

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2003
 DateRun: 09/09/2003
 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	<input checked="" type="checkbox"/>		
Bio Chem Systems	Bio T Foam Plus	100	79.54	<input type="checkbox"/>		
Invista S.a.r.l	Flexisolv DBE 3 ester	100	65.35	<input type="checkbox"/>		
Eastern Color and Chemical Company	Ecobrite Cleaner AK	100	61.45	<input type="checkbox"/>		
Gemtek Products	SC EZ Solv Safety Solvent	100	75.41	<input type="checkbox"/>		

Conclusion: AW Chesterton was successful in removing the coating.