

SCL #:	2014					
DateRun:	07/27/2014					
Experimenters:	Loc Nguyen					
ClientType:	Cleaner Manufact	urer				
ProjectNumber:	Project #3					
Substrates:	Ceramics					
PartType:	Coupon					
Contaminants:	Food					
Cleaning Methods:	Manual Wipe					
Analytical Methods:	Visual					
Purpose:	To measure the fo artificially soiled p		ility of	light-du	ty hand	dishwashing detergent products in the presence of
Experimental Procedure:	conditions until ar plates washed is o constituted, is not time for correlatio soils with consum sound condition 8 (conventional) wit conventional bran	end po suitable n of the ers' rank to 9 in. h bottor d); a res s throug	int of n d to th for ra foam s king of in dian m diam servoir Jh a 3/8	ear disa e numbe nking of tability perform neter, w eter = 1 of 4-L ca	appearan er of pla f hand d of these hance. M ith 6 1/4 L1 in., to apacity,	tions of hand dishwashing detergents under standardized nee of the foam is reached, after which the number of tes washed using a standard product. The guide, as now ishwashing products, since no basis is available at this e products using any particular food soil or combination of aterials used included, plain white glazed dinner plates in to 6 1/2 in.) indented bottom; plastic dishpan op diameter = 14 1/2 in., depth = 5 1/2 in; sponge (any that can be readily loaded with test water and that can neter) drainage tip with an open-shut style to permit full
	shortening and th spatula and warm prevent soil from plates were coate gloved finger. Soil each pile was inve soil on the finger i washed the same	e olive o ing to 12 melting d with 2 ed plate erted to s remov day as s	oil were 20°F. T off plat grams s were preven red by soiling.	warme he temp es, the of soil u then sta t drying wiping o	d to 100 perature wash te using a s acked in out of s on the sid	bil B: Flour - 50 %; Shortening - 48 %; Olive oil - 2 %. The "F. Then the flour was slowly added while mixing with a was held at 120+/-3°F) while soiling dishes. In order to mperature was not allowed to exceed 117°F. Prewashed spatula and then spread over the surface of the plate using convenient sized piles (20 to 25 plates). The top plate of soil. After soiling the last plate of each stack, the residual des of the stacked, soiled plates. Soiled plates were was placed in the reservoir. The standard temperature is at
	40 degrees Celsiu The first dish was washed at a time, submerged in an a	s. The sp washed both fro angular	ponge beginr ont and positio	was plac ning at 3 back, u n with th	ced in th 30 secon Ising a ro ne botto	ie wash water and two squirts of the product were applied. Ids after the soap addition was completed. One dish was otating motion with the sponge while keeping the dish half m of the dishpan. A soiled dish was washed every 30 s and oserved to have no white soap foam left after a squeeze.
	Palmolive Original cleaner, Brand Bu dishwashing clear	dishwas zz Moist ier, Bran	shing c urizing nd Buzz	leaner, Shea & Oxy dis	Palmoliv Aloe dis sh washi	ing cleaner, Dawn Gentle Clean dish washing cleaner, e Oxy washing cleaner, Ajax Triple Action dishwashing sh washing cleaner, Brand Buzz Basic Citrus Sage ing cleaner, Brand Buzz Basic Pink Grapefruit dishwashing ish washing cleaner
Results:	Product	Start Temp	End Temp	# of Plates	Tester	
	Dawn Platinum	40.1	38.7	2	1	
	Dawn Platinum	40.8	39	1	1	
	Dawn Platinum	41	38.8	2	1	
	Dawn Platinum	41.2	38	3	2	
	Dawn Platinum	40	37.8	2	2	
	Dawn Platinum	40.1	38.2	3	2	
	Average	40.5	38.4	2.2	Testar	
	Product	Start Temp	End Temp	# of Plates	Tester	
	Dawn Gentle Clean 39.9	38		2	1	
	Dawn Gentle Clean 40.5	37		3	1	
		38.2		2	1	



Dawn Gentle Clean 40.3				
Dawn Gentle Clean 39.7	37		2	2
Dawn Gentle Clean 40.3	37.5		3	2
Dawn Gentle Clean 39.9	37.2		2	2
Average	40.1		37.5	2.33
Product	Start Temp	End Temp	# of Plates	Tester
Palmolive Original 40.2	37.7		2	1
Palmolive Original 40.6	38.6		2	1
Palmolive Original 40.1	38		3	1
Palmolive Original 40.9	38.8		2	2
Palmolive Original 40.8	38		3	2
Palmolive Original 40.3	38.2		2	2
Average	40.5		38.2	2.33
Product	Start Temp	End Temp	# of Plates	Tester
Palmolive Oxy	40.5	38	1	1
Palmolive Oxy	40.5	38.7	1	1
Palmolive Oxy	40	38	1	1
Palmolive Oxy	40.3	38.2	1	2
Palmolive Oxy	40.5	38.2	1	2
Palmolive Oxy	40.7	38.1	1	2
Average	40.4	38.2	1	
Product	Start Temp	End Temp	# of Plates	Tester
Ajax Triple Act	39.7	37	3	1
Ajax Triple Act	40.5	38	2	1
Ajax Triple Act	40	38	2	1
Ajax Triple Act	40.7	38.1	2	2
Ajax Triple Act	40.7	38.2	2	2
Ajax Triple Act	40.3	38.1	2	2
Average	40.3	37.9	2.2	
, weruge	40.5	57.5	2.2	
Product		Start Temp	End Temp	# of Plates
Brand Buzz Moisturizing Shea & Aloe	41	39	1	1
Brand Buzz Moisturizing Shea & Aloe	40.2	39	1	1
Brand Buzz Moisturizing Shea & Aloe	40.9	38.6	1	1
Brand Buzz Moisturizing Shea & Aloe	40.1	37.9	1	2
Brand Buzz Moisturizing Shea & Aloe	40.2	38	1	2
Brand Buzz Moisturizing Shea & Aloe	40.3	38	1	2



