

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	<input checked="" type="checkbox"/>	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.