CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2021
DateRun:	05/26/2021
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 Windex Multi-Surface cleaner in the removal of Bathroom Soil from various substrates
Experimental Procedure:	Windex Multi-Surface cleaning solution was gathered to begin testing. Then, 3 coupons of each substrate (ceramic, chrome, plastic) 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 Windex Multi-Surface 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
Windex Multi-Surface	Ceramic	0.0907	0.0065	92.83	89.63	82.87
		0.0829	0.0046	94.45		
		0.0972	0.0227	76.65		
	Chrome	0.1217	0.0066	94.58	82.51	
		0.1130	0.0099	91.24		
		0.1079	0.0413	61.72		
	Plastic	0.0695	0.0032	95.40	76.46	
		0.1303	0.0517	60.32		
		0.1313	0.0346	73.65		

Summary:

Substrates:	Ceramics, Plastic, Chrome
Contaminants:	Soaps

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
SC Johnson & Son Inc	Windex Glass & More Cleaner (Spray)	100%	82.87	☑	Windex Multi-Surface Cleaner was effective in the removal of Bathroom Soil from various substrates.

Conclusion: Windex Multi-Surface cleaning solution was analyzed to determine its effectiveness in removing bathroom soil from ceramic, chrome, and plastic substrates. The test results show that Windex Multi-Surface cleaner was 89.63% effective in removing bathroom soil from ceramic substrates, 82.51% effective in the removal of bathroom soil from chrome substrates, and 76.46% effective in removing bathroom soil from plastic substrates. Overall, Windex Multi-Surface cleaner was 82.87% effective in removing bathroom soil from all substrates that were tested.