Average		40.5	38.4	1	
Product		Start	End	# of	
Drand Dura Dagia	40	Temp	Temp	Plates	
Brand Buzz Basic Citrus Sage	40	37.9	1	1	
Brand Buzz Basic Citrus Sage	40.6	39	1	1	
Brand Buzz Basic Citrus Sage	41.2	39.2	1	1	
Brand Buzz Basic Citrus Sage	40.3	38	1	2	
Brand Buzz Basic Citrus Sage	40.2	38.1	1	2	
Brand Buzz Basic Citrus Sage	40.1	38.1	1	2	
Average		40.4	38.4	1	
Product	Start Temp	End Temp	# of Plates	Tester	
Brand Buzz Oxy	39	36	1	1	
Brand Buzz Oxy	41.2	39.2	1	1	
Brand Buzz Oxy	40.6	39.3	1	1	
Brand Buzz Oxy	40.0	37.7	1	2	
Brand Buzz Oxy	40.1	37.9	1	2	
Brand Buzz Oxy	40 39.8	37.9	1	2	
,	49.1	37.2	1	۷	
Average	49.1		_	¥ ~ f	
Product		Start Temp	End Temp	# of Plates	
Brand Buzz Basic Pink Grapefruit	40.7	38	1	1	
Brand Buzz Basic Pink Grapefruit	39.9	37.1	1	1	
Brand Buzz Basic Pink Grapefruit	40.6	38.1	1	1	
Brand Buzz Basic Pink Grapefruit	40.1	38.9	1	2	
Brand Buzz Basic Pink Grapefruit	40.1	37.9	1	2	
Brand Buzz Basic Pink Grapefruit	40.1	38.1	1	2	
Average		40.3	38	1	
Product	Start Temp	End Temp	# of Plates	Tester	
Brand Buzz Heavy Duty 409 Lavender	40.2	37.2	1	1	
Brand Buzz Heavy Duty 409 Lavender	39.7	38	1	1	
Brand Buzz Heavy Duty 409 Lavender	39.9	37.1	1	1	
Brand Buzz Heavy Duty 409 Lavender	40.1	38.1	1	2	
Brand Buzz Heavy Duty 409 Lavender	39.8	37.1	1	2	
Brand Buzz Heavy Duty 409 Lavender	39.9	38	1	2	
Average		39.9	37.6	1	
Summary					
Dawn Platinum 2.17					

Dawn Platinum	2.17
	plates



Dawn Gentle Clean	2.33 plates
Palmolive Original	2.33 plates
Palmolive Oxy	1.00 plates
Ajax Triple Action	2.17 plates
Brand Buzz Moisturizing Shea & Aloe	1.00 plates
Brand Buzz Basic Citrus Sage	1.00 plates
Brand Buzz Oxy	1.00 plates
Brand Buzz Basic Pink Grapefruit	1.00 plates
Brand Buzz Heavy Duty 409 Lavender	1.00 plates

Summary:

Substrates:	Ceramics					
Contaminants:	Food					
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:	
Fisher Scientific	Absolute Ethanol	0	0.00			
Procter & Gamble	Dawn Platinum	0.1	0.00		2.17 plates	
Procter & Gamble	Dawn Gentle Clean	0.1	0.00	1	2.33 plates	
Colgate-Palmolive Company	Oxy Power Degreaser	0.1	0.00		1 plate	
Colgate-Palmolive Company	Palmolive Dish Soap	0.1	0.00	V	2.33 plates	
Procter & Gamble	Ajax Triple Action Orange Dish & Hand Soap	0.1	0.00		2.17 plates	
Brand Buzz	Moisturizing Shea & Aloe	0.1	0.00		1 plate	
Brand Buzz	Basic Citrus Sage Dishwash	0.1	0.00		1 plate	
Brand Buzz	Brand Buzz Oxy Dishwashing	0.1	0.00		1 plate	
Brand Buzz	Brand Buzz Basic Pink Grapefruit Dishwash	0.1	0.00		1 plate	
Brand Buzz	Brand Buzz Heavy Duty 409 Lavender	0.1	0.00		1 plate	

Conclusion:

The foam stability of Dawn Platinum, Dawn Gentle Clean, Palmolive Original and Ajax Triple Action had double the number of dishes being cleaned on average than that of any Brand Buzz dish cleaning products. After squeezing the sponge, it was clear that the white foam in the soap was gone when it was observed that the soap itself only secreted orange soil scum.