CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2004
DateRun:	02/29/2004
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. Two products were used at full strength and two others were heated to 130 F on a hot plate. Twelve preweighed coupons were coated with PPG Industries Hi Gord 1035 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:**
Chemtronics Inc	Super Bio Wash	100	99.57	☑	
Man Gill Chemical Company	Gillite 1156	100	104.02	☐	
Hubbard Hall Inc	Ram Charger	5	103.75	☐	
Chemkleen International Inc.	CT 1 Multipurpose Cleaner	5	98.18	☑	

Conclusion: Two products were effective at removing the contaminants at an efficient rate of over 98%. The other two may have started to attack the aluminum coupons as the overall efficiency was in excess of 103%.