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	☑	
ISP Technologies	Ship Shape Resin Cleaner	100	50.43	☐	
Dow Chemical Company	XUS 40571 Development Solvent	100	93.90	☑	
Dow Chemical Company	XUS 40579 Development Solvent	100	94.34	☑	

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