

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2025
 DateRun: 02/19/2025
 Experimenters: Cindy McClaughlin
 ClientType: Cleaner Manufacturer
 ProjectNumber: Project #1
 Substrates: Plastic, Wood, Painted metal
 PartType: Coupon
 Contaminants: Hucker's Soil
 Cleaning Methods: Mechanical Agitation
 Analytical Methods: Gravimetric
 Purpose: To test the efficiency of ServeCo All Purpose Cleaner against Seventh Generation All Purpose Cleaner at removing Hucker's Soil from various substrates.

Experimental Procedure: Eighteen pre-weighed coupons, three per substrate per cleaner, were contaminated with 0.5 g of Hucker's soil (44.2% distilled water, 13.5% evaporated milk, 8.8% salted butter, 8.8% stone ground wheat flour, 8.8% egg yolk, 0.9% printer's ink with boiled linseed oil, 2.7% saline solution, and 3.5% India ink). 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	Overall % Removal
ServeCo All Purpose	Finished Oak Wood	0.4954	0.0801	83.83	77.75	90.01
		0.5029	0.1273	74.69		
		0.4865	0.1230	74.72		
	Plastic	0.4951	0.0103	97.92	98.22	
		0.5427	0.0071	98.69		
		0.4973	0.0097	98.05		
	Powder-coated Metal	0.5038	0.0341	93.23	94.07	
		0.5083	0.0168	96.69		
		0.5052	0.0390	92.28		
Seventh Generation All Purpose	Finished Oak Wood	0.5284	0.0131	97.52	93.49	88.07
		0.5623	0.0021	99.63		
		0.5072	0.0846	83.32		
	Plastic	0.5174	0.0360	93.04	92.93	
		0.5121	0.0281	94.51		
		0.5210	0.0456	91.25		
	Powder-coated Metal	0.5657	0.1139	79.87	77.79	
		0.5049	0.1285	74.55		
		0.5346	0.1125	78.96		

Summary:

Substrates:	Plastic, Wood, Painted metal				
Contaminants:	Hucker's Soil				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
ServeCo North America	ServeCo All Purpose Cleaner	100%	90.01	<input checked="" type="checkbox"/>	
Seventh Generation	All-Purpose Natural Cleaner	100%	88.07	<input checked="" type="checkbox"/>	

Conclusion:

ServeCo All Purpose was as effective as the comparative product, Seventh Generation All Purpose Cleaner, with an overall percent removal of 90.01% on finished oak wood, plastic, and powder-coated metal.