

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
 DateRun: 02/25/2003
 Experimenters: Jason Marshall, Heidi Wilcox
 ClientType: State Agency
 ProjectNumber: Project #2
 Substrates: Glass/Quartz, Chrome
 PartType: Coupon
 Contaminants: Films, Soaps
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric, Photography
 Purpose: To evaluate newly supplied cleaner on SSL Soil 2 on two substrates

Experimental Procedure: The supplied cleaning product was diluted to vendor recommended concentration for glass cleaning. The product was diluted with DI water. Three preweighed chrome and three glass coupons were coated with SSL Soil 2 (Glass soap scum: Colgate Regular shaving cream 5.3%, Arid Extra Extra Spray Deodorant 3.5%, Suave Naturals Flexible Hold hair spray 3.7%, Aleeda Texurizing hair gel 25.6% Colgate Total toothpaste 10.4%, Water 51.5%) by pump spraying the mix. The soil was allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added. Photographs were taken.

Three coupons were placed into a Gardner Straight Line Washability unit. A Professional Painter's Rag 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 cleaning unit was run for 5 cycles (~9 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded and a second set of photographs were taken. Efficiencies were calculated and recorded.

Results: The product was successful in removing SSL Soil 2 from glass and chrome coupons. Table 1 lists the amount of soil applied and removed.
 Table 1. Soil Application and Removal

Cleaner	Initial wt	Final wt	% Removed
Glass	0.0150	0.0001	99.33
	0.0158	0.0003	98.10
	0.0121	0.0004	96.69
Chrome	0.0165	0.0006	96.36
	0.0134	0.0005	96.27
	0.0141	0.0005	96.45

Summary:

Substrates:		Glass/Quartz, Chrome				
Contaminants:		Films, Soaps				
Company Name:		Product Name:	Conc.:	Efficiency:	Effective:	Observations:
The Clean Environment Co		Glass and Hard Surface Cleaner	25	98.04	<input checked="" type="checkbox"/>	Glass-mirror
The Clean Environment Co		Glass and Hard Surface Cleaner	25	96.36	<input checked="" type="checkbox"/>	Chrome

Conclusion: The third supplied product from this vendor will be used to remove SSL Soil 3 from three substrates.