

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 Ashland Chemical Aroset PS 8078 adhesive (141-78-6, 142-82-5, 67-63-0) 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 one product had positive removal of this adhesive.

Summary:

Substrates:	Stainless Steel					
Contaminants:	Adhesive					
Company Name:		Product Name:	Conc.:	Efficiency:	Effective:	Observations:
AW Chesterton		278 Super Solv	100	-196.35	<input type="checkbox"/>	
Bio Chem Systems		Bio T Foam Plus	100	-4.97	<input type="checkbox"/>	
Invista S.a.r.l		Flexisolv DBE Ester	100	-14.58	<input type="checkbox"/>	
Invista S.a.r.l		Flexisolv DBE 3 ester	100	-15.18	<input type="checkbox"/>	
Eastern Color and Chemical Company		Ecobrite Cleaner AK	100	-23.29	<input type="checkbox"/>	
EcoLink		Rip Tide	100	-12.06	<input type="checkbox"/>	
EcoLink		VG 151	100	21.64	<input type="checkbox"/>	with wipe
Gemtek Products		SC EZ Solv Safety Solvent	100	-131.23	<input type="checkbox"/>	

Conclusion: Ecolink VG 151 may work with longer cleaning time, or more wiping.