

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2025

DateRun: 06/16/2025

Experimenters: Cindy McClaughlin, Rachael Rososky

ClientType: Community Group

ProjectNumber: Project #2

Substrates: Ceramics, Plastic, Stainless Steel

PartType: Part

Contaminants: DCC-17

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: To test the efficacy of the Brazilian Women's Group's original Fantastic DIY All-Purpose Cleaner against Fabuloso All-Purpose, Dr. Bronner's All-Purpose Dilution, and TURI's reformulation of the Fantastic all-purpose cleaner

Experimental Procedure: Twenty-seven pre-weighed coupons, three per substrate per cleaner, were contaminated with 0.5 g of DCC-17 grease soil. Coupons dried at room temperature (68°F) for 24 hours before their dirty weights were recorded. Three coupons of the same substrate were placed in a Single Line Washing Unit (SLW) with a Wypall X60 wipe attached to the cleaning sled. The wipe and coupons were sprayed three times with the cleaner and soaked for 30 seconds. The SLW was then run for 20 cleaning cycles (30 seconds of manual cleaning). Coupons dried overnight at room temperature before final weights were recorded.

## Results:

Cleaner	Substrate	Initial wt of cont.	Final wt of cont.
BWG Org. Fantastic Multi-Cleaner	Ceramic	0.48327	0.02097
		0.4707	0.026
		0.5302	0.0264
	Stainless Steel	0.511	0.0704
		0.4436	0.0455
		0.4908	0.0589
	Polycarbonate	0.4968	0.0852
		0.4623	0.142
		0.4969	0.1219
Fantastic V4	Ceramic	0.4908	0.1048
		0.49	0.0824
		0.4708	0.085
	Stainless Steel	0.4969	0.101
		0.4961	0.0487
		0.4926	0.0796
	Polycarbonate	0.4612	0.0757
		0.5323	0.1131
		0.5279	0.0991
Fabuloso	Ceramic	0.476	0.0733
		0.4685	0.0898
		0.5045	0.0716
	Stainless Steel	0.4992	0.1373
		0.5045	0.0915
		0.4827	0.2033
	Polycarbonate	0.4999	0.0928
		0.4904	0.0718
		0.4655	0.2377

## Summary:

Conclusion: BWG Org. Fantastic Multi-Cleaner proved to be the most effective compared to other competitive cleaners like Fantastic V4 and Fabuloso. It worked especially well on ceramic surfaces, showing better results than on stainless steel or polycarbonate plastic. Overall, BWG Org. Fantastic Multi-Cleaner performed best on ceramic and stainless steel surfaces, while Fantastic V4 was more effective when it came to cleaning polycarbonate plastic.

## **CLEANING LABORATORY EVALUATION SUMMARY**