



SUPERIOR No. 315 LF



Water Washable No-Clean Soldering Flux

- ◆ Excellent surface wetting.
- ◆ Eliminates the need for cleaning soldered boards.
- ◆ May be conformal coated without post cleaning.
- ◆ Can be used with lead free solder.
- ◆ Residue can be left on or removed using water.

DESCRIPTION

Superior No. 315 LF Is specially formulated for Lead-Free soldering, This flux was designed for soldering high quality electronic printed circuit boards (PCBs) such as, through-hole, mixed technology, and surface mount assemblies while eliminating the need for post cleaning operation. If post cleaning is required, the **Superior No. 315 LF** can be cleaned using water. Superior No. 315 LF is formulated for foam or spray applications as supplied.

APPLICATION

WAVE SOLDERING:

Superior No. 315 LF Low-Residue flux may be applied by foam, spray, or wave application. The optimum topside PCB preheat temperature recommendation is 200-240°F/93-115°C. Too low a preheat setting is indicated by post-solder residues on PCBs that look like water stains.

For optimum soldering results, use the following guidelines:

- ① Make certain that the PCB surfaces are free of any oil, grease, or other impurities.
- ② Maintain a consistent foam head by narrowing the flux chimney, or using dual flux stones.
- ③ Add fresh flux to maintain proper flux level in flux tank.
- ④ Replace the flux daily unless a sealed, self-contained system is used; such as in a spray fluxing system.
- ⑤ Regularly clean the fluxing equipment. Never leave foaming stone in flux when pressure is not applied.
- ⑥ Clean fluxing stone in **Superior No. 95T** flux thinner.
- ⑦ When foam fluxing, flux properties can be maintained by monitoring the specific gravity. However, control by checking the acid value is recommended as the most accurate measure. Titration kits are available from Superior Flux.
- ⑧ Add **Superior No. 95T** flux thinner when needed.

Superior manufactures quality fluxes. Our business is solving problems.



PHYSICAL PROPERTIES

| | |
|------------------------------|-----------------------------|
| Specific Gravity @ 25°C | 0.825 ± 0.01 |
| Pounds/Gallon | 6.81 |
| Color | Water white and clear |
| Halide Content | None |
| Acid Value | 36 - 44 |
| Fluoride Test | Passed, No Fluoride Content |
| Silver Chromate Paper Test | Passed, No Chloride Content |
| Percent Solids | 4.0± 0.2 |
| Copper Mirror Corrosion Test | Passed |
| Flash Point (TCC) | 11.7°C/53°F |

SAFETY PRECAUTIONS

Superior No. 315 LF is a flammable product and should be handled with care and the normal precautions taken when working with chemical products.

When soldering with **Superior No. 315 LF**, adequate exhaust ventilation should be provided. Avoid contact with eyes, skin, and mucous membranes. Always wear NIOSH approved safety equipment when working with chemicals. Store in plastic containers away from heat.

Refer to Material Safety Data Sheet (MSDS) for additional safety information.

Store flux in an area with controlled temperature between 18 C/64 F - 25 C/77 F.

The information contained herein is based on data considered to be accurate and is intended for use by persons having technical skills at their own discretion and risk. Since conditions of use are outside of Superior Flux & Mfg. Co.'s control, we cannot assume liability for results obtained or damage incurred due to misuse, nor can we assume customer liability.

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