

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002  
 DateRun: 01/14/2002  
 Experimenters: Heidi Wilcox  
 ClientType: Lab  
 ProjectNumber: Project #1  
 Substrates: Stainless Steel  
 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 with stir-bar agitation @ 120 F  
 Rinsing: 1/2 min, manual, in 102 F water (tap)  
 Drying : 1 min with heat gun @ 500F  
 Contaminant: ITW, Dykem Corp, Ink, Steel Blue - DX - 100  
 CAS#'s 64175, 12386

Results: None of these cleaners were effective on the dried ink contaminant. The LF 2100 was especially ineffective, it seems to react with the ink and deposit an oily or greasy substance onto the coupon, increasing its weight dramatically. LF: This cleaner reacted w/ the ink, changing its color from deep blue-green to purple greasy/oily film. After cleaning the ink never dried, it stayed tacky or wet. Gravimetric analysis showed there was a significant increase in weight.

Summary:

<b>Substrates:</b>	Stainless Steel				
<b>Contaminants:</b>	Inks				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
Kleer Flo Company	Grease Off 2	5	-6.99	<input type="checkbox"/>	
Valtech Corporation	Valtron SP 2201	5	-10.39	<input type="checkbox"/>	
Valtech Corporation	Valtron SP 2200	5	-8.98	<input type="checkbox"/>	
Permatex Industrial Corporation	Natural Blue	5	3.06	<input type="checkbox"/>	
International Products Corporation	LF 2100 (Liquid Foam Cleaner)	5	-141.14	<input type="checkbox"/>	
US Polychem Corporation	Polychem PW 147	5	15.15	<input type="checkbox"/>	

Conclusion: