

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002
 DateRun: 09/09/2002
 Experimenters: Heidi Wilcox
 ClientType: Lab
 ProjectNumber: Project #1
 Substrates: Stainless Steel
 PartType: Coupon
 Contaminants: Cutting/Tapping Fluids
 Cleaning Methods: Ultrasonics
 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.
 Degassing: Degassing the solution by keeping solutions in ultrasonic crest for 2 min at 120 F.
 Cleaning: Ultrasonic for 2 min. at 120 F.
 Rinsing: 1/2 min. manual with water at 120 F.
 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	96.95	<input checked="" type="checkbox"/>	
Innovative Organics Inc	Amberclean Q3	5	91.30	<input checked="" type="checkbox"/>	
AG Environmental Products	Soy Clear 1500	100	93.93	<input checked="" type="checkbox"/>	
AG Environmental Products	Canola Gold CE110	100	88.07	<input checked="" type="checkbox"/>	
Phase III Inc	California Parts Washer Solution	5	92.97	<input checked="" type="checkbox"/>	
PCI of America	Hurrifsafe 9575	5	90.15	<input checked="" type="checkbox"/>	

Conclusion: Heated ultrasonics did not change efficiency significantly.