

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003  
 DateRun: 12/08/2003  
 Experimenters: Dave Hout  
 ClientType: Lab  
 ProjectNumber: Project #1  
 Substrates: Aluminum  
 PartType: Coupon  
 Contaminants: Fluxes  
 Cleaning Methods: Immersion/Soak  
 Analytical Methods: Gravimetric

Purpose: Laboratory evaluations of alternative cleaning products

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning. Two products were heated to 130 F on a hot plate and two others were used at full strength. Twelve preweighed coupons were coated with Flux - Alpha 615 RMA Flux (67-63-0, 8052-41-3, 8050-09-7) and allowed to dry for a half an hour and reweighed. Three coupons were cleaned in each solution for 5 minutes using stir-bar-agitation, rinsed in a tap water bath for 15 seconds at 120 F and dried using air blow off for 30 seconds at 68 F. Coupons were allowed to dry for a half an hour and then reweighed a final time. Efficiencies were calculated.

Results:

Summary:

<b>Substrates:</b>	Aluminum				
<b>Contaminants:</b>	Fluxes				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
Chemkleen International Inc.	CT 1 Multipurpose Cleaner	5	100.19	<input checked="" type="checkbox"/>	
Calgon Corporation	Geo Guard 3015	5	8.30	<input type="checkbox"/>	
EcoLink	Positron	100	90.22	<input checked="" type="checkbox"/>	
Kyzen Corporation	Ionox HC	100	98.75	<input checked="" type="checkbox"/>	

Conclusion: Three out of the four products were effective at an efficiency rate of over 90%