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:	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. 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 removed over 85% of the coating. The other four may be effective with longer cleaning times or the use of additional mechanical energy.

Summary:

Substrates:	Aluminum				
Contaminants:	Coatings				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
AW Chesterton	278 Super Solv	100	90.32	☑	
Bio Chem Systems	Bio T Foam Plus	100	79.54	☐	
Invista S.a.r.l	Flexisolv DBE 3 ester	100	65.35	☐	
Eastern Color and Chemical Company	Ecobrite Cleaner AK	100	61.45	☐	
Gemtek Products	SC EZ Solv Safety Solvent	100	75.41	☐	

Conclusion: AW Chesterton was successful in removing the coating.