

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003  
 DateRun: 03/26/2003  
 Experimenters: Heidi Wilcox  
 ClientType: Lab  
 ProjectNumber: Project #1  
 Substrates: Stainless Steel  
 PartType: Coupon  
 Contaminants: Waxes  
 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: Beeswax  
 Results: Using immersion cleaning for five minutes resulted in four products removing all the beeswax, one removed 99% and the last product removed 85%.

Summary:

<b>Substrates:</b>	Stainless Steel				
<b>Contaminants:</b>	Waxes				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
Florida Chemical Company	Citrus Burst 7	100	100.75	<input checked="" type="checkbox"/>	
Florida Chemical Company	D-Limonene	100	99.10	<input checked="" type="checkbox"/>	
Vertec BioSolvents	VertecBio Gold Unscented Part Cleaner	100	85.10	<input checked="" type="checkbox"/>	
Pentone Corporation	Citrikleen XPC	100	100.07	<input checked="" type="checkbox"/>	
Inland Technologies Inc	Citrasafe	100	100.37	<input checked="" type="checkbox"/>	
EcoLink	Vortex	100	100.44	<input checked="" type="checkbox"/>	

Conclusion:

All products evaluated were found to be effective at removing the beeswax.