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	☑	
Valtech Corporation	Valtron SP 2201	5	99.64	☑	
Valtech Corporation	Valtron SP 2200	5	99.98	☑	
Permatex Industrial Corporation	Natural Blue	5	97.43	☑	
International Products Corporation	LF 2100 (Liquid Foam Cleaner)	5	106.73	☐	
US Polychem Corporation	Polychem PW 147	5	82.42	☐	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.