

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003  
DateRun: 10/25/2003  
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 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			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Finger Lakes Chemical	Safer Stuff	100	84.41	<input type="checkbox"/>	
Transene Company, Inc.	D Greeze 1000	100	92.62	<input checked="" type="checkbox"/>	
National Diagnostic	Histo Clear	100	88.06	<input checked="" type="checkbox"/>	
Alconox Inc	Liquinox	5	61.84	<input type="checkbox"/>	
Fine Organic Corporation	FO 2085 M	5	96.64	<input checked="" type="checkbox"/>	
Magnaflux	Daraclean 235	5	97.86	<input checked="" type="checkbox"/>	
Today & Beyond	Beyond 2003	5	77.24	<input type="checkbox"/>	
US Polychem Corporation	Polychem A 2000 P	5	2.27	<input type="checkbox"/>	

Conclusion: Half of the products were effective at removing the contaminant at an efficiency rate of over 88%.