

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2023  
 DateRun: 01/01/1970  
 Experimenters: Amelia Wagner  
 ClientType: Cleaner Manufacturer  
 ProjectNumber: Project #1  
 Substrates: Glass/Quartz, Chrome  
 PartType: Coupon  
 Contaminants: SSL Soil 2 Glass Soap Scum  
 Cleaning Methods: Manual Wipe  
 Analytical Methods: Gravimetric

Purpose: To test the effectiveness of two Green Mountain Amenities glass cleaners compared to other glass cleaners on the market.

Experimental Procedure: Three coupons for each substrate for each cleaner were weighed for initial weights. About 0.15-0.2 g of Glass soil that was made previously was put onto the coupons and was left to dry overnight (24-hour dry time). The following day, dirty weights were taken and recorded. Three coupons of the same substrate were placed in the SLW Machine; there was 3 sprays per Wypall (one Wypall per substrate, per cleaner) and the SLW Machine was run for 20 cycles (30 seconds of cleaning). The coupons were taken out and left to dry for another 24 hours. After the 24 hours, they were weighed again for final weights.

Cleaner	Coupon	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG	% Overall
GMA White Vinegar	Glass	0.0262	0.0000	100.00	71.99	80.95
		0.0157	0.0009	94.27		
		0.0152	0.0119	21.71		
	Chrome	0.0192	0.0028	85.42	89.91	
		0.0130	0.0010	92.31		
		0.0025	0.0002	92.00		
Windex Glass Original w/ Ammonia D	Glass	0.0123	0.0001	99.19	97.51	90.75
		0.0217	0.0004	98.16		
		0.0145	0.0007	95.17		
	Chrome	0.0136	0.0031	77.21	83.98	
		0.0214	0.0049	77.10		
		0.0127	0.0003	97.64		
Ecolab Glass Cleaner	Glass	0.0171	0.0068	60.23	84.97	70.39
		0.0118	0.0003	97.46		
		0.0179	0.0005	97.21		
	Chrome	0.0226	0.0124	45.13	55.81	
		0.0078	0.0045	42.31		
		0.0050	0.0010	80.00		
GMA Etee Glass Cleaner	Glass	1.0032	0.0092	99.08	97.38	97.73
		1.1102	0.0138	98.76		
		1.0065	0.0575	94.29		
	Chrome	1.0054	0.0226	97.75	98.07	
		1.0033	0.0149	98.51		
		1.0007	0.0206	97.94		

\*Noteworthy: GMA White Vinegar had a low outlier of performance on glass coupons.

Summary:

Conclusion: GMA White Vinegar performed comparatively to the comparison products. GMA Etee Glass Cleaner performed the best out of all cleaners tested. Both products are effective glass cleaners.