

# 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: 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.

| 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       |   |

| Substrates:       |                             | Stainless Steel |             |                                     |               |
|-------------------|-----------------------------|-----------------|-------------|-------------------------------------|---------------|
| Contaminants:     |                             | Films, Soaps    |             |                                     |               |
| Company Name:     | Product Name:               | Conc.:          | Efficiency: | Effective:                          | Observations: |
| Eco Egg           | Hard Surface Cleaner Citrus | 100             |             | <input checked="" type="checkbox"/> |               |
| Dial Professional | Soft Scrub Lemon            | 100             |             | <input checked="" type="checkbox"/> |               |

Conclusion: Both products improved the gloss readings. Some residue was left behind by the Eco Egg product.