

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2004
 DateRun: 05/04/2004
 Experimenters: Jason Marshall
 ClientType: Textile Mfr
 ProjectNumber: Project #1
 Substrates: Steel
 PartType: Coupon
 Contaminants: Buffing/Polishing Compounds
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric
 Purpose: To evaluate selected cleaners using manual cleaning

Experimental Procedure: Seven products were selected based on results from the first trial. Each product was used at full strength. Twenty-one preweighed steel copper coupons were coated with the buffing material, Henkel Loctite Clover Silicone Carbide Grease Mix grit size (64742-52-5, 1592-21-2, 1333-86-4), using a hand held swab. Coupons were weighed a second time to determine the amount of soil added to each coupon. Three coupons were placed into a Gardner Straight Line Washability unit. A Professional Painter's Rag was soaked with a cleaning solution and then attached to the cleaning sled. The cleaning unit was run for 10 cycles (~15 seconds). At the end of the cleaning, coupons were wiped once with a dry paper towel. Final weights were recorded and efficiencies were calculated and recorded.

Results: All seven products removed over 95% of the buffing compound mix in less than 15 seconds using manual wiping. The table lists the amount of soil added, the amount remaining and the efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
Soy Gold 2000	0.4607	0.0145	96.85
	0.5630	0.0207	96.32
	0.6900	0.0207	97.00
278 Super Solv	0.6824	0.0101	98.52
	0.3594	0.0047	98.69
	0.6994	0.0089	98.73
Custom Clean NCC 2778	0.3262	0.0038	98.84
	0.3833	0.0050	98.70
	0.6377	0.0052	99.18
Solsafe 245	0.4275	0.0072	98.32
	0.6077	0.0045	99.26
	0.8304	0.0029	99.65
DS 108	0.6546	0.0725	88.92
	0.3731	0.0048	98.71
	0.3878	0.0085	97.81
D Greeze 500 LO	0.4772	0.0118	97.53
	0.3519	0.0074	97.90
	0.6357	0.0079	98.76
United 2002 Harvest Gold	0.7410	0.0208	97.19
	0.3954	0.0190	95.19
	0.4612	0.0184	96.01

Summary:

Substrates:	Steel				
Contaminants:	Buffing/Polishing Compounds				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
AG Environmental Products	Soy Gold 2000	100	96.73	<input checked="" type="checkbox"/>	
AW Chesterton	278 Super Solv	100	98.65	<input checked="" type="checkbox"/>	

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BetzDearborne Laboratories Inc	Custom Clean N CC 2278	100	98.91	<input checked="" type="checkbox"/>	
Bio Chem Systems	Solsafe 245	100	99.08	<input checked="" type="checkbox"/>	
Dysol	DS 108 Wipe Solvent	100	95.15	<input checked="" type="checkbox"/>	
Transene Company, Inc.	D Greeze 500 LO	100	98.06	<input checked="" type="checkbox"/>	
United Laboratories International	United 2002 Harvest Gold	100	96.13	<input checked="" type="checkbox"/>	

Conclusion:

All seven products will be evaluated on the second supplied contaminant under conditions of the first trial.