

CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2017																																		
DateRun:	12/20/2017																																		
Experimenters:	Alicia McCarthy, Hayley Byra																																		
ClientType:	Cleaner Manufacturer																																		
ProjectNumber:	Project #1																																		
Substrates:	Stainless Steel																																		
PartType:	Coupon																																		
Contaminants:	Films, Soaps																																		
Cleaning Methods:	Manual Wipe																																		
Analytical Methods:	Gloss-Color Meter																																		
Purpose:	To compare the effectiveness of removing Hucker's soil from a variety of surfaces using the supplied cleaning products.																																		
Experimental Procedure:	<p>A Spectro Guide Gloss-Color meter from BYK Gardner was used to measure baseline gloss readings from six coupons, three per cleaner before soiling with one gram of glass soil (51.5% water, 25.6% hair gel, 10.4% toothpaste, 5.3% shaving cream, 3.7% hair spray, 3.5% spray deodorant) using a swab. Coupons air dried at room temperature (68F) for 24 hours before recording dirty gloss readings. A sponge provided by EcoEgg was used to manually clean with both the supplied and comparative product. The sponge was cut into four pieces and one piece was used per cleaner. A sponge piece was saturated once with deionized water before rubbing it into the EcoEgg hard surface cleaner in a circular motion for five seconds. The coupons were cleaned one at a time for 30 seconds in a circular motion with a reapplication of the cleaner between each coupon. A dime sized drop of the comparative product was applied directly to the coupons one at a time and cleaned with a wet sponge for 30 sections in a circular motion. The coupons were dried by wiping once with a microfiber towel before taking clean gloss readings and final observations.</p>																																		
Results:	<table border="1"> <thead> <tr> <th>Cleaner</th> <th>Initial Gloss</th> <th>Final Gloss</th> <th>Observations</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1</td> <td>51.70</td> <td>55.90</td> <td rowspan="3">Left a soil outline. No other visible streaks</td> </tr> <tr> <td>66.00</td> <td>66.20</td> </tr> <tr> <td>27.90</td> <td>35.80</td> </tr> <tr> <td rowspan="3">2</td> <td>27.40</td> <td>39.30</td> <td rowspan="3">No outline of soil. No streaks.</td> </tr> <tr> <td>62.80</td> <td>69.10</td> </tr> <tr> <td>71.00</td> <td>55.60</td> </tr> </tbody> </table>					Cleaner	Initial Gloss	Final Gloss	Observations	1	51.70	55.90	Left a soil outline. No other visible streaks	66.00	66.20	27.90	35.80	2	27.40	39.30	No outline of soil. No streaks.	62.80	69.10	71.00	55.60										
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Conclusion:	Both products improved the gloss readings. Some residue was left behind by the Eco Egg product.																																		