

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2016
 DateRun: 01/03/2016
 Experimenters: Alicia Melvin, Luis Raudales
 ClientType: Cleaner Manufacturer
 ProjectNumber: Project #2
 Substrates: Ceramics, Plastic, Stainless Steel
 PartType: Coupon
 Contaminants: Films, Soaps
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric

Purpose: To evaluate supplied products for Bathroom Soil SSL-1 removal from various surfaces.

Experimental Procedure: The two cleaning products were used at the requested dilutions, 1:128 for PC-120 and RTU for Lav Safe, both at room temperature (68°F) during the test. Nine pre-weighed coupons per cleaner (three Ceramic, three Plastic and three Stainless steel) were coated with one gram of Bathroom Soil SSL-1 at room temperature using a handheld swab. The contaminated coupons were air dried for 24 hours at room temperature and weighed again to determine the amount of soil added the next day.

The three coupons of each substrate were placed in the SLW equipment, and a KC Wypal reinforced paper towel was attached to the cleaning sled and soaked with two sprays of cleaning solution. Each coupon was sprayed twice with the same cleaning solution. The cleaning unit was run for 20 cycles (30 sec). At the end of the cleaning cycle, the coupons were wiped once with a dry paper towel. Coupons dried overnight and final weights were recorded. Efficiencies were calculated and recorded.

Results: After 30 seconds of testing on the SLW equipment, PC 120 was less effective at removing soil from Polycarbonate Substrates. Lav Safe was less effective at removing soil from Stainless Steel. PC 120 had very close removal rates for all of the substrates while Lav Safe was very effective on Polycarbonate substrates. Overall, Lav Safe was more effective as a cleaner than PC 120.

| Cleaner | Substrates | Initial | Final | % Removed | % Substrate Ave | % Overall |
|----------|-----------------|---------|--------|-----------|-----------------|-----------|
| PC 120 | Ceramic | 0.3756 | 0.1079 | 71.27 | 83.09 | 84.21 |
| | | 0.4052 | 0.0506 | 87.51 | | |
| | | 0.3129 | 0.0297 | 90.51 | | |
| | Polycarbonate | 0.3052 | 0.0848 | 72.21 | 82.95 | |
| | | 0.3395 | 0.0429 | 87.36 | | |
| | | 0.3814 | 0.0408 | 89.30 | | |
| | Stainless Steel | 0.2792 | 0.1224 | 99.52 | 86.58 | |
| | | 0.4407 | 0.0356 | 86.67 | | |
| | | 0.2916 | 0.1817 | 73.56 | | |
| Lav Safe | Ceramic | 0.3419 | 0.0122 | 96.43 | 87.08 | 85.54 |
| | | 0.3021 | 0.0308 | 89.40 | | |
| | | 0.2934 | 0.0733 | 75.02 | | |
| | Polycarbonate | 0.3354 | 0.0115 | 96.57 | 96.36 | |
| | | 0.3776 | 0.0110 | 98.09 | | |
| | | 0.3386 | 0.0155 | 95.42 | | |
| | Stainless Steel | 0.3487 | 0.0907 | 59.80 | 73.20 | |
| | | 0.3077 | 0.0943 | 82.63 | | |
| | | 0.3334 | 0.0221 | 77.18 | | |

Summary:

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|-----------------------|--------------------------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Ceramics, Plastic, Stainless Steel | | | | |
| Contaminants: | Films, Soaps | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Next-Gen Supply Group | PC 120 Peroxide Multisurface Cleaner | 1.5 | 84.21 | <input checked="" type="checkbox"/> | |

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| Next-Gen Supply Group | LAV Safe 8 | 100 | 85.54 | <input checked="" type="checkbox"/> | |
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Conclusion:

At the end of the cycle (30 sec), the PC-120 could only effectively remove 86.58% of the Bathroom Soil SSL-1 from Stainless Steel. Lav Safe was able to effectively remove 87.08% of Bathroom Soil SSL-1 from Ceramic and 96.36% from Polycarbonate.