

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 03/15/2002

Experimenters: Purav Dave

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Latex binder

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.  
 Cleaning: 5 min. immersion cleaning at 120 F with stir-bar agitation.  
 Rinsing: 1/2 min. manual with water at 120 F  
 Drying: 1 min. with heat gun at 500 F  
 Contaminant: Latex Binder Mix  
 Cas #: 9016-45-9, 79-06-1, 7664-41-7, 924-42-5, 50-00-0, 1333-86-4, 57-55-6, 7732-18-5  
 floroacrylate copolymer emulsion, Linear alkyl benzene sulphonate

Results: Observation:  
 1. Cleaning Latex Binder with DS-108-Solvent big pieces of binder were removed as compared to the other cleaners and the solvent remained on the coupons even after rinsing which led to the increase in the weight.  
 2. There was no removal of binder by Tarksol HTF-60. Instead, there were pockets formed which retained the cleaner which led to tremendous increase in weight.

Summary:

<b>Substrates:</b>	Stainless Steel				
<b>Contaminants:</b>	Latex binder				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Chemical Technologies	Green Thunder	5	80.59	<input type="checkbox"/>	
CRC Industries	Complex Blue	5	65.29	<input type="checkbox"/>	
United Laboratories International	United 450 All Clear	5	95.06	<input checked="" type="checkbox"/>	
AJ Associates	Dynadet	100	-46.17	<input type="checkbox"/>	
Tarksol Inc	Tarksol HTF 60	100	-509.24	<input type="checkbox"/>	
EnviroSan Products Ltd	Solution 2000	5	70.13	<input type="checkbox"/>	
Heatbath Corporation	Alu-Kleen 36	5	69.28	<input type="checkbox"/>	

Conclusion: Only United 450 all clear was effective.