CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2009

DateRun: 01/30/2009

Experimenters: Johanna Oviedo

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Resins/Rosins

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: To remove resing from stainless steel using immersion cleaning

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning.

Products were selected based on the compatibility of substrate and for removal of the contaminant. Ten percent concentrations were used and heated the samples at 130F. The coupons were immersed in a product for 5 minutes, rinsed in tap water at 120 F and dried using compressed air at room temperature. Coupons were coated with the resin contaminant using a handheld swab and allowed to dry for 120 minutes at room temperature. The contaminated coupons were weighed again to determine the amount of soil added. After cleaning process, the final weights were recorded, efficiencies were calculated and recorded.

Results:

Cleaner	Initial wt	Final wt	% Removed
Sky Cleaner			
	0.6177	0.4749	23.12
	0.4480	0.4382	2.19
	0.5442	0.4549	16.41
Green Works All Purpose			
	0.2768	0.1345	51.41
	0.2151	0.2328	-8.23
	0.3010	0.1964	34.75
Heavy Duty Cleaner			
	0.1875	0.1840	1.87
	0.3481	0.3399	2.36
	0.2186	0.2030	7.14
Clorox Kitchen Cleaner			
	0.1919	0.2003	-4.38
	0.2589	0.2810	-8.54
	1.1522	1.0397	9.76

Summary:

Substrates:	Stainless Steel
Contaminants:	Resins/Rosins

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Sky Products Company Inc	Cleaner #10	10	-1.05	☐	
Clorox Company	Green Works Multi-Surface Cleaner	10	13.96	☐	
Scout Systems	Scout Heavy Duty	10	25.98	☐	
Clorox Company	Clorox Kitchen Cleaner	10	3.79	☐	

Conclusion: No product was effective at removing the resin using immersion cleaning.