

ORGANIC FLUX 1031

MANUFACTURE OF BATTERIES WITH THE C.O.S. PROCESS

❶ ➤ PRODUCT DESCRIPTION

STTS 1031 flux is a multi-purpose water-based flux formulated from the synthesis of acids and amines.

This flux is eliminated by sublimation in the range of temperatures where lead and alloys used for battery manufacturing melt. Since no residual salts remain after soldering (casting), problems linked to conductivity (self-discharge) and corrosion is solved when using this technology.

This flux has a weak acidity. As stated it is without combustion residues, the pieces remain in their original state and the flux does not pollute the welding or tinning baths.

❷ ➤ PRODUCT CHARACTERISTICS

Main Compounds

Bromhydrate amine salts, wetting agents, inhibitors.

Physical Characteristics

Appearance	Amber liquid
Density at 20°C	1.25 +/-0.01 g/cm ³
pH	1

Main Characteristics

Organic flux totally eliminated at the welding temperature.

❸ ➤ PRODUCT APPLICATIONS

The organic flux 1031 is intended for the manufacturing of Lead / Calcium and or Lead / Antimony batteries on automatic lines (COS process) and is preferred to the use of 1028 when soldering conditions enable a lower acidity.

This flux can be used over a range of temperatures from 280°C to 450°C. It is totally eliminated when dipping the lugs in the tinning or soldering bath.

❹ ➤ DIRECTIONS FOR USE

The flux is used either undiluted or can be diluted with water. In some cases drying the lugs before 'Cast-On' will improve productivity and reduce porosity.

❺ ➤ USING CARE AND RECOMMENDATIONS

Safety glasses, no particular risk, refer to health and safety datasheets before use.