

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
 DateRun: 12/07/2003
 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:

Substrates:	Aluminum				
Contaminants:	Fluxes				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
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%