

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003  
 DateRun: 10/27/2003  
 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. Three products were used at full strength at room temperature and five products were heated to 130 F on a hot plate. Twenty-four preweighed coupons were coated with Flux Alpha 615 RMA (67-63-2, 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>
Finger Lakes Chemical	Safer Stuff	100	99.72	<input checked="" type="checkbox"/>	
Transene Company, Inc.	D Greeze 1000	100	45.96	<input type="checkbox"/>	
National Diagnostic	Histo Clear	100	83.05	<input type="checkbox"/>	
Alconox Inc	Liquinox	5	92.86	<input checked="" type="checkbox"/>	
Fine Organic Corporation	FO 2085 M	5	92.86	<input checked="" type="checkbox"/>	
US Polychem Corporation	Polychem A 2000 P	5	102.19	<input checked="" type="checkbox"/>	
Magnaflux	Daraclean 235	5	99.74	<input checked="" type="checkbox"/>	
Today & Beyond	Beyond 2003	5	98.46	<input checked="" type="checkbox"/>	

Conclusion: All products that were used at a concentration of 5% and one at a concentration of 100% were effective at an efficiency rate of over 98%