

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2007  
 DateRun: 01/30/2007  
 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 evaluate two products for bathroom cleaning

Experimental Procedure: The supplied cleaning product were used at the recommended concentration (2%, 2% and 1.5%). Nine preweighed chrome, ceramic and fiberglass, 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 handheld swab and allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added.

Three coupons were placed into a Gardner Straight Line Washability unit. A Wypall X60 reinforced wipe 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, and efficiencies were calculated and recorded.

Results: The table lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

| Cleaner             | Initial wt | Final wt | % Removed |
|---------------------|------------|----------|-----------|
| 120 Chrome          | 0.3344     | 0.0381   | 88.61     |
|                     | 0.3720     | 0.0539   | 85.51     |
|                     | 0.4720     | 0.1368   | 71.02     |
| 108 Chrome          | 0.4998     | 0.0902   | 81.95     |
|                     | 0.2962     | 0.0989   | 66.61     |
|                     | 0.6143     | 0.1612   | 73.76     |
| 120 Ceramic         | 0.3658     | 0.0578   | 84.20     |
|                     | 0.5414     | 0.0290   | 94.64     |
|                     | 0.3241     | 0.1041   | 67.88     |
| 108 Ceramic         | 0.0655     | 0.0149   | 77.25     |
|                     | 0.3481     | 0.1077   | 69.06     |
|                     | 0.5779     | 0.1499   | 74.06     |
| 120 Fiberglass      | 0.3721     | 0.0218   | 94.14     |
|                     | 0.3262     | 0.0108   | 96.69     |
|                     | 0.5024     | 0.0838   | 83.32     |
| 108 Fiberglass      | 0.2380     | 0.0038   | 98.40     |
|                     | 0.3914     | 0.0099   | 97.47     |
|                     | 0.2337     | 0.0075   | 96.79     |
| Blue Jay Chrome     | 0.3724     | 0.0284   | 92.37     |
|                     | 0.1401     | 0.0190   | 86.44     |
|                     | 0.2055     | 0.0259   | 87.40     |
| Blue Jay Ceramic    | 0.2552     | 0.0017   | 99.33     |
|                     | 0.2306     | 0.0268   | 88.38     |
|                     | 0.2613     | 0.0147   | 94.37     |
| Blue Jay Fiberglass | 0.7378     | 0.0405   | 94.51     |
|                     | 0.2967     | 0.0285   | 90.39     |
|                     | 0.4634     | 0.0634   | 86.32     |

Summary:

## CLEANING LABORATORY EVALUATION SUMMARY

|                       |                                      |               |                    |                                     |                      |
|-----------------------|--------------------------------------|---------------|--------------------|-------------------------------------|----------------------|
| <b>Substrates:</b>    | Ceramics, Fiberglass, Chrome         |               |                    |                                     |                      |
| <b>Contaminants:</b>  | Films, Soaps                         |               |                    |                                     |                      |
| <b>Company Name:</b>  | <b>Product Name:</b>                 | <b>Conc.:</b> | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b> |
| Next-Gen Supply Group | PC 120 Peroxide Multisurface Cleaner | 2             | 85.11              | <input checked="" type="checkbox"/> |                      |
| Next-Gen Supply Group | PC 108 Spray & Wipe Cleaner          | 2             | 81.71              | <input type="checkbox"/>            |                      |
| Next-Gen Supply Group | Blue Jay                             | 1.5           | 91.06              | <input checked="" type="checkbox"/> |                      |

Conclusion:

Product #120 Peroxide Multisurface cleanse and Blue Jay met the 85% efficiency level as specified in the Mass EPP protocol. The other product #108 Spray & Wipe did not meet this cut off level while tested at the specified concentration.