ALPHA

TECHNICAL BULLETIN

HK#507-4

ALPHA LONCO ROSIN FLUX 800T NO CLEAN FLUX

DESCRIPTION

LONCO RF800T is medium solids, no-clean flux formulated with a small percentage of rosin and non-halide activators. This unique rosin-activation system promotes excellent solder wetting to protect copper and solder coated surfaces.

Post soldering residue of RF800T is minimal, slightly glossy and can be pin tested without removal.

APPLICATION

RF800T is formulated to be applied with foam, wave, spray and mist fluxers. Flut deposition density and uniformity are critical to sociedful use of n-cellent Rix, applying RF800T to a dy flux conting density of 500 to 1500 micrograms per square inch is recommended. Preheating the circuit assembly will partially dy the flux, enhance oxity errowal and promote optimum wicking as well as superior solder joint formation. Degree of preheat is dependent on many withing savell as superior solder joint formation. Degree of preheat is dependent on many withing using the solder wave with a top-side temperature of 88°C-115°C and a bottom side temperature of 110°C-107°C is pripeia. It is recommedated to start with how preheat first copecially for simple and low thermal mass board. For lead free application, the profile in a separate document would be provided upon request.

CONTROL

The foam applicators should be supplied with compressed air, free of oil and water. Maintain flux fluid level sufficiently above the aerator stone to produce adequate foam height. Adjust air pressure to produce optimum height with foam consisting of uniform bubbles.

In foam, was or entary drum spray fluxing, the flux solids will need to be controlled by thinner addition to replace evoportion loss of the flux solvent. As with any flux with less than 5% solids content, specific gravity is not an effective measurement for assessing and controlling the solids, content, Monietring the solid momber is recommended for maintaining the solids solids of the solid content, the solid momber is the solution of the solid content. Solids SMASS for details on the kit and titration procedure. When operating the foam fluxer commonsty, the acti number that one beckeded very 2 to 4 hours, In time, debris and contaminants will accumulate in recirculating type flux applicators. For consistent soldering performance, dispose of spent flux periodically. After emptying used flux, the reservoir and applicator should be thoroughly cleaned with flux thinner. Refill reservoir with fresh flux and allow a few minutes to stabilize before resuming soldering operation.

Although RF800T is designed to be left on the board, if desired, post soldering residues can be removed with Alpha 2110 saponifier.

PHYSICAL PROPERTIES

Visual Appearance Specific Gravity. 25°C Acid number Flash point Solid % Recommended thinner Clear, amber liquid 0.798 ± 0.005 27 17°C 5% RF800 Additive

RELIABILITY TEST DATA

ACCORDING TO IPC-SF-818

Copper mirror Silver chromate (for halide) Copper corrosion Surface Insulation Resistance (85°C, 85%R.H. 7days, 12.5 mil comb pattern) IPC classification Passed Passed Passed for M type 10⁹ ohms (greater than the minimum

requirement of 108 ohms) M3NC

ACCORDING TO JIS-Z3197

Viscosity Choride content Copper plate corrosion Dyness test Copper mirror test Water solution resistance Insulation resistance - Initial - After 96 homes Voltage applied Moisture resistance Spreading Test 12 cps None Passed Passed Passed 50000 ohms cm

> 10¹²ohms > 10¹²ohms

10¹⁰ohms 89%

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PACKAGING

Available in 1, 5 and 55 gal. container.

SAFETY

Material is flammable. Keep away from all sources of heat, sparks and flame.

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