CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003

DateRun: 09/08/2003

Experimenters: Jason Marshall

ClientType: Lab

ProjectNumber: Project #1

Substrates: Aluminum

PartType: Coupon

Contaminants: Coatings

Cleaning Methods:

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.

Five products were used at full strength, heated to 120 F on a hot plate. Fifteen preweighed coupons were coated with Quaker Chemical Ferrocoate 5815-LVO protective coating and allowed to dry overnight and reweighed. Three coupons were cleaned in each solution for 5 minutes using stir-bar-agitation, rinsed in a tap water bath for 15 seconds at 120 F and dried using air blow off for 30 seconds at 68 F. Coupons were allowed to dry overnight and then reweighed a final time. Efficiencies were calculated.

Note: Bio T Foam Plus was sprayed onto coupons at room temperature and allowed to sit for 5 minutes. The cleaner was then wiped clean.

Results: Only one product was partially successful in removing the coating. Additional contact time may improve efficiencies for others as there was signs that the coating was starting to crack.

Summary:

Substrates:	Aluminum				
Contaminants:	Coatings				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
AW Chesterton	278 Super Solv	100	52.37	☐	Retest at longer time
Bio Chem Systems	Bio T Foam Plus	100	76.32	☐	Retest at longer time
Invista S.a.r.l	Flexisolv DBE 3 ester	100	5.88	☐	
Eastern Color and Chemical Company	Ecobrite Cleaner AK	100	8.48	☐	
Gemtek Products	SC EZ Solv Safety Solvent	100	1.39	☐	

Conclusion: No products removed over 85% of the coating.