

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 09/06/2002

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Cutting/Tapping Fluids

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, ambient
 Rinsing: 1/2 min, manual, in 120F water (tap), ambient
 Drying: 1 min with heat gun @ 500F
 Contaminant: Steco Corp, Tap Magic Protap (cutting fluid)
 CAS# 112-80-1(>75%) Aliphatic organic acid
 112-62-9 (<15%) Aliphatic organic ester

Results:

Summary:

Substrates:		Stainless Steel			
Contaminants:		Cutting/Tapping Fluids			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
EcoLink	Bulldog	5	97.82	<input checked="" type="checkbox"/>	
Innovative Organics Inc	Amberclean Q3	5	93.31	<input checked="" type="checkbox"/>	
AG Environmental Products	Soy Clear 1500	100	88.52	<input checked="" type="checkbox"/>	
AG Environmental Products	Canola Gold CE110	100	91.98	<input checked="" type="checkbox"/>	
Phase III Inc	California Parts Washer Solution	5	95.70	<input checked="" type="checkbox"/>	
PCI of America	Hurrisafe 9575	5	96.88	<input checked="" type="checkbox"/>	

Conclusion: The heated wash and rinse increased the effectiveness of all the cleaners.