

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2012

DateRun: 11/13/2012

Experimenters: Anni Geng

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Ceramics, Fiberglass, Chrome

PartType: Coupon

Contaminants: Films, Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: To evaluate the supplied products for bathroom cleaning using manual cleaning

Experimental Procedure: The supplied cleaning products were used at the recommended concentration (RTU). Preweighed chrome, porcelain and fiberglass, 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 hand held 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 Wypall X60 reinforced wipe was attached to the cleaning sled and soaked with 2-3 sprays of cleaning solutions. Each coupon was sprayed 1-2 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 and efficiencies were calculated and recorded.

Results: ChemistriesEvaluated: Common Good & Co Bathroom Cleaner; Clorox Bathroom Cleaner;

The supplied product removed over 85% of the bathroom soap scum soil from the surfaces using manual cleaning. The conventional product removed 92%. The table lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
Common Good Bathroom - porcelain			
	0.0269	0.0064	76.21
	0.0262	0.0074	71.76
	0.0341	0.0016	95.31
Common Good Bathroom - chrome			
	0.0396	0.0013	96.72
	0.0479	0.0020	95.82
	0.0530	0.0017	96.79
Common Good Bathroom - fiberglass			
	0.0221	0.0021	90.50
	0.0434	0.0033	92.40
	0.0563	0.0038	93.25
7th Generation Bathroom - porcelain			
	0.0360	0.0005	98.61
	0.0403	0.0050	87.59
	0.0402	0.0054	86.57
7th Generation Bathroom - chrome			
	0.0622	0.0002	99.68
	0.0412	0.0015	96.36

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	0.0632	0.0015	97.63
7th Generation Bathroom - fiberglass			
	0.0406	0.0054	86.70
	0.0396	0.0048	87.88
	0.0396	0.0051	87.12
Clorox Bathroom - porcelain			
	0.0323	0.0033	89.78
	0.0409	0.0034	91.69
	0.0470	0.0047	90.00
Clorox Bathroom - chrome			
	0.0528	0.0029	94.51
	0.0453	0.0030	93.38
	0.0306	0.0024	92.16
Clorox Bathroom - fiberglass			
	0.0514	0.0034	93.39
	0.0538	0.0034	93.68
	0.0707	0.0042	94.06

Summary:

Substrates:	Ceramics, Fiberglass, Chrome				
Contaminants:	Films, Soaps				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Seventh Generation	Disinfecting Bathroom Cleaner	100	92.63	<input checked="" type="checkbox"/>	
Common Good & Co	Bathroom Cleaner	100	89.85	<input checked="" type="checkbox"/>	
Clorox Company	Clorox Bathroom Cleaner	100	92.32	<input checked="" type="checkbox"/>	

Conclusion:

The supplied product had an overall average efficiency over 85% and performed nearly as well as the conventional cleaning product and the on-the-market green cleaning product.