

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 03/27/2003

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.