

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2017
 DateRun: 12/19/2017
 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.

Results:

| 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 | |

Summary:

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|----------------------|-----------------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Stainless Steel | | | | |
| Contaminants: | Films, Soaps | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Eco Egg | Hard Surface Cleaner Citrus | 100 | 0.00 | <input checked="" type="checkbox"/> | |
| Dial Professional | Soft Scrub Lemon | 100 | 0.00 | <input checked="" type="checkbox"/> | |

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