

CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008																																												
DateRun:	12/03/2008																																												
Experimenters:	Jason Marshall																																												
ClientType:	Cleaner Manufacturer																																												
ProjectNumber:	Project #1																																												
Substrates:	Ceramics, Fiberglass, Chrome																																												
PartType:	Coupon																																												
Contaminants:	Films, Soaps																																												
Cleaning Methods:	Manual Wipe																																												
Analytical Methods:	Gravimetric																																												
Purpose:	To reevaluate supplied cleaner at requested concentration for GS 37 bathroom soil.																																												
Experimental Procedure:	<p>The supplied cleaning product was used at the requested concentration (5%) for bathroom cleaning. Preweighed chrome coupons were coated with SSL Soil 1 (Bathroom soap scum: All-in-one shampoo and conditioner 28.6%, Dry skin lotion 21.4%, Liquid hand soap 21.4%, Liquid body wash 14.3%, Deodorant bar soap 7.2% and water 7.1%.) using a hand held swab and allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added.</p> <p>Three coupons were placed into a Gardner Straight Line Washability unit. A Kimberly Clark Reinforced paper towel 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 20 cycles (~33 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded. Efficiencies were calculated and recorded.</p>																																												
Results:	<p>The new dilution of the Super H2O2 cleaning product removed over 90% of the bathroom soil on average from all three substrates using manual wiping application. The table lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.</p> <table> <tr> <th>Cleaner</th> <th>Initial wt</th> <th>Final wt</th> <th>% Removed</th> </tr> <tr> <td>Ceramic</td> <td>0.0989</td> <td>0.0034</td> <td>96.56</td> </tr> <tr> <td></td> <td>0.1749</td> <td>0.0333</td> <td>80.96</td> </tr> <tr> <td></td> <td>0.1017</td> <td>0.0190</td> <td>81.32</td> </tr> <tr> <td>Chrome</td> <td>0.1067</td> <td>0.0119</td> <td>88.85</td> </tr> <tr> <td></td> <td>0.0467</td> <td>0.0039</td> <td>91.65</td> </tr> <tr> <td></td> <td>0.0649</td> <td>0.0018</td> <td>97.23</td> </tr> <tr> <td>Fiberglass</td> <td>0.1473</td> <td>0.0090</td> <td>93.89</td> </tr> <tr> <td></td> <td>0.0765</td> <td>0.0071</td> <td>90.72</td> </tr> <tr> <td></td> <td>0.0766</td> <td>0.0051</td> <td>93.34</td> </tr> </table>					Cleaner	Initial wt	Final wt	% Removed	Ceramic	0.0989	0.0034	96.56		0.1749	0.0333	80.96		0.1017	0.0190	81.32	Chrome	0.1067	0.0119	88.85		0.0467	0.0039	91.65		0.0649	0.0018	97.23	Fiberglass	0.1473	0.0090	93.89		0.0765	0.0071	90.72		0.0766	0.0051	93.34
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Conclusion:	The supplied product did have an overall average efficiency greater than 85% and would be considered effective based on the SSL testing methodology.																																												