

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2007
 DateRun: 01/30/2007
 Experimenters: Jason Marshall
 ClientType: Cleaner Manufacturer
 ProjectNumber: Project #1
 Substrates: Glass/Quartz, Chrome
 PartType: Coupon
 Contaminants: Films, Soaps
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric
 Purpose: To evaluate supplied products for glass cleaning.

Experimental Procedure: The supplied cleaning products were used at the recommended concentrations (2% and 1.5%). Six preweighed chrome and three glass coupons were coated with SSL Soil 2 (Glass soap scum: Water 51.5%, Hair gel 25.6%, Toothpaste 10.4%, Shaving cream 5.3%, Hair spray 3.7% and Spray deodorant 3.5%) using a handheld swab and allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added. Three coupons were placed into a Gardner Straight Line Washability unit. A Wypall X60 reinforced wipe was attached to the cleaning sled and soaked with 5-7 sprays of cleaning solutions. Each coupon was sprayed 7-10 times with the same cleaning solution. The solution was allowed to penetrate for 30 seconds followed by cleaning in the SLW unit for 5 cycles (~10 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded, and efficiencies recorded.

Results: Product #108 and Blue Jay worked well on the glass soap scum. The table lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
108 Glass	0.0298	0.0070	76.51
	0.0537	0.0061	88.64
	0.0748	0.0058	92.25
108 Chrome	0.0287	0.0012	95.82
	0.0240	0.0021	91.25
	0.0234	0.0012	94.87
Blue Jay Glass	0.0336	0.0017	94.94
	0.0427	0.0006	98.59
	0.0466	0.0001	99.79
Blue Jay Chrome	0.0347	0.0039	88.76
	0.0422	0.0009	97.87
	0.0182	0.0006	96.70

Summary:

Substrates:		Glass/Quartz, Chrome				
Contaminants:		Films, Soaps				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:	
Next-Gen Supply Group	PC 108 Spray & Wipe Cleaner	2	89.89	<input checked="" type="checkbox"/>		
Next-Gen Supply Group	Blue Jay	1.5	96.11	<input checked="" type="checkbox"/>		

Conclusion: Product #108 Spray & Wipe Cleaner and Blue Jay surpassed the 85% cut off level for efficiency in glass cleaning as specified in the Mass EPP protocol.