

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 02/24/2002

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Adhesive

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.
Cleaning: 5 min Immersion cleaning with stir-bar agitation @ 120 F
Rinsing: 1/2 min, manual, in 102 F water (tap)
Drying: 1 min with heat gun @ 500F
Contaminant: Aroset PS 8078, Ashlan Chemical (Lot# 071901). Very thick adhesive
CAS#'s 141-78-6 Et

Results: 278 Super Solv: Contaminant either adsorbed water or the cleaner reacted with the adhesive and deposited on the coupon.

Dirtex: Like 2878 Supersolve, the coupons in this cleaner picked up significant weight. The cleaner could have reacted with the contaminant, or it could have facilitated the adoption of water into the contaminant.

FO 2085 M: A large increase in weight was observed in all three coupons in the trial for this cleaner. Explanations could be absorption of cleaner or water into or onto the adhesive or chemical reaction between the cleaner and adhesive.

Summary:

Substrates:	Stainless Steel				
Contaminants:	Adhesive				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
AW Chesterton	278 Super Solv	100	-187.00	<input type="checkbox"/>	
Oakite Products	Fisan Versaclean	5	9.55	<input type="checkbox"/>	
Today & Beyond	Beyond 2002	5	2.54	<input type="checkbox"/>	
Today & Beyond	Beyond 2006	5	11.71	<input type="checkbox"/>	
Savogran Company	Dirtex Prepaint Cleaner	100	-105.58	<input type="checkbox"/>	
Calgon Corporation	Geo Guard 4017	5	8.43	<input type="checkbox"/>	
Fine Organic Corporation	FO 2085 M	5	-105.58	<input type="checkbox"/>	

Conclusion: All of the cleaners performed very poorly, none were effective. In the case of the Supersolve 2878 and the Geoguard 5210 the weight of the coupons increased significantly, one possible explanation could be the actually trapped some of the cleaner or waste.