

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.	%Cont Removed	Average % Removal	Average Cleaner %
BWG Org. Fantastic Multi-Cleaner	Ceramic	0.48327	0.02097	95.66	95.05	91.52
		0.4707	0.0260	94.48		
		0.5302	0.0264	95.02		
	Stainless Steel	0.5110	0.0704	86.22	87.99	
		0.4436	0.0455	89.74		
		0.4908	0.0589	88.00		
	Polycarbonate	0.4968	0.0852	82.85	75.87	
		0.4623	0.1420	69.28		
		0.4969	0.1219	75.47		
Fantastic V4	Ceramic	0.4908	0.1048	78.65	81.26	82.91
		0.4900	0.0824	83.18		
		0.4708	0.0850	81.95		
	Stainless Steel	0.4969	0.1010	79.67	84.57	
		0.4961	0.0487	90.18		
		0.4926	0.0796	83.84		
	Polycarbonate	0.4612	0.0757	83.59	81.19	
		0.5323	0.1131	78.75		
		0.5279	0.0991	81.23		
Fabuloso	Ceramic	0.4760	0.0733	84.60	83.75	77.25
		0.4685	0.0898	80.83		
		0.5045	0.0716	85.81		
	Stainless Steel	0.4992	0.1373	72.50	70.75	
		0.5045	0.0915	81.86		
		0.4827	0.2033	57.88		
	Polycarbonate	0.4999	0.0928	81.44	71.91	
		0.4904	0.0718	85.36		
		0.4655	0.2377	48.94		

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.

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