

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:

Substrates:		Aluminum			
Contaminants:		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: