

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 01/28/2002

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Adhesive

Cleaning Methods: Ultrasonics

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.
 Degasing: Degasing the solution by keeping solutions in ultrasonic crest for 5 min at 120 F.
 Cleaning: Ultrasonic for 2 min. at 120 F.
 Rinsing: 1/2 min. manual with water at 120 F.
 Drying: 1 min with heat gun @ 500F
 Contaminant: Aroset PS 8078

Results: Significant increase in weight of each of the three coupons, due to absorption or deposition possibly

Summary:

Substrates:		Stainless Steel			
Contaminants:		Adhesive			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
AW Chesterton	278 Super Solv	100	-1673.26	<input type="checkbox"/>	
Calgon Corporation	Geo Guard 5210	100	-18.74	<input type="checkbox"/>	
Fine Organic Corporation	FO 2085 M	50	0.97	<input type="checkbox"/>	
Calgon Corporation	Geo Guard 4017	5	-0.45	<input type="checkbox"/>	
Oakite Products	Fisan Versaclean	5	-0.64	<input type="checkbox"/>	
Today & Beyond	Beyond 2002	5	-7.13	<input type="checkbox"/>	
Today & Beyond	Beyond 2006	5	0.33	<input type="checkbox"/>	

Conclusion: No cleaner was found effective and 5 of the 7 sets of coupons showed an increase in weight after cleaning. This could be due to absorption of cleaner solution or water into or onto the adhesive or a chemical reaction between the cleaner solution and adhesive.