

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008  
DateRun: 08/19/2008  
Experimenters: Jason Marshall  
ClientType: Machining Company  
ProjectNumber: Project #1  
Substrates: Aluminum  
PartType: Coupon  
Contaminants: Inks  
Cleaning Methods: Manual Wipe  
Analytical Methods: Visual

Purpose: To evaluate reformulated product on six supplied inks.

Experimental Procedure: Coupons were 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 2 minutes (if necessary). Following the cleaning, the coupons was wiped once to dry surface. Observations were made and recorded. Product was used at full strength.

Results:	Vertec Bio Gold 35	
	Inks	Results
	Dykem	Effective in under 30 seconds
	Markal	Effective in under 30 seconds
	Nu-Mark	Effective in under 30 seconds
	Sharpie	Effective in under 30 seconds - little to no blue residue
	Sakura	Effective in under 30 seconds
	Avery	Effective in under 30 seconds

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		<input checked="" type="checkbox"/>	

Conclusion: The formulation was found to be effective on all six of the supplied inks. The Sharpie ink removal was better than the previous formulation.