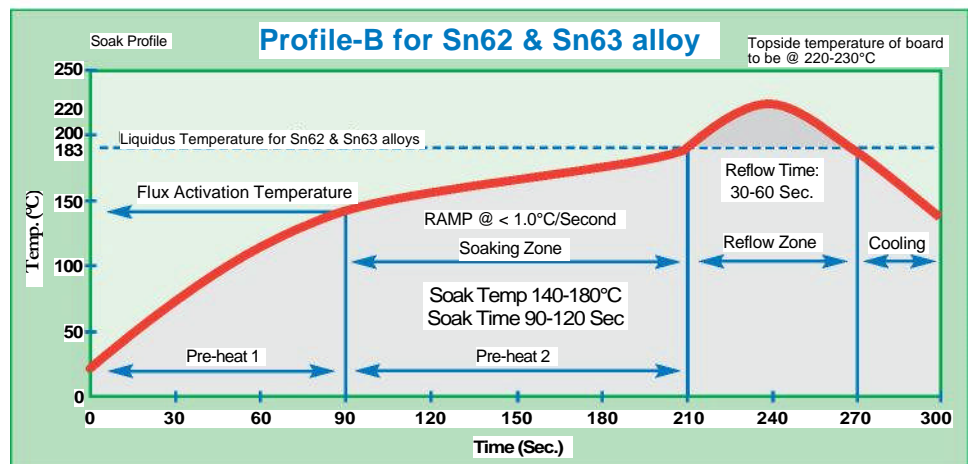
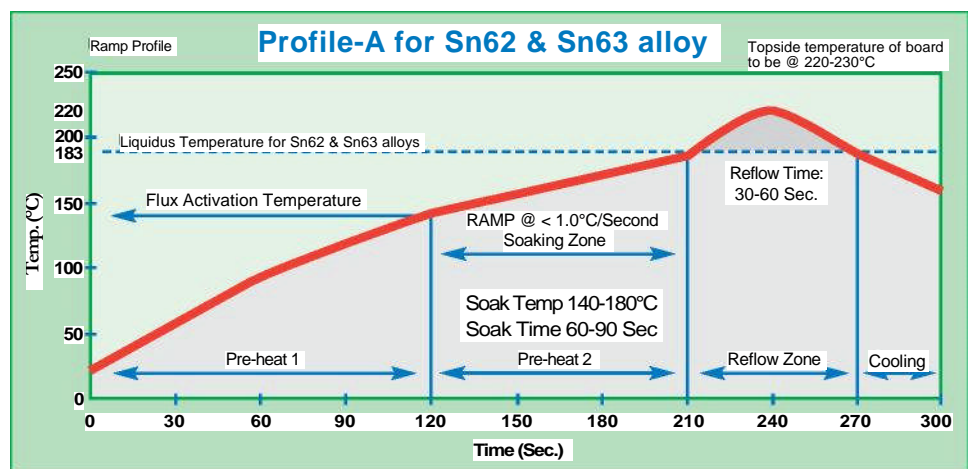
J-STD-004 (IPC-TM-650) Test Results

Test	Standard	Values	Results
Flux Designator	IPC-TM-650 2.3.35	NA	RELO
SIR Test	IPC-TM-650 2.6.3.3	9.36E+10	PASS

Recommended Profiles:

Profile-A was designed to serve as a starting point for process optimization using 4300. A cool down rate of (-) 2-4°C/second is ideal for the formation of a fine grain structure without risking damage to thermally sensitive components.

A profile utilizing a soak of up to two minutes at 155°C may help to minimize voiding in BGA assemblies. This will allow more time for solvent components of the solder paste to outgas prior to reflow.



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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AMTECH
 Advanced SMT Solder Products

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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