

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2001

DateRun: 05/18/2001

Experimenters: Jason Marshall

ClientType: Electronics Manufacturer

ProjectNumber: Project #3

Substrates: Copper, Plastic

PartType: Coupon

Contaminants: Fluxes

Cleaning Methods:

Analytical Methods: Visual, microscopic

Purpose: To evaluate Kyzne Ionoc HC 2 as a replacement for Ensolv for flux removal

Experimental Procedure: The cleaning product, Ionox HC2, was used at full strength. It was heated to 60 C in a VWR Scientific Products Aquasonic 150 HT 40 kHz ultrasonic tank. The solution was degassed for 5 minutes. A basket containing dirty parts was submersed into the heated solution and cleaned for 5 minutes. After cleaning, the basket/parts were rinsed first in tap water and then DI water. The parts were dried using an oven (120 C) and a Mast Appliance Corp, Hot-air gun model HG-301A. Parts were inspected under a microscope for cleanliness. Parts were returned to facility for further inspection.

Results: The five minute cleaning of the parts appeared to be successful. Further analysis will be performed at the client's site.

Summary:

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|----------------------|----------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Copper, Plastic | | | | |
| Contaminants: | Fluxes | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Kyzen Corporation | Ionox HC 2 | 100 | | <input checked="" type="checkbox"/> | |

Conclusion: Ionox HC 2 was successful in removing the flux from the supplied parts.