



# LIQUID FLUX 500-6B

Rosin based flux

## DESCRIPTION

Rosin based flux corresponding to J-STD-004B type ROL0. Stannol 500-6B is a ready-to-use flux for single-, double-wave and selective soldering processes. It can also be used for manual soldering as it leaves very safe residues either by use in a dipping process or in a Stannol Flux-Pen.

Stannol 500-6B possesses very good wetting properties on all available lead-free and lead containing solders and permits handling immediately after soldering because of its special resin composition. The halide-free resin residues have a high surface insulation value. A subsequent cleaning operation can therefore be eliminated. The hard residues provide improved adhesion properties for the application of conformal coatings of either silicone or polyurethane. Even connectors of brass or bronze, which normally require the use of halide-activated fluxes, can be successfully soldered with the Stannol 500-6B flux.

## APPLICATION

In principle, all application methods are feasible, although when foaming is employed some modification of the fluxer may be needed. The preheating should be set in such a way that the temperature on the top side of the printed circuit board reaches 90°-110°C. The solder temperature should be between 245°-260°C.

Evaporation of solvent can change the composition. Evaporation causes an increase of the solid content and therefore the density increases. This can be checked with the Stannol Mini-Titration-Kit.

## PHYSICAL PROPERTIES AND DATA

GENERAL PROPERTIES	500-6B
Colour:	amber coloured liquid
Density at 20°C:	0.801 g/cm <sup>3</sup>
Solid content:	~6%
Acid value:	23 mg KOH/g
Copper mirror test:	passed
Silver chromate paper test:	passed
Halide content:	none
Surface Insulation Resistance:	> 10 <sup>8</sup> Ohm
Electromigration	none
Corrosion:	none
Environmental Conditions:	J-STD-004B
Thinner:	Stannol VD-500

## **SHELF LIFE**

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2 years after date of production (provided proper storage in originally sealed container).

## **HEALTH AND SAFETY**

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Before using please read the material safety data sheet carefully and observe the safety precautions described.

## **NOTICE**

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