

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:

Substrates:	Stainless Steel				
Contaminants:	Waxes				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
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.