

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021
 DateRun: 09/03/2021
 Experimenters: Alicia McCarthy, Zoe Lawson, Nicole Kebler
 ClientType:
 ProjectNumber: Project #1
 Substrates: Stainless Steel
 PartType: Coupon
 Contaminants: Food
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric, Visual
 Purpose: To test the effectiveness of The Pink Stuff on stainless steel.

Experimental Procedure: Six pre-weighed coupons, three of each substrate per cleaner, were soiled with one gram of oven soil (85.4% butter, 6.5% sugar, 4.3% deionized water, and 3.4% all-purpose white flour) distributed onto each coupon using a swab. Coupons were then placed inside an oven preheated to 450F and baked for 1 hour. Once baking was finished, the coupons were allowed to cool for 20 minutes. Dirty weights were recorded after the coupons cooled at room temperature (68° F). Three coupons of the same substrate were aligned into a Single Line Washing Unit (SLW) with Wypall X60 attached to the cleaning sled. The Wypall X60 reinforced wipe along with the coupons were all sprayed two times with water after a small amount of the cleaner was added to each coupon; then the coupons were allowed to soak for 30 seconds. Afterward, the SLW was activated, and the coupons were cleaned for 20 cycles following an additional 20 cycles where a new Wypall was placed on the sled and sprayed again twice with water. Cleaned coupons dried overnight at room temperature before the final weights were recorded.

Results: Both The Pink Stuff and Easy Off Fume Free Oven Cleaner had an effectiveness of 95% removal for stainless steel.

| Cleaner | Substrate | Initial wt. of Cont. | Final wt. of Cont. | Average | Combined Average |
|---------------------------------|-----------------|----------------------|--------------------|---------|------------------|
| The Pink Stuff | Stainless Steel | 1.0015 | 0.0257 | 97.43 | 95.42 |
| | | 0.9846 | 0.0579 | 94.12 | |
| | | 0.8958 | 0.0474 | 94.71 | |
| Easy Off Fume Free Oven Cleaner | Stainless Steel | 0.9475 | 0.0360 | 96.20 | 95.18 |
| | | 1.0376 | 0.0240 | 97.69 | |
| | | 1.0345 | 0.0862 | 91.67 | |

Summary:

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|----------------------|---------------------------------|-----------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | | Stainless Steel | | | | |
| Contaminants: | | Food | | | | |
| Company Name: | Product Name: | | Conc.: | Efficiency: | Effective: | Observations: |
| Star Drops | The Pink Stuff | | 100% | 95.00 | <input checked="" type="checkbox"/> | |
| Reckitt Benckiser | Easy Off Fume Free Oven Cleaner | | 100% | 95.00 | <input checked="" type="checkbox"/> | |

Conclusion: Overall, both cleaners were effective at removing the baked food soil.