



NO-CLEAN FLUX 500-3401

Halide-free activated resin flux

DESCRIPTION

Halide-free activated resin flux conforming to DIN EN 29454-1 Type 2.2.3 (DIN 8511 F-SW 34) with non-corrosive residues as per DIN 8527. Stannol 500-3401 contains a blend of natural resin and organic acids. It has a solid content of only 2.6%. Virtually all residues are rinsed off the printed circuit assembly during the soldering operation. This means that ATE (Automatic Testing Equipment) can be used without the necessity for prior cleaning. The testing probes are therefore also not contaminated by insulating flux residues. The assemblies after soldering with Stannol 500-3401 have a bright and clean appearance, thus facilitating inspection.

The unique composition of Stannol 500-3401 permits it to be successfully used even in double wave soldering applications, as in bottom-side chip attachment. Unlike most conventional low residue No-Clean fluxes, the Stannol 500-3401 formulation ensures that sufficient flux is carried from the first wave to the second. This assists in removing excess solder, providing perfectly formed fillets and evenly coated circuitry.

APPLICATION

Stannol 500-3401 was developed for spray application. It is recommended that for greatest flux efficiency the topside of the printed circuit assembly should be preheated prior to soldering to a temperature of approximately 110°-120°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	LIQUID FLUX 500-3401	
Colour:	colourless	
Specific Gravity 20°C:	0.799 g/cm ³	
Flash Point (closed cup):	13°C	
Auto Ignition Temperature:	425°C	
Solid Content:	2.6%	
Acid Number:	25 mg KOH/g	
Halide Content:	none	
Copper Mirror Corrosion Test:	passed	
Silver Chromate Paper Test:	passed	
SIR:	7.4*10 ¹¹ Ω uncleaned, soldered	1.8*10 ¹¹ Ω fluxed
Corrosion:	none	none
Conditions:	Bellcore TR NWT 000078	
Thinner:	Stannol VD-500	

SHELF LIFE

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

HEALTH AND SAFETY

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

NOTICE

The above values are typical and represent no form of specification. The Data Sheet serves for information purposes. Any verbal or written advise is not binding for the company, whether such information originates from the company offices or from a sales representative. This is also in respect of any protection rights of third parties, and does not release the customer from the responsibility of verifying the products of the company for suitability of use for the intended process or purpose. Should any liability on the part of the company arise, the company will only indemnify for loss or damage to the same extent as for defects in quality.