

# 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 - Kester Solder Flux 1544 (64-17-5, 78-92-2) (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	97.90	<input checked="" type="checkbox"/>	
Calgon Corporation	Geo Guard 3015	5	4.41	<input type="checkbox"/>	
EcoLink	Positron	100	4.05	<input type="checkbox"/>	
Kyzen Corporation	Ionox HC	100	101.88	<input checked="" type="checkbox"/>	

Conclusion: Half of the products were effective at an efficiency rate of over 97%