

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002

DateRun: 01/11/2002

Experimenters: Heidi Wilcox

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Lubricating/Lapping Oils

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 102 F water (tap)
Drying : 1 min with heat gun @ 500F
Contaminant: Cook's Ind Lubricants (Elf Lubricants North America Inc)
Cool 5

Results: Low Foam: This cleaner looked to almost bleach the coupons. It either thoroughly cleaned the coupon of all background and newly added contaminants or it reacted with the aluminum itself.

Summary:

Substrates:		Aluminum			
Contaminants:		Lubricating/Lapping Oils			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Kleer Flo Company	Grease Off 2	5	99.23	<input checked="" type="checkbox"/>	
Valtech Corporation	Valtron SP 2201	5	99.64	<input checked="" type="checkbox"/>	
Valtech Corporation	Valtron SP 2200	5	99.98	<input checked="" type="checkbox"/>	
Permatex Industrial Corporation	Natural Blue	5	97.43	<input checked="" type="checkbox"/>	
International Products Corporation	LF 2100 (Liquid Foam Cleaner)	5	106.73	<input type="checkbox"/>	
US Polychem Corporation	Polychem PW 147	5	82.42	<input type="checkbox"/>	not effective

Conclusion: 4 of the 6 cleaners were effective. Perfect Way 147 (82.42 ave % removal). LF-2100 had an average % removal of 106.73. The coupons looked almost bleached with a line where the contaminant and cleaner had been used.