CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 07/25/2021

Experimenters: Ross Goding, Edward Judge

ClientType: Lab

ProjectNumber: Project #4

Substrates: Ceramics, Plastic, Chrome

PartType: Coupon

Contaminants: Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test the effectiveness of Soft Scrub All Purpose in the removal of Bathroom Soil from various substrates.

Experimental Procedure: A Soft Scrub All Purpose solution was created by mixing 1 part Soft Scrub with 2 parts water. Then, 3 coupons of each substrate (ceramic, plastic, chrome) were collected and initial weights were taken. Bathroom Soil was applied to each coupon and allowed to air dry for 24 hours. After the 24 hour dry time, the weights of the newly contaminated coupons were measured. All coupons were placed into a Gardner-scrub Abrasion Tester machine. Wypall cleaning cloths were attached to each of the 3 cleaning blocks used for the test. Each Wypall cloth and all coupons received 2 sprays of the Soft Scrub solution and the Gardner-scrub Abrasion Tester was run for 20 repetitions, simulating 20 manual wipes. Once cleaning concluded, the cleaned coupons were allowed to air dry for 24 hours. After 24 hours, the weights of the cleaned coupons were measured.

Results:

Cleaner	Substrate	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG	% Overall
Soft Scrub All Purpose	Ceramic	0.1606	0.0888	44.71	48.17	55.71
		0.2642	0.0949	64.08		
		0.3130	0.1222	60.96		
	Plastic	0.3420	0.2636	22.92	65.64	
		0.1399	0.0124	91.14		
		0.7748	0.1329	82.85		
	Chrome	0.1664	0.1289	22.54	53.34	
		0.2799	0.0545	80.53		
		0.0683	0.0294	56.95		

Summary:

Substrates:	Ceramics, Plastic, Chrome
Contaminants:	Soaps

Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Henkel Corporation	Soft Scrub Total All Purpose Cleaner	1/3	55.71	☐	Soft Scrub All Purpose was not effective in the removal of Bathroom Soil from various substrates.

Conclusion: Soft Scrub All Purpose showed little success in the removal of Bathroom Soil from ceramic, plastic, and chrome substrates.