

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 09/10/2002

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:

<b>Substrates:</b>		Stainless Steel				
<b>Contaminants:</b>		Cutting/Tapping Fluids				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>	
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	Hurrisafe 9575	5	90.15	<input checked="" type="checkbox"/>		

Conclusion: Heated ultrasonics did not change efficiency significantly.