

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003  
 DateRun: 09/08/2003  
 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:

<b>Substrates:</b>	Stainless Steel				
<b>Contaminants:</b>	Adhesive				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
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.