

LOW-RESIDUE FLUX 900-3351

Halide-free activated flux

DESCRIPTION

Halide-free activated flux conforming to DIN EN 29454-1 Type 2.2.3 (DIN 8511 F-SW23). The flux residues are not corrosive.

Stannol 900-3351 for wave-soldering in electronic assemblies has a solid content of only 2.4%. Most of the flux is rinsed off the printed circuit board during the soldering process. The remaining residues are barely visible. This means that ATE (Automatic Testing Equipment) can be used without an additional cleaning process which is often necessary for other fluxes. The test probes are not contaminated by insulating flux residues.

Stannol 900-3351 is an activated low-residue product, which can be used effectively for bottom side SMD-soldering with a double wave. The special composition of Stannol 900-3351 ensures, that sufficient flux is always transferred from the first to the second wave. Excessive solder is drained off, resulting in perfectly formed solder joints and uniform wetting.

The activity of the flux also makes it suitable for the soldering of HAL, passivated copper and brass surfaces.

APPLICATION

Stannol 900-3351 was developed specially for foam application. Excessive flux should be removed by means of an air knife. Other application methods, such as spraying, can easily be employed, and permit tighter control with regard to the quantity of flux deposited on the assembly. To achieve the best effectiveness of the flux it is recommended to adjust preheating thus the temperature on the top side of the PCB reaches 100 – 115°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	900-3351	
Colour:	colourless liquid	
Density at (20°C):	0.812 g/cm ³	
Flash point (closed cup):	12°C	
Ignition Point:	425°C	
Solid Content:	2.4%	
Acid Value:	16 mg KOH/g	
Copper mirror test:	passed	
Silver chromate paper test:	passed	
Halide content:	none	
Surface insulation resistance:	1.4x10 ¹⁰ Ω uncleaned, soldered	2.8x10 ¹⁰ Ω fluxed
Corrosion:	none	none
Environmental Conditions:	Specification DIN 32513 (40°C/92% R.H., 21 days, 100 volts D.C.)	
Thinner:	Stannol VD-E 900	

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.