

CLEANING LABORATORY EVALUATION SUMMARY

	1000									
SCL #:	1998									
DateRun:	10/01/1998									
Experimenters:	Jason Marshall									
ClientType:	Name Plate Mfg-Etching									
ProjectNumber:	Project #1									
Substrates:	Aluminum									
PartType:	Coupon									
Contaminants:	Abrasive, Paints, Dirt, Soaps									
Cleaning Methods:	Immersion/Soak									
Analytical Methods:	Gravimetric									
Purpose:	Previously successful products were used again in this trial with the addition of one sample.									
Experimental Procedure:	Products which were previously tested for the client and found to have some success, were used again in this trial with the addition of one sample. Preweighed coupons were immersed into the contaminant solution. Coupons were removed and allowed to dry overnight at room temperature. Contaminated weights were recorded. Three coupons were placed into each cleaning chemistry for 5 minutes using stir bar agitation at 130 F. Coupons were rinsed with tap water at 120 F for 30 seconds. Coupons were allowed to air dry. After drying, clean weights were recorded and efficiencies were calculated. SUBSTRATE MATERIAL: Aluminum 3003 CONTAMINANTS: Dirty cleaning solution-D-Greeze 500 w/ residual paint chips and pumice sludge									
Results:	The two Soy Gold products were effective in removing the contaminant solution from the coupons. Bo required less than the five minutes used for cleaning. After the parts were rinsed, it was evident that SG 2000 looked cleaner than the SG 1000. The rinsing ability of SG 2000 aided in removing most of the slick feeling associated with SG 1000. Despite the decrease in the residue left behind, the cleaning efficiencies of both were fairly consistent with each other. Table 1 lists the cleaning efficiencies of all f cleaning chemistries. Table 1. Cleaning Efficiencies									
		SG 1000	SG 2000	Simple	Star					
	Coupon 1	81.79		8.9	13.46					
	Coupon 2	79.88	91.09	10.34	16.82					
	Coupon 3	84.87	87.57	8.79	11.59					
	Ave Std Dev	82.18 2.52	90.21 2.33	9.34 0.86	14.00 2.65					
Summary:										
Summary.	Substrates: Aluminum									
			Abrasive, Paints, Dirt, Soaps							
	Company Name:		Product Name:				Conc.:	Efficiency:	Effective:	Observations:
	By Pas and Star Products		Star Cleaning Miracle # 50				5	14.00		
	Simple Green		Concentrated Industrial Strength Cleaner and Degreaser				5	9.34		
	AG Environmental Products		Soy Gold 1000				100	82.18		
	AG Environmental Products		Soy Gold 2000				100	90.21	V	
Conclusion:	Soy Gold 2000 showed excellent removal of the D-Greeze 500 contaminant solution. With the cleaning									

Conclusion:

Soy Gold 2000 showed excellent removal of the D-Greeze 500 contaminant solution. With the cleaning solution's ability to be rinsed, the efficiency was slightly better than the non-rinsable solution of Soy Gold 1000. Both solutions removed the majority of the contaminant in about three minutes of cleaning.