

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
 DateRun: 03/20/2003
 Experimenters: Jason Marshall, Heidi Wilcox
 ClientType: Cleaner Manufacturer
 ProjectNumber: Project #1
 Substrates: Glass/Quartz, Chrome
 PartType: Coupon
 Contaminants: Soaps
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric, Photography
 Purpose: To evaluate supplied cleaner on second janitorial soil on two substrates

Experimental Procedure: The supplied cleaning product was diluted to 10% 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 the soil from both substrates. The table below lists the amount of soil applied and removed from the coupons.

Table 1. Soil Removal

Cleaner	Initial wt	Final wt	% Removed
Glass-SSL2	0.0282	0.0001	99.65
	0.0276	0.0008	97.10
	0.0227	-0.0005	102.20
Chrome-SSL2	0.0285	0.0022	92.28
	0.0346	0.0013	96.24
	0.0267	0.0028	89.51

Summary:

Substrates:		Glass/Quartz, Chrome			
Contaminants:		Soaps			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Pollux Company	Force 9	10	99.65	<input checked="" type="checkbox"/>	Glass
Pollux Company	Force 9	10	92.68	<input checked="" type="checkbox"/>	Chrome

Conclusion: The overall efficiency the supplied cleaner, Force 9, was 96.16, passing the cut off of 85%. The final supplied product will be tested on SSL Soil 3.