

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2002
 DateRun: 01/10/2002
 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.