CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	1998
DateRun:	09/30/1998
Experimenters:	Jason Marshall
ClientType:	Name Plate Mfg-Etching
ProjectNumber:	Project #1
Substrates:	Aluminum
PartType:	Part
Contaminants:	None
Cleaning Methods:	Immersion/Soak
Analytical Methods:	Gravimetric, Visual, Wipe
Purpose:	To determine compatibility of new cleaning product with surface paint.
Experimental Procedure:	Initial weights of 3 customer-supplied coupons were recorded. The cleaning solution was used at 100% solution and room temperature. Three coupons were placed in each cleaning chemistry. After soaking for 24 hours, the coupons were removed from the cleaner, rinsed in tap water at 120 oF and wiped dry with a white paper towel. Observations were made during the wiping to determine if any of the paint was removed. SUBSTRATE MATERIAL: Aluminum 3003 with paint (not to be removed) CONTAMINANTS: None
Results:	Soy Gold 2000 showed no signs of removing the paint from the coupons. Since the product was rinsable in water, there were not as slick as the coupons soaked in Soy Gold 1000 (from 98-676-04-4). The gravimetric analysis in Table 1 shows that there was some weight increase for each of the 3 coupons.

Table 1. Gravimetric Analysis

	A	B	C	Average	Std Dev
Initial	11.1853	11.2946	11.5284	11.3361	0.1753
Final	11.202	11.2989	11.5344	11.3451	0.1709
Weight Gain	0.0153	0.0036	0.0052	0.00803	0.00634
% Increase	0.1368	0.0319	0.0451	0.0713	0.05713

The two Soy Gold products tested yielded similar results in weight gain and increase in weights.

Table 2. Comparison of Soy Gold 1000 & 2000

Average Values	Soy Gold 1000	Soy Gold 2000
Weight Gain (g)	0.00857	0.008
% Increase	0.0753	0.0713

Summary:

Substrates:	Aluminum				
Contaminants:	None				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
AG Environmental Products	Soy Gold 2000	100	0.00	☑	

Conclusion: Soy Gold 2000 was proven to be compatible with the paint on the client supplied coupons. The next test will be to compare the cleaning efficiencies of the Soy Gold products on the new contaminant solution.