

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008  
 DateRun: 04/16/2008  
 Experimenters: Jason Marshall, Shweta Bansal  
 ClientType: Machining Company  
 ProjectNumber: Project #1  
 Substrates: Aluminum  
 PartType: Coupon  
 Contaminants: Inks  
 Cleaning Methods: Manual Wipe  
 Analytical Methods: Visual

Purpose: To evaluate new product with low voc and no HAPs on all six inks.

Experimental Procedure: One coupon was coated with each of the six supplied inks. These included Dykem Stop Off, Markal Valve Action Paint marker, Nu-Mark marker, Sharpie permanent marker, Sakura Coatings Product Company Solid Marker and the Avery Marks-A-Lot permanent marker (black). Once dry, coupons were cleaned using a handheld swab that was immersed into the cleaning product. Cleaning lasted for up to 1 minute. Following the cleaning, the coupons was wiped dry for 5 seconds. Observations were made and recorded.

Results:	Contaminant	Observation
	Dykem	Required under 30 seconds to clean
	Markal	Worked well
	Nu-Mark	Worked well
	Sharpie	Worked well - slight blue residue left
	Sakura	Worked well under 1 minute
	Avery	Worked well

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>
	Vertec BioSolvents	VertecBio Gold 3	100	0.00	<input checked="" type="checkbox"/>	

Conclusion: The Vertec Bio Gold #3 worked on all six inks.