

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2024
 DateRun: 10/15/2024
 Experimenters: Rachael Rososky
 Client Name: Green Mountain Amenities
 ClientType: Cleaner Manufacturer
 ProjectNumber: Project #2
 Substrates: Glass/Quartz
 PartType: Coupon
 Contaminants: SSL Soil 2 Glass Soap Scum
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric
 Purpose: To test the efficacy of the client's glass cleaning product against comparative glass cleaning market products on mirrored glass.

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 were w per Wypall (one Wypall per substrate, per cleaner) amounting to about 2.5 ml of each cleaning chemistry per coupon. 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.

Results:

Cleaner	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG
7th Generation Glass Cleaner	0.0232	0.0023	90.09	87.53
	0.0286	0.0039	86.36	
	0.0238	0.0033	86.13	
Invisible Glass	0.0183	0.0027	85.25	88.62
	0.0449	0.0027	93.99	
	0.0256	0.0034	86.62	
Windex	0.0182	0.0028	84.62	86.87
	0.0282	0.0041	85.46	
	0.0338	0.0032	90.53	
GMA Glass	0.0321	0.0023	92.83	92.68
	0.0317	0.0024	92.43	
	0.0332	0.0024	92.77	

Summary:

Substrates:	Glass/Quartz				
Contaminants:	SSL Soil 2 Glass Soap Scum				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Seventh Generation	Glass Cleaner	RTU	87.53	<input checked="" type="checkbox"/>	
Stoner Car Care	Invisible Glass	RTU	88.62	<input checked="" type="checkbox"/>	
SC Johnson & Son Inc	Windex Glass Original w/ Ammonia-D	RTU	86.87	<input checked="" type="checkbox"/>	
Green Mountain Amenities	GMA White Vinegar Glass Cleaner	RTU	92.68	<input checked="" type="checkbox"/>	

Conclusion: While all cleaners showed some streaking on the mirrored glass after cleaning, the GMA glass cleaner performed the best out of the four cleaners.