

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2001  
 DateRun: 12/23/2001  
 Experimenters: Purav Dave  
 ClientType: Lab  
 ProjectNumber: Project #1  
 Substrates: Aluminum  
 PartType: Coupon  
 Contaminants: Inks  
 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 rinsing in water at 120 F .  
 Drying : 1 min. using heat gun at 500 F  
 Contaminant : Ink-ITW Dykem Corp.-Ink steel blue DK100  
 Cas # : 64175, 123864 ,71363

Results: Ink could be visually seen on the coupons. In SC 431 the clear layer of detergent could be seen on the water, so it does not mix well with the water.

Summary:

<b>Substrates:</b>		Aluminum			
<b>Contaminants:</b>		Inks			
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
Alconox Inc	Alcojet	1	9.71	<input type="checkbox"/>	
Buckeye International	Shopmaster FF	5	4.50	<input type="checkbox"/>	
Buckeye International	Shopmaster HP	5	-26.55	<input type="checkbox"/>	Increase in wieght due to water take up by ink.
Buckeye International	Shopmaster LPH	5	3.50	<input type="checkbox"/>	
Calgon Corporation	SC 431	5	7.74	<input type="checkbox"/>	
Buckeye International	Immersion Cleaner	5	1.06	<input type="checkbox"/>	
Bruhin Corporation	Aquavantage 1400	5	-12.28	<input type="checkbox"/>	Increase in wieght due to water take up by ink.

Conclusion: No removal of ink by the given detergents.