

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021
 DateRun: 09/03/2021
 Experimenters: Alicia McCarthy, Zoe Lawson, Nicole Kebler
 ClientType:
 ProjectNumber: Project #1
 Substrates: Glass/Quartz, Other, Chrome
 PartType: Coupon
 Contaminants: Films, Soaps
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric, Visual

Purpose: To test the effectiveness of The Pink Stuff on mirror, glass, and chrome.

Experimental Procedure: Eighteen pre-weighed coupons, three of each substrate per cleaner, were soiled with half a gram of glass soil (51.5% water; 25.6% hair gel; 10.4% toothpaste; 5.3% shaving cream; 3.7% hair spray, and 3.5% spray deodorant) distributed onto each coupon using a swab. Dirty weights were recorded after the coupons had dried for 24 hours at room temperature (68° F). Three coupons of the same substrate were aligned into a Single Line Washing Unit (SLW) with Wypall X60 attached to the cleaning sled. The Wypall X60 reinforced wipe along with the coupons were all sprayed two times with water after a small amount of the cleaner was added to each coupon; then the coupons were allowed to soak for 30 seconds. Afterward, the SLW was activated, and the coupons were cleaned for 20 cycles following an additional 20 cycles where a new Wypall was placed on the sled and sprayed again twice with water. Cleaned coupons dried overnight at room temperature before the final weights were recorded.

Results: Both cleaners were effective for the removal of glass soil from all three substrates. The Pink Stuff was 98% effective for mirror and 99% effective for glass and chrome. Soft Scrub was 99% effective for mirror, glass, and chrome.

Cleaner	Substrate	Initial wt. of Cont.	Final wt. of Cont	Average	Combined Average
The Pink Stuff	Mirror	1.0016	0.0201	98.0	98.3
		1.0213	0.0188	98.2	
		0.9903	0.0126	98.7	
	Glass	1.0214	0.0082	99.2	99.4
		1.0585	0.0042	99.6	
		1.0210	0.0050	99.5	
	Chrome	1.0895	0.0011	99.9	99.8
		1.0685	0.0044	99.6	
		0.9976	0.0018	99.8	
Soft Scrub	Mirror	1.0077	0.0062	99.4	99.4
		1.0216	0.0062	99.4	
		1.0110	0.0061	99.4	
	Glass	1.1336	0.0020	99.8	99.8
		0.9958	0.0009	99.9	
		1.0103	0.0039	99.6	
	Chrome	1.1837	0.0048	99.6	99.6
		0.9901	0.0039	99.6	
		1.0114	0.0053	99.5	

Summary:

Substrates:		Glass/Quartz, Other, Chrome			
Contaminants:		Films, Soaps			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Henkel Corporation	Soft Scrub Total All Purpose Cleaner	RTU	99.00	<input checked="" type="checkbox"/>	Soft Scrub was effective for the removal of glass soil from mirror, glass, and chrome.
Star Drops	The Pink Stuff	RTU	99.00	<input checked="" type="checkbox"/>	The Pink Stuff was effective for the removal of glass soil from mirror, glass, and chrome.

Conclusion:

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Both cleaners were effective for the removal of glass soil from all three substrates.