CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 09/02/2021

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		0.9475	0.0360	96.20	95.18
		1.0376	0.0240	97.69	
		1.0345	0.0862	91.67	

Summary:

Substrates:	Stainless Steel				
Contaminants:	Food				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Star Drops	The Pink Stuff	100%	95.00	☑	
Reckitt Benckiser	Easy Off Fume Free Oven Cleaner	100%	95.00	☑	

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