



EC-RAT ApS

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EC-RAT - Easy Tools for Electronics Reliability

The term EC-RAT is short for Electronic Corrosion Reliability Assessment Testing. However, since EC can be read as “easy” and a “rat” is also used as a nickname for an informer, the double meaning of the words makes it appropriate for our company:

We produce easy methods and tools for detection of unwanted process residues and materials on electronic devices like Printed Circuit Boards and assemblies, components etc.

We are proud to launch “Residues RAT” - for localized detection of unreacted acidic flux residues from the soldering process of electronics production. The Residues Rat product provides an easy and visual method for detecting unreacted flux residues on a printed circuit board.

The Residues Rat comes as a solid gel which is heated to a liquid on customer’s site. The liquid is applied as a spray and resolidifies into a gel when reaching the surface of a PCB. The Residues Rat gel is designed, so that a color change occurs if unreacted acidic flux residues are present on the surface.

Residues rat is:

- An easy tool for the electronics industry, in order to obtain better quality products.
- A gel that is sprayed onto an electronic print board - if production residues are present, the gel will change color.
- Low cost and easy to use - no expensive equipment or training required.
- Fast direct analysis - visual results are obtained within two minutes.
- Precise -The optimized Residues Rat solution can detect sites with un-reacted acidic residues having a 1.0 $\mu\text{g}/\text{cm}^2$ NaCl equivalent, which is below the 1.56 $\mu\text{g}/\text{cm}^2$ given by the IPC-TM-650 standard.
- Localized - the Residues RAT test shows exactly where production leaves “hot-spots” having high levels of contamination.



Electronic Corrosion - Reliability Assessment Testing
-made easy