

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 11/26/2002

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

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  
Rinsing: 1/2 min, manual, in 120 F water (tap)  
Drying: 1 min with heat gun @ 500F  
Contaminant: CRC Cutting Oil  
CAS# 64742-52-5, 75-28-5, 74-98-6

## Results:

### Summary:

<b>Substrates:</b>		Aluminum			
<b>Contaminants:</b>		Cutting/Tapping Fluids			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Buckeye International	XL 100 Cleaner & Degreaser	5	100.56	<input checked="" type="checkbox"/>	
Buckeye International	Immersion Cleaner	5	100.35	<input checked="" type="checkbox"/>	
Buckeye International	Ambush	5	157.13	<input type="checkbox"/>	Coupon maybe not clean and cleaner removed oil and innitial residue or it could have damaged aluminum
SOQ Environmental Technology	Ecomate FN	5	97.60	<input checked="" type="checkbox"/>	
Simple Green	Concentrated Industrial Strength Cleaner and Degreaser	5	90.97	<input checked="" type="checkbox"/>	
Magnaflux	Daraclean 236	5	67.55	<input type="checkbox"/>	Solidified oil, chunky and turned it yellow. Possibly a more vigorous spray rinse may have helped efficiency.
Magnaflux	Daraclean 203	5	110.98	<input type="checkbox"/>	coupon mayhave had residue on it and cleaner cleaned it off or damaged to alluminum could of occurred.

### Conclusion: