

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003  
DateRun: 06/06/2003  
Experimenters: Jason Marshall  
ClientType: Printing Company  
ProjectNumber: Project #1  
Substrates: Textile  
PartType: Part  
Contaminants: Inks  
Cleaning Methods: Manual Wipe  
Analytical Methods: Photography

Purpose: To evaluate successful cleaners on cloth substrate

Experimental Procedure: Four products from previous trials were selected to be evaluated for ink removal from cloth substrate. Three products were used at full strength. The fourth was diluted to 20% using DI water in a 600 ml beaker. All four were used at room temperature. Four pieces of cotton cloth were photographed using a Kodak Digital Science DC260 Zoom camera. These pieces were then contaminated in several spots with PolysOne Kennesaw Wiflex MX Mixing Colors -black (85-68-7, 9002-86-2) using a hand held swab. A second photograph was taken. A paper towel was soaked with each cleaner and used to manually wipe the ink from the cloth. A maximum of ten minutes was allowed for cleaning each spot. Final photographs were taken and observations were made.

Results: The three semi-aqueous products had some success, removing most of the ink from the cloth. All cleaners resulted in smearing the ink across the cloth. The figures show pre-soil, soiled and after cleaning of each cloth strip.

Summary:

<b>Substrates:</b>	Textile				
<b>Contaminants:</b>	Inks				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
Bio Chem Systems	Bio T Max	100		<input checked="" type="checkbox"/>	
Florida Chemical Company	D-Limonene	100		<input checked="" type="checkbox"/>	
Vertec BioSolvents	Ink Zapper	100		<input checked="" type="checkbox"/>	
Phase III Inc	California Parts Washer Solution	20		<input type="checkbox"/>	

Conclusion: Additional testing will be performed to further test the effectiveness of the semi-aqueous products.