

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2020
 DateRun: 09/09/2020
 Experimenters: Nicole Kebler
 ClientType: Cleaning Company
 ProjectNumber: Project #1
 Substrates: Porcelain
 PartType: Coupon
 Contaminants: Food
 Cleaning Methods:
 Analytical Methods: Gravimetric

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

Experimental Procedure: Initial weights were first taken before soiling the 44 plates. Plates were then soiled with 2.25 g of soil (+/-0.2g). Dirty weights are taken. Setup of the dish soap container consisted of putting soap into the container, then using a brush to gather soap for 5 seconds. Plates were washed in a circular motion for 10 seconds with a 1 second rinse. The plates were air dried for an hour+ before the final weights were taken and recorded.

Results:

Cleaners	Plate #	Initial	Dirty	Clean	Cleaners	Plate #	Initial	Dirty	Clean
A	1	438.98	441.39	439.15	C	1	438.98	441.2	439.06
	2	480.75	483.1	480.83		2	480.75	482.84	480.78
	3	428.11	430.87	428.22		3	428.11	430.39	428.16
	4	459.92	462.51	459.97		4	459.92	461.95	460.07
	5	433.87	436.78	433.9		5	433.87	436.06	433.88
	6	466.05	468.8	466.09		6	466.05	468.41	466.12
	7	417.47	420.12	417.6		7	417.47	419.68	417.6
	8	465.12	467.55	465.18		8	465.12	466.49	465.16
	9	401.54	404.13	401.8		9	401.54	403.66	401.68
	10	397.48	399.79	397.58		10	397.48	399.54	397.58
	11	453.77	456.29	453.83		11	453.77	456.35	453.91
B	12	429.9	432.3	430.09	D	12	429.9	431.93	429.98
	13	468.17	470.68	468.28		13	468.17	470.4	468.28
	14	436.58	438.96	436.64		14	436.58	438.32	436.67
	15	464.19	466.71	464.32		15	464.19	466.51	464.25
	16	468.93	471.44	468.92		16	468.93	471.12	469.02
	17	425.55	428.25	425.59		17	425.55	427.28	425.59
	18	421.92	424.5	422		18	421.92	423.92	422.07
	19	410.67	413.53	410.79		19	410.67	412.91	410.7
	20	446.79	449.2	446.87		20	446.79	449.04	446.97
	21	449.85	452.36	449.94		21	449.85	452.22	450.03
	22	469.85	471.73	469.6		22	469.38	471.76	469.5

Summary:

Conclusion: Ardent goods seemed to remove the same amount soil off of the coupons as compared to Dawn, Joy, and Mrs. Meyers.