

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004
DateRun: 05/11/2004
Experimenters: Dave Hout
ClientType: Lab
ProjectNumber: Project #1
Substrates: Aluminum
PartType: Coupon
Contaminants: Solder
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 and four products were heated to 130 F on a hot plate. Twenty-one preweighed coupons were coated with Emerson & Cuming Eccobond Solder 59c 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:		Solder				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:	
ISP Technologies	Ship Shape Resin Cleaner	100	4.68	<input type="checkbox"/>		
Invista S.a.r.l	Flexisolv DBE 3 ester	100	7.99	<input type="checkbox"/>		
EcoLink	VG 151	100	1.61	<input type="checkbox"/>		
US Polychem Corporation	Polychem A 2000 P	5	2.06	<input type="checkbox"/>		
US Polychem Corporation	Polychem Ultra CR	5	13.10	<input type="checkbox"/>		

Conclusion: All products were ineffective at removing the contaminant.