

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
 DateRun: 10/24/2003
 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:

Substrates:	Aluminum				
Contaminants:	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%.