

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2001
 DateRun: 12/24/2001
 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:

Substrates:		Aluminum			
Contaminants:		Inks			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
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"/>	
Brulin 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.