

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004
 DateRun: 03/01/2004
 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	<input checked="" type="checkbox"/>	
Man Gill Chemical Company		Gillite 1156	100	104.02	<input type="checkbox"/>	
Hubbard Hall Inc		Ram Charger	5	103.75	<input type="checkbox"/>	
Chemkleen International Inc.		CT 1 Multipurpose Cleaner	5	98.18	<input checked="" type="checkbox"/>	

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%.