

## 1. Area of Application for the ZESTRON® Flux Test

The reliability of electronic assemblies with respect to climate and creeping resistance can be significantly impaired by flux residues due to the adverse effect of the carboxylic acids contained in the activators. For example, No-Clean fluxes form extremely thin films which remain undetectable under microscopes or through ionic contamination measurements.

The ZESTRON® Flux Test indicates carboxylic-based flux activators through a color reaction. This test is an important supplement to the ionic contamination measurement, as critical residues can be detected which are unverifiable in a water- alcohol mixture. Additionally, the ZESTRON® Flux Test shows the local distribution of residues, thus ensuring an improved assessment of component reliability. Residues based on halogenated activators, however, cannot be detected with the ZESTRON® Flux Test.

## 2. Conducting the Test

### 1. Application on the electronic assembly



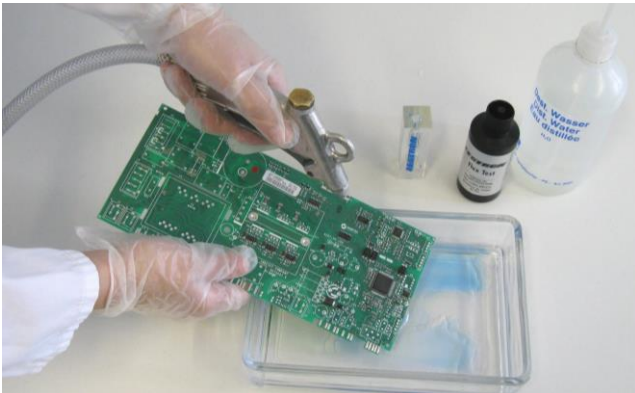
- Wear protective gloves, goggles and laboratory coat (staining can be avoided by protecting hands and clothes).
- Apply the ZESTRON® Flux Test indicator on critical areas or, if necessary, on the entire surface of the electronic assembly or soldered joints.
- Allow the indicator to react for max. 3 minutes. Use the timer.

### 2. Rinsing



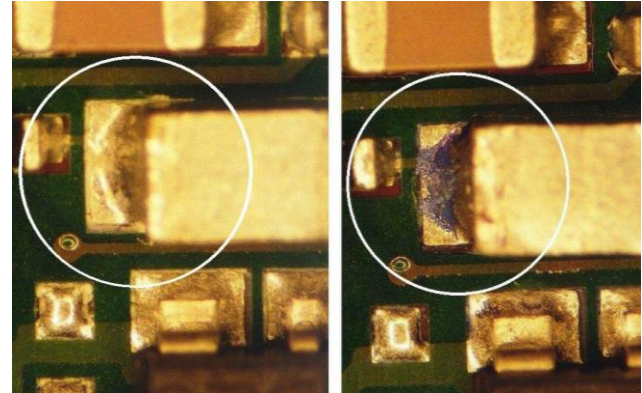
- Rinse thoroughly with distilled or DI-water. It is recommended to conduct the test over a laboratory bench or sink.

### 3. Drying



- Allow the electronic assembly to dry. Drying time can be reduced by using compressed air (use only dry and oil free air).

### 4. Interpretation



- Now, the test results can be interpreted.

## 3. Special Remarks / Disposal

- The color reaction can be easily removed with alcohol/IPA. In persistent cases, acetic acid (30%) can also be used. The color ingredients contained in the ZESTRON® Flux Test will not cause any harm to the electronic assemblies.
- When applied correctly (see "Conducing the Test"), the ZESTRON® Flux Test diluted with DI-water can be disposed through the regular waste water system (see "Section 2).
- Only originally sealed ZESTRON® Flux Test bottles will guarantee reliable test results.
- ZESTRON Flux Test should be stored at a temperature between 5-30°C / 41-86°F. The product has a minimum shelf life of 5 years, when stored at the recommended temperature.

See the application  
video on our website

