CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008

DateRun: 12/22/2008

Experimenters: Jason Marshall

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Ceramics, Fiberglass, Chrome

PartType: Coupon

Contaminants: Films, Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: To reevaluate supplied product as compared to a conventional cleaning product of bathroom cleaning following GS 37 standard.

Experimental Procedure: The supplied cleaning product was used at the requested concentration (5%) for bathroom cleaning. Preweighed chrome coupons were coated with SSL Soil 1 (Bathroom soap scum: All-in-one shampoo and conditioner 28.6%, Dry skin lotion 21.4%, Liquid hand soap 21.4%, Liquid body wash 14.3%, Deodorant bar soap 7.2% and water 7.1%.) using a handheld swab and allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added.

Three coupons were placed into a Gardner Straight Line Washability unit. A Kimberly Clark Reinforced paper towel was attached to the cleaning sled and soaked with 5-7 sprays of cleaning solutions. Each coupon was sprayed 7-10 times with the same cleaning solution. The solution was allowed to penetrate for 30 seconds followed by cleaning in the SLW unit for 20 cycles (~33 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded. Efficiencies were calculated and recorded.

Results: The follow up test resulted in the Super H2O2 having a higher efficiency than the Formula 409 All Purpose cleaner. The table lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
Super H2O2 - ceramic	0.0309	0.0052	83.17
	0.0168	0.0020	88.10
	0.0456	0.0036	92.11
Super H2O2 - chrome	0.0218	0.0013	94.04
	0.0357	0.0006	98.32
	0.0344	0.0010	97.09
Super H2O2 - fiberglass	0.1280	0.0037	97.11
	0.0375	0.0040	89.33
	0.1036	0.0109	89.48
Comet Bathroom - ceramic	0.4278	0.1204	71.86
	0.0127	0.0034	73.23
	0.0191	0.0041	78.53
Comet Bathroom - chrome	0.0259	0.0027	89.58
	0.0198	0.0015	92.42
	0.0289	0.0032	88.93
Comet Bathroom - fiberglass	0.0109	0.0018	83.49
	0.0280	0.0015	94.64
	0.0159	0.0030	81.13

Summary:

Substrates:	Ceramics, Fiberglass, Chrome				
Contaminants:	Films, Soaps				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**

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Cleanline Products	H2O2 Super Citrus Concentrate	5	92.08	☑	
Prestige Brands Inc	Comet Bathroom Cleaner	100	83.76	☐	

Conclusion: The supplied product did have an overall average efficiency greater than 85% and outperformed the conventional cleaner, thus meeting the requirements for effective cleaning for the SSL and GS 37 methods.