

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2020

DateRun: 09/08/2020

Experimenters: Zoe Lawson, Nicole Kebler

ClientType: Cleaning Company

ProjectNumber: Project #1

Substrates: Porcelain

PartType: Coupon

Contaminants: Greases, Oil, Food

Cleaning Methods:

Analytical Methods: Gravimetric

Purpose: To evaluate solid dish soap and compare to major brands and safer alternatives

Experimental Procedure: Weigh plates for initial weights.
Soil plates with 2.25g of soil +/-0.2g
Weigh dirty weights
Put soap in a container
Use a brush to gather soap for 5 seconds
Wash plates in a circular motion for 10 seconds
1-second rinse
air dry (hour+)
Weight final weights

Results:

Cleaners	Init. Soil Wt.	Final Soil Wt.	%Soil Removed	Average % Soil Removed
Argent Goods	2.41	0.17	92.95	96.09
	2.35	0.08	96.60	
	2.76	0.11	96.01	
	2.59	0.05	98.07	
	2.91	0.03	98.97	
	2.75	0.04	98.55	
	2.65	0.13	95.09	
	2.43	0.06	97.53	
	2.59	0.26	89.96	
	2.31	0.10	95.67	
	2.52	0.06	97.62	
Dawn	2.40	0.19	92.08	95.94
	2.51	0.11	95.62	
	2.38	0.06	97.48	
	2.52	0.13	94.84	
	2.51	-0.01	100.40	
	2.70	0.04	98.52	
	2.58	0.08	96.90	
	2.86	0.12	95.80	
	2.41	0.08	96.68	
	2.51	0.09	96.41	
	2.35	0.22	90.64	
Joy	2.22	0.08	96.40	96.02
	2.09	0.03	98.56	
	2.28	0.05	97.81	
	2.03	0.15	92.61	
	2.19	0.01	99.54	
	2.36	0.07	97.03	
	2.21	0.13	94.12	

CLEANING LABORATORY EVALUATION SUMMARY

	1.37	0.04	97.08	
	2.12	0.14	93.40	
	2.06	0.10	95.15	
	2.58	0.14	94.57	
Mrs. Meyers	2.03	0.08	96.06	95.22
	2.23	0.11	95.07	
	1.74	0.09	94.83	
	2.32	0.06	97.41	
	2.19	0.09	95.89	
	1.73	0.04	97.69	
	2.00	0.15	92.50	
	2.24	0.03	98.66	
	2.25	0.18	92.00	
	2.37	0.18	92.41	
	2.38	0.12	94.96	

Summary:

Conclusion: All cleaners were effective. Ardent Goods cleaned just as effective as other cleaners, if not slightly better.