

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004
 DateRun: 03/03/2004
 Experimenters: Dave Hout
 ClientType: Lab
 ProjectNumber: Project #1
 Substrates: Aluminum
 PartType: Coupon
 Contaminants: Coatings
 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 one product was heated to 130 F on a hot plate. Twelve preweighed coupons were coated with Ferrocote 5815 LVO 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:		Coatings			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Calgon Corporation	Geo Guard 3015	5	87.63	<input checked="" type="checkbox"/>	
ISP Technologies	Ship Shape Resin Cleaner	100	50.43	<input type="checkbox"/>	
Dow Chemical Company	XUS 40571 Development Solvent	100	93.90	<input checked="" type="checkbox"/>	
Dow Chemical Company	XUS 40579 Development Solvent	100	94.34	<input checked="" type="checkbox"/>	

Conclusion: Three of the four products were effective at removing the contaminants with an efficiency rate of >87%