CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2023

DateRun: 03/06/2023

Experimenters: Namrata Chauhan, Mei Jin

ClientType: Chemical Company

ProjectNumber: Project #1

Substrates: Glass/Quartz, Chrome

PartType: Coupon

Contaminants: SSL Soil 2 Glass Soap Scum

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric

Purpose: To evaluate the efficacy of Bioneat with SSL 2 Glass Soap Scum.

Experimental Procedure: Six pre-weighed coupons, three of each substrate per cleaner, were contaminated with one gram of SSL 2 Glass Soil using a handheld swab and air-dried at room temperature (68 F) for 24 hours. The contaminated coupons were weighed to record dirty weights before placing three coupons per cleaner of the same substrate into a Gardner Straight Line Washability (SLW) unit. A Kimberly-Clark Wypal reinforced paper towel was attached to the cleaning sled. The Wypal and each coupon were treated with three sprays of the product and cleaned for 20 cycles (~30 seconds of cleaning). Cleaned coupons were wiped once with a dry paper towel before the final weights were taken.

Results:

Cleaner	Substrate	Final wt of cont.	%Cont Removed	% AVG
Bioneat	Glass	0.0002	99.68	98.49
		0.0007	98.94	
		0.0021	96.85	
	Chrome	0.0058	91.56	92.87
		0.0047	93.11	
		0.0041	93.93	

* All coupons were cleaned well.

Summary:

Substrates:	Glass/Quartz, Chrome				
Contaminants:	SSL Soil 2 Glass Soap Scum				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Durkin Company	Bioneat	6:1	95.68	☑	Overall average percent efficacy is 95.68%.

Conclusion: Bioneat is an effective cleaner to remove SSL 2 glass soap scum from the glass and chrome coupons.