

SOLDER PRODUCTS.

TECHNICAL DATA SHEET

PAI-826 No Clean Liquid Flux

PAI-826 No-clean Liquid Flux is designed for both tin-lead and lead-free wave soldering. It contains modified rosin and organic activator to resist higher pre-heat temperature and provide good process ability on high component density PWB. Solder ability and wetting ability are greatly increased while Solder Bridge and residue are greatly reduced. The surface insulation resistance test (SIR) of PAI-826 is very high under unclean condition and follows the spec of IPC-TM-650 2.6.3.3.

Thinner

Used for adjusting flux concentration.

Applying Method

Foam, Spray & Wave methods.

Application Indications

- 1. The flux should be supplied with compressed air free of oil and water when using spray method.
- 2. Keep cap closed to avoid evaporation of flux, moisture absorption, and contamination.
- 3. Replace the flux in tank periodically (less than 40 hours of operation) or the solder ability will decay.
- 4. The recycling flux will accumulate the pollutant and piece gradually, must follow amount of production and time in order to ensure the result of use. Change new flux before flux efficiency is reduced. Changing flux had better wash through and pipeline with the cleaner first and then pour into new flux.
- 5. Follow the recommended flux application quantity. Excess flux applied will cause poor solder ability because flux gathers into droplets. Flux droplets flow into pallet may cause surface contamination and be harmful to electrochemical reliability.

Features & Benefits

- 1. Can be used in Lead-free processes.
- 2. Solder bridge and residue are greatly reduced.
- 3. Solder ability and wetting ability are great.
- 4. To resist higher pre-heat temperature and provide good process ability on high component density PWB.
- 5 Good hole-fills demonstrated by good yield in Lead-Free applications.

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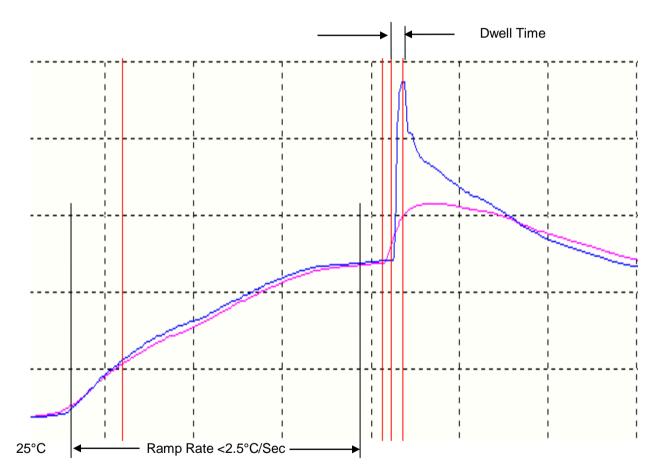


PERSANG ALLOY INDUSTRIES PVT. LTD.



Operating Parameter

Item	Typical Level	
Amount of Flux Applied	Foam: 500~1200 μg/in² of solids/in² Spray: 500~1200 μg/in²of solids/in²	
Topside Preheat Temperature	80°C ~140°C	
Bottom side Preheat Temperature	100°C ~145°C	
Maximum Ramp Rate of Topside Temp.	2.5℃/second maximum	
Conveyor Speed	0.7~1.7m/min. Best (0.9~1.3 m/min)	
Conveyor Angle	$4^{\circ}\Delta$ ~ $8^{\circ}\Delta$ (5.5°Δ most common)	
Dwell Time	2 ~ 6 sec	
Solder Pot Temp.	255°C ~265°C (Sn/Ag3.0~4.0/Cu 0.5~0.9 Solder Bar)	
	265℃~280℃ (Sn/Cu 0.7 Solder Bar)	
	255°C ~260°C (Sn/Pb37 Solder Bar)	



These are general guidelines which have proven to yield excellent results; however, depending upon your equipment, components, and circuit boards, your optimal settings may be different

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Technical Specification

Item	Result	
Appearance	Transparent to Light Yellow Liquid	
Specific Gravity, 25°C	0.803 ± 0.007	
Acid Number, mg KOH/g	27.0 ± 6.0	
Solids Content, %	4.6 ± 0.3	

Physical Properties & Reliability Data

Item	Result	Test Method
Copper Mirror Test	PASS No Complete Removal of Copper	IPC TM 650 2.3.32
Copper Corrosion Test	PASS, No Corrosion	IPC TM 650 2.6.15
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Test Board unclean, S.I.R Test : PASS S.I.R : $1.24 \times 10^{9}\Omega$	IPC TM 650 2.6.3.3 85℃, 85%RH, 168hrs, 50V IPC-B-25, 12.5 mil line/space
Electro migration Test Requirements: No Dendrites or Corrosion	Test Board unclean, Electro migration Test : PASS Electro migration Test:1.03* 10 ⁹ Ω	Electro Migration test for HP. Test spec: EL-EN861-00 50°C, 90%RH, 672hrs, DC 5V IPC- B-25 Pattern B, 12.5 mil line/space

Storage, Shelf Life Indication

Store in cool place and tighten the cap. Do not expose to sunlight or heat source. 12 Months from the Date of manufacturing.

Safety Indication

The flux must not be used near open flames or near non-flameproof electrical equipment. Please refer to the Material Safety Data Sheet as the primary source of health and safety information.

For more details, please visit Our Website at <u>www.persangalloy.com</u> or write to us.

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