

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 09/09/2003

Experimenters: Jason Marshall

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Adhesive

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: Laboratory evaluations of alternative cleaning products

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning. Eight products were used at full strength, heated to 120 F on a hot plate. Twenty-four preweighed coupons were coated with Re:Sources Technologies Grid Set Green Glue 2000 (7732-18-5, 25212-88-8, 1310-58-3, 68649-38-7) and allowed to dry overnight and reweighed. Three coupons were cleaned in each solution for 5 minutes using stir-bar-agitation, rinsed in a tap water bath for 15 seconds at 120 F and dried using air blow off for 30 seconds at 68 F. Coupons were allowed to dry overnight and then reweighed a final time. Efficiencies were calculated.

Note: Bio T Foam Plus was sprayed onto coupons at room temperature and allowed to sit for 5 minutes. The cleaner was then wiped clean.

Results: Only two products had positive removal of the adhesive.

Summary:

Substrates:		Stainless Steel				
Contaminants:		Adhesive				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:	
AW Chesterton	278 Super Solv	100	-141.43	<input type="checkbox"/>		
Bio Chem Systems	Bio T Foam Plus	100	10.01	<input type="checkbox"/>		
Invista S.a.r.l	Flexisolv DBE Ester	100	-10.88	<input type="checkbox"/>		
Invista S.a.r.l	Flexisolv DBE 3 ester	100	-49.51	<input type="checkbox"/>		
Eastern Color and Chemical Company	Ecobrite Cleaner AK	100	-4.06	<input type="checkbox"/>		
EcoLink	Rip Tide	100	-2.13	<input type="checkbox"/>		
EcoLink	VG 151	100	5.25	<input type="checkbox"/>	with wipe	
Gemtek Products	SC EZ Solv Safety Solvent	100	-73.48	<input type="checkbox"/>	left a film behind	

Conclusion: Bio Chem Systems Bio T Foam and Ecolink VG 151 may work with extended cleaning times.