

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