

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2001  
DateRun: 06/07/2001  
Experimenters: Jason Marshall  
ClientType: Electronics Manufacturer  
ProjectNumber: Project #1  
Substrates: Alloys, Aluminum  
PartType: Coupon  
Contaminants: Fluxes, Dirt  
Cleaning Methods: Ultrasonics  
Analytical Methods: Visual, microscopic

Purpose: To evaluate selected cleaner at a lower concentration.

Experimental Procedure: One cleaner, selected by the client based on the previous trials was diluted to 1% using DI water and placed in a VWR Scientific Products Aquasonic 150 HT ultrasonic tank and degassed for 5 minutes. One part was analyzed prior to cleaning to determine a baseline level. The part was then cleaned in this solution for 5 minutes at room temperature. Following cleaning, the part was rinsed for 2 minutes using a Crest 40 kHz ultrasonic tank model 4Ht 1014-6 with DI water at room temperature and then dried for 30 minutes at 160 F. After the part cools to room temperature, a final microscopy analysis was performed.

Results: After analysis, the part looked clean along the seam. There was no major alteration of the surface. Pictures were taken of the part before and after.

Summary:

<b>Substrates:</b>	Alloys, Aluminum				
<b>Contaminants:</b>	Fluxes, Dirt				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
Tower Products Inc	Tower 270 Cleaner Concentrate	1		<input checked="" type="checkbox"/>	

Conclusion: Cleaning the supplied part with Tower 270 at 1%, 68 F for 5 minutes appears to have been effective.