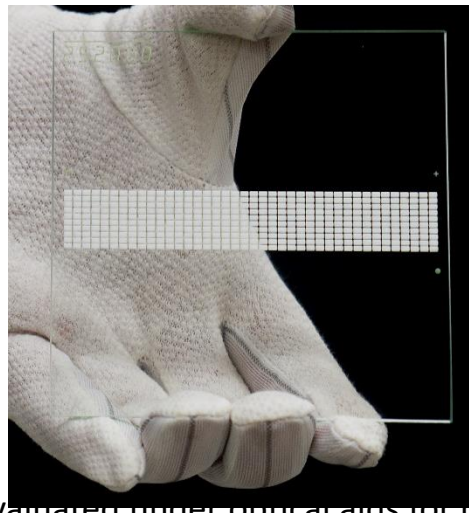
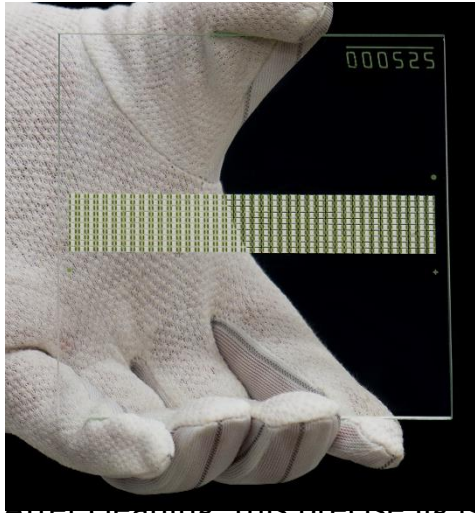


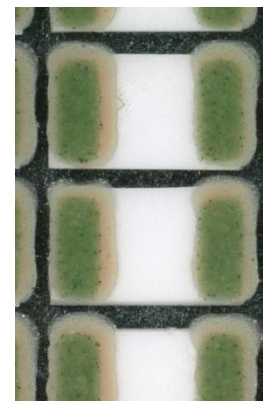
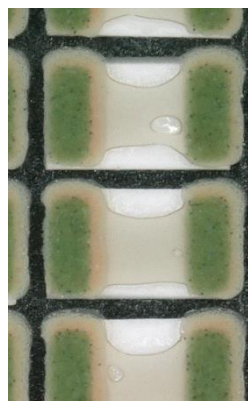
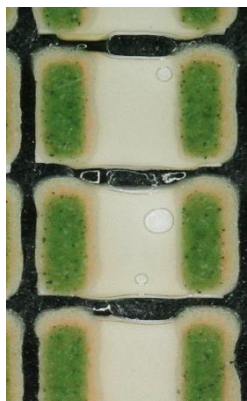
PBT GLASS TEST BOARD

PBT GLASS TEST BOARD addresses the main challenge in cleaning modern PCB assemblies – cleaning under components.

It was developed as a precise jig with models of 0805 components sealed by patented technology on glass. These components have a precise distance from the glass board. Gaps under components can be filled with flux and reflowed. The GLASS TEST BOARD is reusable.



After cleaning, this precise jig is evaluated under optical aids for remaining residues under components.



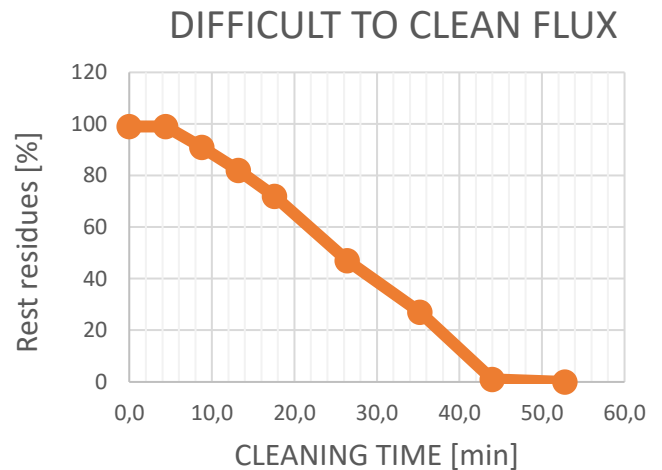
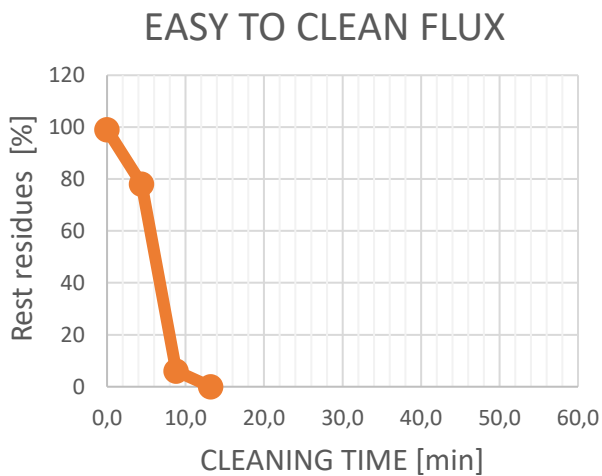
Optical check or measuring of flux residues through GLASS TEST BOARD is very sensitive in all cleaning conditions.

By keeping all cleaning parameters constant, we can study the influence of changes of every single parameter.

- Tool for PCB assembly cleaning process control
- Flux residues dynamic solubility testing and comparison
- Statistical process control of cleaning process according to J-STD-001 Am. 1, par. 8
- Validation of changes instead of ionic contamination measuring
- Cleaning process optimization
- Cleaning machine capability studies
- Cleaning process diagnostic

• Typical applications

Comparing dynamic solubility of flux in cleaner

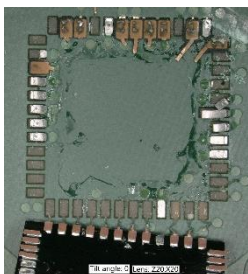


Cleaning machine capability

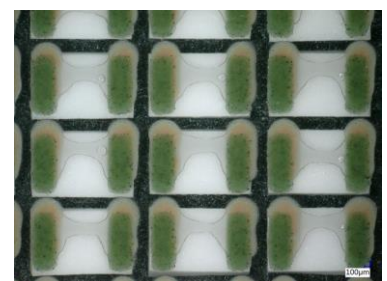
- Run the cleaning process with GLASS TEST BOARD in different chamber positions. Compare results.
- Run 10-30 cleaning cycles with the same cleaning parameter settings, each with GLASS TEST BOARD (to about 50% residues result). Compare results, calculate Cpk.

Process setup for new product cleaning

- Clean simultaneously your product and GLASS TEST BOARD
- Check cleanliness under critical components
- Test the remaining residue on GLASS TEST BOARD after your product is clean. This is a threshold for properly running cleaning process



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Verification of process changes

- Run the cleaning process with GLASS TEST BOARD after each significant change (filter exchange, washing solution exchange, machine maintenance and other according to J-STD-001G AD. 1, clause 8.3.1)
- Evaluate and compare results against your threshold from process setup