# CLEANING LABORATORY EVALUATION SUMMARY

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|---|---|
| SCL #: | 2021 |
| DateRun: | 09/14/2021 |
| Experimenters: | Edward Judge |
| ClientType: | Lab |
| ProjectNumber: | Project #5 |
| Substrates: | Glass/Quartz, Other, Chrome |
| PartType: | Coupon |
| Contaminants: | Glass |
| Cleaning Methods: | Manual Wipe |
| Analytical Methods: | Gravimetric, Visual |
| Purpose: | To test the effectiveness of Kaboom cleaner in the removal of Glass Soil from various substrates. |
| Experimental Procedure: | A Kaboom cleaner solution was gathered to begin testing. Then, 3 coupons of each substrate (chrome, glass, mirror) were collected and initial weights were taken. Glass Soil was applied to each coupon and allowed to air dry for 24 hours. After the 24 hour dry time, the weights of the newly contaminated coupons were measured. All coupons were placed into a Gardner-scrub Abrasion Tester machine. Wypall cleaning cloths were attached to each of the 3 cleaning blocks used for the test. Each Wypall cloth and all coupons received 2 sprays of the Kaboom cleaner solution and the Gardner-scrub Abrasion Tester was run for 20 repetitions, simulating 20 manual wipes. Once cleaning concluded, the cleaned coupons were allowed to air dry for 24 hours. After 24 hours, the weights of the cleaned coupons were measured. |

Results:

| Cleaner | Substrate | Initial wt of cont. | Final wt of cont. | %Cont Removed | % AVG | % Overall |
|---|---|---|---|---|---|---|
| Kaboom | Chrome | 0.0305 | 0.0020 | 93.44 | 95.92 | 96.48 |
| | | 0.0562 | 0.0015 | 97.33 | | |
| | | 0.0447 | 0.0024 | 94.63 | | |
| | Glass | 0.0459 | 0.0008 | 98.26 | 96.29 | |
| | | 0.0500 | 0.0023 | 95.40 | | |
| | | 0.0375 | 0.0018 | 95.20 | | |
| | Mirror | 0.0378 | 0.0005 | 98.68 | 97.24 | |
| | | 0.0341 | 0.0011 | 96.77 | | |
| | | 0.0375 | 0.0014 | 96.27 | | |

Summary:

Conclusion: Kaboom cleaner was successful in the removal of Glass Soil from chrome, glass, and mirror substrates.