

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016
 DateRun: 10/17/2016
 Experimenters: John Truong, Sabrina Apel
 ClientType: Cleaning Equipment Mfr
 ProjectNumber: Project #1
 Substrates: Ceramics, Chrome
 PartType: Coupon
 Contaminants: Films, Soaps
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric
 Purpose: To evaluate three supplied cleaning products for Bathroom Soap Scum removal from ceramic and chrome surfaces.

Experimental Procedure: Three cleaners (Catholyte NaOH, Anolyte Hypochlorous, and Lysol Bathroom Cleaner) were received "Ready to Use" (RTU). Nine pre-weighed coupons (three ceramic, three chrome) per cleaner were coated with one gram of bathroom soap scum, at room temperature, using a hand held swab. The contaminated coupons were air dried for 24 hours at room temperature and weighed again to determine the amount of soil added the following day.

Three coupons of each substrate were placed in the SLW unit and a KC Wypal reinforced paper towel was attached to the cleaning sled and treated with two sprays of cleaning solution. Each coupon was sprayed twice with the same cleaning solution. The cleaning unit was run for 20 cycles (equivalent of 30 seconds of cleaning). At the end of the cleaning cycle, the coupons were wiped once with a dry paper towel. Coupons were dried and final weights were recorded. Efficiencies were calculated and recorded.

Results: The three supplied products removed over 95% of the bathroom soap scum on each substrate using the manual wipe unit.

Cleaner	Initial wt	Final wt	% Removed	% Average
Ceramic				
Catholyte				
	0.1832	0.0034	98.14	97.71
	0.2142	0.0045	97.90	
	0.2327	0.0068	97.08	
Anolyte				
	0.2172	0.0034	98.43	98.95
	0.4943	0.0037	99.25	
	0.2126	0.0018	99.15	
Lysol Bathroom Cleaner				
	0.2111	0.0053	97.49	98.41
	0.2058	0.0018	99.13	
	0.3644	0.005	98.63	
Chrome				
Catholyte				
	0.1542	0.0034	97.80	97.19
	0.1629	0.0042	97.42	
	0.1672	0.0061	96.35	
Anolyte				
	0.1568	0.0054	96.56	97.13
	0.1479	0.0038	97.43	
	0.1770	0.0046	97.40	
Lysol Bathroom Cleaner				
	0.1876	0.0077	95.90	95.34
	0.2015	0.0078	96.13	

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	0.1912	0.0115	93.99	
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Summary:

Substrates:	Ceramics, Chrome				
Contaminants:	Films, Soaps				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Annihilare	Free (Catholyte)	100	97.45	<input checked="" type="checkbox"/>	
Annihilare	Annihilyte General Purpose Cleaner	100	98.04	<input checked="" type="checkbox"/>	
Reckitt Benckiser	Lysol Bathroom Cleaner	100	96.88	<input checked="" type="checkbox"/>	

Conclusion:

Catholyte NaOH, Anolyte Hypochlorous, and Lysol Bathroom Cleaner efficiently removed Bathroom Soap Scum on ceramic and chrome using the Manual SLW Unit.